



## 9.9 TOWN OF GATES

This section presents the jurisdictional annex for the Town of Gates.

### 9.9.1 Hazard Mitigation Plan Point of Contact

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

Primary Point of Contact	Alternate Point of Contact
Mark Assini, Town Supervisor 1605 Buffalo Road, Rochester, NY 14624 585-247-6100 <a href="mailto:massini@rochester.rr.com">massini@rochester.rr.com</a> , <a href="mailto:massini@townofgates.org">massini@townofgates.org</a>	Joe Amico, Director of Public Works 1605 Buffalo Road, Rochester, NY 14624 585-247-6100 <a href="mailto:jamico@townofgates.org">jamico@townofgates.org</a>

### 9.9.2 Municipal Profile

The Town of Gates, New York, comprises 15.2 square miles of land and 0.08 square mile of water. It is bordered by the City of Rochester to the east, the Town of Chili to the south, the Town of Ogden to the west, and the Town of Greece to the north. The Town is the smallest geographical town in Monroe County, and it is located near the center of the County. At the time of the 2010 U.S. Census, the Town of Gates had a population of 28,400.

### Growth/Development Trends

The following table summarizes recent residential/commercial development from 2010 to the present, and lists any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next 5 years within the municipality. Refer to the maps following Section 9.9.9 of this annex: Figure 9.9-1 illustrates landslide and wildfire hazard areas, and Figure 9.9-2 illustrates flood hazard areas.

**Table 9.9-1. Growth and Development**

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development
<b>Recent Development from 2010 to present</b>					
Hunters Gates	Res.	24 units/ 5 structures	3823 Lyell Road	None Known	Townhouses/done
Gateway Landing	Res.	168 units/3 structures	155 Canal Landing Blvd	None Known	Apartments/90% done
Villas at Coldwater	Res.	159 units/80 structures	2 Golden Oaks Way	None Known	Condominiums/30% done
Wellington Way	Res.	6 units/2 structures	1248-1268 Westside Dr.	None Known	Single Family Homes/done
Ivy Bridge	Res.	153 units/30 structures	10 Westview Commons Blvd	None Known	Townhouses/67% done
<b>Known or Anticipated Development in the Next Five (5) Years</b>					
Villa Capri	Res.	87 units/1 structure	200 Frank Dimino Way	None Known	Senior apartments/0% done/Planning Board approved



Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development
Parkview Place	Res.	107 units/29 structures	3990 Lyell Road	None Known	Condominiums and single family homes/0% done/Planning Board review
Bryne Dairy and Gas Station	Comm.	1 structure	2330 Spencerport Road	None Known	Planning Board Review (future)

\* Only location-specific hazard zones or vulnerabilities identified.

### 9.9.3 Natural Hazard Event History Specific to the Municipality

Monroe County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5.0, of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. For the purpose of this plan update, to the extent possible, all events that have occurred in the County were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0, of this plan.

**Table 9.9-2. Hazard Event History**

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
October 27 – November 8, 2012	Hurricane Sandy	EM-3351	Yes	Overtime to clean up branches and debris (\$10,600)

### 9.9.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Town of Gates. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

#### Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the Town of Gates. The hazards of concern for the Town are those with a High hazard ranking.

**Table 9.9-3. Hazard Risk/Vulnerability Risk Ranking**

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard <sup>a, c</sup>	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>b</sup>
Landslide	Exposed: \$9,547,208,634	Frequent	48	High
Severe Storm	Expected Losses from Wind Alone: \$0	Frequent	48	High
Extreme Temperature	Damage Estimate Not Available	Frequent	36	High
Infestation	Damage Estimate Not Available	Frequent	36	High
Severe Winter Storm	1% Damage Loss Estimate: \$55,430,442 5% Damage Loss Estimate: \$277,152,212	Frequent	36	High





Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard <sup>a, c</sup>	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>b</sup>
	10% Damage Loss Estimate: \$554,304,423			
Utility Failure	Damage Estimate Not Available	Frequent	36	High
Earthquake	100-year MRP GBS: \$261,975 500-year MRP GBS: \$6,187,060 2,500-year MRP GBS: \$81,253,441 Annualized: \$99,687	Frequent	30	Medium
Flood	1% annual chance: \$128,507,100	Frequent	27	Medium
Wildfire	Exposed Value in the WUI: \$1,226,526,914	Frequent	27	Medium
Civil Unrest	Damage Estimate Not Available	Frequent	18	Medium
Hazardous Materials	Damage Estimate Not Available	Frequent	18	Medium
Terrorism	Damage Estimate Not Available	Frequent	18	Medium
Drought	Damage Estimate Not Available	Frequent	12	Low

Notes:

- a. Building damage ratio estimates were based on FEMA 386-2 (August 2001)
- b. 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
- c. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.
- d. Loss estimates for the flood and earthquake hazards represent both structure and contents.
- e. The HAZUS-MH earthquake model results are reported by Census Tract.

### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Gates.

Table 9.9-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in the 1% Flood Boundary (3)
Gates (T)	336	18	\$53,777	0	0	290

Source: FEMA Region 2 2015

Note (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA and are current as of June 30, 2015 and are summarized by Community Name. Please note the total number of repetitive loss properties excludes the severe repetitive loss properties. The number of claims represents claims closed by 6/30/15.

Note (2) Total building and content losses from the claims file provided by FEMA Region 2.

Note (3) The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file. Number in the floodplain was determined using the 2007 Effective DFIRM 1% annual chance flood boundary.

### Critical Facilities

The table below presents HAZUS-MH estimates of the damage and loss of use to critical facilities in the community as a result of 1 percent and 0.2 percent annual chance flood events.

Table 9.9-5. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 1% Flood Event		
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100-Percent <sup>(2)</sup>





Name	Type	Exposure		Potential Loss from 1% Flood Event		
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100-Percent <sup>(2)</sup>
North Star Christian Academy	School	X	X	0	0	0
Town of Gates Highway Dept.	DPW	X	X	10.9	35.6	-

Source: Monroe County; HAZUS-MH 2.2; FEMA 2015

Note (1): HAZUS-MH 2.2 provides a general indication of the maximum restoration time for 100% operations. Clearly, a great deal of effort is needed to quickly restore essential facilities to full functionality; therefore this will be an indication of the maximum downtime (HAZUS-MH 2.2 User Manual).

Note (2): In some cases, a facility may be located in the DFIRM flood hazard boundary; however HAZUS did not calculate potential loss. This may be because the depth of flooding does not amount to any damages to the structure according to the depth damage function used in HAZUS for that facility type. Further, HAZUS-MH may estimate potential damage to a facility that is outside the DFIRM because the model generated a depth grid beyond the DFIRM boundaries.

X Facility located within the DFIRM boundary

- Not calculated by HAZUS-MH 2.2

### Other Vulnerabilities Identified

The municipality has identified the following vulnerabilities within their community:

- None noted.

### 9.9.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capabilities
- Administrative and technical capabilities
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

### Planning and Regulatory Capabilities

The table below summarizes the regulatory tools that are available to the Town of Gates.

Table 9.9-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
<b>Planning Capability</b>				
Master Plan	Yes	Town	Planning	--
Capital Improvements Plan	Yes	Town	Town Board	--
Floodplain Management / Basin Plan	Yes	Town	Planning	--
Stormwater Management Plan	Yes	Town	Planning	--
Open Space Plan	Yes	Town	Planning	--
Stream Corridor Management	Yes	Town	Planning	--





Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Plan				
Watershed Management or Protection Plan	Yes	Town	Planning	--
Economic Development Plan	No	--	--	--
Comprehensive Emergency Management Plan	Yes	Town	Fire/Police/Ambulance	--
Emergency Response Plan	Yes	Town	Fire/Police/Ambulance	--
Post-Disaster Recovery Plan	Yes	Town	Fire/Police/Ambulance	--
Transportation Plan	No	--	--	--
Strategic Recovery Planning Report	No	--	--	--
Other Plans:	Yes	Town	Planning	--
<b>Regulatory Capability</b>				
Building Code	Yes	Town	--	Building Codes and Fire Prevention Chapter 70
Zoning Ordinance	Yes	Town	--	Zoning Chapter 190
Subdivision Ordinance	Yes	Town	--	Subdivision of Land Chapter 161
NFIP Flood Damage Prevention Ordinance	Yes	Town	--	Flood Damage Prevention Chapter 100
NFIP: Cumulative Substantial Damages	No	--	--	--
NFIP: Freeboard	Yes	State, Local	--	State mandated BFE+2 for single and two-family residential construction, BFE+1 for all other construction types
Growth Management Ordinances	Yes	Town	--	--
Site Plan Review Requirements	Yes	Town	Planning	--
Stormwater Management Ordinance	Yes	Town	Planning	Stormwater Management Chapter 157
Municipal Separate Storm Sewer System (MS4)	No	--	--	--
Natural Hazard Ordinance	No	--	--	--
Post-Disaster Recovery Ordinance	Yes	Town	--	
Real Estate Disclosure Requirement	Yes	State	--	NYS mandate, Property Condition Disclosure Act, NY Code - Article 14 §460-467
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]	--	--	--	--

Note: -- = Information not available

### Administrative and Technical Capabilities

The table below summarizes potential staff and personnel resources available to the Town of Gates.





