

Town of Volney

## **Jurisdictional Annex**

### **Town of Volney**

#### **1.0 Contacts**

The contacts for the Town of Volney regarding this plan were identified as follows:

- Gregory W. Hartranft – Town Supervisor  
Address: 1445 County Route 6, Fulton, NY 13069  
Phone: (315) 598-3508
- SMichelle Vant – Town Clerk  
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#### **2.0 Municipal Profile**

##### Population

The 2016 American Community Survey estimated that 5,820 people live in the Town of Volney. The Town's population has decreased since the 2000 Census population (6,094) by 4.5% (U.S. Census Bureau, 2016).

##### Location

The Town of Volney is located in the western portion of Oswego County and is bordered by the Towns of Scriba and New Haven to the north, the Towns of Palermo and Schroepel to the east, and the Town of Granby and City of Fulton to the west. The Oswego River flows along the Town's western border, and State Routes 3, 49, and 481 provide direct access to the Town.

##### Brief History

The Town of Volney was incorporated in 1806 from Scriba's Patent. Originally named Fredericksburg, Volney was renamed in April 1811 after a French author who toured the area in 1808. In March of 1816, several towns, including Volney were removed from parts of Oneida and Onondaga Counties, to form the County of Owego. In 1902, the village of Fulton incorporated and split from Volney. Volney borders the Oswego River, which was largely responsible for the development of the area. A number of sawmills, flour mills and gristmills

were established in the 1800s, including the largest flour mill in the Country. Agriculture was significant, particularly muck farming (onions and lettuce) and dairy farming. Apple driers and cider mills were also present in the Town, as well as cheese factories (McDougall, 2016).

### Governing Body

The Town of Volney is governed by a five (5) member Town Board, led by the Supervisor.

### Future Growth

A solar farm was completed in the Town of Volney near the Bristol Hill Landfill in 2018, which provides power to County government facilities. No other significant developments have occurred in the Town of Volney since the 2012 County HMP.

## **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
Severe Winter Storm	1	3	3	3	High	High
Severe T-Storm/Wind/Tornado	2	3	3	3	High	High
Ice Storm	3	3	3	2	High	High
Extreme Temps	4	3	1	3	Moderate	Moderate
Flood	5	2	2	2	Moderate	Moderate
HAZMAT Fixed	6	1	1	1	Moderate	Moderate

Table 1: Hazard Vulnerability by Event						
Hazard Event	Extent	Onset	Impact (Damages and Injury)	Frequency	Vulnerability Rank	Jurisdiction Rank
Drought	7	3	2	1	Moderate	Moderate
Coastal Storm	8	2	3	2	Moderate	Moderate
Infestation	9	2	1	1	Low	Low
Ice Jam	10	2	2	2	Moderate	Moderate
Utility Failure	11	3	2	1	High	High
Transportation Accident	12	1	1	1	Moderate	Moderate
Oil Spill	13	1	1	1	Moderate	Moderate
HAZMAT Transit	14	1	1	1	Moderate	Moderate
Epidemic	15	2	2	1	Moderate	Moderate
Radiological Fixed	16	1	2	1	Moderate	Moderate
Fire	17	1	1	1	Moderate	Moderate
Terrorism	18	1	2	1	Moderate	Moderate
Water Supply Contamination	19	2	2	1	Moderate	Moderate
Earthquake	20	2	2	1	Moderate	Moderate
Hurricane	21	3	3	1	Moderate	Moderate
Structural Collapse	22	1	2	1	Moderate	Moderate

### 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 Town of Volney. The tables below denote the number and locations of critical facilities within the Town.

Table 2: Critical Facilities in the Town of Volney			
Facility Name	Address	Parcel Located in Floodplain	Structure Located in Floodplain
Public Utilities			
National Grid Maintenance Property	off of Howard Rd	No	-
National Grid powerline corridor	Throughout Town	No	-
Municipal Services			
Volney Town Hall	1445 CR 6, Fulton, NY 13069	100YR	No
Volney Highway Dept	1445 CR 6, Fulton, NY 13069	100YR	No
Emergency And Medical Services			
Exelon Joint Information Center	40 Airport Dr, Fulton, NY 13069	No	-

