



9.1 MONROE COUNTY

This section presents the jurisdictional annex for Monroe County.

9.1.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan’s (HMP) primary and alternate points of contact.

| Primary Point of Contact | Alternate Point of Contact |
|--|--|
| Frederick J. Rion, Jr., Emergency Preparedness Administrator, OEM 1190 Scottsville Rd., Suite 200, Rochester, NY 14624 (585) 753-3816 Frion@monroecounty.gov | Debi Altamari 1190 Scottsville Road, Suite 200 Rochester, NY 14624 585-753-3810 daltemari@monroecounty.gov |

9.1.2 County Profile

Please refer to Section 4, Volume I of this Plan for details on Monroe County’s population, location, climate, history, growth, and development. There has been no development of County facilities in the last five years, and none is in the planning stages.

9.1.3 Natural Hazard Event History Specific to Monroe County

Monroe County has a history of natural hazard events as detailed in Volume I, Section 5.0 of this Plan. A summary of historical events appears in each hazard profile and includes a chronology of events that have affected the County and its municipalities.

9.1.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this Plan convey detailed information regarding each plan participant’s vulnerability to the identified hazards. The risk ranking methodology is presented in Section 5.3. However, the County had the opportunity to adjust the final ranking based on feedback. The following summarizes the hazard vulnerabilities and their ranking in Monroe County. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

Hazard Risk/Vulnerability Risk Ranking

Table 9.1-1 below summarizes hazard risk/vulnerability rankings of potential hazards for Monroe County.

Table 9.1-1. Hazard Risk/Vulnerability Risk Ranking

| Hazard type | Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{1, 3} | Probability of Occurrence | Risk Ranking Score (Probability x Impact) | Hazard Ranking ² |
|----------------------------|---|---------------------------|---|-----------------------------|
| Earthquake ^{4, 5} | 100-year Mean Return Period (MRP) General Building Stock (GBS): \$15,670,506 500-year MRP GBS: \$283,639,389 2,500-year MRP GBS: \$3,336,290,332 Annualized: \$4,333,968 | Frequent | 48 | High |
| Landslide | Exposed: \$209,286,140,607 | Frequent | 48 | High |
| Severe storm | Expected Losses from Wind Alone: \$0 | Frequent | 48 | High |
| Utility failure | Damage Estimate Not Available | Frequent | 39 | High |



| Hazard type | Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{1, 3} | Probability of Occurrence | Risk Ranking Score (Probability x Impact) | Hazard Ranking ² |
|---------------------|--|---------------------------|---|-----------------------------|
| Extreme temperature | Damage Estimate Not Available | Frequent | 36 | High |
| Severe winter storm | 1% Damage Loss Estimate: \$1,634,101,057 5% Damage Loss Estimate: \$8,170,505,283 10% Damage Loss Estimate: \$16,341,010,567 | Frequent | 36 | High |
| Infestation | Damage Estimate Not Available | Frequent | 24 | Medium |
| Civil unrest | Damage Estimate Not Available | Frequent | 18 | Medium |
| Flood ⁴ | 1% annual chance: \$775,344,328 | Frequent | 18 | Medium |
| Hazardous materials | Damage Estimate Not Available | Frequent | 18 | Medium |
| Terrorism | Damage Estimate Not Available | Frequent | 18 | Medium |
| Wildfire | Exposed Value in the Wildland-Urban Interface (WUI): \$29,188,633,604 | Frequent | 18 | Medium |
| Drought | Damage Estimate Not Available | Frequent | 12 | Low |

Notes:

- 1 Building damage ratio estimates were based on Federal Emergency Management Agency (FEMA) 386-2 (August 2001).
- 2 The valuation of general building stock and loss estimates was based on custom inventory for the municipality.
High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 15-30
Low = Total hazard risk ranking below 15
- 3 Loss estimates for the severe storm and severe winter storm hazards are structural values only, and do not include the value of contents.
- 4 Loss estimates for the flood and earthquake hazards represent both structure and contents.
- 5 The Hazards United States – Multi-Hazards (HAZUS-MH) earthquake model results are reported by Census Tract.

Other Vulnerabilities Identified

The County has identified an increase in frequency of occurrence, magnitude of impact, and/or geographic extent of the following hazards within the last 5-year HMP planning period: flood, severe storms, winter storm (severe), terrorism, and utility failure.

9.1.5 Capability Assessment

This section identifies the following capabilities of the County. Refer to Section 6 (Mitigation Strategy – Capability Assessment) for additional details on County programs and capabilities.

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program (NFIP)
- Integration of mitigation planning into existing and future planning mechanisms.

Planning and Regulatory Capability

Table 9.1-2 below summarizes regulatory tools available to Monroe County.





Table 9.1-2. Planning and Regulatory Tools

| Tool / Program (code, ordinance, plan) | Do you have this? (Yes/No) If Yes, date of adoption or update | Authority (local [L], county [C], state [S], federal [F]) | Dept. /Agency Responsible | Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.) |
|---|---|--|--|---|
| Planning Capability | | | | |
| Master Plan | Yes | L/C/S/F | Office of Emergency Management (OEM) / Local Emergency Planning Committee (LEPC) | Monroe County Comprehensive Development Plan |
| Capital Improvements Plan (CIP) | Yes | Monroe County | Planning, Budget/Finance | Adopted 2016-2021 CIP |
| Floodplain Management / Basin Plan | No | - | - | - |
| Stormwater Management Plan | Yes | Monroe County | Department of Environmental Services (DES) | 2010 MS4 Stormwater Management Plan (SWMP) |
| Open Space Plan | No | - | - | However, the County has had open space programs that fund open space preservation projects. |
| Stream Corridor Management Plan | Yes | County | DES | Various draft plans prepared for the Stormwater Coalition including Genesee River, Black Creek, and Oatka Creek |
| Watershed Management or Protection Plan | Yes | County | DES | Same as above. |
| Economic Development Plan | Yes | County | | Economic development is one of the Comprehensive Plan elements. |
| Comprehensive Emergency Management Plan | Yes / 2008 (in process of updating to an Emergency Support Function [ESF] format) | Local | OEM | New York State (NYS) Article 2B |
| Emergency Response Plan | Yes | Monroe County | Monroe County | - |
| Post-Disaster Recovery Plan | Yes | Local/County | County Exec | Continuity of Government Chapter 21 |
| Transportation Plan | Yes | County | - | Transportation is one of the Comprehensive Plan elements. |
| Strategic Recovery Planning Report | No | - | - | - |
| Other Plans: | Not applicable (N/A) | - | - | - |
| Regulatory Capability | | | | |
| Building Code | Yes | County | DES | County is a self-permitting authority having jurisdiction (AHJ) |
| Zoning Ordinance | No | Local | - | - |
| Subdivision Ordinance | No | Local | - | - |



| Tool / Program (code, ordinance, plan) | Do you have this? (Yes/No) If Yes, date of adoption or update | Authority (local [L], county [C], state [S], federal [F]) | Dept. /Agency Responsible | Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.) |
|---|---|--|---------------------------|--|
| National Flood Insurance Program (NFIP) Flood Damage Prevention Ordinance | No | State, Local | - | - |
| NFIP: Cumulative Substantial Damages | No | State, Local | - | - |
| NFIP: Freeboard | Yes | State, Local | - | State mandated Base Flood Elevation (BFE)+2 for single and two-family residential construction, BFE+1 for all other construction types |
| Growth Management Ordinances | No | State, Local | - | - |
| Site Plan Review Requirements | Yes | County | County, DES | Highway Access Guidelines; Pure Waters Development Review Group is responsible for Pure Waters sewer permitting |
| Stormwater Management Ordinance | Yes | County | DES | Illicit Discharge Ordinance adopted 2003; Sewer Use Law adopted 1988 |
| Municipal Separate Storm Sewer System (MS4) | Yes | County | DES | Permit includes all county facilities and operations, and Rochester storm sewer system. Sewers Chapter 343 |
| Natural Hazard Ordinance | No | Local | - | - |
| Post-Disaster Recovery Ordinance | No | - | - | - |
| Real Estate Disclosure Requirement | Yes | State | - | NYS mandate, Property Condition Disclosure Act, <i>NY Code</i> – Article 14 §460-467 |
| Other (Special Purpose Ordinances [i.e., sensitive areas, steep slope]) | N/A | - | - | - |

Administrative and Technical Capability

Table 9.1-3 below summarizes potential staff and personnel resources available to Monroe County.

Table 9.1-3. Administrative and Technical Capabilities

| Resources | Is this in place? (Yes or No) | Department/ Agency/Position |
|---|----------------------------------|--|
| Administrative Capability | | |
| Planning Board | Yes | DES representative |
| Mitigation Planning Committee | Yes | Public Safety / OEM / Emergency Preparedness Administrator |
| Environmental Board/Commission | No | - |
| Open Space Board/Committee | No | - |
| Economic Development Commission/Committee | No | - |
| Maintenance Programs to Reduce Risk | Yes | Monroe County Department of Transportation (MCDOT), Monroe County Water Authority (MCWA), 911/Accreditation Supervisor |
| Mutual Aid Agreements | Yes | Mobile Communications Unit #4 (MCU4), |



| Resources | Is this in place? (Yes or No) | Department/ Agency/Position |
|--|-------------------------------|---|
| | | <p>NYWARN, County/Town/Village Shared Equipment Agreement, DES and OEM Emergency Operations Center (EOC) Agreement Public Safety / Monroe County Fire Bureau (MCFB), Emergency Medical Services (EMS), OEM / County Fire Coordinator, Director of EMS, Emergency Preparedness Administrator</p> <p>Additionally, all of Monroe County government falls under NYS's intrastate mutual aid plan. The County Executive is the Point of Contact (POC), and the Emergency Preparedness Administrator is the designee. 911/Supervisor/ National Joint TERT Initiative (NJTI) Telecommunicator Emergency Response Taskforce (TERT)</p> |
| Technical/Staffing Capability | | |
| Planner(s) or engineer(s) with knowledge of land development and land management practices | Yes | MCDOT, DES GIS, MCWA (potable water) |
| Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure | Yes | MCDOT, DES |
| Planners or engineers with an understanding of natural hazards | Yes | MCDOT, DES GIS, Public Safety / OEM / Emergency Preparedness Administrator |
| NFIP Floodplain Administrator (FPA) | N/A | - |
| Surveyor(s) | No | - |
| Personnel skilled or trained in Geographic Information System (GIS) and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications | Yes | MCDOT, DES GIS Division, OEM |
| Scientist familiar with natural hazards | Yes | DES GIS |
| Emergency Manager | Yes | MCDOT, Public Safety / OEM / Emergency Preparedness Administrator |
| Grant writer(s) | Yes | Monroe County – Within the County, within each department, and within each division of those are individuals tasked with writing grants related to mission-critical tasks. |
| Staff with expertise or training in benefit/cost analysis | Yes | MCDOT, DES Engineering, 911/Administrative Assistant |
| Professionals trained in conducting damage assessments | Yes | MCDOT, DES Code |

Fiscal Capability

Table 9.1-4 below summarizes financial resources available to Monroe County.

Table 9.1-4. Fiscal Capabilities

| Financial Resources | Accessible or Eligible to Use (Yes/No) |
|---|--|
| Community Development Block Grants (CDBG, CDBG-DR) | No |
| Capital improvements project funding | Yes – MCDOT, MCWA (Water) |
| Authority to levy taxes for specific purposes | No |
| User fees for water, sewer, gas or electric service | Yes |
| Impact fees for homebuyers or developers of new development/homes | Yes – sewer permits |



| Financial Resources | Accessible or Eligible to Use (Yes/No) |
|--|---|
| Stormwater utility fee | Yes – MCDOT |
| Incur debt through general obligation bonds | Yes – MCDOT |
| Incur debt through special tax bonds | Yes – Pure Waters Districts, Revenue Bonds |
| Incur debt through private activity bonds | No |
| Withhold public expenditures in hazard-prone areas | No |
| Other federal or state funding programs | Yes –MCDOT, Drinking Water State Revolving Fund (DWSRF), Homeland Security Grant Program (HSGP) |
| Open space acquisition funding programs | No |
| Other | N/A |

Community Classifications

Table 9.1-5 below summarizes classifications of community programs available to Monroe County.

Table 9.1-5. Community Classifications

| Program | Do you have this? (Yes/No) | Classification (if applicable) | Date Classified (if applicable) |
|---|----------------------------|---|---------------------------------|
| Community Rating System (CRS) | No | - | - |
| Building Code Effectiveness Grading Schedule (BCEGS) | Yes | Unknown | - |
| Public Protection (Insurance Services Office [ISO] Fire Protection Classes 1 to 10) | Yes | Unknown | - |
| Storm Ready | Yes | Storm Ready County | March 2015 |
| Firewise | No | - | - |
| Disaster/safety programs in/for schools | Yes | Stop Driving While Intoxicated (DWI), Monroe County Sheriff’s Office (MCSO) Safety and Prevention Programs, MCFB Juvenile Fire Intervention Program | Ongoing |
| Organizations with mitigation focus (advocacy group, non-government) | No | - | - |
| Public education program / outreach (through website, social media) | Yes | H2O Hero Office of Emergency Management Preparedness Education Programs (through social media and public presentations), Monroe County Department of Public Health (MCDPH) (social media, public presentations) | Ongoing |
| Public-private partnerships | Yes | Stormwater Coalition Ecopark, LEPC | Ongoing |

Note:

- Unavailable





The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery, and mitigation), and are used as an underwriting parameter for determining costs of various forms of insurance. The Community Rating System (CRS) class applies to flood insurance, while the Building Code Effectiveness Grading Schedule (BCEGS) and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10, with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classification is higher if the subject property is more than 1000 feet from a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The Insurance Services Office (ISO) Mitigation online Public Protection website at <https://www.isomitigation.com/ppc/>
- The National Weather Service Storm Ready website at <http://www.stormready.noaa.gov/index.html>
- The National Firewise Communities website at <http://firewise.org/>

Self-Assessment of Capability

Table 9.1-6 below provides an approximate measure of Monroe County’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.1-6. Self-Assessment Capability for the Municipality

| Area | Degree of Hazard Mitigation Capability | | |
|---|---|----------|------|
| | Limited (If limited, what are your obstacles?) | Moderate | High |
| Planning and Regulatory Capability | | | X |
| Administrative and Technical Capability | | | X |
| Fiscal Capability | X – Budget constraints | | |
| Community Political Capability | | X | |
| Community Resiliency Capability | | | X |
| Capability to Integrate Mitigation into Municipal Processes and Activities. | | X | |

Other Capabilities Identified

Previous actions that are now ongoing programs and capabilities are described below. Refer to Table 9.1-7 later in this annex. The majority of the capabilities listed below are ongoing municipal functions, funded through the annual budget unless otherwise noted.

- County staff receive training or continuing professional education that supports natural hazard risk reduction, but would benefit from additional training and/or certification pertaining to natural hazard risk management in Benefit/Cost Analysis (BCA), Recovery Planning, Damage Estimates, and Debris Management.
- Mobile Communications Unit #4 (MCU4) is the County's Geographic Information System (GIS) truck that deploys to events, scenes, etc., as necessary. It acts as a GIS Unit on wheels.





