

Village of Mexico

Jurisdictional Annex

Village of Mexico

1.0 Contacts

The contacts for the Village of Mexico regarding this plan were identified as follows:

- Terry Grimshaw – Mayor
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- Jim Hotchkiss – Deputy Mayor
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- John Power – DPW Superintendent
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Town and Village of Mexico Website: <http://mexicony.net/>

2.0 Municipal Profile

Population

The 2016 American Community Survey estimated that 1,720 people live in the Village of Mexico. The Town's population has increased since the 2000 Census population (1,572) by 9.4% (U.S. Census Bureau, 2016).

Location

The Village of Mexico is located in the western portion of the Town of Mexico, which is located in the central portion of Oswego County. State Routes 3, 69, and 104 provide direct access to the Village. The Village is about five miles west of the Interstate 81 corridor.

Brief History

Village residents are also part of the Town of Mexico. The Town of Mexico was incorporated in 1792 and is the oldest municipality in Oswego County. The Town of Mexico was incorporated in 1792 from Scriba's patent and is the oldest municipality in Oswego County. Lumbering was the Town's main industry during the 18th and 19th centuries and a number of sawmills were established. As forests were cleared, agriculture became more significant. The Oswego County Home, which housed people in need, was established in 1828 and operated for 143 years. In addition, Grandma Brown's Beans in the Village of Mexico opened in 1947 and is still in operation today (Greenway, 2016).

Governing Body

The Village of Mexico is governed by a five (5) member Village Board of Trustees, led by the Mayor.

Future Growth

The Village is seeking stable growth. Since the last County HMP (2012), the Village of Mexico has not had any new commercial and residential developments. All potential developments would undergo local site plan review to ensure that all local, state, and federal requirements and regulations are met.

3.0 Hazard Vulnerabilities and Ranking

3.1. Risk Assessment

The following scale was developed to determine hazard vulnerability for the jurisdiction. Each event was given a ranking from one (1) through three (3) for the severity of impact based on extent, onset warning, impact in damages and injury, and frequency: three (3) represents the greatest impact (large area, no warning, severe damage, and regular occurrence); two (2) represents moderate impact (several locations, hours of warning, moderate damage, and infrequent occurrence); and one (1) represents low impact (one location, days of warning, minor damage, and rare occurrence). The scores for each of these four (4) categories were used to assign an overall vulnerability for each hazard, as follows:

- Low: 5 or less
- Moderate: 6 to 8
- High: 9 or greater

Hazard Event	Extent	Onset	Impact (Damages and Injury)	Frequency	Vulnerability Rank	Jurisdiction Rank
Ice Storm	3	1	3	2	High	1
Severe T-Storm/Wind/Tornado	3	1	3	3	High	2
Severe Winter Storm	3	1	2	3	High	3
Flood	2	2	2	3	High	4
Transportation Accident	1	3	2	2	Moderate	5
Water Supply Contamination	3	3	2	1	High	6
Fire	1	3	2	2	Moderate	7
Dam Failure	1	3	2	1	Moderate	8
Radiological Fixed	2	3	2	1	Moderate	9

3.2. Critical Facilities

Critical facilities are defined as any facility that is critical for emergency response or that requires special emergency response in the event of hazardous incidents as identified by the Village of Mexico. The tables below denote the number and locations of critical facilities within the Town.

Facility Name	Address (Street, Town/Town/Hamlet)	Parcel Located in Floodplain	Structure Located in Floodplain
Transportation Network			
Evacuation Routes	-	-	-
Bridges	-	-	-
Public Utilities			
Verizon property	5727 NY-3, Mexico, NY 13114	No	No
Village Sewage Pump Station	21 Academy St, Mexico, NY 13114	100YR, 500YR	500YR
Village Water Tank	NY-104	No	No
Municipal Services			
Mexico WWTP	97 Academy St, Mexico, NY 13114	100YR, 500YR	500YR
Town Hall	64 N Jefferson St, Mexico, NY 13114	No	No
Village Hall	3236 Main St, Mexico, NY 13114	100YR, 500YR	No
Village Highway Garage	99 Academy St, Mexico, NY 13114	No	No
NYSDOT Highway Garage	5855 Scenic Ave, Mexico, NY 13114	No	No

Table 2: Critical Infrastructure in the Village of Mexico			
Facility Name	Address (Street, Town/Town/Hamlet)	Parcel Located in Floodplain	Structure Located in Floodplain
Community Services			
Mexico Community Park	off of NY-104	No	No
U.S. Post Office	5640 Norman Ave, Mexico, NY 13114	No	No
Emergency and Medical Services			
Mexico Volunteer Fire Dept.	3284 Main St, Mexico, NY 13114	No	No
Harbor Lights Chemical Dependency	111 Hamilton St, Mexico, NY 13114	No	No
McFee Ambulance Service, Inc.	52 Watson Ave, Mexico, NY 13114	No	No
Educational, Shelter and Evacuation Facilities			
Mexico Elementary School	26 Academy St, Mexico, NY 13114	100YR, 500YR	100YR, 500YR
Mexico High School	3338 Main St, Mexico, NY 13114	100YR, 500YR	100YR, 500YR
Mexico Middle School	16 Fravor Rd, Mexico, NY 13114	100YR, 500YR	No
Dams			
Village of Mexico Dam	3236 Main St, Mexico, NY 13114	-	-

4.0 Priority Hazard Events

The following sections detail the priority hazard events identified by the jurisdiction. Additional information about County-selected hazards including frequency, history, and severity is included within Section 5.0 of the main body of the Plan.