Table 2: Critical Facilities in the Town of Volney

Facility Name	Address	Parcel Located in Floodplain	Structure Located in Floodplain
Volney Fire Station 2	13 March Rd, Oswego, NY 13126	No	-
Volney Volunteer Fire Co.	3002 NY-3, Fulton, NY 13069	100YR	No
Oswego County Radiation Oncology	105 County Rt 45A #200, Oswego, NY 13126	No	-
Transportation			
Oswego County Airport	40 Airport Dr, Fulton, NY 13069	100YR	No
Community Services			
Springside at Seneca Hill	10 County Rt 45A, Oswego, NY 13126	No	-
Manor at Seneca Hill	20 Manor Dr, Oswego, NY 13126	No	-
Volney Elementary School	2592 NY-3, Fulton, NY 13069	No	-
Industrial/Waste/Remedial Sites			
Oswego Co Energy Recovery Facility	2801 NY-481, Fulton, NY 13069	100YR, 500YR	100YR, 500YR
Exelon Nuclear (Emergency Offsite Facility)	2262 CR 176, Fulton, NY 13069	No	-
Glider Oil	2544 CR 57, Fulton, NY 13069	No	-
Volney Landfill – Remedial Site	Howard Rd	No	-
Bristol Hill Transfer Station	3125 NY-3, Fulton, NY 13069	100YR	No
Oswego Co Dept. of Solid Waste	3105 NY-3, Fulton, NY 13069	100YR	No
Dams			
Clakins Pond Dam		-	-
Edward Bock Dam	off of CR 57	-	-
Frask Dam	Black Creek off of Silk Rd	-	-
John Govus Dam	Trib. to Oswego River off of Porter Dr	-	-
Sharps Pond Dam	Waterhouse Creek off of S 12th St	-	-
Thomas R Thorpe Dam	Trib. to Black Creek off of Whittaker Rd	-	-
William F Fivaz Pond Dam	Waterhouse Creek off of Weller Rd	-	-

#### 4.0 Priority Hazard Events

The following sections details 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 Town of Volney. 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 Town of Volney are described in detail below.

##### 4.1.1 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 Town of Volney is susceptible to damages from a severe winter storm event. The Town Public Works department clears Town streets during heavy snow events, and the Town 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 Town of Volney 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 Town of Volney.

##### Future Potential Impacts

The Town of Volney 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.

##### 4.1.2 Severe Thunderstorm, Wind, Tornado, Coastal Storm

For a description of severe thunderstorm, wind, or tornado events, please see Section 5.1.1 of the main body of the Plan. Coastal storms can cause increases in tidal elevations (called storm surge), wind speed, and erosion, caused by both extratropical events and tropical cyclones. Extratropical events including Nor'easters and severe winter low-pressure systems are more applicable to Oswego County. These non-tropical storms produce strong winds and heavy rain or snow, and can last for several days and affect a very large area.

### Hazard Vulnerability

The entire Town 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 ten (10) wind, lightning, and hail events that occurred in the Town of Volney in from 1994 to 2017 (Table 3). Actual damages were likely greater than those estimated by the NCDC.

Table 3: Severe Storm Event Records for the Town of Volney				
Event Type	Date	Magnitude	Estimated Property Damage	Estimated Crop Damage
Thunderstorm Wind	7/31/2012	50 kts	\$10,000	-
Thunderstorm Wind	8/13/2016	50 kts	\$10,000	-
Hail	5/18/2017	2.5 inches	\$0	-
Thunderstorm Wind	9/11/2007	50 kts	\$15,000	-
Thunderstorm Wind	7/10/2006	50 kts	\$10,000	-
Thunderstorm Wind	9/29/2005	50 kts	\$10,000	-
Thunderstorm Wind	7/29/2002	50 kts	\$8,000	-
Thunderstorm Wind	6/26/2002	55 kts	\$30,000	-
Thunderstorm Wind	8/19/2001	52 kts	\$15,000	-
Hail	5/10/2000	0.88 inches	\$15,000	-
Total			\$123,000	-

### Future Potential Impacts

Severe storms are a common event in the Town of Volney 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 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 Town of Volney is susceptible to damages from an ice storm event.

### Historical Hazard Occurrences and Damage Estimates

The Town of Volney 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 Town of Volney.

### Future Potential Impacts

The Town of Volney will continue to experience ice storm events in the future, as will the rest of Oswego County. The Town Public Works department completes tree maintenance within Town 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.