**Table 9.9-7. Administrative and Technical Capabilities**

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
<b>Administrative Capability</b>		
Planning Board	Yes	Public Works
Mitigation Planning Committee	No	--
Environmental Board/Commission	Yes	Public Works
Open Space Board/Committee	No	--
Economic Development Commission/Committee	No	--
Maintenance Programs to Reduce Risk	Yes	Public Works
Mutual Aid Agreements	Yes	Public Works
<b>Technical/Staffing Capability</b>		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Public Works
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Public Works
Planners or engineers with an understanding of natural hazards	Yes	Public Works
NFIP Floodplain Administrator	Yes	Public Works
Surveyor(s)	No	--
Personnel skilled or trained in GIS and/or HAZUS-MH applications	No	--
Scientist familiar with natural hazards	No	--
Emergency manager	Yes	Police/Fire/Ambulance
Grant writer(s)	Yes	Town
Staff with expertise or training in benefit/cost analysis	No	--
Professionals trained in conducting damage assessments	No	--

**Fiscal Capability**

The table below summarizes financial resources available to the Town of Gates.

**Table 9.9-8. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community Development Block Grants (CDBG, CDBG-DR)	Yes, CFO
Capital Improvements Project Funding	Yes, CFO
Authority to levy taxes for specific purposes	Yes, CFO
User fees for water, sewer, gas or electric service	Yes, CFO
Impact fees for homebuyers or developers of new development/homes	NA
Stormwater utility fee	NA
Incur debt through general obligation bonds	Yes, CFO
Incur debt through special tax bonds	Yes, CFO
Incur debt through private activity bonds	Yes, CFO
Withhold public expenditures in hazard-prone areas	Yes, CFO
Other federal or state funding programs	Yes, CFO



Financial Resources	Accessible or Eligible to Use (Yes/No)
Open Space Acquisition Funding Programs	Yes, CFO
Other	NA

### Community Classifications

The table below summarizes classifications for community program available to the Town of Gates.

**Table 9.9-9. Community Classifications**

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	N/A	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	N/A	N/A	N/A
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Unknown	Unknown
Storm Ready	Yes	StormReady County	Unknown
Firewise	No	--	--
Disaster/Safety Programs in/for Schools	N/A	N/A	N/A
Organizations with Mitigation Focus (advocacy group, non-government)	N/A	N/A	N/A
Public Education Program/Outreach (through website, social media)	Yes	Website, social media, meetings, etc.	N/A
Public-Private Partnerships	Yes	--	--

Notes:  
 N/A = Not applicable  
 - = 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 the costs of various forms of insurance. The CRS classification applies to flood insurance while the 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 classifications include a higher classification when the subject property is located beyond 1000 feet of 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 ISO Mitigation online ISO’s Public Protection website at <https://www.isomitigation.com/ppc/>
- The National Weather Service Storm Ready website at <http://www.stormready.noaa.gov/become.shtml>
- The National Firewise Communities website at <http://firewise.org/>



### Self-Assessment of Capability

The table below provides an approximate measure of the Town of Gates’ capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

**Table 9.9-10. 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	The Town responded N/A to this entire section.		
Administrative and Technical Capability			
Fiscal Capability			
Community Political Capability			
Community Resiliency Capability			
Capability to Integrate Mitigation into Municipal Processes and Activities.			

### National Flood Insurance Program

#### NFIP Floodplain Administrator (FPA)

Director of Public Works

#### Flood Vulnerability Summary

The Town of Gates does not maintain an inventory of properties that have been flood damaged. For this reason, the Town cannot quantify the number of structures damaged during Hurricanes Floyd, Irene, Sandy, or other severe storms. The Town has not made any substantial damage assessments, nor has it received any requests for mitigation or acquisition. The Town is not aware of any property owners interested in mitigation opportunities.

#### Resources

The Floodplain Administrator is the primary person assuming the responsibilities of floodplain administration; however, he is supported by other Town staff and the Town contractor, as needed. Joe Amico, Director of Public Works, provides NFIP administration services and functions, including permit review, inspections, damage assessments, record-keeping, GIS, education, and outreach. The Town provides education and outreach on flood insurance programs and floodplain options through Town meetings and notifications of individual property owners.

The Floodplain Administrator does not report any barriers to running an effective floodplain management program in his community. He also believes he is adequately supported and trained to fulfill his responsibilities as the municipal floodplain manager. The Floodplain Administrator expressed interest in attending continuing education and/or certification training on floodplain management if it were offered in the County for all local floodplain administrators.

#### Compliance History

As of June 30, 2015, 336 policies are in force, 290 of which are within the 100-yr flood boundary. There are no repetitive loss or severe repetitive loss properties in the Town. Since 1978, 43 claims have been filed and 18 claims have been paid within the Town of Gates (25 claims were considered Closed Without Pay [CWOP]).







According to the NFIP Policy Statistics report available at the time of this plan, the policies in the Town insured \$52.48 million of property with total annual insurance premiums of \$433,506.

The Floodplain Administrator is unaware of any outstanding NFIP compliance issues in the community, and the most recent Community Assistance Visit (CAV) was completed in 2014.

### Regulatory

The Town's Flood Damage Prevention Ordinance (FDPO) was last reviewed and updated in May 2008 and is found in Chapter 100 of the local code. Floodplain management regulations and ordinances meet the FEMA and New York State minimum requirements, and do not exceed these requirements.

