

City of Fulton

Jurisdictional Annex

City of Fulton

1.0 Contacts

The contacts for the City of Fulton regarding this plan were identified as follows:

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2.0 Municipal Profile

Population

The 2016 American Community Survey estimated that 11,622 people live in the City of Fulton. The City's population has decreased since the 2000 Census population (11,855) by 2% (U.S. Census Bureau, 2016).

Location

The City of Fulton is located in the southwestern portion of Oswego County and is bordered by the Town of Granby to the south, west, and north, and the Town of Volney to the north and east. The Oswego River flows through the center of the City. State Routes 3, 48, and 481 provide direct access to the City.

Brief History

The City of Fulton was incorporated in 1902, merging the Villages of Fulton and Oswego Falls. The City is located on the Oswego River and was named after the inventor of the steamboat, Robert Fulton. Early industry within the City included paper mills, American Textile, Foster Brothers Knife Works, a stone quarry, Hunter Arms, Sealright, Oswego Falls Corp (now Huhtamaki), and others. A historic fire in 1851 destroyed the area's business district. The first chocolate manufacturing plant (Nestlé) was constructed in 1908 and operated until 2003 (Strong and Allen, 2016).

Governing Body

The City of Fulton is governed by a seven (7) member City Council, led by the Mayor.

Future Growth

The City of Fulton's has a Downtown Revitalization Initiative. As part of this plan, the City is seeking to "attract new business investment, housing, and commercial uses" without disrupting the City's manufacturing capabilities. Since the 2012 County HMP, Aldi, a grocery store chain, built a new store at the site of the former Nestle plant. The store opened in December 2017. The parcel on which the store was constructed is not within a 100-year or 500-year floodplain. No other significant new developments have occurred in the City since 2012.

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

Table 1: Hazard Vulnerability by Event						
Hazard Event	Extent	Onset	Impact (Damages and Injury)	Frequency	Vulnerability Rank	Jurisdiction Rank
Ice Storm	3	1	3	2	High	1
Severe Winter Storm	3	1	2	3	High	2
Fire	1	3	2	2	Moderate	3
Utility Failure	3	3	1	1	Moderate	4
Water Supply Contamination	3	3	2	1	High	5
Severe Thunderstorm, Wind, or Tornado	3	1	3	3	High	6
Tornado	2	1	2	1	Moderate	7
Terrorism	2	3	2	1	Moderate	8
Explosion	1	3	2	1	Moderate	9
Structural Collapse	1	3	2	1	Moderate	10
Flood	2	2	2	1	Moderate	11
Infestation	1	1	1	1	Low	12
HAZMAT Transit	2	3	2	1	Moderate	13
Ice Jam	1	1	2	1	Low	14
Transportation Accident	1	3	2	3	High	15
Civil Unrest	1	2	1	1	Low	16
Oil Spill	1	3	2	1	Moderate	17
Epidemic	2	1	2	1	Moderate	18
HAZMAT Fixed	2	3	2	1	Moderate	19
Radiological Transit	2	3	2	1	Moderate	20
Radiological Fixed	1	3	2	1	Moderate	21
Extreme Temps	3	1	1	2	Moderate	22
Landslide	1	3	1	1	Moderate	23
Earthquake	2	3	2	1	Moderate	24
Air Contamination	3	3	2	1	High	25

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 City of Fulton. The tables below denote the number and locations of critical facilities within the City.

Table 2: Critical Facilities in the City of Fulton			
Facility Name	Address (Street, Town/Town/Hamlet)	Parcel Located in Floodplain	Structure Located in Floodplain
Public Utilities			
911 Tower	off of E Broadway St	No	-
Municipal Waterworks	S 1st St, Fulton, NY 13069	100YR, 500YR	No
Water Storage Tank Site	off of E Broadway St	No	-
Municipal Services			
Fulton City Office & Fire Dept.	141 South First St, Fulton, NY 13069	No	-
Fulton Highway Dept. Storage	216 N Fifth St, Fulton, NY 13069	100YR, 500YR	100YR
Fulton Highway Garage	17 Edgerton St, Fulton, NY 13069	100YR, 500YR	No
War Memorial	609 W Broadway, Fulton, NY	100YR, 500YR	No
Emergency and Medical Services			
Oswego County Emergency Management Office	200 N 2nd St, Fulton, NY 13069	No	-
Fulton Fire Dept (west side)	170 S 2nd St, Fulton, NY 13069	No	-
Center for Reproductive Health	522 S 4th St Fulton, NY 13069	No	-
Fulton Urgent Care	510 S 4th St Fulton, NY 13069	No	-
Menter Ambulance	404 Ontario St, Fulton, NY 13069	100YR, 500YR	100YR, 500YR
Fulton Police Department	141 S 1st St Fulton, NY 13069	No	-
NYS Police Dept.	1013 S 1st St, Fulton, NY 13069	No	-
Educational Facilities			
Cayuga Community College	11 River Glen Drive, Fulton NY 13069	No	-
Fairgrieve Elementary School	716 Academy St Fulton, NY 13069	No	-
Fulton Jr. High School	129 Curtis St Fulton, NY 13069	100YR, 500YR	100YR, 500YR
G. Ray Bodley High School	6 William Gillard Dr Fulton, NY 13069	100YR, 500YR	No
James E. Lanigan Elementary School	59 Bakeman St Fulton, NY 13069	No	-
Community Services			
Fulton Ice Arena	609 W Broadway, Fulton, NY 13069	100YR, 500YR	No
U.S. Post Office	214 S 1st St, Fulton, NY 13069	No	-
Industrial			
Birds Eye Foods/K&N's Foods USA LLC	607 Phillips St, Fulton, NY 13069	100YR, 500YR	No
Huhtamaki	100 State St, Fulton, NY 13069	No	-
Davis & Standard	46 N. First St Fulton, NY 13069	100YR, 500YR	100YR, 500YR
Dams			
Lower Fulton Dam Lock #3	Oswego River at Oneida St	-	-
Upper Fulton Dam Lock #2	Oswego River at W Broadway St	-	-

