

10.2.12 Town of Greenville

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

10.2.12.1 Contacts

Primary and secondary contacts regarding this plan are identified as follows:

- George J. Hossann, Jr. – Supervisor
1537 US Highway 6
Port Jervis, NY 12771
(845) 856-5064

- Linnea Vail – Secretary to Supervisor
1537 US Highway 6
Port Jervis, NY 12771
(845) 856-5064

10.2.12.2 Municipal Profile

Population

According to the U.S. Census, the 2010 population for the Town of Greenville was four thousand, six hundred sixteen (4,616), with a population density of approximately one hundred fifty (150) persons per square mile. The population has increased by approximately 21.4% from the 2000 census of three thousand, eight hundred (3,800).

Location

The Town of Greenville is a small rural community that is located in the southwestern portion of Orange County (Town of Greenville Comprehensive Plan, 2002). The Town of Greenville's southern boundary borders New Jersey. The Town is bordered by the Town of Deerpark to the west, the Town of Minisink to the east, and the Towns of Mount Hope and Wawayanda to the north and northeast, respectively. The Town encompasses an area of 30.5 square miles.

Brief History

The oldest settlement in Greenville is Smith's Corners, founded by Elijah Smith in 1750 at the end of the Revolutionary War. In 1774, the New York/New Jersey Line War placed what is currently The Town of Greenville in New York State (Town of Greenville Comprehensive Plan, 2002). The Town of Greenville separated from the Town of Minisink on December 3, 1853.

Governing Body

The Town of Greenville's governing body consists of five (5) elected officials: a Town Supervisor, and four (4) council people. The Town also has an elected Town Clerk and Highway

Superintendent. The Town also has personnel consisting of a Town Board, Planning Board, Zoning Board of Appeals, and a Building Department.

Future Growth

The Town expects all future growth to align with the premises set forth in their 2008 Comprehensive Plan:

“Residents will work collectively to conserve and enhance Greenville's small-town rural character and natural beauty. Growth will be well planned and aesthetically pleasing and will create new economic opportunities for all. Desired services will be supported by a productive tax base that is broad, diverse and growing.”

Future development is expected to be limited to residential and agricultural in nature, potentially include small scale commercial in support of residences. Any new development will comply with current state building codes, stormwater management best practices per the Orange County Planning Department, and the Town’s Comprehensive Plan. Thus, mitigation efforts will not be needed to accompany such future growth.

10.2.12.3 Hazard Vulnerabilities and Ranking

Orange County has a history of natural hazard events which have historically impacted the County. During the 2015 HMP planning process Orange County selected natural hazards which have impacted the County or could potentially impact the County. Section 5.0 of this Plan update provides a summary of natural hazards which were selected by the Orange County HMP planning committee. The Town of Greenville identified twelve (12) natural hazards which impact the municipality:

- Drought
- Floods
- Severe Winter Storm
- Landslide
- Earthquake
- Ice Storm
- Severe Storm/Thunderstorm
- Ice Jam
- Hurricane
- Extreme Temperatures
- Wildfire
- Tornado

Risk Ranking

Vulnerability ranking for the Town of Greenville included factors such as: historical occurrences, municipal vulnerability, probability of future occurrences, historical damages and potential future damages. This risk ranking value helps to systematically identify which hazards are of the most concern. The table below ranks the hazards identified by the Town of Greenville during the hazard mitigation planning process. For further information about these hazards as well as other identified hazards in Orange County please refer back to Section 5.0 of this report for in depth review of all hazard profiles.

Table 10.2.12a: Hazard Vulnerability Ranking for the Town of Greenville			
Hazard	Vulnerability	Damage Potential	Future Probability
Drought	Moderate	Moderate	High
Earthquake	Low	High	Low
Hurricane	Low	Low	Moderate
Ice Storm	Low	Low	Moderate
Ice Jam	Moderate	Low	Low
Severe Storm/Thunderstorm	High	High	High
Wildfire	Moderate	Moderate	Moderate
Severe Winter Storm	High	Moderate	High
Extreme Temperatures	Moderate	Low	Moderate
Floods	Moderate	High	High
Landslide	Low	Moderate	Low
Tornado	Low	Moderate	Low

Critical Facilities

A list of community Critical Facilities was generated to aid in mitigation planning. The following table identifies facilities within the Town of Greenville which may be impacted by any of the previously noted hazards.