The probability of climate-related hazard events is expected to increase in the future within the Village of Mexico. Climate change is expected to cause an increase in weather volatility, rising sea level, and greater temperature extremes. Properties along the Little Salmon River and its tributaries, and tributaries to Sage Creek are likely to experience increased flooding occurrences.

Past occurrences of hazard events are indicated in their respective profiles below. Some hazards may not have locally available documentation of past occurrence, but were included in this annex for future mitigation planning consideration.

4.1 Natural Hazards

Natural hazards selected to be profiled for the Village of Mexico are described in detail below.

4.1.1 Ice Storm

For a description of this hazard, please see Section 5.1.3 of the main body of the plan.

Hazard Vulnerability

Historically, ice storms have occurred about once every seven years in Oswego County. These storms typically affect most or all of the County. The entire Village of Mexico is highly vulnerable to damages from an ice storm event due to this hazard's large extent, high damage potential, and moderate frequency.

Historical Hazard Occurrences and Damage Estimates

The Village of Mexico was affected by the three (3) county-wide ice storm events recorded by the NCDC, which are described in Section 5.1.3 of the main body of the Plan. No damage estimates or records related to ice storms are reported specifically for the Village of Mexico. Ice storms have the potential to cause hundreds of thousands of dollars in property damages, and can lead to cascading events such as transportation accidents that can cause serious injuries or loss of life.

Future Potential Impacts

The Village of Mexico will continue to experience ice storm events in the future, as will the rest of Oswego County. The Village Dept. of Public Works completes tree maintenance within Village road right of ways to minimize potential damages to overhead utility lines, which is common during ice storms. Private utility right of ways are generally maintained by the individual utility companies.

4.1.2 Severe Thunderstorm, Wind, or Tornado

For a description of this hazard, please see Section 5.1.1 of the main body of the Plan.

Hazard Vulnerability

The entire Village is highly vulnerable to damages from a severe thunderstorm, wind, or tornado event due to this hazard's wide extent, high damage potential, and moderate frequency. Fallen trees from severe winds can damage overhead utility lines, resulting in power outages. In addition, these events are likely to result in damages to private and public infrastructure and property.

Historical Hazard Occurrences and Damage Estimates

There are no specific severe storm records for the Village of Mexico, but the Village was impacted by events reported for the County as well as the Town of Mexico. In addition to the 101 severe storm events reported within Oswego County, the NCDC reports thirteen (13) specific severe storm events that occurred in the Town of Mexico from 1993 to 2017 (frequency of about once every 2 years) (Table 3). Eleven (11) of these records were thunderstorm winds, one (1) hail, and one (1) a tornado event. The estimated property damages ranged from \$8,000 to \$50,000 (Table 5). No crop damages were reported by the NCDC, though they likely occurred. Actual damages were likely greater than those estimated by the NCDC.

Event Type	Date	Magnitude	Estimated Property Damage	Estimated Crop Damage
Thunderstorm Wind	8/2/1993	-	\$50,000	-
Tornado	8/2/1993	F0	\$50,000	-
Thunderstorm Wind	7/25/1996	-	\$8,000	-
Thunderstorm Wind	8/23/1998	-	\$8,000	-
Thunderstorm Wind	7/4/2003	50 kts	\$10,000	-
Thunderstorm Wind	8/29/2003	52 kts	\$10,000	-
Thunderstorm Wind	8/5/2012	52 kts	\$10,000	-
Thunderstorm Wind	6/17/2014	50 kts	\$15,000	-
Thunderstorm Wind	5/30/2015	50 kts	\$15,000	-
Thunderstorm Wind	8/13/2016	50 kts	\$10,000	-
Hail	5/18/2017	2.5 inches	-	-
Thunderstorm Wind	8/22/2017	50 kts	\$20,000	-
Thunderstorm Wind	10/15/2017	50 kts	\$15,000	-
Total			\$221,000	-

Future Potential Impacts

Severe storms are a common event in the Village of Mexico and will continue to occur in the future. The frequency and magnitude of severe storm events may be increased due to climate change.

4.1.3 Severe Winter Storm

For a description of this hazard, please see Section 5.1.4 of the main body of the plan.

Hazard Vulnerability

Severe winter storms typically occur about eleven (11) times annually in Oswego County. These storms typically affect most or all of the County. The entire Village of Mexico is highly susceptible to a severe winter storm event due to this hazard's wide extent, moderate damage potential, and common occurrence. The Village Dept. of Public Works clears Village streets during heavy snow events, and the Village works with the Town Highway Dept., Oswego County Highway Dept., and NYS Dept. of Transportation for clearing of other roadways. Roadway safety is a major concern during severe winter storm events.

Historical Hazard Occurrences and Damage Estimates

The Village of Mexico has been affected by a number of county-wide severe winter storm events, described in Section 5.1.4 of the main body of the Plan. Severe winter storms typically occur several times annually in Oswego County. These storms typically affect most or all of the County. The NCDC does not report any winter storm records or damage estimates specific to the Village of Mexico. Severe winter storms can cause tens to hundreds of thousands of dollars in property damages, and commonly lead to cascading events such as transportation accidents, which can cause serious injuries and loss of life.

Future Potential Impacts

The Village of Mexico will continue to experience severe winter storm events in the future. Severe winter storms are common throughout Oswego County and occur about eleven (11) times annually.