4.0 Priority Hazard Events

The following sections detail the fifteen (15) top 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 City of Fulton. Climate change is expected to cause an increase in weather volatility, rising sea level, and greater temperature extremes.

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 City of Fulton 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 (7) years in Oswego County. These storms typically affect most or all of the County. The entire City of Fulton is susceptible to damages from an ice storm event.

Historical Hazard Occurrences and Damage Estimates

The City of Fulton 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 City of Fulton.

Future Potential Impacts

The City of Fulton will continue to experience ice storm events in the future, as will the rest of Oswego County. The City Public Works department completes tree maintenance within City 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 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 City of Fulton is susceptible to damages from a severe winter storm event. The City Public Works department clears City streets during heavy snow events, and the City works with the 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 City of Fulton 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 City of Fulton.

Future Potential Impacts

The City of Fulton 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.

4.1.3 Severe Thunderstorm, Wind, Tornado

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

Hazard Vulnerability

The entire City is susceptible to damages from a severe thunderstorm, wind, or tornado event. 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

In addition to the 101 severe storm events reported within Oswego County, the NCDC reports twenty-eight (28) wind, lightning, and hail events that occurred in the City of Fulton from 1994 to 2017. Actual damages were likely greater than those estimated by the NCDC.

Table 3: Severe Storm Event Records for the City of Fulton				
Event Type	Date	Magnitude	Estimated Property Damage	Estimated Crop Damage
Thunderstorm Wind	6/16/2010	58 kts	\$0	-
Thunderstorm Wind	7/21/2010	52 kts	\$15,000	-
Thunderstorm Wind	8/10/2011	52 kts	\$10,000	-
Thunderstorm Wind	7/31/2012	50 kts	\$10,000	-
Hail	5/21/2013	0.75 inches	\$0	-
Hail	5/22/2013	0.75 inches	\$0	-
Thunderstorm Wind	7/19/2013	50 kts	\$10,000	-
Thunderstorm Wind	6/3/2014	50 kts	\$10,000	-
Thunderstorm Wind	6/24/2014	50 kts	\$25,000	-
Thunderstorm Wind	5/30/2015	50 kts	\$15,000	-
Thunderstorm Wind	8/18/2015	50 kts	\$15,000	-
Hail	5/18/2017	1.5 inches	\$0	-
Hail	5/18/2017	1.5 inches	\$0	-
Flash Flood	5/11/2015	-	\$100,000	-
Thunderstorm Wind	9/14/2008	52 kts	\$15,000	-
Thunderstorm Wind	6/10/2008	50 kts	\$45,000	-
Thunderstorm Wind	6/6/2008	50 kts	\$12,000	-
Thunderstorm Wind	1/9/2008	50 kts	\$8,000	-
Thunderstorm Wind	11/16/2006	50 kts	\$10,000	-
Thunderstorm Wind	8/3/2003	55 kts	\$250,000	-
Thunderstorm Wind	6/26/2002	60 kts	\$50,000	-
Thunderstorm Wind	7/24/2001	50 kts	\$8,000	-
Flash Flood	7/2/1999	-	\$5,000	-
Hail	8/24/1998	1 inch	\$13,000	-
Thunderstorm Wind	5/31/1998	-	\$10,000	-
Thunderstorm Wind	8/3/1995	-	\$6,000	-
Thunderstorm Wind	7/15/1995	-	\$10,000	-
Thunderstorm Wind	8/28/1994	-	\$50,000	-
Total			\$1,404,000	-

Future Potential Impacts

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

4.1.4 Flood

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

Hazard Vulnerability

The City is predominantly drained by the Oswego River in the Lake Ontario drainage basin. 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 City of Fulton 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)			
City of Fulton Total Area	Percent of Total Area		
	100-Year Floodplain	500-Year Floodplain	Area of Minimal Flood Hazard
3,201.2 acres	27.90%	1.01%	71.09%

Table 5 below summarizes the value of properties in the City of Fulton 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
Commercial	30	\$13,387,100	22	\$8,972,800
Community Services	9	\$9,317,800	10	\$9,526,800
Industrial	10	\$12,255,400	11	\$13,599,100
Residential	Residential	187	\$12,729,899	166
Utility	Utility	14	\$18,900,835	10
Other**	Other	87	452000	68
Total	337	\$67,043,034	287	\$62,935,232
*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, in the past ten (10) years, no flood records were noted to specifically impact the City of Fulton.