This information was used to identify potential needed improvements to existing Critical Facilities. Critical facilities were identified by the Town as meeting this definition: “Any structure(s) and/or infrastructure within a community whose incapacity or destruction would:

- Have a debilitating impact on the defense or economic security of that community.
- Significantly hinder a community’s ability to recover following a disaster.”

Discretion was left up to the participating jurisdiction to select these facilities.

Table 10.2.12b: Critical Facilities located in the Town of Greenville	
Facility Name	Address
Government	
Town Hall	1537 US Route 6
Emergency Services	
Greenville Ambulance	1495 Greenville Turnpike
Greenville Fire Department	1 Firehouse Road
Greenville DPW	519 Mountain Road
State Police Greenville Satellite Office	1537 US Route 6
Education	
Crystal Run Village	252 Mountain Road
Community Services	
Greenville Court	1537 US Route 6
Carlucci Home	252 Mountain Road
Lewis Landing Airport	19 Airport Lane
Benneywater Park	80 Benneywater Road

None of these facilities are located within the 500-year floodplain.

The Town of Greenville has three (3) critical facilities within the 500-year floodplain or the high hazard Landslide Rating¹ area. Below is a table that identifies the structures and hazard issues.

Table 10.2.12c: Town of Greenville Critical Facilities and Infrastructure in Hazard Areas			
Critical Infrastructure	500-Yr Flood	Landslide Rating Area	Associated Mitigation Action
Haroutious Dam	Y	N	N/A
Kagan Lake Dam	Y	N	N/A
Lake Arkin Dam	Y	N	N/A

As indicated in Section 2.8, participating municipalities did not wish to disclose the locations of public water systems facilities due to security concerns. However, they acknowledge the criticality of such facilities. While it is assumed that most municipal water systems facilities are not located within the floodplain, these jurisdictions will explore hardening/relocation opportunities for those that are located within the floodplain should such actions become necessary due to the incidence of flooding impacts.

By necessity, critical wastewater facilities are located within the 500-year floodplain due to discharge requirements and gravity-fed systems optimization. While relocation is neither desired nor feasible, participating municipalities will seek to harden these facilities where feasibly and fiscally possible.

¹ Areas with a landslide rating in of greater than 37 are considered hazardous. The data was derived from HAZUS software analysis.

Table 2.8a – Orange County NPDES Data lists all wastewater facilities in the County, including the Town of Greenville, with a NPDES (National Pollutant Discharge Elimination System) permit. In the case of New York State, NPDES permit listing match State Pollutant Discharge Elimination System (SPDES) permit listings.

Priority Hazard Events

The following sections detail the priority hazard events identified by the jurisdiction. Additional information about each hazard including frequency, history, and severity within Orange County is included within Section 5.0 of the main body of the Hazard Mitigation Plan (Volume I).

The probability of climate-related hazard events is generally expected to increase in the future within the Town of Greenville. This anticipated increase results from the expected increase in weather volatility associated with climate change. The Wallkill River Watershed also contributes to increased flooding occurrences.

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

Flood

Floods are natural events for rivers, lakes and streams where excess water from snowmelt, rainfall, or storm surges accumulates and overflows onto the banks and adjacent floodplains of these waterbodies. A portion of the Town of Greenville drains to the south into the Delaware River Drainage Basin, while the eastern portion of the Town drains north into the Wallkill River Drainage Basin. Certain areas of this watershed have experienced major damages due to flooding. The table below shows that the Town of Greenville has approximately seven hundred eighty-three (783) acres of land which are within the high flood risk zone (100-year storm event) and approximately thirty (30) acres which are in the moderate flood risk zone (500-year storm event). Land within these flood zones accounts for approximately four (4) percent of the total land area in the Town.