4.1.4 Flood

For a description of this hazard, please see Section 5.1.2 of the main body of the Plan.

Hazard Vulnerability

The Village of Mexico is generally drained by the Little Salmon River, a tributary to Lake Ontario. FEMA's Flood Insurance Mapping Program designates areas that are at risk for flooding. Low flood risk are areas unlikely to flood, moderate risk are areas within the 500-year floodplain (0.2% likely to flood in any given year), and high risk are areas that frequently flood, up to the 100-year flood risk zone (1% likely to flood in any given year). Table 4 summarizes the amount of land within the Village of Mexico that is located within 100-year and 500-year floodplains and low-risk flood areas.

Table 4: Summary of Areas in Floodplains (Source: FEMA DFIRM 2013)			
Village of Mexico Total Area	Percent of Total Area		
	100-Year Floodplain	500-Year Floodplain	Area of Minimal Flood Hazard
1,378 acres	11.56%	1.02%	87.42%

Table 5 below summarizes the value of properties in the Village of Mexico that are located within the 100-year floodplain and is categorized by land use type. This table was derived from FEMA floodplain mapping and parcel data from the Oswego County Real Property Tax Office.

Table 5: Parcels within to 100-year Flood Events and Their Estimated Structure Values				
Type of Structure	# Parcels in 100-Year Floodplain	Approx. Structure Value* in 100-Year Floodplain	# Parcels in 500-Year Floodplain	Approx. Structure Value* in 500-Year Floodplain
Agricultural	0	-	0	-
Commercial	13	\$4,333,400	13	\$4,333,400
Community Services	10	\$24,811,300	10	\$24,811,300
Industrial	1	\$98,700	1	\$98,700
Residential	79	\$6,755,900	82	\$6,981,600
Utility	3	\$8,619,782	3	\$8,619,782
Other**	26	\$88,600	29	\$97,300
Total	132	\$44,707,682	138	\$44,942,082

*Structure Value estimated by subtracting parcel's Land Assessed Value from Total Assessed Value (Oswego County Real Property Tax Office, 2018)
 **Includes parcels classified as vacant; recreational; and wild forest/conservation land/parks.

Historical Hazard Occurrences and Damage Estimates

According to NOAA’s Storm Events Database, there are no flood records noted to specifically impact the Village of Mexico. The Town of Mexico was impacted by flooding on September 30, 2010 which involved heavy precipitation (3.2 inches fell overnight). This heavy rainfall caused several road closures in the Town of Mexico and may have also impacted the Village. The NCDC estimated total damages for this event to be \$16,000. In addition, the Village experiences flooding issues due to beaver dams located in the Town of Mexico. The beaver dams have caused flooding and damages to Village roadways and private properties in the past, specifically between Pumhouse Road and State Route 69.

As described in Section 6.0 of this annex, six (6) NFIP loss claims have been paid as of November 2017 in the Village of Mexico totaling \$9,315.91. There are no repetitive loss

properties in the Village of Mexico. The Town has also been impacted by numerous county-wide events described in Section 5.1.2 of the main body of the Plan.

Future Potential Impacts

Properties along the Little Salmon River and its tributaries, as well as tributaries to Sage Creek, are vulnerable to flooding. Multiple critical facilities are located on parcels that intersect the 100-year and/or 500-year floodplain, but most of the structures themselves are outside of a mapped floodplain (Table 2, pg. 3-4). The following critical facilities have structures that are located in a mapped floodplain:

- Village Sewage Pump Station- 21 Academy St, Mexico, NY 13114
- Mexico WWTP- 97 Academy St, Mexico, NY 13114
- Mexico Elementary School- 26 Academy St, Mexico, NY 13114
- Mexico High School- 3338 Main St, Mexico, NY 13114

The sewage pump station on Academy St is not currently flood proofed.

4.2 *Technological Hazards*

Technological hazards selected to be profiled by the Village of Mexico are described in detail below.

4.2.1 Transportation Accident

Hazard Vulnerability

For the purposes of hazard mitigation, a transportation accident is defined as an accident on land, water, or in the air resulting in mass casualties or a substantial loss of property. The Village of Mexico contains two (2) major transportation routes (State Route 104 and State Route 3). State Route 104 runs east to west through the southern portion of the Village. State Route 3 runs north to south in the western half of the Village. These roadways are heavily travelled and there is potential for major accidents to occur, especially as a result of poor road conditions during a winter storm or ice storm. A transportation accident on any of these routes has the potential to impact a portion of the Village of Mexico.

Historical Hazard Occurrences and Damage Estimates

While minor vehicular accidents are relatively common throughout the County, there are no specific records of major transportation accidents in the Village of Mexico (accidents

involving mass casualties or substantial loss of property). The Village elected to profile this hazard due to the increased risk of this hazard occurring along major transportation routes.

Future Potential Impacts

Major transportation accidents are infrequent, but the Village remains susceptible to future incidents along major transportation routes, particularly as a result of natural hazards such as a severe winter storm or ice storm. Transportation accidents do not pose a large risk to infrastructure, however, they are likely to cause injuries or loss of life. Maintaining roadway safety and clearly designating evacuation routes can aid in prevention of transportation accidents.