As described in Section 6.0 of this annex, eleven (11) NFIP loss claims have been paid as of July 2018 in the City of Fulton totaling \$381,869.07. There are no repetitive loss property in the City of Fulton.

Future Potential Impacts

Properties along the Oswego River and shoreline of Lake Ontario and their tributaries are vulnerable to flooding. Multiple critical facilities are located on parcels that intersect the 100-year and/or 500-year floodplain and all but a fire department and the Junior High are structures are outside of this boundary (Table 2).

4.1.5 Infestation

Hazard Vulnerability

The City of Fulton has a low vulnerability to an infestation due to this hazard's small extent and small impact potential. Emerald ash borer is of primary concern. Only a small portion of land within the City of Fulton is forested. Ash trees comprise approximately 16-30% per total basal area of forests in the area according to the NYSDEC (Figure 5.8, Appendix A of the main body of the plan), which are susceptible to emerald ash borer infestation.

Historical Hazard Occurrences and Damage Estimates

The City of Fulton, along with other jurisdictions in the southern portion of Oswego County, is within of the current emerald ash borer restricted zone defined by the NYSDEC (Figure 5.7, Appendix A of the main body of the plan). The restricted zone in NYS generally encompasses the currently infested area (as of May 2017). The transport of ash tree materials (wood, logs, untreated firewood, nursery stock, and wood chips) outside of the restricted zone is prohibited to prevent the spread of emerald ash borer. In addition, the NYSDEC prohibits the import of firewood into NY State unless it has been heat-treated to kill emerald ash borer and other pests. In addition, untreated firewood originating anywhere in NY State cannot be transported more than fifty (50) miles from its origin.

Future Potential Impacts

Emerald ash borer is likely to continue to spread throughout Oswego County. The City of Fulton has a small amount of forested land on the eastern and western edges of the City. The City could to be susceptible to increased tree damage from the emerald ash borer.

4.1.6 Ice Jam

An ice jam is described as a large accumulation of ice in rivers or streams that interrupts the normal flow of water and often leads to flooding conditions and/or damage to nearby structures. Ice jam events typically occur from the early winter to late spring months and are often short-lived and often affect only a localized reach or area of a body of water. Freeze-up jams occur when waterbodies are beginning to freeze over during the early winter and do not typically result in significant floods. Break-up jams typically occur later in the spring when built up ice breaks or moves as it begins to melt or when water levels rise due to precipitation or snowmelt. Break-up jams often result in flooding and property damages.

Hazard Vulnerability

In the City of Fulton, an ice jam could occur along the Oswego River and other major tributaries to Oneida Lake (Figure 1). Areas that may incur damages due to an ice jam generally include properties within a 100-year or 500-year floodplain, as shown above in Table 4 in Section 4.1.3.

Historical Hazard Occurrences and Damage Estimates

In the winter of 2004, an ice jam occurred on the Oswego River causing the hydroelectric dam gates to freeze and a subsequent rise on Oneida Lake and the Seneca River.

Future Potential Impacts

Major tributaries to Oneida Lake will continue to pose risks of ice jams in the City of Fulton. In the future, ice jams may occur more frequently due to climate change.

4.2 *Technological Hazards*

Technological hazards selected to be profiled by the City of Fulton are described in detail below.

4.2.1 Fire

Hazard Vulnerability

The City of Fulton 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 central portion of the City, which is most densely developed, would be the most vulnerable area for a fire event.

Historical Hazard Occurrences and Damage Estimates

Structural fires occur occasionally within the City. Most recently, as reported on Oswego County News Now, in January 2018, a fire in a two-story building at 312 Broadway led to displacement of four (4) families. No damage estimates were available.

Future Potential Impacts

The developed portions of the City of Fulton, particularly along main roadways, remain susceptible to structure fires.

4.2.2 Utility Failure

Hazard Vulnerability

A utility failure involves the loss of electricity, natural gas supply, phone service, or water supply as a result of an internal system failure. While utility failures are often associated with natural hazard events, this hazard on its own does not include loss of utility access due to other disaster events. The City of Fulton primarily has overhead utility lines, including electric, phone, and cable networks and also has underground natural gas lines and a public water supply system. A utility failure could impact the entire developed portion of the City. The City's vulnerability to utility failures was determined to be high due to the widespread extent and fast onset of a utility failure.