Table 10.2.12d: Summary of Land Areas in Flood Hazard Areas in the Town of Greenville (Source: FEMA DFIRM Data, 2016)						
Municipality	Total Land Area (Acres)	High Flood Risk (Acres)	Moderate Flood Risk (Acres)	Low Flood Risk (Acres)	Land in High Flood Risk %	Land in Moderate Flood Risk %
		A, AE, AH, AO	X500	X	A, AE, AH, AO	X500
Greenville, Town of	19,449	783	30	18,635	4%	0%

Below is a table that illustrates the value of property in the Town of Greenville that is located within the 500-year floodplain and is categorized by land use type. This table was derived from FEMA floodplain mapping and parcel data from the Orange County Property Assessor.

Type of Structure	# Structures in Hazard Area	Value of Structures (in millions)
Residential	74	\$6.8
Commercial	1	\$0.3
Industrial	0	\$0
Agricultural	0	\$0
Religious/Non-profit	0	\$0
Government	0	\$0
Education	0	\$0
Utilities	0	\$0
Dams	3	Unknown
Parks	0	\$0
Total	78	\$7.1

Extreme Temperatures

For a description for this hazard, please see section 5.1.

Historical Occurrence:

In the past ten (10) years there is no record of any Extreme Temperatures that have explicitly impacted the Town of Greenville, however, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

Severe Storm/Severe Thunderstorm

Severe thunderstorms are common across the northeast; these storms typically form during the spring and summer months. A severe storm hazard event includes hail storms, windstorms, and severe thunderstorms. Serious injury or death is likely due to this hazard's relationships to motor vehicle accidents, wind damage, or other cascading effects. A severe storm may also result in moderate damage to private property and public facilities.

Historical Occurrence:

It's important to note that these events often affect large geographic areas and reports specific to municipalities aren't often recorded. Searching NOAA's Storm Events Database with the queries "Thunderstorm Wind", "Lightning", and "Hail" yielded two (2) events within the Town of Greenville over the last two (2) decades.

- August 28, 2001 – Scattered power outages resulted from thunderstorms, as winds toppled tree limbs onto power lines. Areas hardest hit included Port Jervis, Greenville, Greenwood Lake and Middletown.
- March 10, 2002 – Scattered severe thunderstorms produced high winds that downed many trees onto power lines at several locations including Greenville, Middletown, and Warwick.

Hurricane

For a description of this hazard, please see section 5.3.

Historical Occurrence:

In the past ten (10) years there is no record of any Hurricanes that have explicitly impacted the Town of Greenville, however, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document. It is of note that hurricane threats could potential increase due to climate change trends.

Drought

For a description of this hazard, please see section 5.5.

Historical Occurrence:

There have been several drought events which have impacted the Town of Greenville. The NCDC storm events database identified 10 drought events which impacted Orange County between 1950 and 2012. Table 10.2.12f identifies drought events which have impacted the Orange County which includes the Town of Greenville between 2001 and 2015. Sources used to obtain this information were the Orange County HMP, NCDC storm events data, and USDA historical loss data.

Table 10.2.12f: Drought Events Town of Greenville (2001-2015)			
Dates of Event	Event Type	Losses/ Impacts	Source(s)
November 2001 – January 2002	Water Shortage	The combined storage in the New York City water supply reservoir system was 41% of capacity (normal for this time is 71%).	NYS HMP, Orange County HMP, NCDC
April – October 2002	Drought and Water Shortage	Ground water and water storage facilities were below normal. The New York City reservoir system reached a low of 64.5%, which was 34% below normal. Orange County Officials claimed that this was the worst drought in almost 30 years.	NYS HMP, Orange County HMP, NCDC
June 1 to October 24, 2012	Drought and Excessive Heat (USDA Designation Number S3427)	USDA Disaster Designation information indicates that drought and excessive heat conditions resulted in production losses. USDA historical loss data indicates that onion and corn crop impacts resulted in approximately \$23,750 worth of damages in Orange County.	USDA