4.2.2 Water Supply Contamination

Hazard Vulnerability

The Village of Mexico would be highly vulnerable to water supply contamination due to the moderate extent, fast onset, and moderate damage or injury potential for this hazard. The Village of Mexico has a municipal water system that serves all Village residents. The system is supplied by groundwater wells located in the Village. While unlikely, contamination could be caused due to improper treatment or localized groundwater contamination, particularly due to flooding. Water supply contamination could also result from terrorism. The Village's existing water system is aging and is in need of significant upgrades. The Village received grant funding in September 2018 from the U.S. Dept. of Agriculture Rural Development, which will be used to conduct an engineering study to assess upgrade alternatives for the water system.

Historical Hazard Occurrences and Damage Estimates

There are no historical records or damage estimates for water supply contamination in the Village of Mexico. However, if this event were to occur, it has the potential to cause a moderate number of injuries or potentially loss of life.

Future Potential Impacts

The Town is susceptible to a water supply contamination event, but the risk is relatively low.

4.2.3 Fire

Hazard Vulnerability

The Village of Mexico had a moderate vulnerability ranking for fires. These events tend to be more localized, affecting one (1) to several structures at a time. However, there is little to no warning and substantial structural damages and injuries or deaths are likely to occur. The

southwestern portion of the Village, which is most densely developed, would be the most vulnerable to a fire.

Historical Hazard Occurrences and Damage Estimates

Structural fires occur occasionally within the Village. A house fire in October 2015 resulted in substantial property damages and one (1) person was sent to the hospital.

Future Potential Impacts

The Village of Mexico has pockets of dense development, particularly within the southwestern portion of the Village, and remains susceptible to structure fires.

4.2.4 Dam Failure

Hazard Vulnerability

Dam failures can be attributed to natural or man-made hazards. The impoundment of large volumes of water poses a threat; the failure of a dam can lead to catastrophic flooding.

The New York State Department of Environmental Conservation (NYSDEC) maintains a database to classify dams based on the event of a failure. Explanations of dam classifications are noted in Table 5.13 (Appendix A of the main body of the plan).

The Village of Mexico contains two (2) dams on the Little Salmon River (Little Salmon Dam and Awes Mill Dam), and one (1) dam on Black Creek (Youngs Mill Dam). All three (3) are Class A, low-hazard dams.

Historical Hazard Occurrences and Damage Estimates

There are no records of dam failures occurring in the Village of Mexico. The Village elected to include this hazard due to the potential for moderate flood damages to occur should any of the three (3) dams fail, particularly the Little Salmon Dam near the Village Offices.

Future Potential Impacts

Should any of the dams within the Village fail, properties immediately downstream of the dam would be susceptible to flooding.

4.2.5 Radiological Fixed

Hazard Vulnerability

A fixed-site radiological incident could occur at the Exelon Fitzpatrick Nuclear Power Plant or Ninemile Point Nuclear Power Plant which are located in the Town of Scriba, which is approximately six (6) miles west of Mexico. An accident at either nuclear plant would affect residents in the Village of Mexico.

Historical Hazard Occurrences and Damage Estimates

There are no available records for radiological fixed site events in the Village of Mexico or Oswego County. The Village elected to profile this hazard due to the nearby nuclear power plants and potential for numerous injuries or loss of life to occur.

Future Potential Impacts

The Village remains susceptible to radiological fixed-site events, though the risk is low.

5.0 Capability Assessment

5.1 *Planning and Regulatory Capability*

The Village’s HMP update will be incorporated into and referenced by future updates of the plans, policies, ordinances, programs, studies, and reports listed in Table 6, below.

Table 6. Planning Mechanisms and Capabilities		
Planning Mechanism	Village of Mexico	Notes
Plans		
Post-disaster Recovery Plan	X	In place.
Watershed Protection Plan	X	In place.
Comprehensive Emergency Management Plan	X	In place.

Table 6. Planning Mechanisms and Capabilities		
Planning Mechanism	Village of Mexico	Notes
Policies/Ordinances		
Building Codes	<ul style="list-style-type: none"> • 2010 Residential Code of NYS • 2010 Fire Code of NYS • 2010 Building Code of NYS • 2010 Existing Building Code of NYS • 2010 Energy Conservation Construction Code of NYS • 2010 Plumbing Code of NYS • 2010 Mechanical Code of NYS • 2010 Fuel Gas Code of NYS 	Town Code Enforcement Officer
Zoning or Land Use Codes	X	Last updated in 2005.
Property Set-back Ordinance	X	In zoning.
Flood Regulations	X	Adopted.
Site Plan Review Requirements	X	Village Planning Board responsible
Real Estate Disclosure Requirement	X	In place.
Programs		
NFIP Participant	X	Current participant.
Public Education/Awareness Program	X	Fire Dept. responsible
Stream Maintenance Program	X	Dept. of Public Works responsible
Storm Drainage Maintenance Program	X	Dept. of Public Works responsible
Mutual Aid Agreements	X	Agreements with Town of Mexico
Studies/Reports		
Hazard Analysis/Risk Assessment	X	2012 Oswego County Hazard Mitigation Plan
Floodplain Maps and/or Studies	X	2013 FEMA Digital Flood Insurance Rate Maps
Staff/Development		
Building Code Official	X	Code Enforcement Officer
Local Floodplain Administrator	X	Code Enforcement Officer
Public Information Official	X	Town Supervisor

5.2 Emergency Communications, Routes, and Shelters

The Village of Mexico, along with Oswego County, utilize the HyperReach emergency communications system. Major transportation routes within the Village include State Route 104 and State Route 3. The Village of Mexico has four (4) established emergency shelters that it shares with the Town of Mexico:

- Mexico High School- 3338 Main St, Mexico, NY 13114
- Mexico Middle School- 16 Fravor Rd, Mexico, NY 13114
- Mexico Elementary School- 26 Academy St, Mexico, NY 13114
- Mexico VFW- 5930 Scenic Ave, Mexico, NY 13114

All of the Village's schools are ADA-compliant and can accommodate people with special needs. There are currently no pet sheltering accommodations at the Village's shelter locations.