#### 4.1.4 Extreme Temperatures

For a description of this hazard, please see Section 5.1.5 of the main body of the Plan.

### Hazard Vulnerability

Historically, extreme cold events have occurred about every other year in Oswego County. These events typically affect most or all of the County. The entire Town of Volney is susceptible to an extreme temperature event. Vulnerable populations, including people under the age of five (5) or over the age of sixty-five (65), along with low income populations and people with health problems are most vulnerable. The Town was determined to have a moderate vulnerability to extreme temperature events due to their widespread nature, and relatively common occurrence.



### Historical Hazard Occurrences and Damage Estimates

The Town of Volney was affected by the county-wide extreme cold events recorded by the NCDC, which are described in Section 5.1.5 of the main body of the Plan. No damage estimates or records related to extreme temperature events are reported specifically for the Town of Volney. Extreme temperature events are unlikely to cause significant property damage, though crop damages are possible depending on the time of year. Significant injuries or loss of life due to extreme temperature events are possible, but in small numbers.

### Future Potential Impacts

The Town of Volney will continue to experience extreme temperature events in the future, as will the rest of Oswego County. Extreme temperature events are likely to increase in frequency due to climate change. The Town has emergency shelters established, several of which are designated warming stations that residents may use during extreme cold events.

### 4.1.5 Flood

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

### Hazard Vulnerability

The Town 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 Town of Volney 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 2011)			
Town of Volney Total Area	Percent of Total Area		
	100-Year Floodplain	500-Year Floodplain	Area of Minimal Flood Hazard
31,532.8	14.83%	0.09%	85.08%

Table 5 below summarizes the value of properties in the Town of Volney 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	25	\$697,400	0	-
Commercial	11	\$3,254,100	1	\$1,817,100
Community Services	6	\$1,043,100	0	-
Industrial	8	\$26,007,100	2	\$25,330,000
Residential	414	\$33,283,300	37	\$3,435,300
Utility	11	\$9,110,537	4	\$4,569,248
Other**	229	\$415,600	27	\$205,200
Total	704	\$73,811,137	71	\$35,356,848
*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 Town of Volney.

As described in Section 6.0 of this annex, two (2) NFIP loss claims have been filed and closed without payment. There are no repetitive loss property in the Town of Volney.

### 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. However, all structures but the Oswego Co Energy Recovery Facility are located outside of the floodplain boundary (Table 2).

#### 4.1.6 Drought

Droughts are extended periods of time with unusually low precipitation, which lead to a limited water supply and crop losses. Drought periods progress through stages and drought intensity may vary considerably during the drought period. The time of occurrence and duration can cause significant variations in drought impacts. Droughts are categorized by the U.S. Drought Monitor in five (5) levels based on severity:

- Category D0: Abnormally dry conditions; may lead to a drought.

- Category D1: Moderate drought; some damages to crops and pasture may occur, water levels are low.
- Category D2: Severe drought; crop losses and water shortages are likely to occur.
- Category D3: Extreme drought; major crop losses and widespread water shortages.
- Category D4: Exceptional drought; extreme crop losses and water emergencies result.

#### Hazard Vulnerability

The entire Town of Volney is moderately susceptible to a drought due to the widespread extent and potential to cause moderate damages. Agricultural areas and private wells would experience the most significant impacts. The Town currently has a public water system for portions of the Town, which is supplied by Lake Ontario via connections to Onondaga County Water Authority (OCWA) infrastructure. Residents who are not served by public water rely on private groundwater wells for potable water.

#### Historical Hazard Occurrences and Damage Estimates

There are no drought records specifically reported for the Town of Volney. The Town was impacted by a drought in the late summer and fall of 2016, which affected the entire County.

#### Future Potential Impacts

The entire Town of Volney remains susceptible to a drought event. While drought events only occur occasionally, they are likely to increase in frequency and magnitude in the future due to climate change.

#### 4.1.7 Infestation

An infestation is defined as an excessive population of insects, rodents, or other animals requiring control measures due to their potential to carry diseases, destroy crops, or harm the environment.