Table 10.2.12f: Drought Events Town of Greenville (2001-2015)			
Dates of Event	Event Type	Losses/ Impacts	Source(s)
Winter 2013	Drought (USDA Designation Number S3487)	Drought conditions were observed over the winter of 2013, no associated crop losses occurred due to the timing of the drought.	USDA
August 15, 2014- Continuing	Drought (USDA Designation Number S3759)	USDA Disaster Designation information indicates that drought conditions caused agricultural damages across Orange County. USDA historical loss data indicates that onion crop impacts resulted in approximately \$10,350 worth of damages in Orange County.	USDA
April 1, 2015- September 29, 2015	Excessive Heat and Drought (USDA Designation Number S3930)	USDA Disaster Designation information indicates that drought conditions caused agricultural damages across Orange County. USDA historical loss data indicates that corn crop impacts resulted in approximately \$7,725 worth of damages in Orange County.	USDA

Landslide

Landslides occur when a slope fails and moves downward due to gravity; this can be caused by anything that disrupts ground stability, from storms to acts of man. The New York State Geological Survey denotes areas with steep slopes and glacial lake clay soils. Several locations in the south and west portions of the Town are mapped as having a higher susceptibility to landslides based on local slopes and soils. These areas are mapped near Clark Road, Carpenter Road, and Greenville Turnpike. The USGS landslide hazard maps indicate a “high landslide incidence for areas in eastern Orange County, mainly adjacent to the Hudson River, as well as a “high susceptibility/ moderate incidence” for locations mainly within the Town of Deerpark. Additionally, the 2011 Orange County HMP identified one (1) historical landslide which impacted the Town of Greenville. Details of this slide indicate a rock slide occurred onto Route 84. The actual date of this landslide was not recorded (Orange County HMP, 2011).

Based on overall landslide susceptibility and the number of historical events, Orange County is ranked in the NYS HMP as the 14th most threatened by landslides of the sixty-two (62) Counties. Analysis of critical facilities that fall into these high landslide rating areas can be found in Table 10.2.4c and in Attachment I.

Below is a table that illustrates the value of property in the Town of Greenville that is located within the landslide rating area and is categorized by land use type. This table was derived from GIS mapping and parcel data from the Orange County Property Assessor.

Type of Structure	# Structures in Hazard Area	Value of Structures (in millions)
Residential	148	\$13.5
Commercial	1	\$0.3
Industrial	0	\$0
Agricultural	0	\$0
Religious/Non-profit	0	\$0
Government	0	\$0
Education	0	\$0
Utilities	0	\$0
Dams	0	\$0
Parks	0	\$0
Total	149	\$13.8

Earthquake

Earthquakes can result in mass damage depending on severity and lack of forewarning. According to the USGS Seismic Hazard Map for Percent Peak Acceleration, the Town of Woodbury is shown as being at higher seismic risk than the majority of municipalities within New York State. The Ramapo Fault Zone spans one hundred eighty-five (185) miles between the Northern Appalachian Mountains in the east through New York, New Jersey, and Pennsylvania. Earthquakes in this region rarely exceed 3.0 on the Richter Scale. Earthquakes in the Town of Greenville are not common.

Historical Occurrence:

A review of the USGS Earthquake information database indicated that there have been five (5) earthquakes with epicenters in Orange County over the last sixty (60) years; none of these were located within the Town of Greenville. Table 10.2.12h provides details of these historical earthquake events. No damages are reported within the Town of Greenville as a result of these minor earthquakes.

Date	Latitude	Longitude	Distance (Miles)	Magnitude
3/5/1978	41.352°N	74.146°W	22.74	2.1
4/20/2003	41.361°N	74.370°W	11.2	2.3
3/14/2008	41.336°N	74.452°W	8.46	2.3
3/15/2008	41.337°N	74.463°W	8.46	1.9

Severe Winter Storm

For a description of this hazard, please see section 5.8.

Historical Occurrences:

In the past ten (10) years there is no record of any Severe Winter Storm that have explicitly impacted the Town of Greenville, however, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

Ice Storm

For a description of this hazard, please see section 5.8.

Historical Occurrence:

In the past ten (10) years there is no record of any Ice Storms that have explicitly impacted the Town of Greenville, however, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

Wildfire

For a description of this hazard, please see section 5.9.