5.3 Temporary and Permanent Housing Locations

The potential temporary and permanent housing locations listed below were identified for displaced residents in the Village of Mexico based on the 2017 NYS Hazard Mitigation Planning Standards. It is noted that formal agreements would need to be established in order to use privately-owned properties.

- **Potential Temporary Housing Locations**
 - Mexico High School Athletic Fields- 3338 Academy St, Mexico, NY 13114
 - Mexico Middle School Athletic Fields- 16 Fravor Rd Mexico, NY 13114
- **Potential Permanent Housing Locations (shared with Town of Mexico)**
 - Vacant land adjacent to Highway Garage- off of NY-104, Mexico, NY
 - Mexico Community Park- off of NY-104, Mexico, NY
 - Mexico Point State Park- 120 Mexico Point Dr, Mexico, NY 13114

6.0 National Flood Insurance Program

Long-term mitigation of potential flood impacts can be best achieved through comprehensive floodplain management regulations and enforcement at a local level. The National Flood Insurance Program (NFIP), regulated by FEMA, aims to reduce the impact of flooding on private and public structures by providing affordable insurance for property owners. The program encourages local jurisdictions to adopt and enforce floodplain management regulations in order to mitigate the potential effects of flooding on new and existing infrastructure (FEMA, 2015).

Communities that participate in the NFIP adopt floodplain ordinances. If an insured structure incurs damage costs that are over 50% of its market value, the owner must comply with the local floodplain regulations when repairing or rebuilding the structure. A structure could be rebuilt at a higher elevation, or it could be acquired and demolished by the municipality or relocated outside of the floodplain. Insured structures that are located within floodplains identified on FEMA's Flood Insurance Rate Maps (FIRMs) may receive payments for structure and content losses if impacted by a flood event.

The NFIP and other flood mitigation actions are important for the protection of public and private property and public safety. Flood mitigation is valuable to communities because it:

- Creates safer environments by reducing loss of life and decreasing property damage;
- Allows individuals to minimize post-flood disaster disruptions and to recover quicker (homes built to NFIP standards generally experience less damage from flood events, and when damage does occur, the flood insurance program protects the homeowner’s investment); and
- Lessens the financial impacts on individuals, communities, and other involved parties (FEMA, 2015).

The Village of Mexico participates in the NFIP and has one (1) flood insurance policy in force as of November 30, 2017, which includes \$175,000 of insurance coverage. Nine (9) NFIP claims have been filed to date in the Village, all of which are closed. Three (3) were closed without payment, and the remaining six (6) totaled \$ 9,315.91 in payments. There are no repetitive loss properties in the Village of Mexico.

The Village’s Code Enforcement Officer serves as the Local Floodplain Administrator, and flood maps are available for viewing and copying at the Village Hall (3236 Main Street, Mexico, NY 13114). The Village has been maintaining NFIP participation by performing the duties and actions that were listed in the local laws adopted by the Village Board. The Village will continue to comply with the NFIP by enforcing floodplain management requirements and regulating new development in Special Flood Hazard Areas, in addition to other required duties.

7.0 Mitigation Strategy and Prioritization

7.1 Past, Completed, and Ongoing Initiatives

The Village has completed several mitigation projects since the publication of the previous Oswego County HMP. The Village and Town successfully enforced their zoning code to mitigate potential HAZMAT concerns at a propane warehouse (the warehouse was located just on the edge of the Town and Village). The Town proposed one (1) mitigation action in the 2012 Oswego County HMP. The details and status of this action are summarized below in Table 6. In addition, the Village completed improvements to the VFW building in 2018-2019 in order to enhance the facility’s emergency sheltering capacity.

Table 6. 2012 Hazard Mitigation Actions Village of Mexico				
Proposed Mitigation Action	Hazard(s) Mitigated	2012 Goals & Objectives Met	Implementing Agency	Status
Enforce zoning regulations in Town/Village of Mexico (Propane warehouse)	Hazmat (fixed site)	3-a, 4-a, 4-b	Town and Village of Mexico code enforcement official	Complete- the Town and Village successfully enforced existing zoning regulations related to the propane warehouse. This facility is no longer in operation.

7.2 Proposed Mitigation Actions

The Village proposed five (5) mitigation actions for the plan update and is actively progressing them. The Village purchased a new municipal vehicle that is used to clear sidewalks of snow and ice (part of V-Mexico 1), and has extended sanitary sewer service to the Mexico VFW (part of V-Mexico 3).