There are other local ordinances, plans, and programs that support floodplain management and meeting NFIP requirements in the Town of Gates, including the planning and zoning board reviews of development applications to consider efforts to reduce flood risk.

### Community Rating System

The Town of Gates does not participate in the Community Rating System (CRS) program.

### Other Capabilities Identified

Previous actions taken, that are now ongoing programs and capabilities, are described below. Refer to Table 9.9-11 presented later in this annex.

- The Town enforces government permitting processes, complies with applicable federal and state regulations, and regularly reviews local laws.
- The Town provides comprehensive inspection services.
- The Town administers a floodplain management program.
- The Town maintains public infrastructure.

### 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 their community's progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

### Planning

**Land Use Planning:** The Town of Gates has a Planning Board and Zoning Board of Appeals which review all applications for development and consider natural hazard risk areas in their review. Many development activities require additional levels of environmental review, specifically NYS State Environmental Quality Review Act (SEQR) and federal National Environmental Policy Act (NEPA) requirements. The Town Planning Board works closely with the Department of Buildings and Public Works. These two departments are also responsible for Town planning, zoning, and economic development activities and for compliance with local, state, and federal regulations. Additionally, the Town of Gates is a MS4-regulated community. Its stormwater management planning identifies initiatives to reduce or otherwise mitigate stormwater flooding.



## Regulatory and Enforcement

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**Building Codes and Fire Prevention Chapter 70:** The building codes are strictly enforced to ensure that new and renovated buildings are prepared, as much as possible, for hazard-related incidents. The Town complies with New York State Uniform Fire Prevention and Building Code (the Uniform Code). It also ensures that all regulations are consistent with nationally recognized practices for safeguarding life and property from fire, hazardous conditions associated with explosions, and hazardous materials.

**Flood Damage Prevention Chapter 100:** This chapter promotes the public health, safety, and general welfare of residents and seeks to minimize public and private losses due to flood conditions and erosion. The chapter regulates development to promote flood-resistant structures and controls the alteration of floodplains to prevent increased vulnerability.

**Stormwater Management Chapter 157:** The Town's stormwater management chapter seeks to mediate the adverse impacts of stormwater runoff, soil erosion, and nonpoint source pollution. The Town strictly enforces the design, construction, use, and maintenance of any development or activity that disturbs or breaks the topsoil or results in the movement of earth on land within corporate boundaries. The Town can also implement stormwater utility fees for the administration of this chapter.

**Subdivision of Land Chapter 161:** The Town's Planning Board is tasked with site plan/subdivision review. The regulations for this chapter are on file in Town offices.

**Zoning Chapter 190:** The Town of Gates' zoning code includes districts (floodway district and floodplain overlay district) and standards pertaining to the mitigation of hazards.

## Fiscal

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**Operating Budget:** The Town's operating budget contains minimal provisions for expected repairs like snow removal and infrastructure repair after a storm or natural disaster.

## Education and Outreach

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Town of Gates staff attend trainings and classes sponsored by Monroe County Department of Planning and Development, Monroe County Office of Emergency Management, or by state and federal agencies, as able and in order to meet all professional requirements. Town emergency responders also have the option to attend courses at the Monroe County Public Safety Training Facility.

The Gates Fire District provides fire protection services to both the Towns of Gates and Chili. As part of its services, it maintains a website that includes public safety education and lesson plan ideas (under the "+ Fire Prevention" page). The Career Fire Prevention Officer also provides community fire protection and safety lessons in local schools, businesses, and senior centers. The Town provides additional information to residents via its website, Police Facebook page, and Town meetings, as necessary.

The Town of Gates also maintains a registry for persons who wish to be contacted during a disaster or hazard event. The registry is limited to persons with physical disabilities who have no local assistance available. In addition, residents have the ability to sign up for reverse 911 cell phone notifications of emergency situations through the Monroe County Emergency Communications Department.

### 9.9.6 Mitigation Strategy and Prioritization

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



### **Past Mitigation Initiative Status**

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Table 9.9-11 indicates progress on the community’s mitigation strategy identified in the 2010 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.



**Table 9.9-11. Past Mitigation Initiative Status**

2010 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-3: Establish an active Recruitment and Retention (of providers) Program.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
ES-4: Stockpile emergency supplies.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
ES-5: Solicit “Mutual Aid” agreements.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
ES-6: Engage emergency service jurisdictions in local municipal government processes.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
NRP-1: Ensure proper disposal of Hazardous Waste.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
NRP-2: Enforce government permit processes. This may pertain to existing and/or new infrastructure.	Town	Ongoing	Ongoing	Discontinued	Describe in 2016 as ongoing operational capability
NRP-3: Provide comprehensive inspection services. This may pertain to existing and/or new infrastructure.	Town	Ongoing	Ongoing	Discontinued	Describe in 2016 as ongoing operational capability
NRP-4: Administer a Floodplain Management Program. This may pertain to existing and/or new infrastructure.	Town	Ongoing	Ongoing	Discontinued	Describe in 2016 as ongoing operational capability