One of the major contributing factors to severity of wildfires depends on the presence of humans within areas where wildfires would typically occur. The Wildland/Urban Interface (WUI) is the area where houses and wildland vegetation meet. Housing developments alter the structure and function of forests. The 2014 Annual Report for the NYSDEC Division of Forest Protection indicates that there were twenty-three (23) wildfires within Zone 3B which includes the Town of Greenville. These wildfires burnt a total of two hundred thirty-nine (239) acres; none of these wildfires were over one hundred (100) acres in size. The 2013 Annual Report for the NYSDEC Division of Forest Protection indicates that there were 11 wildfires in Zone 3B that year. Two (2) of these wildfires were over one hundred (100) acres in size, a total of 672.6 acres were burnt during wildfires during the 2013 wildfire season. The 2012 Annual Report for the NYSDEC Division of Forest Protection shows that there were seven (7) wildfires in Zone 3B that year. One (1) of these wildfires was over one hundred (100) acres in size with a total of 507.6 acres burning during wildfires in the 2012 wildfire season.

The Town of Greenville has an elevated risk of wildfire occurrences within its jurisdiction because of the tracts of undeveloped land within the Town.

10.2.12.4 Capability Assessment

Planning and Regulatory Capability

A series of worksheets were provided to the community to identify local mitigation capabilities which are already in place within Town of Greenville. These policies, programs and resources can reduce hazard impacts and can be used to implement hazard mitigation activities. A summary of these are shown in the table below. The complete Capability Assessment Worksheets are included as an appendix to this Jurisdictional Annex.

Table 10.2.12i: Planning and Regulatory Capabilities for the Town of Greenville		
Regulatory Tools for Hazard Mitigation	Description	Responsible Department/Agency
Codes	Town of Greenville - Local Law, Building Code, includes zoning, subdivision ordinance, floodplain, and natural hazard specific ordinances.	Building inspector, Zoning Board, Planning Board
	Codes of New York State, includes provisions for development and activities within floodplain areas	NYS Laws
Ordinances	<ul style="list-style-type: none"> • Zoning Ordinance • Subdivision Ordinance • Natural Hazard specific Ordinance • Flood Ordinance 	<ul style="list-style-type: none"> • Zoning Board Clerk • Planning Board Clerk • Town Engineer
Plans, Manuals, and/or Guidelines	Comprehensive Master Plan	Town Planning Board
	Capital Improvements Plan	Town Planning Board
	Local Emergency Operations Plan	Town Planning Board
Studies	FIRM Flood Insurance Rate Maps	FEMA

Administrative and Technical

Table 10.2.12j: Summary of Administrative and Technical Staff Capabilities for the Town of Greenville		
Staff/Personnel Resources	p	Department/Agency - Position
Planner(s) or engineer(s) with knowledge of land development and land management practices	p	Town Engineering Consultant
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	p	Town Engineering Consultant
Planner(s) or engineer(s) with and understanding of natural and/or human-caused hazards	p	Town Engineering Consultant
NFIP Floodplain Manager	p	Town Building Inspector
Emergency Management	p	Volunteer as needed
Person skilled or trained in "GIS" applications	-	Uses services provided by Orange County
Surveyors	p	Town Engineering Consultant
Grant writer	-	-

Table 10.2.12j provides a summary of available technical and administrative resources in place within the Town of Greenville which can be used in pre-disaster planning and mitigation as well as mobilized in the event of a disaster.

Fiscal

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

Table 10.2.12k: Fiscal Capabilities for the Town of Greenville		
Financial Resources	Accessible or Eligible to Use (Yes, No, Don't Know)	Comments
Community Development Block Grants (CDBG)	Yes	Various projects
Capital Improvements Project funding	Yes	State Police Barracks, Roads, Town Buildings, and Parks
Authority to levy taxes for specific purposes	Yes	Various projects
Fees for water, sewer, gas, or electric service	N/A	
Impact fees for new developments/homes	Yes	Park and Recreation
Incur debt through general obligation bonds	Yes	Various projects
Incur debt through special tax bonds	Yes	Various projects
Withhold public expenditures in hazard-prone areas	No	
State mitigation grant programs	Yes	NYSDHSES, CHIPS, SHIPS
Other	Yes	FEMA Public Assistance