#### Hazard Vulnerability

The Town of Volney is moderately vulnerable to an infestation due to this hazard's moderate extent and moderate impact potential. Emerald ash borer is of primary concern. The majority of the Town of Volney consists of forested land. Ash trees comprise approximately 7-15% 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 Town of Volney is within the current emerald ash borer restricted zone defined by the NYSDEC. The restricted zone in NYS generally encompasses the currently infested area (as

of May 2017). Southern Oswego County is within the restricted zone and it is plausible that emerald ash borer could migrate to jurisdictions north of the current infested area. 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 Town of Volney has a large amount of forested land, and is likely to be susceptible to increased tree damage from the emerald ash borer.

#### 4.1.8 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 Town of Volney, 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 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

The Oswego River will continue to pose risks of ice jams in the Town of Volney. 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 Town of Volney are described in detail below.

### 4.2.1 HAZMAT Fixed and Transit Sites/Oil

#### Hazard Vulnerability

A fixed-site hazardous materials incident could occur at sites that store petroleum products or other chemicals for industrial or commercial use. The NYSDEC lists three (3) chemical bulk storage (CBS) sites, thirty-three (33) petroleum bulk storage (PBS) sites, and one (1) Major Oil Storage Facilities (MOSF) as active in the Town of Volney (Figure 1). These sites include industrial sites, manufacturing facilities, gas stations, and community services. If a large petroleum spill were to occur at any of these locations, nearby properties may need to be evacuated to prevent human exposure and facilitate cleanup.

#### Historical Hazard Occurrences and Damage Estimates

There are no available records for major HAZMAT events specifically in the Town of Volney. The Town elected to profile this hazard due to the presence of hazardous material storage facilities that store or use hazardous materials.

#### Future Potential Impacts

The Town remains susceptible to fixed-site hazardous material events, though they are a rare occurrence. Properties close to bulk storage facilities that store petroleum products or chemicals are at the most risk of being affected by a fixed-site hazardous materials incident.

### 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 Town of Volney 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 Town. The Town'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 Town of Volney 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 Town itself. The Town 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 Town of Volney. Natural hazards, particularly flooding, storm events, and ice jams could contribute to failure of this facility.

### Future Potential Impacts

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

## 4.2.3 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 Town of Volney contains several major transportation routes (NYS Route 481, County Route 48, County Route 3) run into the center of the Town. NYS Route 481 terminates into S 4<sup>th</sup> Street south of the Town and continues as S 2<sup>nd</sup> Street/N 2<sup>nd</sup> street north through the Town. 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 Town of Volney.

### 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 Town of Volney (accidents involving mass casualties or substantial loss of property). The Town 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 Town 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.

#### 4.2.4 Epidemic

##### Hazard Vulnerability

Epidemics are defined as an outbreak of disease to an unusually large number of individuals or proportion of the population. Epidemics may include both human and animal illnesses. The Town of Volney was determined to have a low vulnerability risk for an epidemic event, since it has a relatively long onset, very low frequency, low damage potential, and may impact a moderate amount of the Town's population. The most vulnerable populations include young children under the age of five (5), older adults over the age of sixty-five (65), and those with existing medical conditions.

##### Historical Hazard Occurrences and Damage Estimates

There are no historical occurrences or impact estimates of epidemics specific to the Town of Volney. However, the Town elected to include this hazard in order to account for potential widespread illnesses such as influenza.

##### Future Potential Impacts

The risk of an epidemic occurring in the Town of Volney remains low, but it is possible, and could affect a portion of the Town's population.

## 5.0 Capability Assessment

### 5.1 Planning and Regulatory Capability

The Town'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	Town of Volney	Notes
Plans		
Comprehensive/Land Use Plan	X	Adopted.
Post-disaster Recovery Plan	X	In place.
Emergency Response/ Evacuation 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"> <li>• 2010 Residential Code of NYS</li> <li>• 2010 Fire Code of NYS</li> <li>• 2010 Building Code of NYS</li> <li>• 2010 Exiting Building Code of NYS</li> <li>• 2010 Energy Conservation Construction Code of NYS</li> <li>• 2010 Plumbing Code of NYS</li> <li>• 2010 Mechanical Code of NYS</li> <li>• 2010 Fuel Gas Code of NYS</li> </ul>	Code Enforcement Officer
Zoning/Land Use Codes/Restriction	X	Local Law.
Subdivision Regulations	X	Adopted.
Flood Regulations	X	Adopted.
Property Set-back Ordinance	X	In zoning.
Stormwater Ordinance	X	Adopted.
Site Plan Review Requirements	X	In place.
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	Highway Dept. responsible
Storm Drainage Maintenance Program	X	Highway Dept. responsible
Mutual Aid Agreements	X	Agreements with neighboring jurisdictions and Oswego County
Studies/Reports		
Hazard Analysis/Risk Assessment	X	2012 Oswego County HMP