- The County's new Monitoring and Reaction Center (MRC) Building is on the grounds of the airport, and houses personnel who monitor camera feeds, alarms, etc., for County systems, as well as a few private-sector partners. It is also the backup 911 Center, and has mass data storage capabilities. Finally, County Public Safety vehicles, including MCU1 (Command Communications Vehicle) and MCU4 are stored on site.
- The County Office of Emergency Management (OEM) maintains the following operational capabilities and programs on an ongoing basis:
 - Through leveraging funding through the Homeland Security Grant Program (HSGP), OEM continues to acquire personal protective equipment (PPE), detection and monitoring equipment, and communications response equipment for Emergency Services providers. Decisions as to equipment acquired occur through consensus of first-responder agencies that are part of the Weapons of Mass Destruction (WMD) group and Urban Area Working Group (UAWG). Acquisitions are based on need, identified capability gaps, after-action reports (AAR), and National Incident Management System (NIMS) typing needs.
 - Local residents are recruited for and trained in the SKYWARN Program of National Oceanic and Atmospheric Administration (NOAA)/National Weather Service (NWS) in partnership with NOAA/SWS. Multiple SKYWARN trainings have been held since 2010 (approximately two per year minimum). NWS provides this service without fee, and coordination of the local share is funded by County operating budgets.
 - OEM continues to maintain a cache of sandbags provided to County by the U.S. Army Corps of Engineers (USACE). Sandbags are distributed as needed, and inventory numbers are maintained. Capability is funded under the OEM operating budget and by USACE.
 - In partnership with New York State (NYS) Department of Environmental Control (DEC), OEM provides dam owners with information on state regulations as needed and applicable. This program is funded under local operating budgets and with NYS funds.
 - OEM partners with USACE to implement USACE's Advanced Measures Program.
 - In partnership with the County Office of Planning and Development, OEM continues leadership and partnering with other south shore counties on the "Lake Ontario South Shore County Collaborative on Lake Level." This action has become part of ongoing operations by the County OEM and the County Office of Planning and Development. The County regularly works with communities along the south shore of Lake Ontario (within Monroe County), as well as monitors and communicates with the International Joint Commission regarding lake levels of Lake Ontario.
 - OEM monitors all available information outlets to compare utilized supply with demand in order to predict shortfalls. OEM continues to monitor information and shares as necessary supported by a local annual operating budget.
 - OEM provides state-of-the-art training for volunteers and County staff who participate in delivery of Emergency Services to those responding to hazardous materials incidents. OEM continues to utilize HSGP funds and other funding resources to implement and maintain training programs.
 - OEM conducts an annual review and update of the LEPC and County Hazardous Materials Response Plan that is supported by Hazardous Materials Emergency Preparedness (HMEP) funding, OEM operating budget, HSGP, and Radiological funding.



- OEM meets and exceeds federal and NYS Emergency Response Commission requirements for LEPCs. OEM continues to have a robust and active LEPC, operated with HMEP funding.
 - In cooperation with the County Public Information Officer, OEM develops pre-scripted public safety messages for media outlets. OEM and the County Communications & Special Events Office work together to develop appropriate messaging for the public during events.
 - OEM expands emergency Public Alerting means. Code Red reverse 911 system replaced the formerly used HyperReach product, and is now used by the 911 Center for mass alerting related to various types of events. Social media such as Facebook and Twitter have also been institutionalized and utilized since the last plan update. These programs are funded through local operating budgets and HSGP funds, as necessary.
 - OEM continues to provide regular educational and training opportunities to local municipalities through various means including the following: Public Officials Workshops, Tier 3 Public Officials Trainings, Incident Command System (ICS) 100 & 200 in classroom offerings, higher level ICS courses for municipalities scheduled as necessary, provisions of weekly intelligence briefings, and other means. Outreach activities are funded from local and HSGP funds.
 - OEM provides weather briefings (via email) and educational materials to various stakeholders as these relate to NWS awareness campaigns. Additionally, social media (Facebook and Twitter) are utilized to share information related to winter weather awareness campaigns. Local budgets and HSGP fund these efforts.
 - Monroe County was recertified as a NOAA/NWS StormReady community (“Storm Ready Community”) in 2015.
 - OEM annually reviews the County’s Comprehensive Emergency Plan (CEMP), and is conducting a major overhaul of the plan to include and incorporate ESFs using local operating budgets and HSGP funds.
 - OEM manages multiple homeland security grants that provide funding to obtain PPE, detection and monitoring equipment, and communications response equipment for Emergency Services providers, and to train Emergency Services providers on PPE and WMD response. Selection of acquired equipment occurs through consensus of first responder agencies that are part of WMD group and UAWG. Acquisitions are based on need, identified capability gaps, AARs, and NIMS typing needs. HSGP and OEM operating dollars support some of these acquisitions.
 - Over the previous 5 years, Monroe County OEM has secured several targeted grant funds, including funds from HSGP that have helped target-harden government facilities. Additionally, OEM has worked with the Rochester Institute of Technology for several years on an analysis of critical infrastructure within the metropolitan s area (MSA).
- The Monroe County Emergency Communications Department (ECD) maintains the following operational capabilities and programs on an ongoing basis:
 - Utilizes Public Alerting & Notification mechanisms and the media to heighten awareness when extreme temperatures threaten life-safety. Warnings are issued by National Attack Warning System (NAWAS), EJustice, and NOAA. Warning information is passed along to schools, hospitals, police, fire, and EMS personnel via radio and mobile data terminal (MDT). This capability is funded through the County operating budget.



- In coordination with Monroe County Water Authority (MCWA), ECD developed HyperReach, an alternate communications product made available via Asher Group. CodeRed is now utilized as Emergency Telephone Notification System (ETNS). Although ETNS system has been developed, database and records management will be ongoing.
- The Monroe County Department of Public Safety maintains the following operational capabilities and programs on an ongoing basis:
 - Provides public access to a robust emergency services program, funded through County operating dollars and multiple state and federal grant programs.
 - Installed new trunked radio system, currently being tested by some municipalities and agencies, with first responders to go live in coming months. This program is funded by the County and by HSGP funds.
 - Public Safety Department (through its various divisions) works with the community to promote vigilance through accurate and timely media reports, and public education campaigns using HSGP and operating dollars.
 - Provides technical assistance to MCWA and the City of Rochester Water Bureau as they enhance physical security at their facilities and distribution systems. Supported by HSGP funding, analyses were completed of critical infrastructure / key resources (CI/KR) and Comprehensive Emergency Preparedness Assessment (CEPA) (the State's formal evaluation of the county's emergency management program) as related to infrastructure.
- The Monroe County Department of Transportation (MCDOT) maintains the following operational capabilities and programs on an ongoing basis:
 - Prioritizes and cleans approximately 2,200 County Highway culverts to ensure maximum flow capacity and minimize surcharge flooding. Box or culvert pipes of 72 inches or greater are inspected every 4 years. Those less than 72 inches are inspected every 10+/- years. MCDOT continues to clean, maintain, and rehab the infrastructure.
- The Monroe County Department of Environmental Services (DES) maintains the following operational capabilities and programs on an ongoing basis:
 - DES ensures proper disposal of hazardous waste, and established Eco Park to accept household hazardous waste and Conditionally Exempt Small Quantity Generator (CESQG) waste.
 - DES enforces government permit processes, including review and approval of development plans, and issues sewer permits for construction.
 - DES operates and maintains Pure Waters Districts, and maintains the State Pollutant Elimination Discharge System (SPDES) in compliance with applicable federal and state regulations.
 - In partnership with MCWA, DES maintains design considerations for all new construction and renovation projects.
 - DES provides power backup supply for municipal fueling stations, including fuel-efficient vehicle (FEV) fueling stations at Scottsville Road, and Frank E. Van Lare Wastewater Treatment Facility on the south shore of Lake Ontario.
 - Through Pure Waters, DES provides redundant power supply to Pure Waters' Buttonwood Pumping Station and the Northwest Quadrant Waste Water Treatment Plant. The Buttonwood



Pump Station has primary main power supply with a secondary backup service from Rochester Gas and Electric (RG&E). The station also has portable generator backup power on site. The Northwest Treatment Plant is set up with portable generator connections to maintain most critical processes.

- MCWA engineers and DES maintain the following operational capabilities and programs on an ongoing basis:
 - DES participates in the NYWARN program (<http://nywarn.org/>). DES joined this organization in the 2011/2012 time frame following storms such as Irene/Lee/Sandy. DES will continue to participate in the NYWARN program through maintenance of its membership and periodic contacts with organization.
 - In partnership with DES, MCWA operates and maintains Pure Waters Districts and county-owned buildings as part of its annual budget and operations.
 - Provide redundant backup power supply for public supply treatment facilities and system pump stations. This action is incorporated into long-term planning for Pure Waters Infrastructure.
 - Secure and provide redundant critical systems and facilities. DES recently completed generator installations at the Hall of Justice, Monroe County Jail Main Frame, and, most recently, the Public Safety Building (PSB). DES also recently completed both the Children's Detention Center and the Charlotte Sewer Pump Station.
- The Monroe County Department of Public Health (MCDPH) maintains the following operational capabilities and programs on an ongoing basis:
 - MCDPH maintains public health information and education on the local health department (LHD) website. A 24/7 information line was established (585-753-5600) and is updated as needed. This effort funded by LHD budget.
 - Partners with government agencies, the media, and the private sector to heighten awareness of safety concerns related to extreme temperatures. MCDPH has a supporting role in updating LHD websites with information, and providing education to key stakeholders as needed. Efforts are funded by LHD budget.
 - DPH reviews and approves annual water quality reports.
- The Monroe County Planning Department maintains the following operational capabilities and programs on an ongoing basis:
 - The Department conducts regular review of local municipal subdivision and zoning proposals under General Municipal Law, Sections 2391, 239m, and 239n. Hazard mitigation considerations have been fully integrated into the Monroe County review of municipal proposal. Both MCDPH and the County Department of Public Safety participate in the review process.
- The Monroe County Fire Bureau (MCFB) maintains the following operational capabilities and programs on an ongoing basis:
 - MCFB provides investigation and counseling for incidents involving “fire play” through Juvenile Fire Intervention programs. The MCFB program continues to see children referred for fire play and fire setting behaviors. The program sees an average of 50 youths per year, and is funded under the MCFB operating budget.



- The Monroe County Office of Aging, Public Health, EMS, and OEM (Sheltering Operations) conduct planning and provide resources for appropriate modes of public transportation using operating budgets and State Homeland Security Program (SHSP) funding.
- Monroe County Administration continues partnerships with the local Congressional Delegation and the private-sector/academic community in further research and development of alternative energy sources. These actions are part of normal business practices of local government in working with its partners at state and federal levels to foster partnerships with private and academic sectors in order to facilitate positive change along various platforms.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of the community's progress in plan integration. A summary appears below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

Planning

Land Use Planning: The County has a Planning and Development Department that coordinates a broad range of programs, including those for land use planning and resource integration. The Department supports programs that meet multiple objectives, e.g., quality land use planning and economic development. Land use planning in the County also considers impacts of potential hazard areas. The County Planning Department participates in hazard mitigation planning efforts directed through the County OEM. The Department also provides technical support to municipal planning agencies and provides training programs for professionals, residents, elected officials, and board members. The County Planning Board does not review development proposals—only the County Capital Improvement Plan (CIP). County Planning staff provide technical assistance to various planning activities within the County.

The County Comprehensive Development Plan includes seven elements: Transportation, Environment, Wastewater, Land Use, County Parks, Economic Development, and Housing. These elements predate the HMP, and there are no plans to update any of the elements. The original elements are considered the basis for subsequent specific plans such as the County Hazard Mitigation Plan, but do not include natural hazard risks.

Stormwater Management: The County helped establish the Monroe County Stormwater Coalition in 2009. The Stormwater Coalition is composed of 29 municipal members, and seeks to improve water quality in a cost-effective manner. Projects supported by the Stormwater Coalition include public education, training for municipal employees and the land development community, demonstrations of practices that reduce polluted runoff from developed land, technical assistance with permits and erosion control, investigation of stormwater outfalls for illegal discharges, facility assessments, and a Stormwater Master Plan (under development). Staff from the County Department of Environmental Services provide input and support for stormwater management activities within the County.

Emergency Management: The County CEMP is undergoing revision, as it will transform to more of an ESF structure. The HMP will be a functional annex to the CEMP. Each Department (and Division within) is responsible for development of its own Continuity of Operations Plan (COOP). OEM is developing a countywide COOP / Continuity of Government (COG) plan to be incorporated into one document that will be an annex to the County CEMP.

As part of the hazard mitigation planning process, the County has a Hazard Mitigation Planning Committee that periodically reviews natural hazard risks.



Other Plans, Programs, and Resources Integrated into the County: Please refer to Section 6.4.1 in Volume I for additional county-level planning and programmatic mitigation resources and details.

Regulatory and Enforcement

Continuity of Government Chapter 21: The County of Monroe has taken steps to ensure continued operations of its government and administration in the event of a terrorist attack, public disaster, or other catastrophe or emergency. These steps include identification and procedures for emergency interim successors to assume authority and responsibility should need arise.

Environmental Quality Review Chapter 235: Monroe County's Legislature and county agencies consider the impact of environmental factors, as well as social and economic factors, when reviewing potential initiatives and guidance. This ensures that the County will contribute to maintaining a high-quality environment for its residents.

Lead Poisoning Prevention Chapter 285: The County has established statutes and regulations to promote quality public health, specifically regarding prevention of lead poisoning among children.

Sewers Chapter 343: The County promotes health and safety of its residents by managing and regulating discharges into the sanitary, storm, and/or combined sewer systems. It seeks to prohibit excessive volumes or inordinate rates of discharge flow, hazardous sewage, or other waste that may injure personnel or create operating difficulties, and unpolluted water not requiring treatment.

Wetlands Chapter 377: This chapter establishes the County's authority over any activities related to wetlands, and notes that all regulations will comply with the New York Environmental Conservation Law.

Fiscal

Operating Budget: The County's operating budget includes provisions for necessary capital and infrastructure projects, as well as public safety and mitigation initiatives. In the 2016 budget, the County devoted 22.5 percent of its budget to public safety operations. The County estimates that nearly \$800,000 of the billion-dollar annual budget for 2016 will be allotted to emergency management.

Grants: While much of the County's revenue comes from taxes and other fees, part of its revenue derives from grants. The County noted in its 2016 budget that 9.8 percent of grants received go to public safety initiatives. Out of the grants and external funding received by the County, 66.2 percent is state aid, 32.9 percent is federal aid, and 0.9 percent is from other sources. Monroe County OEM has written and managed a few mitigation grants over the years, and continues to be one of the leads in these regards.

Capital Projects: The County CIP is the vehicle that County departments use to undertake various projects, some of which include stormwater management and drainage activities. These departments include Environmental Services, Engineering, Facilities, and Transportation. The CIP is a guide to County projects over a 6-year period.

The MCDOT Highway and Bridge Program has identified multiple bridges and highways in need of improvement. These improvements will enhance County and jurisdictional resilience, and the County has organized locations by jurisdiction. The County also supports appropriate state and municipal infrastructure improvement projects, and it contributes appropriate funding and resources, as able.



Education and Outreach

Monroe County Department of Planning and Development and Monroe County OEM sponsor trainings and classes, as funding and timing permit. Appropriate staff members attend these trainings, as well as state or federal agency-sponsored trainings, to meet all professional requirements. Emergency responders also have the option to attend courses at the Monroe County Public Safety Training Facility. The Department of Planning and Development conducts training programs on various planning issues including hazard risk identification and mitigation. OEM utilizes social media, County OEM website, and various community events to share this information.