Historical Hazard Occurrences and Damage Estimates

The City of Fulton was impacted by a widespread electricity failure in 2003 that impacted much of the northeastern U.S., which resulted in power outages for about one (1) day. No specific utility failure records are available for the City itself. The City is more likely to experience utility failures associated with a severe storm, ice storm, or severe winter storm than a purely technologically-caused utility failure.

Brookfield Renewable Power operates several hydroelectric units on the Oswego River, including in the City of Fulton. Natural hazards, particularly flooding, storm events, and ice jams could contribute to failure of this facility.

Future Potential Impacts

The City will remain susceptible to utility failures in the future. However, the City is more likely to encounter utility failures due to a natural hazard event than this hazard occurring on its own.

4.2.3 Water Supply Contamination

Hazard Vulnerability

The City of Fulton 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 City is supplied by a public water system. The City water is supplied by groundwater wells, and the City has an emergency supply connection to the Onondaga County Water Authority (OCWA) distribution system. While unlikely, contamination could be caused due to improper treatment or localized groundwater contamination. Water supply contamination could also result from terrorism.

Historical Hazard Occurrences and Damage Estimates

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

Future Potential Impacts

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

4.2.4 Terrorism

Hazard Vulnerability

Terrorism is defined as the threat or use of violence for political or social gain. Terrorism typically causes community disruption and multiple injuries or deaths. The City of Fulton is moderately susceptible to a terrorist event due to the event's short onset (little to no warning) and moderate potential impact to City infrastructure or residents.

Historical Hazard Occurrences and Damage Estimates

There are no records of terrorist events in the City of Fulton or Oswego County. The City elected to profile this hazard for the HMP update to account for future potential impacts.

Future Potential Impacts

With the recent rise in localized terrorism events throughout the country such as shootings in schools and public places, the City chose to analyze this hazard for the HMP update. The City does have several schools and public water infrastructure that potentially could be the

target of a terrorist attack. However, there is a low likelihood of occurrence for terrorism in the City of Fulton.

4.2.5 HAZMAT in Transit, Explosion

Hazard Vulnerability

Hazardous Materials (HAZMAT) in Transit events involve the uncontrollable release of flammable, toxic, corrosive, chemically instable, or combustible materials during transport that can damage infrastructure, pollute the environment, and/or cause injuries or death. State Route 481 runs north to south through the eastern half of the City, State Route 48 runs north to south through the western half of the City, and State Route 3 runs east to west through the center of the City. A transportation accident involving hazardous materials on these roadways has the potential to impact a portion of the City of Fulton.

Historical Hazard Occurrences and Damage Estimates

There are no specific records of HAZMAT in transit events in the City of Fulton. This hazard has been documented in other portions of the County (see main body of this plan update for details). However, the City of Fulton elected to include this hazard due to the moderate risk posed by State Routes 481, 48, and 3, which are major transportation routes within the City.

Future Potential Impacts

Although HAZMAT in transit events are infrequent, the City remains susceptible to future HAZMAT incidents along State Routes 481, 48, and 3.

4.2.6 Structural Collapse

Hazard Vulnerability

A structural collapse involves a structural failure of a building, bridge, or other infrastructure that threatens human life and health. The City of Fulton is moderately vulnerable to a structural collapse. Though this event would only affect a small area within the City, there is little to no warning and it presents significant damages and injury risks. The City has two (2) bridges over the Oswego River, on Oneida Street and State Route 3. In addition, approximately 49% of housing units in the City were built in 1939 or earlier (U.S. Census Bureau, 2016). Older structures are more vulnerable to structural collapse than newer structures.

Historical Hazard Occurrences and Damage Estimates

A structural collapse occurred in the City of Fulton in 2007 at 206 W Broadway. The collapse affected a Type III Ordinary Construction Taxpayer type building, and was caused by

natural deterioration. The City elected to profile this hazard due to the presence of similar vulnerable infrastructure.

Future Potential Impacts

Structural collapse is not a high-risk hazard for the City, but it could occur particularly during a natural hazard event such as a winter storm, severe storm, or ice storm resulting in hundreds of thousands of dollars in damages and potentially injuries or loss of life.

4.2.7 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 City of Fulton contains several major transportation routes (NYS Route 481, County Route 48, County Route 3) run into the center of the City. NYS Route 481 terminates into S 4th Street south of the city and continues as S 2nd Street/N 2nd street north through the City. County Route 48 runs north/south along the Oswego River. County Route 3 travels northwest/southeast, intersecting County Route 48 and crossing the Oswego River. A transportation accident on any of these routes has the potential to impact a portion of the City of Fulton.

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

Future Potential Impacts

While major transportation accidents are infrequent, but the City 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.