Table 6. Planning Mechanisms and Capabilities		
Planning Mechanism	Town of Volney	Notes
Floodplain Maps/Insurance Studies	X	FEMA- 2013
Hydraulic Studies	X	Completed for water system evaluations.
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 Town of Volney, along with Oswego County, utilize the HyperReach emergency communications system. Major transportation routes within the Town include NYS Route 481, County Route 48, and County Route 3. The Town of Volney has one (1) established emergency shelter:

- Volney Town Hall – 1445 CR 6, Fulton, NY 13069

The Town Hall is ADA-compliant, and the Town may be able to house a small number of dogs during an emergency (the Town has four outside kennels and five indoor kennels). The Town currently does not have any emergency sheltering accommodations in place for cats or other pets.

## 5.3 Temporary and Permanent Housing Locations

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

- **Potential Temporary Housing Locations**
  - Vacant area behind Fire Station – 3002 NY-3, Fulton, NY
  - Oswego County Airport – CR 176, Fulton, NY
  - Property adjacent to Fulton Speedway – 1603 CR 57, Fulton, NY
  - Town Hall – 1445 County Route 6, Fulton NY
- **Potential Permanent Housing Locations**
  - Vacant lot on Howard Road and CR 176
  - Old Nestle Park – 52 Nestle Drive, 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 Town of Volney currently participates in the NFIP. As of July 2018, the Town had seven (7) flood insurance policies in-force, with a total coverage amount of \$2,096,000, and two (2) claims have been filed to date. Both of these claims are closed without payment. There are no repetitive loss properties within the Town of Volney.

The Town's Code Enforcement Officer serves as the Local Floodplain Administrator, and flood maps are available for viewing and copying at the Town Hall (1445 County Route 6, Fulton). The Town has been maintaining NFIP participation by performing the duties and actions that were listed in the local laws adopted by the Town Board. The Town 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 Town of Volney proposed two (2) mitigation actions in the 2012 Oswego County HMP. The details and status of those actions are described in Table 7 below.

Table 7. 2012 Hazard Mitigation Actions Town of Volney				
Proposed Mitigation Action	Hazard(s) Mitigated	2012 Goals & Objectives Met	Implementing Agency	Status
Implement response protocols to remove debris jams from waterways	Flood	3-c	County DPW, Municipal DPW/Highway, Fire Depts., Canal Corps, USACE	This action is a general responsibility of the Town Highway Dept. and is sufficiently under control. The Town determined that this action is no longer relevant related to hazard mitigation.
Implement response protocols to remove ice jams from waterways	Ice jam	4-d, 4-e, 5-a, 5-e	County DPW, Municipal DPW/Highway, Fire Depts., Canal Corps, USACE	This action is a responsibility of the Town Highway Dept. and is sufficiently under control. The Town determined that this action is no longer relevant related to hazard mitigation.

## 7.2 Proposed Mitigation Actions

The Town 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 Town of Volney									
Action ID	Mitigation Action	Hazard(s) Mitigated	Implementing Agencies (Lead* & Support)	Planning Mechanism	Timeframe	New or Existing Development	Estimated Cost	Funding Source(s)	Priority
Volney 1	Provide backup power for Town Highway Department	All	Town Supervisor*	Capital Improvement Plan, Comprehensive Plan	1-5 years	Existing	\$20,000	FEMA- PDM; USDA-RD Community Facilities Grant	1
Volney 2	Install snow fencing during the winter along Silk Road and County Route 176	Severe Winter Storm, Ice Storm	Town Highway Superintendent*	Capital Improvement Plan, Comprehensive Plan	1-5 years	Existing	\$4,000	FEMA- PDM; Town budget	2
Volney 3	Develop and distribute property resilience brochure to all Town residents	Severe Thunderstorm/ Wind/Tornado, Flood, Severe Winter Storm, Ice Storm	Town Supervisor*	Comprehensive Plan	1 year	Existing	\$500-2,000	Town budget	3
Volney 4	Purchase two variable message boards for use along roadways to alert travelers of hazardous conditions	Severe Winter Storm, Severe Thunderstorm/ Wind/ Tornado, Flood	Town Supervisor*, Oswego County	Capital Improvement Plan	1-2 years	Existing	\$30,000	FEMA- PDM, NYSDOT- CHIPS	4
Volney 5	Expand public outreach regarding emergency preparedness	All	Town Supervisor*, Town Highway Dept., Town Fire Dept.	Comprehensive Emergency Management Plan	1 year	Existing	\$1,000	Town budget	5
Potential Funding Sources FEMA PDM: <a href="https://www.fema.gov/pre-disaster-mitigation-grant-program">https://www.fema.gov/pre-disaster-mitigation-grant-program</a> NYSDOT CHIPS: <a href="https://www.dot.ny.gov/programs/chips">https://www.dot.ny.gov/programs/chips</a>									