Monroe County also provides links to several emergency management and disaster preparedness-focused webpages on its website. These include educational resources and recommendations, as well as information on how local citizens can get involved. The Monroe County Public Health Department also provides education information and links to other healthcare organizations on its website. Monroe County Sheriff's Office and Fire Wire both maintain Facebook and Twitter pages, although these pages are used more for informational alerts or community events—not for dissemination of hazard/disaster preparedness information. In addition, residents can sign up for reverse 911 cell phone notifications of emergency situations through the Monroe County Emergency Communications Department.



9.1.6 Mitigation Strategy and Prioritization

This section discusses past mitigation actions and status, and describes proposed hazard mitigation initiatives and prioritization.

Past Mitigation Initiative Status

Table 9.1-7 below indicates progress on the community's mitigation strategy identified in the 2011 Plan. Previous actions that are now ongoing programs and capabilities are indicated as such in the Table 9.1-7, and may also appear under "Capability Assessment" presented previously in this annex. Actions carried forward as part of this Plan update are included in the following subsection (in Table 9.1-8) with prioritization.



Table 9.1-7. Past Mitigation Initiative Status

| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---|---|---|---|--|--|
| Air-PEA-1: State Project. Publicize the availability of the toll-free Ozone Hotline for New York residents. | NYS | No Progress | N/A | Discontinue | This action is a responsibility of New York State, not local government. |
| Air-PR-1: County Project. Share "Ozone Alert" messages with Public Health Officials and emergency responders through communication protocol from the County's 911 Center. | 911/ECD | Continuous | NAWAS, EJustice and NOAA utilized to receive warnings Warning information passed along to schools, hospitals, police, fire, ems personnel via radio and MDT County Operating Budget | Include in 2017 HMP | Warnings only are distributed, not Alerts or Watches. Explore other means of communication. i.e. mobile app, email, test |
| CIV-ES-1: Obtain personal protective, detection and monitoring, and communications response equipment for Emergency Services providers. | OEM | Continuous | Through leveraging funding through the HSGP, OEM continues to acquire PPE and the various equipment outlined in the action. The equipment acquired is derived through consensus of first responder agencies that are part of the WMD and UAWG groups. The acquisitions are based upon need, identified capability gaps, AARs, and NIMS typing needs. N/A HSGP and local operating budgets | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| Dam-PEA-1: Churchville Project. Provide maps of flood plain area to residents who could be affected by a dam failure. This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Dam-PEA-2: Riga Project. Provide maps of flood plain area to residents who could be affected by a dam failure. This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| EPI-NRP-1: Congressional Project. "Great Lakes Environmental Restoration Act" (bill proposal) to "clean up toxic hot spots, combat invasive species, restore and conserve wetlands and increase public education on Great Lakes issues" (Democrat & | MC DES and MCDOH are partners in broad regional projects. | Continuous | This project is now known as the "Great Lakes Restoration Initiative". http://greatlakesrestoration.us/ | Discontinue | In the 2011 plan, this action was based upon a newspaper article and listed as a "Congressional Project", out of the purview of the local County government. However, the responsible party attributed to this action on the local level was |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---|--|---|---|--|---|
| Chronicle, 7-16-03). This may pertain to existing and/or new infrastructure. | | | | | Monroe County DES and the Monroe County Department of Public Health. Both of these departments are unaware of the status of the "Congressional Project" originally cited in 2011. Neither department is actively involved with this type action at this time. |
| EPI-NRP-2: County Project. Continue efforts with the U.S. Army Corps of Engineers to identify and implement remedial actions to abate Ontario Beach closings. | Page 301 of the 2011 Plan – Per Plan from 2011 it is the Army Corps of Engineers lead on this. | Unknown | N/A | Discontinue | This action is a responsibility of the U.S. Army Corps of Engineers and therefore does not fall under the jurisdiction of the local County government. |
| EPI-PEA-1: County Project. Provide Monroe County 24-hour information line, and website for Public Health. | MCDPH | Complete | 100% - MCDPH maintains public health information and education on LHD website. A 24/7 information line was established (585-753-5600) and is updated as needed. Effort funded by local LHD budget | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| EPI-PEA-2: State Project. Provide information to the public through the state's Public Health website. | NYS Department of Health | Ongoing | New York State Department of Health does maintain a robust website that can be easily be accessed by any interested party. | Discontinue | This action was classified as a New York State Project and therefore does not fall under the jurisdiction of the local County government. |
| EPI-PR-1: National Project. Develop a web-based, early warning system that gauges the risk for West Nile Virus (Democrat & Chronicle, 6-27-03). | Cornell University | Ongoing | In regards to information related to West Nile Virus and a system that acts as an early warning related to the disease, both NYS Health Department and the local County Health Departments have robust websites that provide very detailed information on west Nile virus as a course of normal operations. | Discontinue | This mitigation action was based upon a newspaper article from 2003 and the lead was a private university within NYS. |
| EPI-PR-2: Local Project. Provide HIV screening and public education (Democrat & Chronicle, 7-21-03). | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| EQ-PP-1: NYS Project. The Insurance Office should educate underwriters and mandate that they offer Earthquake coverage as an option when writing | State Insurance Office | No Progress | N/A | Discontinue | This mitigation action in 2011 was identified as a NYS Project and is not within the purview of local County government. |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g, FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---|--|---|---|--|---|
| policies in New York State. This may pertain to existing and/or new infrastructure. | | | | | |
| ES-1: Continue County systems and services through the Public Safety Communications Division. | Radio Center | In Progress | 50% complete Vendor working to secure components with tight tolerances for power source to provide a rock solid 48vdc Funded through M3SLDC | Include in 2017 HMP | Continue to work towards installation of replacement equipment and optimization 1. Replace the digital paging base stations. 2. Replace the 48vdc plants & duplexers @ each of the digital paging sites |
| ES-2: Maintain inventory of community resources for local use and compliance with NIMS. | ECD/911, MCDPH (Supporting role only), OEM | Continuous, Ongoing | ECD/911 sends resource CDs to all agencies. Trained staff select staff in WebEOC Resource Management software. Funding from Grants/COB MCDPH completed NIMS typing of department emergency resources. Effort funded by LHD-PHEP Grant. This is a continuous effort for OEM, funded partially through HMGP grant | Include in 2017 HMP | ES-2.1: WebEOC Resource management replaced by Resource Request and Deployment Module. ECD/911 needs training and deployment of this software. ES-2.2: Enter LHD NIMS typed resources into WebEOC NIMS board at the request of local OEM. Include as ongoing operational capability for OEM. |
| ES-3: Establish an active Recruitment and Retention (of providers) Program. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| ES-4: Stockpile Emergency Supplies | Supporting Role Only : MCDPH DES | Complete In Progress | 100% - Maintain limited stockpile of Doxycycline for emergency responders and select public who may require emergency prophylaxis as a result of exposure to Bacillus Anthracis. Effort funded by OEM-SHSP Grant Maintain stockpile of emergency supplies and can receive, store and ship new supplies | Include in 2017 HMP (all) | Continue: Update expired medication in 2016. Maintain capability. |
| ES-5: Solicit "Mutual Aid" agreements | Monroe County Water Authority Engineers, DES | Complete | DES participates in the "NYWARN" program (http://nywarn.org/). DES joined this organization in the 2011/2012 time frame following storms such as Irene/Lee/Sandy. | Discontinue | Monroe County DES will continue to participate in the NYWARN program through maintenance of its membership and periodic contacts with organization. Include in 2017 HMP as ongoing operational capability. |





| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---|-----------------------------|---|---|--|--|
| ES-6: Engage emergency service jurisdictions in local municipal government processes. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| ES-7: County Project. Continue recruitment and training for local residents in partnerships with NOAA/NWS for their SKYWARN Program. | OEM | Continuous | Multiple SKYWARN trainings have been held since 2010 (approximately 2 per year minimum) N/A Service provided for free by NWS, coordination of local share funded by County operating budgets | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| ET-ES-1: Utilize Public Alerting & Notification mechanisms and the media to heighten awareness when extreme temperatures threaten life-safety. | ECD/911 | Continuous | NAWAS, EJustice and NOAA utilized to receive warnings Warning information passed along to schools, hospitals, police, fire, ems personnel via radio and MDT County Operating Budget | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| ET-PEA-1: Partner with government agencies, the media and the private sector to heighten awareness of safety concerns related to extreme temperatures. | Supporting Role Only: MCDPH | Ongoing | MCDPH updates LHD website with information and provides education to key stakeholders as needed. Effort funded by local LHD budget. | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| Exp-PEA-1: NYS Project. Provide notice of licensing issuance for explosive permits and materials storage to local jurisdictions. | NYS Department of Labor | No Progress | N/A | Discontinue | Not within the purview of local County government. |
| Fire-ES-1: Local Project. The Henrietta Fire District is developing a Special Operations Unit for Confined Space Rescue, Low and High-Angle Rescue, Water Rescue, and Trench Rescue. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Fire-ES-2: Local Project. Continue to provide Emergency Medical Services to the community. The Churchville Volunteer Fire Department is the first responder agency to all medical emergencies in our community. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|--|-----------------------|---|---|--|--|
| Fire-PEA-1: Local Project. Henrietta Fire District develops and schedules an annual campaign for Fire Prevention using its mobile Fire Safety Trailer and a portable interactive kiosk at schools, community functions, and public facilities. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Fire-PEA-2: Local Project. Churchville Volunteer Fire Department develops and schedules an annual campaign for Fire Prevention at schools, community functions, and public facilities using its interactive displays. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Fire-PP-1: Encourage residential use of smoke detectors through public education, and “give away” programs. This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Fire-PR-1: Provide investigation and counseling for incidents involving “fire play” through Juvenile Fire Intervention Programs. | MC Fire Bureau (MCFB) | Continuous | MCFB program continues to see children referred for fire play and fire setting behaviors. The program sees an average of 50 youth per year. N/A MCFB operating budget | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| Fire-SP-1: Local Project. Plan, design and develop enhanced, local facilities for on-site specialized emergency training. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Fl-ES-1: Provide Special Operations and Tactical Rescue training including water rescue training | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Fl-ES-2: County Project. Continue to stockpile sandbags for flood emergencies. | OEM | Continuous | Monroe County OEM continues to maintain a cache of sandbags that have been provided to County by Army Corps of Engineers. Sandbags are distributed on an as needed basis and inventory numbers are maintained. N/A OEM operating budget/Army Corps of | Discontinue | Describe in 2017 HMP as ongoing operational capability. |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
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| | | | Engineers | | |
| FI-ES-3: County Project. Continue to provide public access to emergency services. | County Department of Public Safety | Continuous | Monroe County continues to provide public access to a robust emergency services program. N/A County operating dollars, multiple state and federal grant programs. | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| FI-ES-4: Churchville Project. Enhance Fire Department Personnel Emergency Notification | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| FI-ES-5: Churchville Project. Provide water rescue training and equipment e.g. Wet Suits and associated equipment. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| FI-NRP-1: County Project. Implement Irondequoit Creek Restoration Plan to control erosion and sedimentation in Powder Mills and Ellison Parks. | Monroe County Parks Department | In Progress | Monroe County Parks Department is committed to this project. It has been delayed due to some construction contract and DEC issues, but MCPD expects to complete the project in 2016. | Include | Implement Irondequoit Creek Restoration Plan to control erosion and sedimentation in Powder Mills and Ellison Parks. |
| FI-PEA-1: Provide information about the Erie Canal and its spillway locations | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| FI-PEA-2: Ensure dam owners have information on state regulations. This may pertain to existing and/or new infrastructure. | OEM and NYS DEC | Continuous | Efforts continue to provide the information as needed and applicable. N/A Local operating budget and NYS funds | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| FI-PEA-3: Riga Project. Provide maps of flood plain area to residents who could be affected by a dam failure. This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| FI-PP-1: Encourage affected property owners to purchase Flood Insurance. This may pertain to existing and/or new | N/A | No Progress | N/A | Discontinue | Not applicable to County. |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---|-----------------------|---|---|--|--|
| infrastructure. | | | | | |
| FI-PP-2: Participate in the federal Community Rating System. This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| FI-PP-3: County Project. Continue partnership with the U.S. Army Corps of Engineers to implement their Advanced Measures Program as appropriate. | OEM | Continuous | Efforts continue to move forward. N/A Local operating | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| FI-PP-4: Local Project. Town of Gates “Multi-Lot Letter of Map Amendment” for more than 100 homes that were mislabeled as residing in flood zones on FEMA maps (Democrat & Chronicle, 1.22.10). | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| FI-PP-5: Local Projects with the U.S. Army Corps of Engineers, “Risk Management Program.” Levy inspection, safety analysis and maintenance requirements (SEMO Region V meeting, 7.29.08). | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| FI-PR-1: Implement an annual, “Waterway/Drainage Maintenance” Program | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| FI-PR-2: County Project. Prioritize and clean County Highway culverts (approximately 2,200) to ensure maximum flow capacity and minimize surcharge flooding. | Monroe County DOT | In Progress | Box or Culvert Pipes 72” or greater – inspect every 4 years. Less than 72” – inspect every 10+/- years Clean, maintain and rehab the infrastructure. | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| FI-PR-3: County Project. Rejuvenate and continue leadership and partnering with other south shore counties on the “Lake Ontario South Shore County Collaborative on Lake Level.” | County Administration | Continuous | This action has become part of ongoing operations amongst the County Office of Emergency Management and the County Office of Planning and Development. The County regularly works with the communities along the south shore of Lake Ontario (within | Discontinue | Describe in 2017 HMP as ongoing operational capability. |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|--|-------------------------------------|---|--|--|--|
| | | | Monroe County) as well as monitors and communicates with the International Joint Commission as it relates to lake levels for Lake Ontario. | | |
| <p>FI-PR-4: County Project. Use U.S. Army Corps of Engineers (HEC-RAS) inundation model, enhance it with LIDAR-derived digital elevation data and place the predicted floodplain animation to a web-based application for use by officials and during emergencies at the County EOC.</p> | <p>County DES/GIS</p> | <p>In Progress / Ongoing</p> | <p>Project is approximately 85% complete. N/A County operating budget, grants when applicable</p> | <p>Include in the 2017 HMP</p> | <p>New actions include enhance project with acquisition of new LiDAR data or new data on flood plans.</p> |
| <p>FI-PR-5: Local Project. Implement an annual de-silting program in the Town of Henrietta, to increase the storage capacity for storm water detention and retention ponds. This may pertain to existing and/or new infrastructure.</p> | <p>N/A</p> | <p>No Progress</p> | <p>N/A</p> | <p>Discontinue</p> | <p>Not applicable to County.</p> |
| <p>FI-PR-6: Local Project. Town of Greece drainage study on Fleming and Veness creeks between Latta Road, Windsor Blvd., Denise Road and Dewey Ave. (Democrat & Chronicle, 1.3.10).</p> | <p>N/A</p> | <p>No Progress</p> | <p>N/A</p> | <p>Discontinue</p> | <p>Not applicable to County.</p> |
| <p>FI-PR-7: County Project. Up-date the Stormwater Management Model for the Irondequoit Creek Watershed.</p> | <p>DES/Stormwater Coalition</p> | <p>No progress</p> | <p>N/A</p> | <p>Discontinue</p> | <p>There was a desire to start this program, but the project never came to fruition.</p> |
| <p>FLS-NRP-1: Continue partnerships with the local Congressional Delegation and the private-sector/academic community for further research and development of alternative energy sources.</p> | <p>County Administration</p> | <p>Continuous</p> | <p>This action was based upon a newspaper article from 2003. The actions of this article are part of normal businesses practices for local government, to work with their partners at the state and federal level to foster partnerships with the private and academic sector in order to engage in positive change along various platforms.</p> | <p>Discontinue</p> | <p>Describe in 2017 HMP as ongoing operational capability.</p> |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g, FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---|-------------------|---|--|--|--|
| <p>Fl-SP-1: Local Project. Implement mitigation measures for Irondequoit Creek, as identified by the U.S. Army Corps of Engineer’s 2003 proposal, and as agreed by local parties. (Reference – Democrat & Chronicle, 3-2-03). This may pertain to existing and/or new infrastructure.</p> | DES | In Progress | Awaiting Federal funding for construction of mitigation measures | Include in 2017 HMP | Implement mitigation measures for Irondequoit Creek, as identified by the U.S. Army Corps of Engineer’s 2003 proposal, and as agreed by local parties. |
| <p>Fl-SP-2: Local Project. Implement municipal mitigation measures identified by USGS modeling, proposed by the Storm Water Coalition and agreed by local parties. This may pertain to existing and/or new infrastructure.</p> | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| <p>Fl-SP-3: County Project. Replace 5 bridges: Twin Bridge over Oatka Creek; Moscow Road over Yanty Creek; Klem Road over Mill Creek Tributary; Kirk Road over Round Pond Creek; and, Long Pond Road over Round Pond Creek – where center piers, drop beams, or inadequate flow capacity causes road flooding, upstream flooding or debris catches.</p> | Monroe County DOT | All complete except Moscow Road | All are complete except for Moscow Road which is scheduled for 2022 construction. | Include in 2017 HMP | Rehabilitate/replace County culverts and bridges. |
| <p>Fl-SP-4: County Project. Automate the swing bridge at the mouth of Irondequoit Bay with Lake Ontario, to decrease the annual opening and closing cycle time, and any shifting required by an emergency.</p> | State, County | No progress | Town of Irondequoit will be the lead to have a study done to explore automating or replacing the bridge. | Include in 2017 HMP | State, County, Town project. Automate or install a new bridge. |
| <p>Fl-SP-5: Local Project. Design and build a regional detention facility upstream of the Rolling Meadows and Tallwoods Subdivision in the Town of Parma. This may pertain to existing and/or new infrastructure.</p> | N/A | No Progress | N/A | Discontinue | Not applicable to County. |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---|-----------------------------|---|---|--|--|
| FI-SP-6: Local Project. Town of Parma bridge replacement on Hill Road (Town ROW), over Salmon Creek to raise the bridge approaches from the floodplain, to increase the freeboard elevation, to decrease backwater, and to meet 50-year storm construction standards. This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| FI-SP-7: Local Project. Town of Henrietta replace road culverts to improve flow and reduce flooding potential on Parkmeadow Drive, Tomahawk Trail and Colleen Way. This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| FLS-PR-1: Continue monitoring all available information outlets for status of generated supply versus demand, to determine predicted/projected shortfalls. This may pertain to existing and/or new infrastructure. (2011 Plan Fuel Shortage App. C-26) | OEM | Continuous | Monroe County OEM continues to monitor information and shares as necessary as it relates to this action. N/A Local annual operating budget | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| HM(F)-ES-1: County Project. Provide state-of-the-art training for volunteers and County Staff who participate in delivering Emergency Services to Hazardous Materials incidents. | OEM | In Progress | Monroe County OEM continues to utilize HSGP funds and other funding resources to implement and maintain training programs. | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| HM(F)-ES-2: County Project. Annual review and maintenance on the LEPC and County Hazardous Materials Response Plan. | OEM | Continuous | 100%. Plan is updated yearly. N/A HMEP, OEM operating budget, HSGP, Radiological funding | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| HM(F)-NRP-1: County Project. Provide County Public Health Department Environmental Section Staff for investigation and response on Hazardous Materials cases. | Supporting Role Only: MCDPH | N/A | MCDPH has a limited role and investigates only if there is a human exposure. | Discontinue | No longer applicable |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---|---|---|---|--|---|
| HM(F)-NRP-2: County Project. Removal of coal tar from the Genesee River Gorge (from sewer tunnel construction in the mid-1980's). | MCDES | Completed | Project was known as the Brewer Street Site #V00214-8. Completed and closed by MCDES in 2012. | Discontinue | Completed |
| HM(F)-NRP-3: County Project. Utilize Great Lakes Trust Fund to implement preventive and protective strategies as part of the Rochester Embayment Project. | Unknown | Unknown | County OEM has not been able to determine who this project was assigned to and to learn its current status. | Discontinue | This project is not a current County priority and can be re-evaluated for inclusion in subsequent updates, as interest determines. |
| HM(F)-PEA-1: County Project. Meet and exceed federal and NY State Emergency Response Commission requirements for Local Emergency Planning Committees | OEM | Continuous | Monroe County OEM continues to have a robust and active LEPC. No obstacles or delays HMEP | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| Ice-ES-1: Develop a strategy to reduce the time it takes to clear streets (Rights-of-Way) of debris | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Ice-ES-2: Regularly review restoration priorities | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Ice-ES-3: Enhance utility "Town Liaison" Program | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Ice-ES-4: Identify and implement a plan for appropriate modes of public transportation | County Office of Aging, Public Health, EMS, & OEM (Sheltering Operations) | Continuous | Plans and resources continue to updated and identified as appropriate. Operating budgets, SHSP | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| Ice-ES-5: Develop list of signalized intersections to assess traffic control measures if signals are dark for more than 24 hours & lobby for funding (if necessary) | Monroe County DOT | Complete | Scored & prioritized signals to ensure additional measures are in place to identify the intersection. | Include in 2017 HMP | Continue with revised wording: Install overhead visuals with reflective back plates on the mast arms of traffic signals at multilane intersections to make motorists aware and to come to a 4-way stop. |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|--|---|---|---|--|--|
| Ice-NRP-1: Churchville Project. Replace trees (forestation) in Village of Churchville that were destroyed by various storm events. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Ice-PEA-1: Develop pre-scripted, Public Safety messages for media outlets | County Public Information Officer and OEM | Continuous | OEM and County Communications & Special Events Office continues to work together to develop appropriate messaging for public during events. N/A Local operating budgets | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| Ice-PEA-2: Develop an alternate communications plan: HyperReach | ECD/911 MCWA | Completed | HyperReach is a product made available via Asher Group. CodeRed now being utilized by ETNS. | Discontinue | Although ETNS has been developed, database and records management will be ongoing. Include in 2017 HMP as ongoing operational capability. |
| Ice-PEA-3: Provide automated utility restoration schedule to the public | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Ice-PEA-4: Provide more public outreach during an emergency | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Ice-PEA-5: Expand utility Customer Service capacity | MCWA | Complete | 100% | Discontinue | Completed |
| Ice-PEA-6: Expand information available on websites | MCWA | Complete | 100% | Discontinue | Completed |
| Ice-PP-1: Encourage installation of backup power supply. This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Ice-PR-1: Implement an "Annual, Tree/Stream Maintenance Program" | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Ice-PR-2: Relocate vulnerable utilities. This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Ice-PR-2A: Fairport Electric Project. Relocate vulnerable utilities | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Ice-PR-2B: Fairport Electric Project. Relocate vulnerable utilities | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Ice-PR-3: Develop DPW/DOT Plans for debris clearance, removal, and | N/A | No Progress | N/A | Discontinue | Not applicable to County. |





| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---|--|---|---|--|--|
| disposal | | | | | |
| Ice-PR-4: Lobby state and federal officials to require permanent installation of emergency generators on-site at health care facilities and elderly housing facilities. This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Ice-SP-1: Install permanent backup power supply at public facilities. This may pertain to existing and/or new infrastructure. | MCWA, MCDES | In Progress | Currently installing or replacing at several County property locations. One remaining priority installation: Lake Road Booster Station. County to design and construct. | Include in 2017 HMP | Continue Complete installation of back-up power at Lake Road Booster Station. |
| Ice-SP-2: Procure additional communication capacity | County Public Safety Communications | In progress | New trunked radio system is being installed, being tested by some municipalities and agencies at present, first responders to go live in coming months. N/A County funding, HSGP funds | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| INF-ES-1: Federal Project. “. . . Describe criteria . . . used to determine the appropriate levels of responsibility between the Federal Government and cooperators . . . in an emergency in which an animal or plant pest or disease threatens the agricultural production of the U.S.” (Federal Register, Volume 68, Number 130, p. 40541). | USDA, Animal and Plant Health Inspection Service | In progress | In the 2011 Plan, this mitigation action was listed as a Federal Project and the responsible agencies for this project were Federal agencies such as the USDA, etc. This action was developed based upon an entry in a volume of the Federal Register. | Discontinue | This is not a local mitigation action. |
| INF-PR-1: County Project. Provide rodent-baiting in the sanitary sewer system to prevent the spread of diseases and rodent infestation. This may pertain to existing and/or new infrastructure. | Supporting Role Only: MCDPH | N/A | MCDPH no longer baits sanitary sewer systems. MCDPH Environmental Health program on a limited basis baits exterior rodent burrows when requested. | Discontinue | Not applicable to the County. |
| Land-PEA-1: Local Project. Promote understanding and use of (telephone number) 811, “Call Before You Dig.” | N/A | No Progress | N/A | Discontinue | Not applicable to County. |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|--|-------------------|---|---|--|--|
| Land-PR-1: Local Project. Enact Local Laws: to restrict development on steep slopes; to require property owners and/or mine operators to rehabilitate open mines at closing. This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| NRP-1: Ensure proper disposal of Hazardous Waste. | MCDES | In progress | Established Eco park to accept household hazardous waste and CESQG waste | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| NRP-2: Enforce government permit processes. This may pertain to existing and/or new infrastructure. | MCDES | In Progress | Review and approve development plans and issue sewer permits for construction | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| NRP-3: Provide comprehensive inspection services. This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| NRP-4: Administer a Floodplain Management Program. This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| NRP-5: Maintain "Urban Forests." | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| PEA-1: Expand emergency Public Alerting means. | OEM | Continuous | Code Red reverse 911 system (formerly used product was HyperReach) is used by 911 Center for mass alerting related to various types of events. Social media such as Facebook & Twitter have been institutionalized and utilized since the last plan update. N/A Local operating budgets and HSGP funds as necessary | Discontinue | Describe in 2017 HMP as ongoing operational capability. |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---|-------------------|---|--|--|--|
| PEA-2: Provide Education and training for municipal officials. | OEM | Continuous | OEM continues to provide regular educational and training opportunities to local municipalities through various means including the following: Public Officials Workshops, Tier 3 Public Officials Trainings, ICS 100 & 200 in classroom offerings, scheduling higher level ICS courses for municipalities as necessary, weekly intel briefings provided and other means. N/A Local and HSGP funds | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| PEA-3: Review Utility Service & restoration plans. | MCDES | In Progress | Operate and maintain Pure Waters Districts | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| PEA-4: Identify and utilize a “Speakers Bureau.” | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| PEA-5: Participate in annual “Weather Awareness Campaigns.” | OEM | Continuous | Monroe County OEM will provide (via email) weather briefings and educational materials to various stakeholders as it relates to National Weather Service awareness campaigns. Additionally, social media (Facebook & Twitter) are utilized to share information related to winter weather awareness campaigns. N/A Local budgets and HSGP funds | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| PEA-6: County Project. Continue accreditation as a NOAA/NWS, StormReady community. | OEM | Complete | Monroe County was re-certified as a “Storm Ready Community” in 2015. N/A Local budget | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| PP-1: Identify “special hazard” areas. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| PP-2: Maintain public infrastructure. This may pertain to existing and/or new infrastructure. | MCWA DES | In progress | Continuous - Operate and Maintain Pure Waters Districts and County owned buildings Budgeted Annually | Discontinue | Describe in 2017 HMP as ongoing operational capability. |





| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---|----------------------------|---|---|--|--|
| PP-3: Solicit inter-municipal and interagency cooperation. | City/ MCWA Exchange | Complete/In Progress | 100% Sewer service agreements complete | Include in 2017 HMP | Continue to explore new opportunities |
| PP-4: Promote purchase of appropriate hazard insurance policies. This may pertain to existing and/or new infrastructure. | MCWA | Complete | 100% | Discontinue | Complete |
| PP-5: Property acquisition | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| PR-1: Enforce Building Code as required for existing and new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| PR-2: Comply with applicable federal and state regulations. | DES | Always in-progress and On-going | Maintain SPDES | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| PR-3: County Planning Department review of local municipal subdivision and zoning proposals under General Municipal Law, Sections 2391, 239m, and 239n. This may pertain to existing and/or new infrastructure. | County Planning Department | Complete | Hazard mitigation considerations have been fully integrated into the Monroe County review of municipal proposal. Both the County Departments of Public Health and Public Safety participate in the review process. | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| PR-4: Annual Review of the County's Comprehensive Emergency Plan | OEM | Continuous | Monroe County OEM reviews the CEMP on a regular basis and is in process of conducting a major overhaul of the plan to include and incorporate Emergency Support Functions. N/A Local Operating Budgets and HSGP funds | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| PR-5: Regular review of Local Laws | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| SC-PR-1: Local Project. Enact Local Laws that require property owners to demolish and remove unsafe structures from their property(ies). This may pertain to existing and/or new infrastructure. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---|-------------------|---|---|--|--|
| SP-1: Disaster “proof” public facilities. This may pertain to existing and/or new infrastructure. | DES | In progress | County Fiber and Emergency Electrical Service and Mobile Communications Unit #4 (MCU4) | Include in 2017 HMP | <p>Continue</p> <p>New: Disaster “proof” the Monitoring & Reaction Center building (MRC). Along with MCU4, this facility is a major network/fiber hub that contains the backup 911 Center, a network data storage center and a significant amount of Public Safety Communication vehicles and equipment.</p> <p>New: Install true redundant fiber paths out of each critical building. Right now we only have City Place, 911, MRC and Frank E. Van Lare (FEV) Wastewater Treatment Facility located on the south shore of Lake Ontario.</p> <p>New: Ensure all core Emergency Services switches are on a UPS. Consider having Frontier lines at our FEV Plant and Fleet Center if these will be locations that people will go to during an emergency.</p> |
| SP-2: Secure and provide redundant critical systems and facilities. This may pertain to existing and/or new infrastructure. | MCWA, DES | In Progress | Continuous - DES recently completed generator installations at the Hall of Justice, Monroe County Jail Main Frame, and Public Safety Building (PSB was most recent). DES also recently completed both the Children's Detention Center and the Charlotte Sewer Pump Station. | Discontinue – No additional needs identified | Describe in 2017 HMP as ongoing operational capability. |
| SP-3: “Target Harden” facilities. This may pertain to existing and/or new infrastructure. | MCWA, MCDES | In Progress | Continuous - Design consideration for all new construction and renovation projects | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| SP-4: Expand fiber telecommunications networks. | MCWA, MCDES | In Progress | Pure Waters and County collaboration to expand fiber network. Only one remaining facility on our priority list: Ramona Booster Station. | Monroe County to install. Include in 2017 HMP | Expand fiber telecommunications networks by installing at the Ramona Booster Station through Pure Waters and County collaboration. |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|--|--|---|---|--|--|
| SWS-ES-1: NYS Project. Provide annual NYS Dept. of Transportation (NYSDOT) "Snow and Ice Control" Program for local Highway Superintendents and Emergency Service providers. | NYSDOT; County Highway Superintendents Association | Ongoing | As it relates to snow and ice control on local roads and highways, the local County government interfaces regularly with the New York State Department of Transportation as a matter of standard operations. | Discontinue | In the 2011 Plan, this mitigation action was listed as a New York State Project. Not applicable to the County. |
| Terr-ES-1: Obtain personal protective, detection and monitoring, and communications response equipment for Emergency Services providers. | OEM | Continuous | Monroe County OEM continues to manage multiple homeland security grants that provide funding for this action. N/A HSGP, operating dollars (in some cases) | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| Terr-ES-2: Provide training to Emergency Services providers on personal protective equipment (PPE) and WMD response. | OEM | Continuous | Monroe County OEM continues to manage multiple homeland security grants that provide funding for this action. N/A HSGP, operating dollars (in some cases) | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| Terr-PEA-1: Promote community vigilance through accurate and timely media reports, and public education campaigns. | Monroe County Department of Public Safety | Continuous | Public Safety Department (through its various divisions) continuously works with the community related to this action. N/A HSGP, operating dollars | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| Terr-PP-1: Implement a strategy to "target harden" critical and public facilities. This may pertain to existing and/or new infrastructure. | MCWA, OEM | In progress/Continuous | Monroe County OEM has secured several targeted grant funds over the course of the last 5 years that have assisted in target hardening government facilities. Additionally, OEM has worked with the Rochester Institute of Technology for several years on an analysis of critical infrastructure within the MSA. N/A HSGP | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| Terr-PR-1: Provide intelligence to local authorities about legal surveillance and threat assessment activities. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Terr-PR-2: Review emergency plans for public facilities to ensure that | N/A | No Progress | N/A | Discontinue | Not applicable to County. |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g, FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|--|--|---|--|--|--|
| appropriate measures are considered and referenced | | | | | |
| Terr-PR-3: Schools Project. Comply with Project Save regulations for plan review and revision cycles. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Trans-ES-1: Local Project. The Town of Henrietta’s Highway “Snow & Ice Control” Program is testing treated road salt for benefits associated with its application to enhance the capacity of normal road salt. | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Trans-ES-2: County Project. Provide OREIS software through annual subscription for the 911 Center, OEM, and the County HAZMAT Truck | N/A | No Progress | N/A | Discontinue | Discontinue, software no longer utilized. |
| Trans-ES-3: County Project. Provide emergency responder training on Dupont’s rail “Care Car.” | OEM | Complete | Rail Car is no longer available. | Discontinue | No longer applicable. |
| Trans-PEA-1: Local Project. Provide traffic reports through the local broadcasters | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Trans-PEA-2: Local Project. Provide construction information and project status on sites that impact traffic | N/A | No Progress | N/A | Discontinue | Not applicable to County. |
| Trans-SP-1: County Project. Improve motorist safety on the highway, at intersections, and/or bridges. | DOT | In progress | The High Accident Counter Program/PIC identifies intersections and segments of roadways with higher than average accident rates and studies are done to determine if any engineering actions are needed. | Discontinue | No longer applicable. |
| Util-ES-1: Local Projects. Provide power back-up supply for municipal fueling stations. This may pertain to existing and/or new infrastructure. | MCDES | Complete | Scottsville Road and Frank E. Van Lare Wastewater Treatment Facility located on the south shore of Lake Ontario (FEV) fueling stations have back-up power supply | Discontinue | Completed |
| Util-PR-1: National Public/Private-Sector Partnership Project. Utilize technology to up-grade the national electric grid transmission system. This may pertain to existing and/or new | North America Electric Reliability Council | In progress | This action was identified as a National Public/Private Sector partnership project as it relates to upgrading the national electrical grid system. | Discontinue | This is out of the County's purview and capabilities, therefore this action is discontinued. |



| 2011 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2017 HMP or Discontinue) | Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---|-----------------------------|---|---|--|--|
| infrastructure. | | | | | |
| Util-SP-1: County Project. Provide redundant power supply to Pure Waters' Buttonwood Pumping Station and the Northwest Quadrant Waste Water Treatment Plant. This may pertain to existing and/or new infrastructure. | Monroe County Pure Waters | Complete | The Buttonwood Pump Station has primary main power supply with a secondary back up service from RG&E. Station also has portable generator backup power on site. The Northwest Treatment Plant is set up with portable generator connections to maintain most critical processes. | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| WSC-PEA-1: Publish "Annual Water Quality Reports" | Supporting Role Only: MCDPH | N/A | MCDPH reviews and approves annual water quality reports | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| WSC-PR-1: Provide redundant back-up power supply for public supply treatment facilities and system pump stations. This may pertain to existing and/or new infrastructure. | MCWA, MCDES | In Progress, Contract in construction | Continuous - Incorporated into long-term planning for Pure Waters Infrastructure | Discontinue | Describe in 2017 HMP as ongoing operational capability. |
| WSC-SP-1: Provide technical assistance to the Monroe County Water Authority, and the City of Rochester Water Bureau as they enhance physical security at their facilities and distribution systems. This may pertain to existing and/or new infrastructure. | County Public Safety | Continuous | CI/KR analysis and CEPA analysis completed as it relates to infrastructure N/A HSGP when available | Discontinue | Describe in 2017 HMP as ongoing operational capability. |



Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The County has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2011 Plan:

The County Office of Emergency Management received a 2007 mitigation grant award to complete a fixed generator installation program. The project was completed on October 18, 2015, with installation of eight fixed generators at local government facilities throughout the County.

Proposed Hazard Mitigation Initiatives for the Plan Update

FEMA Region II led a meeting of all Monroe County municipalities in November 2015 to discuss the purpose, goals, and long-term benefits of identifying mitigation actions to include in the updated HMP. FEMA provided handouts on creating a functionally diverse jurisdictional planning team, guidance for identifying integration actions, and guidelines for completing an action worksheet for jurisdictions to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards.

Additionally, Monroe County hosted two Annex Workshops in December 2015 to assist municipalities in completing their jurisdictional annexes, including identifying mitigation projects and developing Action Worksheets. All jurisdictions were provided with a set of sample mitigation actions that satisfied County goals of addressing all hazards and representing all six CRS categories, along with a refresher instruction sheet on how to complete an action worksheet, and an example of a completed action worksheet.

In January 2016, Monroe County jurisdictions were provided results of the municipal risk assessment to further assist with development of their mitigation strategies. Throughout the planning process, jurisdictions had access to mitigation planners who were available to assist with development of the jurisdictional annexes, including mitigation strategies and action worksheets, as necessary.

Table 9.1-8 summarizes the comprehensive range of specific mitigation initiatives Monroe County would like to pursue in the future to reduce effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. Implementation of these initiatives will depend on available funding (grants and local match availability), and some initiatives may be modified or omitted at any time based on occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in Table 9.1-8 to further demonstrate the wide range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as High, Medium, or Low. Table 9.1-8 below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.1-9 summarizes prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.1-8. Proposed Hazard Mitigation Initiatives

| Initiative | Mitigation Initiative | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals and Objectives Met | Lead and Support Agencies | Estimated Benefits | Estimated Cost | Sources of Funding | Timeline | Priority | Mitigation Category | CRS Category |
|------------|---|--|----------------------------------|--------------------------|---|--------------------|----------------|--------------------------------------|------------|----------|---------------------|--------------|
| MC-1 | Incorporate a detailed analysis of a failure of the Mt. Morris Dam into the next HMP update's flood profile. | Existing | Flood, severe storm, dam failure | 1.1, 1.2, 2.2 | USACE, Livingston County, Monroe County | Medium | Low | FEMA HMGP and PDM, NYS DHSES, County | Short Term | High | LPR | PR, PI |
| MC-2 | Share "Ozone Alert" messages, including Alerts or Watches, with Public Health Officials and emergency responders through communication protocol from the County's 911 Center, and explore other means of communication (i.e. mobile app, email, test). | N/A | Extreme temperature | 4.1, 4.2 | Monroe County 911/ECD | Medium | Low | County Operating Budget | Short Term | High | LPR | ES, PI |
| MC-3 | Continue to work toward installation of replacement equipment and optimization through the Public Safety Communications Division with the following actions: 1. Replace the digital paging base stations. 2. Replace the 48 voltage direct current (vdc) plants and duplexers at each digital paging site | Existing | All Hazards | 4.1, 3.5 | Radio Center, Public Safety Communications Division | Medium | Medium | M3SLDC, County | Short Term | High | SIP | ES |
| MC-4 | Deploy Resource Request and Deployment Module (replaced WebEOC Resource management) and train ECD/911 on the software. | N/A | All Hazards | 4.1 | ECD/911, MCDPH (supporting role only), OEM | Medium | Low | Grants, County Operating Budget | Short Term | High | LPR | ES, PI |
| MC-5 | Stockpile Emergency Supplies: Update expired medication in limited stockpile of Doxycycline for emergency responders and select public who may require emergency prophylaxis as a result of exposure to Bacillus | N/A | All Hazards | 2.2 | Supporting role only: MCDPH DES | High | Medium | OEM-SHSP Grant | Short Term | High | LPR | ES |



Table 9.1-8. Proposed Hazard Mitigation Initiatives

| Initiative | Mitigation Initiative | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals and Objectives Met | Lead and Support Agencies | Estimated Benefits | Estimated Cost | Sources of Funding | Timeline | Priority | Mitigation Category | CRS Category |
|------------|--|--|---------------------|--------------------------|------------------------------------|--------------------|----------------|--|---------------------------------|----------|---------------------|--------------|
| | Anthracis. Medicine expires in 2016. | | | | | | | | | | | |
| MC-6 | Use USACE (Hydrologic Engineering Centers [HEC] –Rivers Analysis System [RAS]) inundation model, enhance it with Laser Imaging Detection and Ranging (LIDAR)-derived digital elevation data, and place the predicted floodplain animation in a web-based application for use by officials and during emergencies at the County Emergency Operations Center (EOC). Enhance project with acquisition of new LiDAR data or new data on flood plans. | Both | Flood | 1.3, 4.1, 4.2 | County DES/GIS | Low | Low | County operating budget, grants when applicable | Short Term | High | LPR, EAP | PR, ES |
| MC-7 | Implement mitigation measures for Irondequoit Creek, as identified by the USACE's 2003 proposal, and as agreed to by local parties. | Both | Flood | 1.3, 5.2 | DES | Medium | High | Awaiting federal funding for construction of mitigation measures | DOF | High | NSP | PP, NR |
| MC-8 | Rehabilitate/replace Moscow Road Bridge over Yanty Creek where center piers, drop beams, or inadequate flow capacity causes road flooding, upstream flooding, or debris catches. | Existing | Flood | 3.2 | MCDOT | High | High | Capital Improvement Budget | Scheduled for 2022 construction | High | SIP | PP, SP |
| MC-9 | Automate the swing bridge at the mouth of Irondequoit Bay with Lake Ontario, or install a new bridge, to decrease the annual opening and closing cycle time, and any shifting required by an emergency. Town of Irondequoit will be the lead | Existing | All Hazards | 1.1, 3.2 | Town of Irondequoit, State, County | Medium | High | Unknown | DOF | Low | SIP | PP, ES |



Table 9.1-8. Proposed Hazard Mitigation Initiatives

| Initiative | Mitigation Initiative | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals and Objectives Met | Lead and Support Agencies | Estimated Benefits | Estimated Cost | Sources of Funding | Timeline | Priority | Mitigation Category | CRS Category |
|------------|---|--|---------------------|--------------------------|---------------------------|--------------------|----------------|---------------------------------|---------------------|----------|---------------------|--------------|
| | in a study to explore automating or replacing the bridge. | | | | | | | | | | | |
| MC-10 | Complete installation of backup power at Lake Road Booster Station. County to design and construct. | Existing | All Hazards | 3.2, 3.5 | MCWA, MCDES | High | Low | Grants, County Operating Budget | Short Term | High | SIP | ES, PP |
| MC-11 | Explore new opportunities for inter-municipal and interagency cooperation. | N/A | All Hazards | 1.1, 1.2 | City/ MCWA Exchange | Medium | Low | County Operating Budget | Short Term, Ongoing | High | LPR | PR |
| MC-12 | “Disaster-proof” the Monitoring & Reaction Center building (MRC). Along with MCU4, this facility is a major network/fiber hub that contains the backup 911 Center, a network data storage center, and a significant amount of Public Safety Communication vehicles and equipment. | Existing | All Hazards | 4.1, 3.5 | DES | Medium | Medium | County Operating Budget, grants | Short Term | High | SIP | ES, PP |
| MC-13 | Install true redundant fiber paths out of each critical facility building. Right now, we only have City Place, 911, MRC, and Frank E. Van Lare (FEV) Wastewater Treatment Facility on the south shore of Lake Ontario. | Existing | All Hazards | 4.1, 3.5 | DES | High | Medium | County Operating Budget, grants | Short Term, DOF | High | SIP | ES |
| MC-14 | Ensure all core emergency services switches are on an uninterruptible power supply (UPS). Consider having Frontier lines at our FEV Plant and Fleet Center if these will be locations to which people will go during an emergency. | Existing | All Hazards | 4.1, 3.5 | DES, Frontier | High | Medium | County Operating Budget, grants | Short Term | High | SIP | ES |
| MC-15 | Install fiber telecommunications networks at the Ramona | Existing | All Hazards | 4.1, 3.5 | Pure Waters, MCWA, MCDES | Medium | Low | County Operating Budget, grants | Short Term | High | SIP | ES |





Table 9.1-8. Proposed Hazard Mitigation Initiatives

| Initiative | Mitigation Initiative | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals and Objectives Met | Lead and Support Agencies | Estimated Benefits | Estimated Cost | Sources of Funding | Timeline | Priority | Mitigation Category | CRS Category |
|------------|--|--|---------------------|--------------------------|--|---|--|---|------------|----------|---------------------|--------------|
| | Booster Station through Pure Waters and County collaboration. | | | | | | | | | | | |
| MC-16 | Provide additional training and/or certification for County staff with respect to natural hazard risk management in Benefit/Cost Analysis (BCA), Recovery Planning, Damage Estimates, and Debris Management. | N/A | All Hazards | 1.1 | DES | Medium | Low | County Operating Budget | Short Term | Medium | EAP | ES, PI |
| MC-17 | Update the County Evacuation and Shelter Plan to meet the NYS DHSES HMP Planning Standards requirements for evacuation, sheltering, and short- and long-term housing. | N/A | All Hazards | 2.2 | DES | Medium | Low | County Operating Budget | Short Term | High | EAP | ES |
| MC-18 | Monroe County Tick Education – see Action Worksheet. | N/A | Infestation | 4.2, 4.3, 4.4 | MCDPH, Weekly Disease Surveillance Meeting | To be determined (TBD) | Medium = \$10,000 – \$100,000 (Final TBD) | Grants— federal, state, and local sources | Ongoing | Medium | EAP | PI |
| MC-19 | Install overhead visuals on traffic signals – see Action Worksheet. | Existing & New | Utility Failure | 1,2,3,4 | MCDOT | Motor vehicle accidents, personal injuries. | Low to High | Federal, State, and County | Ongoing | High | SIP, EAP | PR, ES |
| MC-20 | Monroe County OEM to study short- and long-term housing options for flood-prone residents. OEM will study potential for placement and location of immediate short-term and long-term housing options to residents in flood-prone homes, in order to continue their active involvement in their neighborhoods, schools, or places of worship, and to avoid or | Existing | Flood | 1, 2 | Monroe County OEM | Medium | Medium | County Operating Budget, grants | Short Term | High | LPR | PR, ES |