2010 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.
NRP-5: Maintain "Urban Forests."	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
PEA-3: Review Utility Service & restoration plans.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
PEA-4: Identify and utilize a "Speakers Bureau."	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
PP-1: Identify "special hazard" areas.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
PP-2: Maintain public infrastructure. This may pertain to existing and/or new infrastructure.	Town	Ongoing	Ongoing	Discontinued	Describe in 2016 as ongoing operational capability
PP-3: Solicit inter-municipal and interagency cooperation.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
PP-4: Promote purchase of appropriate hazard insurance policies. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
PP-5: Property acquisition	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
PR-1: Enforce Building Code as required for existing and new infrastructure.	Town	Ongoing	Public Works	Discontinued	Describe in 2016 as ongoing operational capability





2010 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.
PR-2: Comply with applicable federal and state regulations.	Town	Ongoing	Public Works	Discontinued	Describe in 2016 as ongoing operational capability
PR-5: Regular review of Local Laws	Town	Ongoing	Public Works	Discontinued	Describe in 2016 as ongoing operational capability
SP-1: Disaster “proof” public facilities. This may pertain to existing and/or new infrastructure.	Town	N/A	Public Works	Discontinued	This project is discontinued due to a lack of information.
SP-2: Secure and provide redundant critical systems and facilities. This may pertain to existing and/or new infrastructure.	Town	N/A	Public Works	Discontinued	This project is discontinued due to a lack of information.
SP-3: “Target Harden” facilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
SP-4: Expand fiber telecommunications networks.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
EPI-PR-2: Local Project. Provide HIV screening and public education (Democrat & Chronicle, 7-21-03).	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
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.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.



2010 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-PP-1: Encourage residential use of smoke detectors through public education, and “give away” programs. This may pertain to existing and/or new infrastructure.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Fire-SP-1: Local Project. Plan, design and develop enhanced, local facilities for on-site specialized emergency training.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Fl-ES-1: Provide Special Operations and Tactical Rescue training including water rescue training	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Fl-ES-4: Churchville Project. Enhance Fire Department Personnel Emergency Notification	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Fl-ES-5: Churchville Project. Provide water rescue training and equipment e.g. Wet Suits and associated equipment.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Fl-PEA-1: Provide information about the Erie Canal and its spillway locations	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Fl-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.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Fl-PP-1: Encourage affected property owners to purchase Flood Insurance. This may	No Change	No Progress	N/A	Discontinued	Not applicable to Town.





2010 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.
pertain to existing and/or new infrastructure.					
FI-PP-2: Participate in the federal Community Rating System. This may pertain to existing and/or new infrastructure.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
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).	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
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).	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
FI-PR-1: Implement an annual, “Waterway/Drainage Maintenance” Program	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
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.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.





2010 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-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).	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
FI-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.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
FI-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.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
FI-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.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.





2010 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-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.</p>	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
<p>Fl-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.</p>	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
<p>Ice-ES-1: Develop a strategy to reduce the time it takes to clear streets (Rights-of-Way) of debris</p>	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
<p>Ice-ES-2: Regularly review restoration priorities</p>	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
<p>Ice-ES-3: Enhance utility “Town Liaison” Program</p>	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
<p>Ice-NRP-1: Churchville Project. Replace trees (forestation) in Village of Churchville that were destroyed by various storm events.</p>	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
<p>Ice-PEA-2: Develop alternate communications plan</p>	No Change	No Progress	N/A	Discontinued	Not applicable to Town.



2010 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-PEA-3: Provide automated utility restoration schedule to the public	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PEA-4: Provide more public outreach during an emergency	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PEA-5: Expand utility Customer Service capacity	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PEA-6: Expand information available on websites	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PP-1: Encourage installation of backup power supply. This may pertain to existing and/or new infrastructure.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PR-1: Implement an “Annual, Tree/Stream Maintenance Program”	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PR-2: Relocate vulnerable utilities. This may pertain to existing and/or new infrastructure.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PR-2A: Fairport Electric Project. Relocate vulnerable utilities	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PR-2B: Fairport Electric Project. Relocate vulnerable utilities	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PR-3: Develop DPW/DOT Plans for debris clearance, removal, and disposal	No Change	No Progress	N/A	Discontinued	Not applicable to Town.



2010 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-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.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-SP-1: Install permanent backup power supply at public facilities. This may pertain to existing and/or new infrastructure.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Land-PEA-1: Local Project. Promote understanding and use of (telephone number) 811, "Call Before You Dig."	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
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.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
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.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Terr-PP-1: Implement a strategy to "target harden" critical and public facilities. This may pertain to existing	No Change	No Progress	N/A	Discontinued	Not applicable to Town.