5.0 Capability Assessment

5.1 Planning and Regulatory Capability

The City'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	City of Fulton	Notes
Plans		
Comprehensive/Land Use Plan	X	Adopted in 2003.
Economic Development Plan	X	In place.
Post-disaster Recovery Plan	X	In place.
Watershed Protection Plan	X	In place.
Capital Improvement Plan	X	In place.
Comprehensive Emergency Management Plan	X	In place.
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 Exiting 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 	Code Enforcement Officer responsible
Zoning/Land Use Codes/Restriction	X	Local Law No. 7 of 1997
Subdivision Regulations	X	In zoning
Property Set-back Ordinance	X	In zoning
Flood Regulations	X	Local Law No. 2 of 2013
Stormwater Ordinance	X	In place.
Site Plan Review Requirements	X	Town Planning Board responsible
Real Estate Disclosure Requirement	X	In place.
Programs		
NFIP Participant	X	Current participant.
Public Education/Awareness Program	X	Fire Dept. responsible
Storm Drainage Maintenance Program	X	DPW responsible
Stream Maintenance Program	X	DPW responsible
Mutual Aid Agreements	X	Agreements with neighboring jurisdictions and Oswego County
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

Table 6. Planning Mechanisms and Capabilities		
Planning Mechanism	City of Fulton	Notes
Staff/Development		
Development Planner	X	City Planning Commission.
Building Code Official	X	Code Enforcement Officer
Engineer/Public Works Official	X	City DPW position.
Local Floodplain Administrator	X	Code Enforcement Officer
Public Information Official	X	Mayor

5.2 Emergency Communications, Routes, and Shelters

The City of Fulton, along with Oswego County, utilize the HyperReach emergency communications system. Major transportation routes within the City include NYS Route 104, County Route 48, County Route 4, and NYS Route 481. The City of Fulton has one (1) established emergency shelters:

- Fulton War Memorial – 609 West Broadway, Fulton NY

The Fulton War Memorial is ADA-compliant and can accommodate people with special needs. The City currently does not have accommodations in place to shelter pets.

5.3 Temporary and Permanent Housing Locations

The potential temporary and permanent housing locations listed below were identified for displaced residents in the City of Fulton based on the 2017 NYS Hazard Mitigation Planning Standards.

- **Potential Temporary Housing Locations**
 - G. Ray Bodley High School Athletic Fields – 6 William Gillard Dr., Fulton
 - Fulton Jr. High School – 129 Curtis Street, Fulton
 - Fulton Community Center Athletic Fields – 605 W. Broadway, Fulton
 - Fulton CSD Athletic Field – W. 2 Street, Fulton
 - City Park – N. 6th Street, Fulton
 - Foster Park – 32 Foster Street, Fulton

- **Potential Permanent Housing Locations**
 - Fulton Community Center Athletic Fields – 605 W. Broadway, Fulton
 - City Park – N. 6th Street, Fulton
 - Foster Park – 32 Foster Street, Fulton

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 City of Fulton currently participates in the NFIP. As of July 2018, the City had twelve (12) flood insurance policies in-force, with a total coverage amount of \$1,603,500.00, and eleven (11) claims have been filed to date. All of these claims are closed, four (4) of which were closed without payment. Paid claims totaled \$18,567.56. There are no repetitive loss properties within the City of Fulton.

The City's Code Enforcement Officer serves as the Local Floodplain Administrator, and flood maps are available for viewing and copying at the City Hall (141 South First Street). The

City has been maintaining NFIP participation by performing the duties and actions that were listed in Local Law No. 2 of 2013 adopted by the City Council. The City 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. There are no repetitive loss properties in the City.

7.0 Mitigation Strategy and Prioritization

7.1 Past, Completed, and Ongoing Initiatives

The City of Fulton proposed eight (8) mitigation actions in the 2012 Oswego County HMP. One of these actions was revised and carried over for the current plan update. The details and status of those actions are described in Table 7 below.

Table 7. 2012 Hazard Mitigation Actions City of Fulton				
Proposed Mitigation Action	Hazard(s) Mitigated	2012 Goals & Objectives Met	Implementing Agency	Status
Implement response protocols to remove debris jams and ice jams from waterways	Flood, Ice Jam	3-c, 4-d, 4-e, 5-a, 5-e	Fulton DPW/Highway, Fire Depts.	Brookfield Power adequately addresses this. Not a concern.
Bank stabilization along Oswego Canal, near Indian Point Trail	Severe storm, flood	4-b, 4-d, 4-e	City of Fulton DPW & Planning	Completed.
Review/implement County regulations and insurance regulations on floodplain management requirements	Flood	1-b, 3-a, 4-a, 4-b, 4-d	Fulton Floodplain Administrator	Floodplain management is not a major concern for the City. The banks to the river are very steep and the City is heavily developed.
Enforce/promote smart development that minimizes impacts from natural hazards	Flood	1-b, 3-a, 4-a, 4-b, 4-d	Fulton Zoning/Code Enforcement Official	This action was revised and re-included for the current plan update (property resiliency brochure)
Implement/revise review board regulations and building/zoning codes for potential hazard mitigation updates	Severe storm, ice storm, fire, earthquake, tornado, flood, winter storm, utility failure	1-a, 3-a, 4-a	Fulton Zoning/Code Enforcement Official	City building codes were reviewed and revised to reflect updates to international code standards over the past 2 years (since 2016). This review did not specifically address hazard mitigation related updates.
Implement local Land Use Plans to reduce flood impacts (reduce development and promote safe development)	Flood	1-a	Fulton Planning and Code Enforcement	No progress to date. The City does not experience significant flooding issues.