Table 9.1-8. Proposed Hazard Mitigation Initiatives

| Initiative | Mitigation Initiative | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals and Objectives Met | Lead and Support Agencies | Estimated Benefits | Estimated Cost | Sources of Funding | Timeline | Priority | Mitigation Category | CRS Category |
|------------|---|--|---------------------|--------------------------|---|--------------------|----------------|---|------------|----------|---------------------|--------------|
| | reduce personal hardship and impacts on the local economy and tax base. | | | | | | | | | | | |
| MC-21 | Monroe County OEM to develop evacuation routes and procedures, and identify shelter locations outside of regulatory floodplain for those in flood-prone locations. OEM will work with stakeholder agencies to identify evacuation routes and shelter locations for residents (including those with special medical needs); these shelter locations must have accommodations for pets and comply with Americans with Disabilities Act (ADA) standards. OEM will conduct these activities for communities and residential neighborhoods or critical facilities that have been flooded, inundated, or isolated by water, even if not located in a 100-year floodplain. | N/A | Flood | 1, 2, 4 | Monroe County OEM | High | Medium | County Operating Budget, Grants | Short Term | Medium | LPR | PR, ES |
| MC-22 | Implement Irondequoit Creek Restoration Plan to control erosion and sedimentation in Powder Mills and Ellison Parks. | N/A | Flood | 1, 2, 5 | USACE, Monroe County Parks Department, NYSDEC | Medium | Over \$750,000 | USACE, NYSDEC, Urban Waters Small Grants (U.S. Environmental Protection Agency [EPA]) | Short Term | High | NSP | NR, SP |
| MC-23 | Evaluate the flood vulnerability of the Sheriff's Office Parks Unit facility and identify feasible mitigation actions to reduce | Existing | Flood | 1, 3 | Engineer | High | Low | General fund (staff time) | 1 year | High | SIP | PP |



Table 9.1-8. Proposed Hazard Mitigation Initiatives

| Initiative | Mitigation Initiative | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals and Objectives Met | Lead and Support Agencies | Estimated Benefits | Estimated Cost | Sources of Funding | Timeline | Priority | Mitigation Category | CRS Category |
|------------|---|--|--|--------------------------|---------------------------|--------------------|----------------|--|----------|----------|---------------------|--------------|
| | risk to the 0.2 percent annual chance flood. | | | | | | | | | | | |
| MC-24 | Evaluate the flood vulnerability of the Sheriff's Office Marine Unit facility and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood. | Existing | Flood | 1, 3 | Engineer | High | Low | General fund (staff time) | 1 year | High | SIP | PP |
| MC-25 | Evaluate the flood vulnerability of the wastewater facilities in the 0.2 percent annual chance floodplain, and identify feasible mitigation actions to reduce risk. These facilities include the following: <ul style="list-style-type: none"> • GCO Pump Station • Industry Pump Station • Island Cottage E-One Pump Station • Island Cottage Pump Station • John Street Pump Station • Riverdale 2, 3, 4, 5, and 6 Pump Stations • Riverton Pump Station • Scottsville Sewer Plant • Scottsville Pump Station • Southwest Pump Station • Summerville Pump Station • Thomas Creek Pump Station | Existing | Flood | 1, 3 | MCWA | High | Low | General fund (staff time) | 1 year | High | SIP | PP |
| MC-26 | The County shall review and incorporate the latest information on climate change projections while considering, planning, engineering, and | New and Existing | Drought, Extreme Temperatures, Flood, Severe Storm, Severe Winter Storm, | 1, 2, 3, 5 | Planning & Development | High | Low | General budget; state and federal grants | Ongoing | High | LPR, NSP | PP, PI, NR |





Table 9.1-8. Proposed Hazard Mitigation Initiatives

| Initiative | Mitigation Initiative | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals and Objectives Met | Lead and Support Agencies | Estimated Benefits | Estimated Cost | Sources of Funding | Timeline | Priority | Mitigation Category | CRS Category |
|------------|--|--|---------------------|--------------------------|---------------------------|--------------------|----------------|--------------------|----------|----------|---------------------|--------------|
| | undertaking mitigation actions and other projects throughout the County. | | Wildfire | | | | | | | | | |

Notes:
 Not all acronyms and abbreviations defined below are included in the table.
 *Does this mitigation initiative reduce effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Acronyms and Abbreviations:

CAV Community Assistance Visit
 CRS Community Rating System
 DPW Department of Public Works
 FEMA Federal Emergency Management Agency
 FPA Floodplain Administrator
 HMA Hazard Mitigation Assistance
 N/A Not applicable
 NFIP National Flood Insurance Program
 NYS DHSES New York State Division of Homeland Security and Emergency Services
 OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

FMA Flood Mitigation Assistance Grant Program
 HMGP Hazard Mitigation Grant Program
 PDM Pre-Disaster Mitigation Grant Program
 RFC Repetitive Flood Claims Grant Program (discontinued)
 SRL Severe Repetitive Loss Grant Program (discontinued)

Timeline:

Short 1 to 5 years
 Long Term 5 years or greater
 OG On-going program
 DOF Depending on funding

Costs:

Where actual project costs have been reasonably 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 ongoing program.
 Medium Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or 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 costs of the proposed project.

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low < \$10,000
 Medium \$10,000 to \$100,000
 High > \$100,000

Where numerical project benefits cannot reasonably be established at this time:

Low Long-term benefits of the project are difficult to quantify in the short term.
 Medium Project will have a long-term impact on reduction of risk exposure to life and property, or project will provide an immediate reduction in risk exposure to property.
 High Project will have an immediate impact on reduction of risk exposure to life and property.





Mitigation Category:

- *Local Plans and Regulations (LPR) – Actions that include government authorities, policies, or codes that influence the way land and buildings are developed and built.*
- *Structure and Infrastructure Project (SIP) – Actions that involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures, as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce impacts of hazards.*
- *Natural Systems Protection (NSP) – Actions that minimize damage and losses, and also preserve or restore the functions of natural systems.*
- *Education and Awareness Programs (EAP) – Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities*

CRS Category:

- *Preventative Measures (PR) – Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and stormwater management regulations.*
- *Property Protection (PP) – Actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.*
- *Public Information (PI) – Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.*
- *Natural Resource Protection (NR) – Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.*
- *Structural Flood Control Projects (SP) – Actions that involve construction of structures to reduce impacts of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.*
- *Emergency Services (ES) – Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and protection of essential facilities*



Table 9.1-9. Summary of Prioritization of Actions

| Mitigation Action / Project Number | Mitigation Action/Initiative | Life Safety | Property Protection | Cost-Effectiveness | Technical | Political | Legal | Fiscal | Environmental | Social | Administrative | Multi-Hazard | Timeline | Agency Champion | Other Community Objectives | Total | High / Medium / Low |
|------------------------------------|--|-------------|---------------------|--------------------|-----------|-----------|-------|--------|---------------|--------|----------------|--------------|----------|-----------------|----------------------------|-------|---------------------|
| MC-1 | Incorporate a detailed analysis of a failure of the Mt. Morris Dam into the next HMP update's flood profile. | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 9 | High |
| MC-2 | Share "Ozone Alert" messages, including Alerts or Watches, with Public Health Officials and emergency responders through communication protocol from the County's 911 Center, and explore other means of communication (i.e. mobile app, email, text). | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |
| MC-3 | Continue to work toward installation of replacement equipment and optimization through the Public Safety Communications Division with the following actions: 1. Replace the digital paging base stations. 2 Replace the 48 voltage direct current (vdc) plants and duplexers at each digital paging site | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |
| MC-4 | Deploy Resource Request and Deployment Module (replaced WebEOC Resource management) and train ECD/911 on the software. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |
| MC-5 | Stockpile Emergency Supplies: Update expired medication in limited stockpile of Doxycycline for emergency responders and select public who may require emergency prophylaxis as a result of exposure to Bacillus Anthracis. Medicine expires in 2016. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |
| MC-6 | Use USACE (Hydrologic Engineering Centers [HEC] – Rivers Analysis System [RAS]) inundation model, enhance it with Laser Imaging Detection and Ranging (LIDAR)-derived digital | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |





Table 9.1-9. Summary of Prioritization of Actions

| Mitigation Action / Project Number | Mitigation Action/Initiative | Life Safety | Property Protection | Cost-Effectiveness | Technical | Political | Legal | Fiscal | Environmental | Social | Administrative | Multi-Hazard | Timeline | Agency Champion | Other Community Objectives | Total | High / Medium / Low |
|------------------------------------|--|-------------|---------------------|--------------------|-----------|-----------|-------|--------|---------------|--------|----------------|--------------|----------|-----------------|----------------------------|-------|---------------------|
| | elevation data, and place the predicted floodplain animation in a web-based application for use by officials and during emergencies at the County Emergency Operations Center (EOC). Enhance project with acquisition of new LiDAR data or new data on flood plans. | | | | | | | | | | | | | | | | |
| MC-7 | Implement mitigation measures for Irondequoit Creek, as identified by the USACE's 2003 proposal, and as agreed to by local parties. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |
| MC-8 | Rehabilitate/replace Moscow Road Bridge over Yanty Creek where center piers, drop beams, or inadequate flow capacity causes road flooding, upstream flooding, or debris catches. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |
| MC-9 | Automate the swing bridge at the mouth of Irondequoit Bay with Lake Ontario, or install a new bridge, to decrease the annual opening and closing cycle time, and any shifting required by an emergency. Town of Irondequoit will be the lead in a study to explore automating or replacing the bridge. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Low |
| MC-10 | Complete installation of backup power at Lake Road Booster Station. County to design and construct. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |
| MC-11 | Explore new opportunities for inter-municipal and inter-agency cooperation. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |
| MC-12 | "Disaster-proof" the Monitoring & Reaction Center building (MRC). Along with MCU4, this facility is a major network/fiber hub that contains the backup 911 Center, a network data storage center, and a significant amount of Public | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |





Table 9.1-9. Summary of Prioritization of Actions

| Mitigation Action / Project Number | Mitigation Action/Initiative | Life Safety | Property Protection | Cost-Effectiveness | Technical | Political | Legal | Fiscal | Environmental | Social | Administrative | Multi-Hazard | Timeline | Agency Champion | Other Community Objectives | Total | High / Medium / Low |
|------------------------------------|--|-------------|---------------------|--------------------|-----------|-----------|-------|--------|---------------|--------|----------------|--------------|----------|-----------------|----------------------------|-------|---------------------|
| | Safety Communication vehicles and equipment. | | | | | | | | | | | | | | | | |
| MC-13 | Install true redundant fiber paths out of each critical facility building. Right now, we only have City Place, 911, MRC, and Frank E. Van Lare (FEV) Wastewater Treatment Facility on the south shore of Lake Ontario. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |
| MC-14 | Ensure all core emergency services switches are on an uninterruptible power supply (UPS). Consider having Frontier lines at our FEV Plant and Fleet Center if these will be locations to which people will go during an emergency. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |
| MC-15 | Install fiber telecommunications networks at the Ramona Booster Station through Pure Waters and County collaboration. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |
| MC-16 | Provide additional training and/or certification for County staff with respect to natural hazard risk management in Benefit/Cost Analysis (BCA), Recovery Planning, Damage Estimates, and Debris Management. | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 8 | Medium |
| MC-17 | Update the County Evacuation and Shelter Plan to meet the NYS DHSES HMP Planning Standards requirements for evacuation, sheltering, and short- and long-term housing. | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 9 | High |
| MC-18 | Monroe County Tick Education – see Action Worksheet. | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 8 | Medium |
| MC-19 | Install overhead visuals on traffic signals – see Action Worksheet. | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 9 | High |
| MC-20 | Monroe County OEM to study short- and long-term housing options for flood-prone residents. OEM will study potential for | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 9 | High |



Table 9.1-9. Summary of Prioritization of Actions

| Mitigation Action / Project Number | Mitigation Action/Initiative | Life Safety | Property Protection | Cost-Effectiveness | Technical | Political | Legal | Fiscal | Environmental | Social | Administrative | Multi-Hazard | Timeline | Agency Champion | Other Community Objectives | Total | High / Medium / Low |
|------------------------------------|---|-------------|---------------------|--------------------|-----------|-----------|-------|--------|---------------|--------|----------------|--------------|----------|-----------------|----------------------------|-------|---------------------|
| | placement and location of immediate short-term and long-term housing options to residents in flood-prone homes, in order to continue their active involvement in their neighborhoods, schools, or places of worship, and to avoid or reduce personal hardship and impacts on the local economy and tax base. | | | | | | | | | | | | | | | | |
| MC-21 | Monroe County OEM to develop evacuation routes and procedures, and identify shelter locations outside of regulatory floodplain for those in flood-prone locations. OEM will work with stakeholder agencies to identify evacuation routes and shelter locations for residents (including those with special medical needs); these shelter locations must have accommodations for pets and comply with Americans with Disabilities Act (ADA) standards. OEM will conduct these activities for communities and residential neighborhoods or critical facilities that have been flooded, inundated, or isolated by water, even if not located in a 100-year floodplain. | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 8 | Medium |
| MC-22 | Implement Irondequoit Creek Restoration Plan to control erosion and sedimentation in Powder Mills and Ellison Parks. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | High |
| MC-23 | Evaluate the flood vulnerability of the Sheriff's Office Parks Unit facility and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood. | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 10 | High |



Table 9.1-9. Summary of Prioritization of Actions

| Mitigation Action / Project Number | Mitigation Action/Initiative | Life Safety | Property Protection | Cost-Effectiveness | Technical | Political | Legal | Fiscal | Environmental | Social | Administrative | Multi-Hazard | Timeline | Agency Champion | Other Community Objectives | Total | High / Medium / Low |
|------------------------------------|---|-------------|---------------------|--------------------|-----------|-----------|-------|--------|---------------|--------|----------------|--------------|----------|-----------------|----------------------------|-------|---------------------|
| MC-24 | Evaluate the flood vulnerability of the Sheriff's Office Marine Unit facility and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood. | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 10 | High |
| MC-25 | Evaluate the flood vulnerability of the wastewater facilities in the 0.2 percent annual chance floodplain, and identify feasible mitigation actions to reduce risk. These facilities include the following: <ul style="list-style-type: none"> • GCO Pump Station • Industry Pump Station • Island Cottage E-One Pump Station • Island Cottage Pump Station • John Street Pump Station • Riverdale 2, 3, 4, 5, and 6 Pump Stations • Riverton Pump Station • Scottsville Sewer Plant • Scottsville Pump Station • Southwest Pump Station • Summerville Pump Station • Thomas Creek Pump Station | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 10 | High |
| MC-26 | The County shall review and incorporate the latest information on climate change projections while considering, planning, engineering, and undertaking mitigation actions and other projects throughout the County. | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 12 | High |

Note: Refer to Section 6, which has guidance on prioritizing mitigation actions. Mitigation actions carried forward from prior strategies have either retained their prioritization (shown by “-“within updated prioritization criteria), or have been re-prioritized at the discretion of the jurisdiction if the jurisdiction believes re-evaluation is appropriate due to changed conditions since the original prioritization.



9.1.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.1.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for Monroe County that illustrate areas probably to be impacted within the County. These maps are based on the best available data at the time of preparation of this Plan, and are considered adequate for planning purposes. Maps have been generated only for those hazards (e.g., wildfire and flooding) that can be clearly identified via application of mapping techniques and technologies, and to which Monroe County has significant exposure. These maps appear in the hazard profiles within Section 5.4, Volume I of this Plan.