2010 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.
and/or new infrastructure.					
Terr-PR-1: Provide intelligence to local authorities about legal surveillance and threat assessment activities.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Terr-PR-2: Review emergency plans for public facilities to ensure that appropriate measures are considered and referenced	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Terr-PR-3: Schools Project. Comply with Project Save regulations for plan review and revision cycles.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
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.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Trans-PEA-1: Local Project. Provide traffic reports through the local broadcasters	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Trans-PEA-2: Local Project. Provide construction information and project status on sites that impact traffic	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
Util-ES-1: Local Projects. Provide power back-up supply for municipal fueling stations. This may pertain to existing and/or new infrastructure.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.





2010 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.
Util-PP-1: Local Utilities Project. Preserve capacity to generate local power and enhance the ability to segregate local supply from the national power grid during major failures, e.g. August 14, 2003. This may pertain to existing and/or new infrastructure.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.
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.	No Change	No Progress	N/A	Discontinued	Not applicable to Town.



### Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The Town of Gates has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2010 Plan:

- None noted

### Proposed Hazard Mitigation Initiatives for the Plan Update

FEMA Region II led a meeting for 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 with the results of the municipal risk assessment to further assist them in the development of their mitigation strategy. Throughout the planning process, jurisdictions had access to mitigation planners who were available to assist with the development of the jurisdictional annexes, including the mitigation strategy and action worksheets, as necessary.

Table 9.9-12 summarizes the comprehensive-range of specific mitigation initiatives that the Town of Gates would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. The four FEMA mitigation action categories and the six CRS mitigation action categories are listed in Table 9.9-12 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 the 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 your actions as ‘High,’ ‘Medium,’ or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.9-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



**Table 9.9-12. 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
TG-1	Evaluate the flood vulnerability of the North Star Christian Academy and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	Existing	Flood	1, 3	FPA; Engineer	High	Low	General fund (staff time)	1 year	High	SIP	PP
TG-2	Conduct education and outreach to residents and business owners to inform them if their properties are in known hazard areas, and actions they can take to protect their properties.	Existing	Earthquake, Extreme Temperatures, Flood, Infestation, Landslide, Severe Storms, Severe Winter Storms, Wildfire, HazMat, Utility Failure	1, 3, 4	Town Clerk	High	Low	Operating budget	OG	High	EAP	PI
TG-3	Evaluate the flood vulnerability of the Town Highway Department facility and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	Existing	Flood	1, 3	FPA; Engineer	High	Low	General fund (staff time)	1 year	High	SIP	PP

*Notes:*

*Not all acronyms and abbreviations defined below are included in the table.*

*\*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.*

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

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







Acronyms and Abbreviations:

NYS DHSES New York State Division of  
Homeland Security and Emergency Services  
OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

Timeline:

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 on-going program.  
Medium Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.  
High Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

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 the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.  
High Project will have an immediate impact on the reduction of risk exposure to life and property.

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP)- These actions 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 the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are 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 storm water management regulations.
- Property Protection (PP) - These 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 the structures built to reduce the impact 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 the protection of essential facilities





Table 9.9-13. 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
TG-1	Evaluate the flood vulnerability of the North Star Christian Academy 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
TG-2	Conduct education and outreach to residents and business owners to inform them if their properties are in known hazard areas, and actions they can take to protect their properties.	1	1	1	1	1	1	1	0	1	-1	1	1	0	1	11	High
TG-3	Evaluate the flood vulnerability of the Town Highway Department 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

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions.



### **9.9.7 Future Needs To Better Understand Risk/Vulnerability**

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None at this time.

### **9.9.8 Hazard Area Extent and Location**

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Hazard area extent and location maps have been generated for the Town of Gates that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards (i.e., landslide, wildfire, and flooding) that can be clearly identified using mapping techniques and technologies, and for which the Town of Gates has significant exposure. These maps are illustrated in the hazard profiles within Volume I, Section 5.4, of this Plan.

### **9.9.9 Additional Comments**

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None at this time.



Figure 9.9-1. Town of Gates Landslide and Wildfire Hazard Area Extent and Location Map