### 7.3 *Cost-Benefit Analysis*

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

McDougall, Florence. 2016. "Town of Volney". History of Oswego County, New York, Marking the Bicentennial. Eds Shawn Doyle, Roy Reehil, Debra Allen, Justin White, Janet Clerkin, Kelly Jordal, and Kara Alheim. Oswego, NY: Oswego County, New York, 2016. 139-141. Print.


U.S. Census Bureau. 2016. "Summary File." 2012 – 2016 American Community Survey. U.S. Census Bureau's American Community Survey Office, 2016. Web. Accessed 5 September 2018. Available from:  
<https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>


**Figure 1**


**Hazard Area Extent and Location Map –  
Town of Volney**





# 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



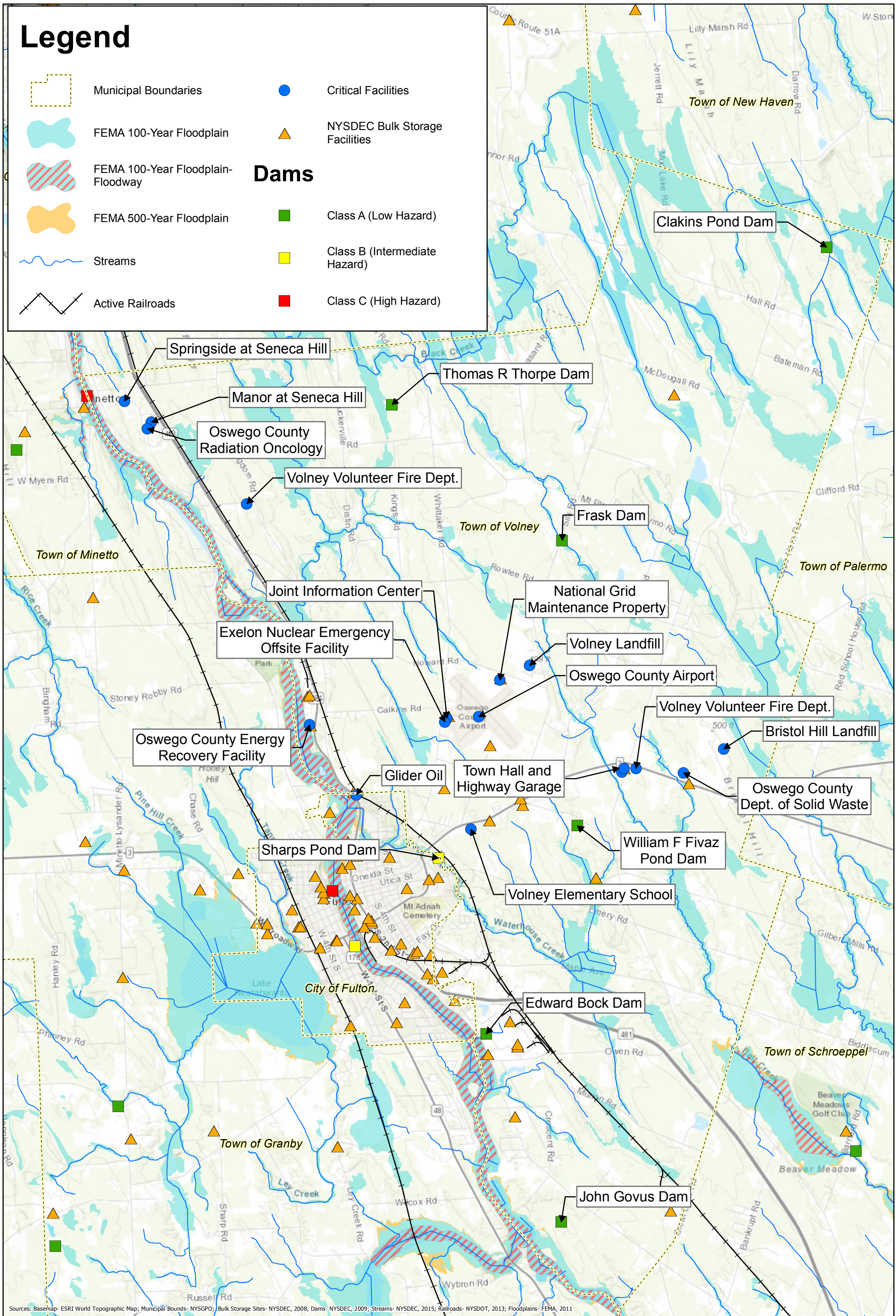
Class A (Low Hazard)