Table 7. 2018 Proposed Mitigation Actions Village of Mexico									
Action ID	Mitigation Action	Hazard(s) Mitigated	Implementing Agencies (Lead* & Support)	Planning Mechanism	Timeframe	New or Existing Development	Estimated Cost	Funding Source(s)	Priority
V-Mexico 1	Coordinate with the Town of Mexico regarding beaver dam removal and maintenance	Flood	Village DPW Superintendent	DPW Improvements Plan	1 year	Existing	\$5,000	Village budget	1 (High)
V-Mexico 2	Provide backup power for the Village Hall	Severe Storm, Severe Winter Storm, Ice Storm	Village DPW Superintendent	Comprehensive Emergency Management Plan	1 year	Existing	\$15-30K	FEMA- PDM; USDA-RD- Community Facilities Grant	2 (High)
V-Mexico 3	Sidewalk rehabilitation along NY-104 & DPW equipment upgrades (salting equipment)	Ice Storm, Severe Winter Storm	Village DPW Superintendent*; NYSDOT; Town Highway Dept	DPW Improvements Plan	3-5 years	Existing	\$250K	NYSDOT- STIP/TEP; USDA-RD- Community Facilities Grant	3 (High)
V-Mexico 4	Establish emergency signage for roadways	Severe Winter Storm	Village DPW Superintendent*, NYSDOT	Village Comprehensive Emergency Management Plan	3-5 years	Existing	\$100-150K	FEMA- PDM; NYSDOT- STIP	4 (High)
V-Mexico 5	Develop and distribute property resilience brochure to all Village residents	Severe Thunderstorm/ Wind/Tornado, Flooding, Severe Winter Storm, Ice Storm	Mayor	Comprehensive Emergency Management Plan	1 year	Existing	\$500-2,000	Village budget	5 (Low - Medium)
Potential Funding Sources FEMA PDM: https://www.fema.gov/pre-disaster-mitigation-grant-program FEMA HMGP: https://www.fema.gov/hazard-mitigation-grant-program NYSDOT STIP: https://www.dot.ny.gov/programs/stip NYSDOT TEP: https://www.dot.ny.gov/programs/tep USDA-RD Community Facilities Grant: https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program									

7.3 Cost-Benefit Analysis

Each of the Village's proposed mitigation actions were evaluated and prioritized using the STAPLEE cost-benefit analysis. The Village's STAPLEE worksheet is provided in Attachment B. The STAPLEE analysis includes the following lenses of evaluation: social, technological, administrative, political, legal, economic, and environmental.









8.0 Works Cited

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<https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>

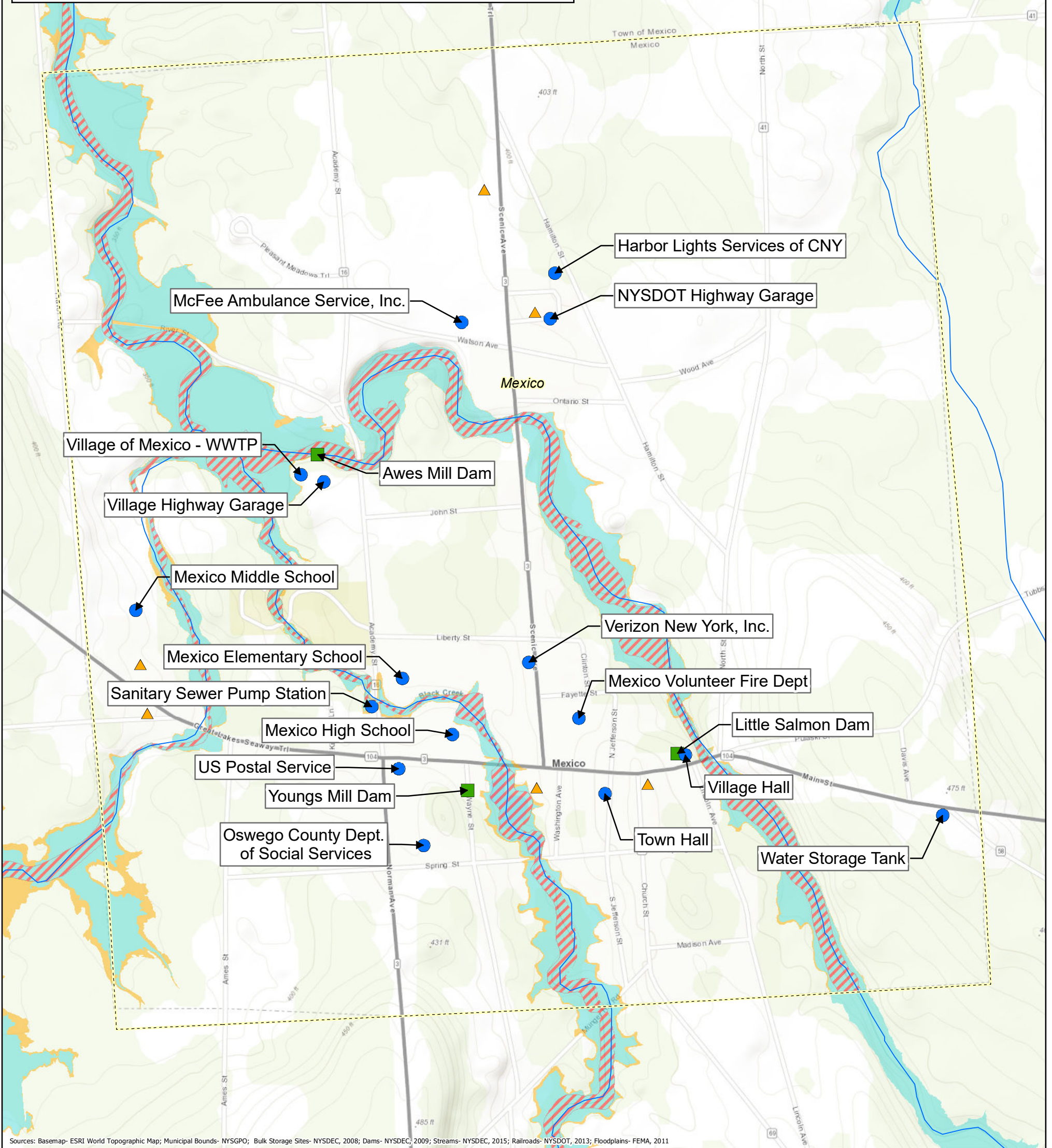
Figure 1
Hazard Area Extent and Location Map –
Village of Mexico