9.1.9 Additional Comments

None at this time.



Name of Jurisdiction: Monroe County
Action Number: MC-3
Mitigation Action Name: Continue to work toward installation of replacement equipment and optimization through the Public Safety Communications Division.

| Assessing the Risk | |
|--|---|
| Hazard(s) addressed: | All Hazards |
| Specific problem being mitigated: | Aging equipment can become unreliable and not as effective, which can limit emergency response capabilities. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | <ol style="list-style-type: none"> 1. Do nothing – vulnerability continues or worsens. 2. Install replacement equipment and otherwise optimize resources – selected action. |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Continue to work toward installation of replacement equipment and optimization through the Public Safety Communications Division with the following actions: <ol style="list-style-type: none"> 1. Replace the digital paging base stations. 2. Replace the 48 voltage direct current (vdc) plants & duplexers @ each digital paging site |
| Mitigation Action Type | SIP |
| Goals Met | 3.5, 4.1 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | Medium |
| Estimated Cost | Medium |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | Radio Center, Public Safety Communications Division |
| Local Planning Mechanism | -- |
| Potential Funding Sources | M3SLDC, County |
| Timeline for Completion | Short Term |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-3

Mitigation Action Name:

Continue to work toward installation of replacement equipment and optimization through the Public Safety Communications Division.

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|-------------------------------------|-------------------------|--|
| Life Safety | - | Mitigation actions carried forward from prior strategies have either retained their prioritization (shown by “-” within updated prioritization criteria), or have been re-prioritized at the discretion of the jurisdiction if the jurisdiction believes re-evaluation is appropriate due to changed conditions since the original prioritization. This mitigation action has retained its prioritization from the previous update of the HMP. |
| Property Protection | - | |
| Cost-Effectiveness | - | |
| Technical | - | |
| Political | - | |
| Legal | - | |
| Fiscal | - | |
| Environmental | - | |
| Social | - | |
| Administrative | - | |
| Multi-Hazard | - | |
| Timeline | - | |
| Agency Champion | - | |
| Other Community Objectives | - | |
| Total | - | |
| Priority (High, Med, or Low) | High | |



| | |
|--------------------------------|--|
| Name of Jurisdiction: | Monroe County |
| Action Number: | MC-8 |
| Mitigation Action Name: | Rehabilitate/replace Moscow Road Bridge over Yanty Creek where center piers, drop beams, or inadequate flow capacity causes road flooding, upstream flooding, or debris catches. |

| Assessing the Risk | |
|--|--|
| Hazard(s) addressed: | Flood |
| Specific problem being mitigated: | Moscow Road Bridge over Yanty Creek has inadequate capacity, leading to road flooding, upstream flooding, and debris catches. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | <ol style="list-style-type: none"> 1. Do nothing – vulnerability continues or worsens. 2. Rehabilitate/replace Moscow Road Bridge over Yanty Creek – selected action |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Rehabilitate/replace Moscow Road Bridge over Yanty Creek where center piers, drop beams, or inadequate flow capacity causes road flooding, upstream flooding, or debris catches. |
| Mitigation Action Type | SIP |
| Goals Met | 3.2 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | High |
| Estimated Cost | High |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | MCDOT |
| Local Planning Mechanism | -- |
| Potential Funding Sources | Capital Improvement Budget |
| Timeline for Completion | Long Term – Scheduled for 2022 construction |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-8

Mitigation Action Name:

Rehabilitate/replace Moscow Road Bridge over Yanty Creek where center piers, drop beams, or inadequate flow capacity causes road flooding, upstream flooding, or debris catches.

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|-------------------------------------|-------------------------|--|
| Life Safety | - | Mitigation actions carried forward from prior strategies have either retained their prioritization (shown by “-” within updated prioritization criteria), or have been re-prioritized at the discretion of the jurisdiction if the jurisdiction believes re-evaluation is appropriate due to changed conditions since the original prioritization. This mitigation action has retained its prioritization from the previous update of the HMP. |
| Property Protection | - | |
| Cost-Effectiveness | - | |
| Technical | - | |
| Political | - | |
| Legal | - | |
| Fiscal | - | |
| Environmental | - | |
| Social | - | |
| Administrative | - | |
| Multi-Hazard | - | |
| Timeline | - | |
| Agency Champion | - | |
| Other Community Objectives | - | |
| Total | - | |
| Priority (High, Med, or Low) | High | |



| | |
|--------------------------------|--|
| Name of Jurisdiction: | Monroe County |
| Action Number: | MC-9 |
| Mitigation Action Name: | Automate the swing bridge at the mouth of Irondequoit Bay with Lake Ontario, or install a new bridge, to decrease the annual opening and closing cycle time, and any shifting required by an emergency. Town of Irondequoit will be the lead in a study to explore automating or replacing the bridge. |

| Assessing the Risk | |
|--|--|
| Hazard(s) addressed: | All Hazards |
| Specific problem being mitigated: | Current annual opening and closing time or shifting required during an emergency at the swing bridge along the mouth of the Irondequoit Bay may occur too slowly to be of use during an emergency. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | <ol style="list-style-type: none"> 1. Do nothing – vulnerability continues or worsens. 2. Automate the swing bridge or install a new bridge after completing a study on best course of action – selected action |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Automate the swing bridge at the mouth of Irondequoit Bay with Lake Ontario, or install a new bridge, to decrease the annual opening and closing cycle time, and any shifting required by an emergency. Town of Irondequoit will be the lead in a study to explore automating or replacing the bridge. |
| Mitigation Action Type | SIP |
| Goals Met | 1.1, 3.2 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | Medium |
| Estimated Cost | High |
| Priority* | Low |
| Plan for Implementation | |
| Responsible Organization | Town of Irondequoit, State, County |
| Local Planning Mechanism | -- |
| Potential Funding Sources | Unknown |
| Timeline for Completion | DOF |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-9

Mitigation Action Name:

Automate the swing bridge at the mouth of Irondequoit Bay with Lake Ontario, or install a new bridge, to decrease the annual opening and closing cycle time, and any shifting required by an emergency. Town of Irondequoit will be the lead in a study to explore automating or replacing the bridge.

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|-------------------------------------|-------------------------|--|
| Life Safety | - | Mitigation actions carried forward from prior strategies have either retained their prioritization (shown by “-” within updated prioritization criteria), or have been re-prioritized at the discretion of the jurisdiction if the jurisdiction believes re-evaluation is appropriate due to changed conditions since the original prioritization. This mitigation action has retained its prioritization from the previous update of the HMP. |
| Property Protection | - | |
| Cost-Effectiveness | - | |
| Technical | - | |
| Political | - | |
| Legal | - | |
| Fiscal | - | |
| Environmental | - | |
| Social | - | |
| Administrative | - | |
| Multi-Hazard | - | |
| Timeline | - | |
| Agency Champion | - | |
| Other Community Objectives | - | |
| Total | - | |
| Priority (High, Med, or Low) | Low | |



| | |
|--------------------------------|---|
| Name of Jurisdiction: | Monroe County |
| Action Number: | MC-10 |
| Mitigation Action Name: | Complete installation of backup power at Lake Road Booster Station. County to design and construct. |

| Assessing the Risk | |
|--|--|
| Hazard(s) addressed: | All Hazards |
| Specific problem being mitigated: | Lake Road Booster Station currently lacks redundant power. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | <ol style="list-style-type: none"> 1. Do nothing – vulnerability continues or worsens. 2. Complete installation of backup power at Lake Road Booster Station – selected action |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Complete installation of backup power at Lake Road Booster Station. County to design and construct. |
| Mitigation Action Type | SIP |
| Goals Met | 3.2, 3.5 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | High |
| Estimated Cost | Low |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | MCWA, MCDES |
| Local Planning Mechanism | -- |
| Potential Funding Sources | Grants, County Operating Budget |
| Timeline for Completion | Short Term |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-10

Mitigation Action Name:

Complete installation of backup power at Lake Road Booster Station. County to design and construct.

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|-------------------------------------|-------------------------|--|
| Life Safety | - | Mitigation actions carried forward from prior strategies have either retained their prioritization (shown by “-” within updated prioritization criteria), or have been re-prioritized at the discretion of the jurisdiction if the jurisdiction believes re-evaluation is appropriate due to changed conditions since the original prioritization. This mitigation action has retained its prioritization from the previous update of the HMP. |
| Property Protection | - | |
| Cost-Effectiveness | - | |
| Technical | - | |
| Political | - | |
| Legal | - | |
| Fiscal | - | |
| Environmental | - | |
| Social | - | |
| Administrative | - | |
| Multi-Hazard | - | |
| Timeline | - | |
| Agency Champion | - | |
| Other Community Objectives | - | |
| Total | - | |
| Priority (High, Med, or Low) | High | |



| | |
|--------------------------------|---|
| Name of Jurisdiction: | Monroe County |
| Action Number: | MC-12 |
| Mitigation Action Name: | “Disaster-proof” the Monitoring & Reaction Center building (MRC). Along with MCU4, this facility is a major network/fiber hub that contains the backup 911 Center, a network data storage center, and a significant amount of Public Safety Communication vehicles and equipment. |

| Assessing the Risk | |
|--|---|
| Hazard(s) addressed: | All Hazards |
| Specific problem being mitigated: | The MRC contains many critical/essential County facilities, and it should be disaster-proofed to the maximum extent possible to ensure continuity of operations during a hazard event. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | <ol style="list-style-type: none"> Do nothing – vulnerability continues or worsens. Disaster proof MRC – selected action |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | “Disaster-proof” the Monitoring & Reaction Center building (MRC). Along with MCU4, this facility is a major network/fiber hub that contains the backup 911 Center, a network data storage center, and a significant amount of Public Safety Communication vehicles and equipment. |
| Mitigation Action Type | SIP |
| Goals Met | 3.5, 4.1 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | Medium |
| Estimated Cost | Medium |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | MCDES |
| Local Planning Mechanism | -- |
| Potential Funding Sources | Grants, County Operating Budget |
| Timeline for Completion | Short Term |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-12

Mitigation Action Name:

“Disaster-proof” the Monitoring & Reaction Center building (MRC). Along with MCU4, this facility is a major network/fiber hub that contains the backup 911 Center, a network data storage center, and a significant amount of Public Safety Communication vehicles and equipment.

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|-------------------------------------|-------------------------|--|
| Life Safety | - | Mitigation actions carried forward from prior strategies have either retained their prioritization (shown by “-” within updated prioritization criteria), or have been re-prioritized at the discretion of the jurisdiction if the jurisdiction believes re-evaluation is appropriate due to changed conditions since the original prioritization. This mitigation action has retained its prioritization from the previous update of the HMP. |
| Property Protection | - | |
| Cost-Effectiveness | - | |
| Technical | - | |
| Political | - | |
| Legal | - | |
| Fiscal | - | |
| Environmental | - | |
| Social | - | |
| Administrative | - | |
| Multi-Hazard | - | |
| Timeline | - | |
| Agency Champion | - | |
| Other Community Objectives | - | |
| Total | - | |
| Priority (High, Med, or Low) | High | |



| | |
|--------------------------------|--|
| Name of Jurisdiction: | Monroe County |
| Action Number: | MC-13 |
| Mitigation Action Name: | Install true redundant fiber paths out of each critical facility building. Right now, we have only City Place, 911, MRC, and Frank E. Van Lare (FEV) Wastewater Treatment Facility located on the south shore of Lake Ontario. |

| Assessing the Risk | |
|--|---|
| Hazard(s) addressed: | All Hazards |
| Specific problem being mitigated: | Only certain critical facilities have had redundant fiber paths installed, to date. This leaves the remaining critical facilities vulnerable to interruption of operations during a hazard event. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | <ol style="list-style-type: none"> 1. Do nothing – vulnerability continues or worsens. 2. Install redundant fiber paths to remaining critical facilities in need – selected action. |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Install true redundant fiber paths out of each critical facility building. Right now we have only City Place, 911, MRC, and Frank E. Van Lare (FEV) Wastewater Treatment Facility located on the south shore of Lake Ontario. |
| Mitigation Action Type | SIP |
| Goals Met | 3.5, 4.1 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | High |
| Estimated Cost | Medium |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | MCDES |
| Local Planning Mechanism | -- |
| Potential Funding Sources | Grants, County Operating Budget |
| Timeline for Completion | Short Term, DOF |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-13

Mitigation Action Name:

Install true redundant fiber paths out of each critical facility building. Right now we have only City Place, 911, MRC, and Frank E. Van Lare (FEV) Wastewater Treatment Facility located on the south shore of Lake Ontario.

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|-------------------------------------|-------------------------|--|
| Life Safety | - | Mitigation actions carried forward from prior strategies have either retained their prioritization (shown by “-” within updated prioritization criteria), or have been re-prioritized at the discretion of the jurisdiction if the jurisdiction believes re-evaluation is appropriate due to changed conditions since the original prioritization. This mitigation action has retained its prioritization from the previous update of the HMP. |
| Property Protection | - | |
| Cost-Effectiveness | - | |
| Technical | - | |
| Political | - | |
| Legal | - | |
| Fiscal | - | |
| Environmental | - | |
| Social | - | |
| Administrative | - | |
| Multi-Hazard | - | |
| Timeline | - | |
| Agency Champion | - | |
| Other Community Objectives | - | |
| Total | - | |
| Priority (High, Med, or Low) | High | |



| | |
|--------------------------------|--|
| Name of Jurisdiction: | Monroe County |
| Action Number: | MC-14 |
| Mitigation Action Name: | Ensure all core Emergency Services switches are on an uninterruptible power supply (UPS). Consider having Frontier lines at our FEV Plant and Fleet Center if these will be locations to which people will go during an emergency. |

| Assessing the Risk | |
|--|--|
| Hazard(s) addressed: | All Hazards |
| Specific problem being mitigated: | Not all core Emergency Services switches are necessarily on a UPS. This may lead to service or response interruptions during a hazard event. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | <ol style="list-style-type: none"> 1. Do nothing – vulnerability continues or worsens. 2. Ensure all core Emergency Services switches are on a UPS – selected action. |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Ensure all core Emergency Services switches are on a UPS. Consider having Frontier lines at our FEV Plant and Fleet Center if these will be locations to which people will go during an emergency. |
| Mitigation Action Type | SIP |
| Goals Met | 3.5, 4.1 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | High |
| Estimated Cost | Medium |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | MCDES, Frontier |
| Local Planning Mechanism | -- |
| Potential Funding Sources | Grants, County Operating Budget |
| Timeline for Completion | Short Term |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-14

Mitigation Action Name:

Ensure all core Emergency Services switches are on a UPS. Consider having Frontier lines at our FEV Plant and Fleet Center if these will be locations to which people will go during an emergency.