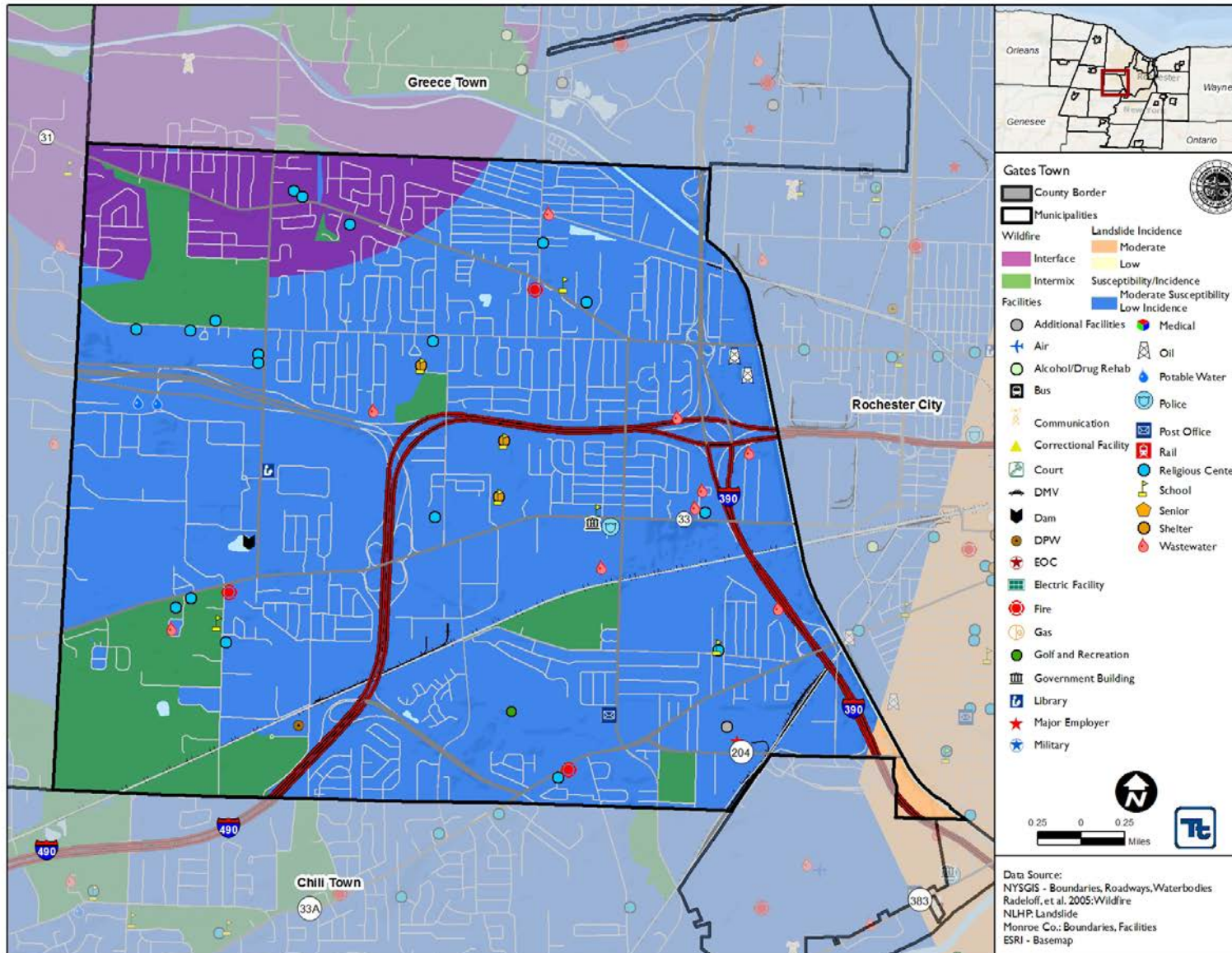
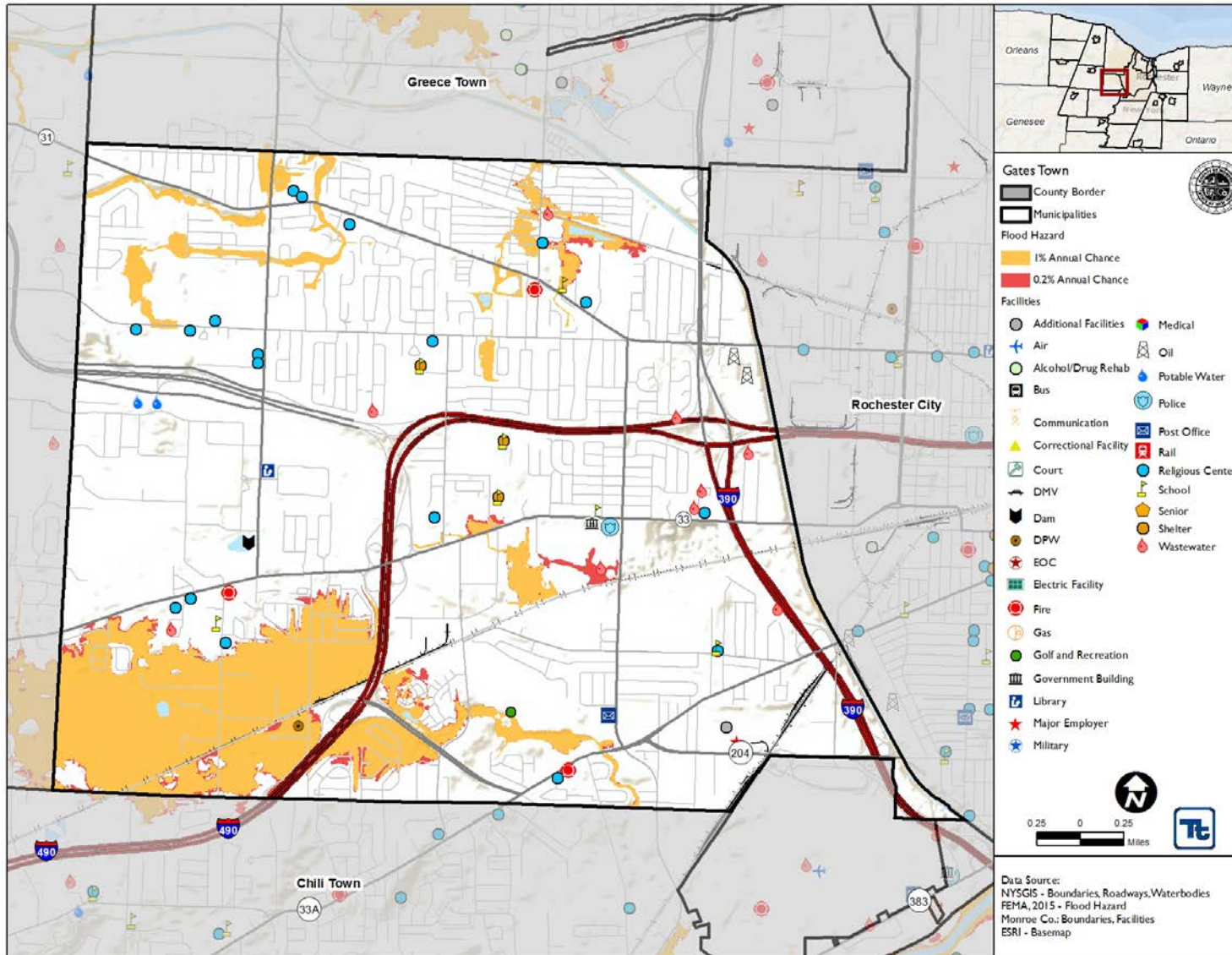