Table 7. 2012 Hazard Mitigation Actions City of Fulton				
Proposed Mitigation Action	Hazard(s) Mitigated	2012 Goals & Objectives Met	Implementing Agency	Status
Assist County with the development and implementation of new public awareness/ education programs for hazard mitigation and preparedness	All hazards	1-b	Fulton public information official	No progress to date.
Attend County zoning training programs focused on hazard mitigation	Severe storm, ice storm, fire, earthquake, tornado, flood, winter storm, utility failure	1-a	Fulton zoning/code enforcement official	The City zoning board members attend various trainings on a regular basis.

7.2 Proposed Mitigation Actions

The Village proposed five (5) new mitigation actions to be included in the HMP update. These actions are described in Table 8, below and on worksheets included in Attachment A.

Table 8. 2018 Proposed Mitigation Actions City of Fulton									
Action ID	Mitigation Action	Hazard(s) Mitigated	Implementing Agencies (Lead* & Support)	Planning Mechanism	Timeframe	New or Existing Development	Estimated Cost	Funding Source(s)	Priority
Fulton 1	Develop and distribute property resilience brochure to all City residents	Severe Thunderstorm/ Wind/Tornado, Flooding, Severe Winter Storm, Ice Storm	Fulton Mayor*, Fulton Police and Fire Department	Comprehensive Emergency Management Plan	2 months	Existing	\$500-2,000	City budget	1 (High)
Fulton 2	Purchase a generator for the War Memorial	Severe Storm, Severe Winter Storm, Ice Storm	Fulton DPW Superintendent	City Capital Improvement Plan	1 year	Existing	\$30,000	FEMA- PDM	2 (High)
Fulton 3	Purchase a generator for the City Highway Garage	Severe Storm, Severe Winter Storm, Ice Storm	Fulton DPW Superintendent	City Capital Improvement Plan	1 year	Existing	\$30,000	FEMA- PDM	3 (High)
Fulton 4	Enhance public outreach and communication by purchasing 2 Variable Message Boards	All	Fulton Police Chief	City Capital Improvement Plan	1 year	Existing	\$44K	FEMA- PDM; NYSDOT-CHIPS	4 (High)
Fulton 5	Establish an educational outreach program related to fire hydrant clearance	Severe Winter Storm	Fulton Fire Chief	Comprehensive Plan	1-2 years	Existing	Low	City budget	5 (Med)
Potential Funding Sources FEMA PDM: https://www.fema.gov/pre-disaster-mitigation-grant-program NYSDOT CHIPS- https://www.dot.ny.gov/programs/chips									

7.3 *Cost-Benefit Analysis*

Each of the City's proposed mitigation actions were evaluated and prioritized using the STAPLEE cost-benefit analysis. The City'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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Figure 1