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 –  
Town of Volney**



## Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Town of Volney
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Mitigation Action Worksheet	
Project Name:	Provide backup power for Town Highway Department
Project Number:	Volney 1
Risk/Vulnerability	
Hazard of Concern:	All
Description of the Problem:	The Town Highway Department currently lacks a permanent source of backup power. The Town has a portable generator but this is shared among multiple facilities. This limits the Town's ability to continue operations at this critical facility during power outages.
Action of Project Intended for Implementation	
Description of the Solution:	Install a generator at the Town Highway Department to ensure continuity of Town operations related to highway maintenance and response during emergencies.

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):	Ensure continuity of Town operations during a power outage.
Useful Life:	Long-term		
Estimated Cost:	\$20,000		

Plan for Implementation			
Prioritization:	High (#1)	Desired Timeframe for Implementation:	1-5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA- PDM; USDA-RD Community Facilities Grant
Responsible Organization:	Town Supervisor	Local Planning Mechanisms to be used in Implementation, if any:	Town Capital Improvement Plan, Comprehensive Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Highway department remains at risk for power loss.
	Continue using portable generator	\$5,000	May not be available during a power outage if in use at another facility, may not power entire facility.
	Acquire a generator for the Town Highway Department	\$20,000	Longer-term solution to maintain operations at the highway department.

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:	Town of Volney
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Mitigation Action Worksheet	
Project Name:	Install snow fencing during the winter along Silk Road and County Route 176
Project Number:	Volney 2
Risk/Vulnerability	
Hazard of Concern:	Severe Winter Storm, Ice Storm
Description of the Problem:	During the winter, snow drifts across Silk Road and County Route 176 pose hazardous travel conditions within the Town for residents and emergency personnel.
Action of Project Intended for Implementation	
Description of the Solution:	Install snow fencing along the toe of slope of these roadways to decrease the amount of snow drifting onto the road.

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):	Safer travel routes for residents and emergency responders.
Useful Life:	Short-term		
Estimated Cost:	\$4,000		

Plan for Implementation			
Prioritization:	Medium	Desired Timeframe for Implementation:	1-5 years
Estimated Time Required for Project Implementation:	2 months	Potential Funding Sources:	FEMA- PDM, Town budget
Responsible Organization:	Town Highway Superintendent	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Plan, Capital Improvement Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	No change in roadway safety during the winter.
	Plant vegetative buffers along roadways	\$100,000	Woody vegetation would be planted in road right of ways, may cause issues with farm access along Lakeshore Road
	Place snow fencing along roadways	\$4,000	The Town has existing agreements with landowners on these roadways to place snow fencing (including Oswego County). Fence posts would be left in place so fencing could be easily re-installed each year.

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:	Town of Volney
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Mitigation Action Worksheet	
Project Name:	Develop and distribute property resilience brochure to all Town residents
Project Number:	Volney 3
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 Town of Volney, 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 Town codes, contact information, and other Town-specific information. Distribute the brochure to each Town resident, either by mailing or making the document available on the Town website and at the Town Hall.