Legend

-  Municipal Boundaries
-  FEMA 100-Year Floodplain
-  FEMA 100-Year Floodplain-Floodway
-  FEMA 500-Year Floodplain
-  Streams
-  Active Railroads
-  Critical Facilities
-  NYSDEC Bulk Storage Facilities

Dams

-  Class A (Low Hazard)
-  Class B (Intermediate Hazard)
-  Class C (High Hazard)



Sources: Basemap- ESRI World Topographic Map; Municipal Bounds- NYSGPO; Bulk Storage Sites- NYSDEC, 2008; Dams- NYSDEC, 2009; Streams- NYSDEC, 2015; Railroads- NYSDOT, 2013; Floodplains- FEMA, 2011

Attachment A

**Mitigation Action Worksheets –
Village of Mexico**

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Village of Mexico
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Mitigation Action Worksheet

Project Name:	Coordinate with the Town of Mexico regarding beaver dam removal and maintenance
Project Number:	Mexico Village 1

Risk/Vulnerability

Hazard of Concern:	Flood
Description of the Problem:	Beaver dams in the Town of Mexico lead to flooding issues in the Village, particularly between Pumphouse Rd and Route 69, causing damage to Village infrastructure.

Action of Project Intended for Implementation

Description of the Solution:	Coordinate with the Town of Mexico and NYSDEC regarding maintenance and removal of beaver dams to prevent flooding. Follow up maintenance with regular inspections and monitoring.
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Is this project related to a Critical Facility? Yes No

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	High	Estimated Benefits (losses avoided):	Decrease risk of damages to Village infrastructure and private properties caused by beaver dam flooding.
Useful Life:	Short-term (ongoing coordination)		
Estimated Cost:	\$5,000		

Plan for Implementation

Prioritization:	High (#1)	Desired Timeframe for Implementation:	1 year
Estimated Time Required for Project Implementation:	6 months to set up program, then ongoing	Potential Funding Sources:	Village budget
Responsible Organization:	DPW Superintendent	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Plan

Three Alternatives Considered (Including No Action)

	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Risk of flood damages to Village infrastructure remains.
	Trap/relocate beavers	\$1,000	Private property restrictions; beavers may return in the future so problems may persist
	Coordinate with Town of Mexico and NYSDEC re: beaver dam maintenance and monitoring plan	\$5,000	More comprehensive approach to protect public and private property from flood damages

Progress Report (for Plan Maintenance)

Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Village of Mexico
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Mitigation Action Worksheet

Project Name:	Provide backup power for the Village Hall
Project Number:	Mexico Village 2

Risk/Vulnerability

Hazard of Concern:	Severe Storm, Severe Winter Storm, Ice Storm
Description of the Problem:	The Village Hall currently lacks a source of backup power. The Village Hall is a potential emergency shelter location and an emergency operations center.

Action of Project Intended for Implementation

Description of the Solution:	Install generator at Village Hall to ensure continuity of operations and provide additional shelter for Village residents during a hazard event.
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Is this project related to a Critical Facility? Yes No

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	Medium to High	Estimated Benefits (losses avoided):	Ensure continuity of critical operations and emergency shelter availability during a power outage.
Useful Life:	Long-term		
Estimated Cost:	\$15,000 to \$30,000		

Plan for Implementation

Prioritization:	High (#2)	Desired Timeframe for Implementation:	1 year
Estimated Time Required for Project Implementation:	3 months	Potential Funding Sources:	FEMA- PDM; USDA-RD-Community Facilities Grant
Responsible Organization:	DPW Superintendent	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Emergency Management Plan

Three Alternatives Considered (Including No Action)

	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Village Hall has potential to lose power during a hazard event.
	Purchase portable generator to be shared between multiple Village facilities.	\$8,000	One facility still potentially unable to continue operations during power outage.
	Install permanent generator at the Village Hall.	\$35,000	Maximum protection for continuity of critical operations.

Progress Report (for Plan Maintenance)

Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Village of Mexico
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Mitigation Action Worksheet

Project Name:	Sidewalk rehabilitation along NY-104 & DPW equipment upgrades (salting equipment)
Project Number:	Mexico Village 3

Risk/Vulnerability

Hazard of Concern:	Ice Storm, Severe Winter Storm
Description of the Problem:	Existing equipment lacks capability for full salting/ice melt materials. Safety concern for school children walking to school along state routes (many kids have to walk- bussing is limited).