**Hazard Area Extent and Location Map –
City of Fulton**


Legend


- 


Municipal Boundaries
- 


FEMA 100-Year Floodplain
- 


FEMA 100-Year Floodplain-Floodway
- 


FEMA 500-Year Floodplain
- 


Streams
- 


Active Railroads
- 

Critical Facilities
- 

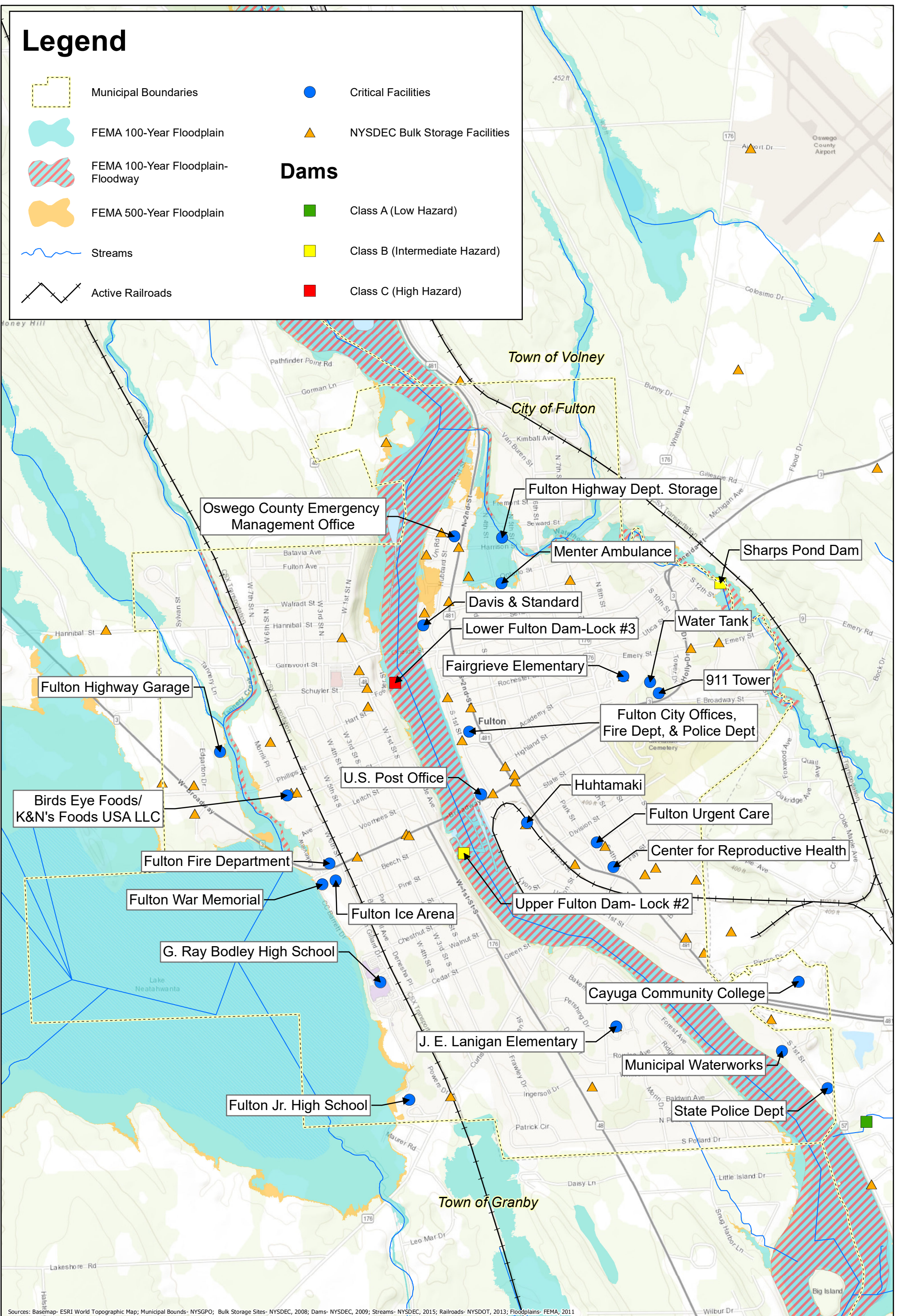
NYSDEC Bulk Storage Facilities
- 

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



0 0.125 0.25 0.5 Miles

Attachment A

**Mitigation Action Worksheets –
City of Fulton**

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	City of Fulton
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Mitigation Action Worksheet	
Project Name:	Develop and distribute property resilience brochure to all City residents
Project Number:	Fulton 1
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 City of Fulton, 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 City codes, contact information, and other City-specific information. Distribute the brochure to each City resident, either by mailing or making the document available on the City website and at the City Hall.

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	Estimated Benefits (losses avoided):	City 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:	High	Desired Timeframe for Implementation:	2 months
Estimated Time Required for Project Implementation:	2-3 months	Potential Funding Sources:	City budget
Responsible Organization:	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 City-specific information.
	Distribute Oswego County property resiliency brochure modified with City-specific information	\$500,2,000	Most comprehensive approach, gives City residents more complete information regarding City-specific codes and contacts.

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:	City of Fulton
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Mitigation Action Worksheet	
Project Name:	Purchase a generator for the War Memorial
Project Number:	Fulton 2
Risk/Vulnerability	
Hazard of Concern:	Severe Storm, Severe Winter Storm, Ice Storm
Description of the Problem:	The War Memorial currently lacks a source of backup power. The War Memorial is the City's emergency shelter location.
Action of Project Intended for Implementation	
Description of the Solution:	Install generator at the War Memorial to ensure shelter can be provided City residents during a hazard event that results in a power outage.

Is this project related to a Critical Facility? Yes X 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	Estimated Benefits (losses avoided):	Ensure continuity of emergency shelter availability during a power outage.
Useful Life:	Long-term		
Estimated Cost:	\$30,000		

Plan for Implementation			
Prioritization:	High (#2)	Desired Timeframe for Implementation:	1 year
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA- PDM
Responsible Organization:	DPW Superintendent	Local Planning Mechanisms to be used in Implementation, if any:	City Capital Improvement Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	War Memorial has potential to lose power during a hazard event.
	Purchase portable generator to be shared between multiple City facilities.	\$8,000	One facility still potentially unable to continue operations during power outage. May not power entire War Memorial.
	Install permanent generator at the War Memorial.	\$30,000	Maximum protection of emergency sheltering capabilities.