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|-------------------------------------|-------------------------|--|
| Life Safety | - | Mitigation actions carried forward from prior strategies have either retained their prioritization (shown by “-” within updated prioritization criteria), or have been re-prioritized at the discretion of the jurisdiction if the jurisdiction believes re-evaluation is appropriate due to changed conditions since the original prioritization. This mitigation action has retained its prioritization from the previous update of the HMP. |
| Property Protection | - | |
| Cost-Effectiveness | - | |
| Technical | - | |
| Political | - | |
| Legal | - | |
| Fiscal | - | |
| Environmental | - | |
| Social | - | |
| Administrative | - | |
| Multi-Hazard | - | |
| Timeline | - | |
| Agency Champion | - | |
| Other Community Objectives | - | |
| Total | - | |
| Priority (High, Med, or Low) | High | |



| | |
|--------------------------------|---|
| Name of Jurisdiction: | Monroe County |
| Action Number: | MC-15 |
| Mitigation Action Name: | Install fiber telecommunications networks at the Ramona Booster Station through Pure Waters and County collaboration. |

| Assessing the Risk | |
|--|--|
| Hazard(s) addressed: | All Hazards |
| Specific problem being mitigated: | Ramona Booster Station requires installation of fiber telecommunications networks to ensure redundancy for communications and continuity of operations. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | <ol style="list-style-type: none"> 1. Do nothing – vulnerability continues or worsens. 2. Install fiber telecommunications networks at Ramona Booster Station – selected action. |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Install fiber telecommunications networks at the Ramona Booster Station through Pure Waters and County collaboration. |
| Mitigation Action Type | SIP |
| Goals Met | 3.5, 4.1 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | Medium |
| Estimated Cost | Low |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | Pure Waters, MCWA, MCDES |
| Local Planning Mechanism | -- |
| Potential Funding Sources | Grants, County Operating Budget |
| Timeline for Completion | Short Term |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-15

Mitigation Action Name:

Install fiber telecommunications networks at the Ramona Booster Station through Pure Waters and County collaboration.

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|-------------------------------------|-------------------------|--|
| Life Safety | - | Mitigation actions carried forward from prior strategies have either retained their prioritization (shown by “-” within updated prioritization criteria), or have been re-prioritized at the discretion of the jurisdiction if the jurisdiction believes re-evaluation is appropriate due to changed conditions since the original prioritization. This mitigation action has retained its prioritization from the previous update of the HMP. |
| Property Protection | - | |
| Cost-Effectiveness | - | |
| Technical | - | |
| Political | - | |
| Legal | - | |
| Fiscal | - | |
| Environmental | - | |
| Social | - | |
| Administrative | - | |
| Multi-Hazard | - | |
| Timeline | - | |
| Agency Champion | - | |
| Other Community Objectives | - | |
| Total | - | |
| Priority (High, Med, or Low) | High | |



| | |
|--------------------------------|------------------------------|
| Name of Jurisdiction: | Monroe County Public Health |
| Action Number: | MC-18 |
| Mitigation Action Name: | Monroe County Tick Education |

| Assessing the Risk | |
|--|--|
| Hazard(s) addressed: | Infestation |
| Specific problem being mitigated: | Lyme Disease |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | <p>Actions:</p> <ul style="list-style-type: none"> - Increase tick awareness signs in parks and trails within Monroe County. - Include tick education within children camp permit mailings. - Provide face-to-face tick awareness training to select children’s camp leadership staff. - Educate municipalities on the risk of Lyme disease and prevention efforts. - Coordinate outreach to local healthcare providers on Lyme disease. <p>Actions Considered but not selected:</p> <ul style="list-style-type: none"> - Determine high-traffic trails within county parks, and widen trails to reduce chance of tick contact with trail users. (Not selected because we do not have direct jurisdiction over park trails.) - Conduct direct teaching of children at children camps on tick awareness. (Not selected because action would exceed current staffing levels. Focusing on train-the-trainer type classes with camp leadership was selected.) |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Monroe County Lyme Disease Awareness |
| Mitigation Action Type | Education and Awareness Program (EAP) |
| Goals Met | <ol style="list-style-type: none"> 1) (Goal 4) Increase public awareness of Lyme disease hazard, its impact, and ways to reduce exposure. 2) Provide Lyme disease education and information to all permitted children’s camps within Monroe County as a part of their permit application process. 3) Provide tick awareness face-to-face training to select children camps who receive a permit and are involved with out-door activities. 4) Coordinate outreach to local healthcare providers on Lyme disease awareness, detection, and treatment. |
| Applies to existing and or new development, or not applicable | N/A |
| Benefits (losses avoided) | (TBD) |
| Estimated Cost | Medium = \$10,000 – \$100,000 (<i>Final TBD</i>) |
| Priority* | See attachment - Medium |



| Plan for Implementation | |
|--|---|
| Responsible Organization | MCDPH |
| Local Planning Mechanism | Weekly Disease Surveillance Meeting |
| Potential Funding Sources | Grant – federal, state, and local sources |
| Timeline for Completion | OG = On Going Program |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-18

Mitigation Action Name:

Monroe County Tick Education

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|-------------------------------------|-------------------------|---|
| Life Safety | 1 | Identification of ticks and promote prevention and early treatment. |
| Property Protection | 0 | N/A |
| Cost-Effectiveness | 1 | Education initiative will be low-cost, high-impact |
| Technical | 1 | Yes, in house subject matter expertise |
| Political | 0 | N/A |
| Legal | 1 | Yes, MCDPH is the local authority on Lyme disease hazard |
| Fiscal | 0 | |
| Environmental | 0 | No environmental impact |
| Social | 0 | Not a social issue |
| Administrative | 1 | Support from local public health leadership |
| Multi-Hazard | 0 | No impact on other hazards |
| Timeline | 1 | Ongoing as long as Lyme disease continues to threaten Monroe County. |
| Agency Champion | 1 | Support of senior and mid-level management. |
| Other Community Objectives | 1 | New York State Department of Health (NYSDOH) recommendations for environmental health program and disease control and prevention. |
| Total | 8 | |
| Priority (Tier I, II or III) | Medium | |



Name of Jurisdiction: Monroe County Department of Transportation (DOT)
Action Number: MC-19
Mitigation Action Name: Install overhead visuals on traffic signals

| Assessing the Risk | |
|--|--|
| Hazard(s) addressed: | Various |
| Specific problem being mitigated: | Utility failure |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | Installation of individual generators for each traffic signal is cost and resource prohibitive. Using personnel to direct traffic at all critical intersections is not feasible. |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | For traffic signal outages – Install overhead visuals with reflective back plates on the mast arms of traffic signals at multilane intersections to make motorists aware of an upcoming intersection and a 4-way stop. |
| Mitigation Action Type | SIP,EAP |
| Goals Met | 1,2,3,4 |
| Applies to existing and or new development, or not applicable | Existing & New |
| Benefits (losses avoided) | Motor vehicle accidents, personal injuries. |
| Estimated Cost | Low to High |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | MCDOT |
| Local Planning Mechanism | - |
| Potential Funding Sources | Federal, State, and County |
| Timeline for Completion | Ongoing |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-19

Mitigation Action Name:

Utility Failure – Monroe County DOT

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|-------------------------------------|-------------------------|--|
| Life Safety | 1 | Installation of these reflective devices will enhance awareness of motorists of presence of an intersection. |
| Property Protection | 1 | Installation of these reflective devices will enhance awareness of motorists of presence of an intersection. |
| Cost-Effectiveness | 0 | |
| Technical | 1 | This action is technically feasible. |
| Political | 1 | There is political will to support this project. |
| Legal | 1 | MCDOT has authority to install the reflectors. |
| Fiscal | 0 | Currently needs funding from another source. |
| Environmental | 0 | |
| Social | 0 | |
| Administrative | 1 | MCDOT has the personnel and administrative capabilities to implement the action and maintain it. |
| Multi-Hazard | 1 | The action would reduce risk from transportation hazards secondary to multiple natural hazards. |
| Timeline | 1 | The action be completed in less than 5 years |
| Agency Champion | 1 | MCDOT |
| Other Community Objectives | 0 | |
| Total | 9 | |
| Priority (Tier I, II or III) | High | |



Name of Jurisdiction: Monroe County

Name and Title Completing Worksheet:

Action Number: MC-23

Mitigation Action Name: Evaluate the flood vulnerability of the Sheriff's Office Parks Unit facility and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

| Assessing the Risk | |
|--|---|
| Hazard(s) addressed: | Flooding |
| Specific problem being mitigated: | The Sheriff's Office Parks Unit is located in the floodplain and is subject to flood damages. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | <ol style="list-style-type: none"> 1. Do nothing (does not reduce flood loss) 2. Construct flood control structure to prevent flood losses (cost prohibitive) 3. Relocate structure (cost prohibitive) |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Evaluate the flood vulnerability of the Sheriff's Office Parks Unit facility and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood. |
| Mitigation Action Type | SIP |
| Goals Met | 1, 3 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | High (avoid/minimize flood losses) |
| Estimated Cost | Low |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | Engineer |
| Local Planning Mechanism | Normal operations |
| Potential Funding Sources | General fund (staff time) |
| Timeline for Completion | 1 year |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-23

Mitigation Action Name:

Evaluate the flood vulnerability of the Sheriff's Office Parks Unit facility and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|----------------------------|----------------------------|---|
| Life Safety | 1 | |
| Property Protection | 1 | |
| Cost-Effectiveness | 1 | |
| Technical | 0 | |
| Political | 1 | |
| Legal | 1 | |
| Fiscal | 0 | |
| Environmental | 1 | |
| Social | 1 | |
| Administrative | 1 | |
| Multi-Hazard | 0 | |
| Timeline | 1 | |
| Agency Champion | 0 | |
| Other Community Objectives | 1 | |
| Total | 10 | |
| Priority | High | |



Name of Jurisdiction: Monroe County

Name and Title Completing Worksheet:

Action Number: MC-24

Mitigation Action Name: Evaluate the flood vulnerability of the Sheriff's Office Marine Unit facility and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

| Assessing the Risk | |
|--|---|
| Hazard(s) addressed: | Flooding |
| Specific problem being mitigated: | The Sheriff's Office Marine Unit is located in the floodplain and is subject to flood damages. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | <ol style="list-style-type: none"> 1. Do nothing (does not reduce flood loss) 2. Construct flood control structure to prevent flood losses (cost prohibitive) 3. Relocate structure (cost prohibitive) |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Evaluate the flood vulnerability of the Sheriff's Office Marine Unit facility and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood. |
| Mitigation Action Type | SIP |
| Goals Met | 1, 3 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | High (avoid/minimize flood losses) |
| Estimated Cost | Low |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | Engineer |
| Local Planning Mechanism | Normal operations |
| Potential Funding Sources | General fund (staff time) |
| Timeline for Completion | 1 year |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-24

Mitigation Action Name:

Evaluate the flood vulnerability of the Sheriff's Office Marine Unit facility and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|----------------------------|-------------------------|---|
| Life Safety | 1 | |
| Property Protection | 1 | |
| Cost-Effectiveness | 1 | |
| Technical | 0 | |
| Political | 1 | |
| Legal | 1 | |
| Fiscal | 0 | |
| Environmental | 1 | |
| Social | 1 | |
| Administrative | 1 | |
| Multi-Hazard | 0 | |
| Timeline | 1 | |
| Agency Champion | 0 | |
| Other Community Objectives | 1 | |
| Total | 10 | |
| Priority | High | |



Name of Jurisdiction: Monroe County

Name and Title Completing Worksheet:

Action Number: MC-25

Mitigation Action Name: Evaluate the flood vulnerability of the wastewater facilities in the 0.2 percent annual chance floodplain, and identify feasible mitigation actions to reduce risk.

| Assessing the Risk | |
|--|---|
| Hazard(s) addressed: | Flooding |
| Specific problem being mitigated: | Several wastewater infrastructure facilities are located in the floodplain and is subject to flood damages. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | <ol style="list-style-type: none"> 1. Do nothing (does not reduce flood loss) 2. Construct flood control structures to prevent flood losses (cost prohibitive) 3. Relocate structures (cost prohibitive) |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Evaluate the flood vulnerability of the wastewater facilities in the 0.2 percent annual chance floodplain, and identify feasible mitigation actions to reduce risk. These facilities include the following: <ul style="list-style-type: none"> • GCO Pump Station • Industry Pump Station • Island Cottage E-One Pump Station • Island Cottage Pump Station • John Street Pump Station • Riverdale 2, 3, 4, 5, and 6 Pump Stations • Riverton Pump Station • Scottsville Sewer Plant • Scottsville Pump Station • Southwest Pump Station • Summerville Pump Station • Thomas Creek Pump Station |
| Mitigation Action Type | SIP |
| Goals Met | 1, 3 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | High (avoid/minimize flood losses) |
| Estimated Cost | Low |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | Engineer |
| Local Planning Mechanism | Normal operations |
| Potential Funding Sources | General fund (staff time) |
| Timeline for Completion | 1 year |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-25

Mitigation Action Name:

Evaluate the flood vulnerability of the wastewater facilities in the 0.2 percent annual chance floodplain, and identify feasible mitigation actions to reduce risk.

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|----------------------------|-------------------------|---|
| Life Safety | 1 | |
| Property Protection | 1 | |
| Cost-Effectiveness | 1 | |
| Technical | 0 | |
| Political | 1 | |
| Legal | 1 | |
| Fiscal | 0 | |
| Environmental | 1 | |
| Social | 1 | |
| Administrative | 1 | |
| Multi-Hazard | 0 | |
| Timeline | 1 | |
| Agency Champion | 0 | |
| Other Community Objectives | 1 | |
| Total | 10 | |
| Priority | High | |



| | |
|---|---|
| Name of Jurisdiction: | Monroe County |
| Name and Title Completing Worksheet: | |
| Action Number: | MC-26 |
| Mitigation Action Name: | The County shall review and incorporate the latest information on climate change projections while considering, planning, engineering, and undertaking mitigation actions and other projects throughout the County. |

| Assessing the Risk | |
|--|--|
| Hazard(s) addressed: | Drought, Extreme Temperatures, Flood, Severe Storm, Severe Winter Storm, Wildfire |
| Specific problem being mitigated: | Changing climate is exacerbating the impacts of hazards throughout the County. Future development, including on existing structures and infrastructure, will need to account for climate change. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | <ol style="list-style-type: none"> 1. Do nothing (future losses will grow) 2. Incorporate information on climate change for future projects (chosen action) |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | The County shall review and incorporate the latest information on climate change projections while considering, planning, engineering, and undertaking mitigation actions and other projects throughout the County. Current climate change information, along with local programs that can be adopted to help address this risk, is available from the following sources: (1) NYSERDA's ClimAid report and 2014 Supplement with updated projections; (2) NYS DEC's Climate Smart Communities program; (3) NYS Community Risk and Resiliency Act (adopted September 2014) |
| Mitigation Action Type | LPR, NSP |
| Goals Met | 1, 2, 3, 5 |
| Applies to existing and or new development, or not applicable | New and existing |
| Benefits (losses avoided) | High |
| Estimated Cost | Low |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | Planning & Development |
| Local Planning Mechanism | Normal operations |
| Potential Funding Sources | General budget; state and federal grants |
| Timeline for Completion | Ongoing |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: Progress on Action/Project: |



Action Number:

MC-26

Mitigation Action Name:

The County shall review and incorporate the latest information on climate change projections while considering, planning, engineering, and undertaking mitigation actions and other projects throughout the County.

| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
|----------------------------|-------------------------|---|
| Life Safety | 1 | |
| Property Protection | 1 | |
| Cost-Effectiveness | 1 | |
| Technical | 1 | |
| Political | 1 | |
| Legal | 1 | |
| Fiscal | 0 | |
| Environmental | 1 | |
| Social | 1 | |
| Administrative | 0 | |
| Multi-Hazard | 1 | |
| Timeline | 1 | |
| Agency Champion | 1 | |
| Other Community Objectives | 1 | |
| Total | 12 | |
| Priority | High | |