Action of Project Intended for Implementation

Description of the Solution:	Upgrade or replace existing equipment and replace deteriorated sidewalks (increase width to 5 feet).
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Is this project related to a Critical Facility? Yes _____ No X

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	High	Estimated Benefits (losses avoided):	Provide safer pedestrian accommodations during severe weather events.
Useful Life:	Long-term		
Estimated Cost:	\$250,000		

Plan for Implementation

Prioritization:	High (#1)	Desired Timeframe for Implementation:	3-5 years
Estimated Time Required for Project Implementation:	2-5 years	Potential Funding Sources:	NYSDOT- STIP/TEP; USDA-RD-Community Facilities Grant
Responsible Organization:	Village DPW Superintendent	Local Planning Mechanisms to be used in Implementation, if any:	DPW Improvements Plan

Three Alternatives Considered (Including No Action)

	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	No change - lack pedestrian safety
	Sidewalk rehab only	\$100,000	Ongoing effort to improve safe pedestrian travel within the Village, but no change in de-icing capabilities (needed during ice or winter storm events)
	Sidewalk rehab and purchase/upgrade DPW equipment	\$250,000	Better pedestrian access and allow Town to maintain safer sidewalk/road conditions during ice or winter storm events.

Progress Report (for Plan Maintenance)

Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Village of Mexico
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Mitigation Action Worksheet

Project Name:	Establish emergency signage for roadways
Project Number:	Mexico Village 4

Risk/Vulnerability

Hazard of Concern:	Severe Winter Storm, Severe Storm
Description of the Problem:	The Village lacks emergency notification signage to use when dangerous road conditions are present. The public may be uninformed on conditions and potential alternate routes.

Action of Project Intended for Implementation

Description of the Solution:	Implement automatic speed signage and virtual message boards to allow for notification of dangerous conditions and detours.
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Is this project related to a Critical Facility? Yes _____ No X

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	High	Estimated Benefits (losses avoided):	Improved public safety- more widespread communication re: dangerous conditions and how to avoid them
Useful Life:	10 years		
Estimated Cost:	\$150,000		

Plan for Implementation

Prioritization:	High (#4)	Desired Timeframe for Implementation:	3-5 years
Estimated Time Required for Project Implementation:	5 years	Potential Funding Sources:	FEMA- PDM; NYSDOT- STIP
Responsible Organization:	Village DPW Superintendent	Local Planning Mechanisms to be used in Implementation, if any:	Village Comprehensive Emergency Management Plan

Three Alternatives Considered (Including No Action)

	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Public notification of hazardous road conditions remains an issue.
	Implement signage on NY-104 near I-81 only	\$75,000	Public is better informed as they exist I-81 into the Village, but other locations remain uninformed.
	Implement signage at multiple locations along main roads throughout Village	\$150,000	Maximum benefit- reach more residents travelling in different directions/different routes.

Progress Report (for Plan Maintenance)

Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Village of Mexico
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Mitigation Action Worksheet

Project Name:	Develop and distribute property resilience brochure to all Village residents
Project Number:	Mexico Village 5

Risk/Vulnerability

Hazard of Concern:	Severe Thunderstorm/Wind/Tornado, Flooding, Severe Winter Storm, Ice Storm
Description of the Problem:	Many residents throughout Oswego County, including the Village of Mexico, may lack knowledge regarding how to make their properties more resilient to flooding and storm events. Storm damages could be minimized or avoided if residents had access to practical methods for hardening their properties.

Action of Project Intended for Implementation

Description of the Solution:	Modify County-wide property resiliency brochure to include additional information regarding Village codes, contact information, and other Village-specific information. Distribute the brochure to each Village resident, either by mailing or making the document available on the Village website and at the Village Hall.
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Is this project related to a Critical Facility? Yes No

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	Low to Medium	Estimated Benefits (losses avoided):	Village residents would be better informed about ways to protect their properties during flooding and storm events, which would help to lessen property damages in the future.
Useful Life:	Long-term		
Estimated Cost:	\$500-2,000		

Plan for Implementation

Prioritization:	Low	Desired Timeframe for Implementation:	1 year
Estimated Time Required for Project Implementation:	3 months	Potential Funding Sources:	Village budget
Responsible Organization:	Village Mayor	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Emergency Management Plan

Three Alternatives Considered (Including No Action)

	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	No change in public awareness regarding property resilience.
	Distribute property resiliency brochure developed by Oswego County	\$500-2,000	Partial solution. The property resiliency techniques likely would be the same as those identified for the County, but this option lacks Village-specific information.
	Distribute Oswego County property resiliency brochure modified with Village-specific information	\$500-2,000	Most comprehensive approach, gives Village residents more complete information regarding Village-specific codes and contacts.

Progress Report (for Plan Maintenance)

Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Attachment B

**STAPLEE Table –
Village of Mexico**

STAPLEE Criteria Consideration Table
Mitigation Action Prioritization and Comparison

Jurisdiction Village of Mexico

Action ID	Action	S	T	A	P	L	E	E	Can action be easily implemented?	Does action achieve multiple plan objectives?	Can action be quickly implemented?	Level of action benefits	Level of action overall costs	Priority ranking
		+ = Benefit (favorable), - = Cost (unfavorable), 0 = Neutral or N/A												
V-Mexico 1	Coordinate with the Town of Mexico regarding beaver dam removal and maintenance	+	+	+	+	-	+	+	-	+	+	High	Low	High (#1)
V-Mexico 2	Provide backup power for the Village Hall	+	+	+	+	+	0	0	+	+	+	Med-High	Low	High (#2)
V-Mexico 3	Sidewalk rehabilitation along NY-104 & DPW equipment upgrades (salting equipment)	+	0	+	+	+	-	0	+	+	0	High	Med	High (#3)
V-Mexico 4	Establish emergency signage for roadways	+	-	-	+	-	-	0	-	+	-	High	High	Med (#4)
V-Mexico 5	Develop and distribute property resilience brochure to all Village residents	+	+	+	+	+	+	0	+	+	+	Low-Med	Low	Low (#5)