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):	Town 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:	Medium	Desired Timeframe for Implementation:	1 year
Estimated Time Required for Project Implementation:	3 months	Potential Funding Sources:	Town budget
Responsible Organization:	Town Supervisor	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 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 Town-specific information.
	Distribute Oswego County property resiliency brochure modified with Town-specific information	\$500-2,000	Most comprehensive approach, gives Town residents more complete information regarding Town-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:	Town of Volney
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Mitigation Action Worksheet	
Project Name:	Purchase two variable message boards for use along roadways to alert travelers of hazardous conditions
Project Number:	Volney 4
Risk/Vulnerability	
Hazard of Concern:	Severe Winter Storm, Severe Thunderstorm/Wind/Tornado, Flood
Description of the Problem:	Currently lack emergency road signage. During hazardous conditions (snow drifts, flooding, downed trees, etc.) the Town Highway Dept. will block roadways but people tend to go around these blockages. There are a number of transportation accidents within the Town.
Action of Project Intended for Implementation	
Description of the Solution:	Flexible emergency signage such as variable message boards would improve the Town's ability to alert travelers of hazardous road conditions and reduce hazard-related transportation accidents.

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):	Increase safety of residents and improve public notification
Useful Life:	Long-term		
Estimated Cost:	\$30,000		

Plan for Implementation			
Prioritization:	Medium	Desired Timeframe for Implementation:	1-2 years
Estimated Time Required for Project Implementation:	6 months	Potential Funding Sources:	FEMA- PDM; NYSDOT- CHIPS
Responsible Organization:	Town Highway Dept.	Local Planning Mechanisms to be used in Implementation, if any:	Capital Improvement Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	No change to current conditions- people often drive around road barriers and accidents occur
	Install permanent/seasonal caution signage along road hazard areas (i.e., snow drift area, flood area)	Low	May improve notification but can't alert for multiple hazard conditions. Less visible than VMBs.
	Purchase 2 portable VMB's (alerts two-way traffic) that can be used along any roadway during a hazard event	\$30,000	Most flexible solution- signs could be used for a number of other purposes during non-hazardous conditions to alert public of other important information

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:	Town of Volney
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Mitigation Action Worksheet	
Project Name:	Expand public outreach regarding emergency preparedness
Project Number:	Volney 5
Risk/Vulnerability	
Hazard of Concern:	All
Description of the Problem:	Currently lack public notification system regarding what residents should do during hazard events (shelter information, contacts, town department responsibilities, etc.)
Action of Project Intended for Implementation	
Description of the Solution:	Expand existing Town website to include information and resources regarding emergency preparedness and response protocol, coordinate with Town Fire Dept. to expand social media outreach (Fire Dept. Facebook page)

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):	Increase public awareness regarding hazard events in the Town and how to prepare and respond to such events.
Useful Life:	Long-term		
Estimated Cost:	Low- ~\$1,000		

Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	1 year
Estimated Time Required for Project Implementation:	Few months; ongoing once established	Potential Funding Sources:	Local budget
Responsible Organization:	Town Fire Dept.	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 to current conditions- public lacks knowledge of how to respond during hazard events
	Increase public awareness via Town website and social media outreach	Low	Better informed public, less coordination for Town personnel during hazard events.
	First responders go door-to-door during emergency events to inform public	Low, but time consuming	Not a proactive approach.

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

**Attachment B**

**STAPLEE Table -  
Town of Volney**

## Worksheet #6

STAPLEE Criteria Consideration Table  
Mitigation Action Prioritization and ComparisonJurisdiction Town of Volney

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		
Volney 1	Provide backup power for Town Highway Department	+	+	+	+	0	0	0	+	+	+	High	High	High (#1)
Volney 2	Install snow fencing during the winter along Silk Road and County Route 176	+	0	+	0	+	+	+	+	-	+	Medium	Low	Med (#2)
Volney 3	Develop and distribute property resilience brochure to all Town residents	+	0	+	0	0	+	+	+	+	+	Medium	Low	Med (#3)
Volney 4	Purchase two variable message boards for use along roadways to alert travelers of hazardous conditions	+	+	+	+	+	0	0	+	+	+	Medium	Low	Med (#4)
Volney 5	Expand public outreach regarding emergency preparedness	+	+	+	+	+	+	0	+	+	+	Medium	Low	Med (#5)