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:	City of Fulton
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Mitigation Action Worksheet

Project Name:	Purchase a generator for the City Highway Garage
Project Number:	Fulton 3
Risk/Vulnerability	
Hazard of Concern:	Severe Storm, Severe Winter Storm, Ice Storm
Description of the Problem:	The City Highway Garage currently lacks a source of backup power, which could result in loss of critical operations during a hazard event.
Action of Project Intended for Implementation	
Description of the Solution:	Install generator at the City Highway Garage to ensure continuity of critical operations during a hazard event.

Is this project related to a Critical Facility? Yes X 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	Estimated Benefits (losses avoided):	Ensure continuity of operations at the highway garage during a power outage.
Useful Life:	Long-term		
Estimated Cost:	\$30,000		

Plan for Implementation

Prioritization:	High (#2)	Desired Timeframe for Implementation:	1 year
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA- PDM
Responsible Organization:	DPW Superintendent	Local Planning Mechanisms to be used in Implementation, if any:	City Capital Improvement Plan

Three Alternatives Considered (Including No Action)

	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	The City Highway Garage has potential to lose power during a hazard event.
	Purchase portable generator to be shared between multiple City facilities.	\$8,000	One facility still potentially unable to continue operations during power outage.
	Install permanent generator at the City Highway Garage.	\$30,000	Maximum protection of critical infrastructure 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:	City of Fulton
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Mitigation Action Worksheet	
Project Name:	Enhance public outreach and communication by purchasing 2 Variable Message Boards
Project Number:	Fulton 4
Risk/Vulnerability	
Hazard of Concern:	All
Description of the Problem:	Currently lack method of emergency notification to residents and through traffic along roadways.
Action of Project Intended for Implementation	
Description of the Solution:	Purchase two virtual message boards (portable) that can be used to notify residents and through traffic of hazardous road conditions.

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):	Increase notification of hazardous conditions to residents and people travelling through the City.
Useful Life:	10 years		
Estimated Cost:	\$44,000 for 2 VMBs		

Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	1 year
Estimated Time Required for Project Implementation:	3-6 months	Potential Funding Sources:	FEMA- PDM, NYSDOT- CHIPS
Responsible Organization:	Fulton Police Chief	Local Planning Mechanisms to be used in Implementation, if any:	City Capital Improvement Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	No change in existing conditions
	Purchase 1 VMB	\$22,000	Only 1 direction of traffic notified at a time
	Purchase 2 VMBs	\$44,000	2-way notification for traffic during hazard 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:	City of Fulton
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Mitigation Action Worksheet	
Project Name:	Establish an educational outreach program related to fire hydrant clearance
Project Number:	Fulton 5
Risk/Vulnerability	
Hazard of Concern:	Severe Winter Storm
Description of the Problem:	Currently during the winter, many hydrants within the City are not cleared regularly which prevents access. This is the responsibility of property owners.
Action of Project Intended for Implementation	
Description of the Solution:	Increase public awareness of need to clear areas around hydrants – mailings, outreach on social media and City website.

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:	Medium	Estimated Benefits (losses avoided):	Improve access to hydrants during winter storms.
Useful Life:	Long term, ongoing		
Estimated Cost:	Low		

Plan for Implementation			
Prioritization:	Medium	Desired Timeframe for Implementation:	1-2 years
Estimated Time Required for Project Implementation:	6 months	Potential Funding Sources:	City Budget
Responsible Organization:	Fulton Fire Chief	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	No change in existing conditions
	Implement public outreach program	\$500	More cost effective. Hydrant clearing is already property owners' responsibility.
	City DPW clears hydrants during heavy snow events	\$5,000	Not feasible. The DPW staff doesn't have time to do this, especially during winter storm events when there have a number of higher priority tasks to keep roadways cleared and safe for traffic.

Progress Report (for Plan Maintenance)	
Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Attachment B

**STAPLEE Table –
City of Fulton**

Worksheet #6

STAPLEE Criteria Consideration Table
Mitigation Action Prioritization and ComparisonJurisdiction City of Fulton

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											Levels = High, Medium, or Low	
Fulton 1	Develop and distribute property resilience brochure to all City residents	+	0	+	+	+	+	0	+	+	+	Low-Med	Low	High (#1)
Fulton 2	Purchase a generator for the War Memorial	+	+	-	+	+	-	0	0	+	0	High	Med	High (#2)
Fulton 3	Purchase a generator for the City Highway Garage	+	+	-	+	+	-	0	0	+	0	High	Med	High (#3)
Fulton 4	Enhance public outreach and communication by purchasing 2 Variable Message Boards	+	+	+	+	+	-	0	+	+	+	High	High	High (#4)
Fulton 5	Establish an educational outreach program related to fire hydrant clearance	+	+	+	0	0	-	0	+	+	-	Med	Low	Med (#5)