Figure 9.9-2. Town of Gates Hazard Area 1% and 0.2% Floodplain Map





**Name of Jurisdiction:** Town of Gates

**Name and Title Completing Worksheet:**

**Action Number:** TG-1

**Mitigation Action Name:** Evaluate the flood vulnerability of the North Star Christian Academy and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

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



**Action Number:**

TG-1

**Mitigation Action Name:**

Evaluate the flood vulnerability of the North Star Christian Academy 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	
<b>Total</b>	10	
<b>Priority</b>	High	



<b>Name of Jurisdiction:</b>	Town of Gates
<b>Action Number:</b>	TG-2
<b>Mitigation Action Name:</b>	Conduct education and outreach to residents and business owners to inform them if their properties are in known hazard areas, and actions they can take to protect their properties.

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Earthquake, Extreme Temperatures, Flood, Infestation, Landslide, Severe Storms, Severe Winter Storms, Wildfire, HazMat, Utility Failure
<b>Specific problem being mitigated:</b>	Enhancing local public information dissemination to increase preparedness and mitigation at an individual level.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	<ol style="list-style-type: none"> <li>1. Do nothing – vulnerability continues or worsens</li> <li>2. Conduct education and outreach – selected action</li> <li>3. No other feasible options were identified</li> </ol>
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Conduct education and outreach for residents and business owners to inform them if their properties are in known hazard areas, and discuss actions they can take to protect their properties.
<b>Mitigation Action Type</b>	EAP
<b>Goals Met</b>	1, 3, 4
<b>Applies to existing and or new development, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	Low
<b>Priority*</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	Town Clerk
<b>Local Planning Mechanism</b>	--
<b>Potential Funding Sources</b>	Operating budget
<b>Timeline for Completion</b>	Ongoing
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:





**Action Number:**

TG-2

**Mitigation Action Name:**

Conduct education and outreach to residents and business owners to inform them if their properties are in known hazard areas, and actions they can take to protect their properties.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Enhance awareness and preparedness among residents, increasing safety.
Property Protection	1	Encourage greater property protection and mitigation at individual level.
Cost-Effectiveness	1	Most cost-effective project option.
Technical	1	
Political	1	
Legal	1	
Fiscal	1	Does not require external funding.
Environmental	0	
Social	1	Will benefit wide number of residents.
Administrative	-1	Requires increased administration and time for implementation.
Multi-Hazard	1	Earthquake, Flood, Infestation, Landslide, Wildfire, HazMat
Timeline	1	Ongoing
Agency Champion	0	
Other Community Objectives	1	
<b>Total</b>	10	
<b>Priority (High, Med, or Low)</b>	High	



**Name of Jurisdiction:** Town of Gates

**Name and Title Completing Worksheet:**

**Action Number:** TG-3

**Mitigation Action Name:** Evaluate the flood vulnerability of the Town Highway Department facility and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

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



**Action Number:**

TG-3

**Mitigation Action Name:**

Evaluate the flood vulnerability of the Town Highway Department 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	
<b>Total</b>	10	
<b>Priority</b>	High	