NFIP: Administrator, Vulnerability, Resources, Compliance

The Town of Greenville has participated in NFIP (ID# 360615) since July 8, 1977. Administration is provided through the Town Planning Board. The Town has a floodplain development permit which is administered by the Town of Greenville's Building Inspector / Planning Board. This individual is responsible for reviewing Floodplain Development Permits, granting permits, maintaining construction compliance, and reviewing post construction impacts. Details of NFIP policies within the Town of Greenville are provided in the table below.

Table 10.2.12l: NFIP Statistics for the Town of Greenville (FEMA)				
NFIP Loss Statistics as of January 31, 2018				
Total Losses	Closed Losses	Open Losses	CWOP Losses	Total Payments
2	0	0	2	\$0.00
NFIP Policy Statistics As of January 31, 2018				
Policies in-force		Insurance in-force	Written Premium in-force	
9		\$2,690,000	6,235	
CWOP = Losses that have been closed without payment				

There are no repetitive loss properties in the Town of Greenville according to Table 8.2c.

The Town has been maintaining NFIP participation by performing the duties and actions that were listed in the local laws that their municipal boards adopted. (Local Law #3 of 2009)

The Town Floodplain Administrator has been provided a NFIP best practices incorporation guidance document and will be using it to improve local participation in NFIP standards going forward. This package of documents was provided by NYSDHSES and can be found in Appendix F - NFIP Floodplain Administrator Guidance Package.

Hazard Mitigation: Existing and Planning Mechanisms

Emergency Communications, Routes, and Shelters:

The Town of Greenville and Orange County utilize the CodeRed Emergency Communications System. The Town follows emergency route rules set by Orange County. The Town has one (1) emergency shelter location: Greenville Senior Center (1537 US Highway 6, Port Jervis, NY 12771. More information on these sites can be found in Attachment III.

Comprehensive Plan:

The Town of Greenville has a Comprehensive Plan from 2004. The Town Zoning Code and Planning Board have adopted regulations which allow for specific regulations regarding Flood Damage Prevention. The 2004 Comprehensive Plan and Town Zoning Code will be used to inform this document and provide guidance on actions moving forward.

Planning Mechanisms:

While this annex has provided a summary and description of existing plans, policies, and regulatory mechanisms that support hazard mitigation, the 2018 Orange County Hazard Mitigation Plan Update is intended to allow for the integration of its recommendations and data into local plans. Listed below are several planning and policy mechanisms that lend themselves to the integration of materials and objectives from this hazard mitigation plan. Columns to the right indicate whether the municipality has utilized hazard mitigation planning elements in the past (as in the aftermath of a previous local hazard mitigation plan) and whether they intend to be utilized in the future (which most, if not all, do).

Table 10.2.12m: Incorporation of Hazard Mitigation Planning into Existing and Future Planning Mechanisms		
Planning Mechanism	Has been Utilized	May be Utilized
Capital Improvement Budget: Hazard Mitigation Actions to be considered during the development of annual capital improvement plans. Compliance with Hazard Mitigation goals and objectives as well as the hazard vulnerability of site will be a consideration during the evaluation of infrastructure and facilities projects.		X
Operating Budget: Hazard Mitigation Actions to be considered within day-to-day operating budgets as funding permits.		X
Building & Zoning Ordinances: Review of the hazard mitigation plan and hazard analyses are part of the evaluation of land use, zoning, and development review ordinances and permitted processes.		X
Comprehensive Land Use Plan: Elements such as hazard vulnerability and hazard area extents will be considered during the development of future land use maps and other elements of comprehensive planning.		X
Human Resource Manual: Employee job descriptions may contain elements related to hazard mitigation planning and associated recommendations.		X
Grant Applications: Support for funding requests in the form of data, maps, and priority recommendations will be drawn from the hazard mitigation plan.		X
Fire Plan: Fire Plans for the municipality and local fire departments can utilize data and mapping in the hazard mitigation plan.		X
Local School Service Projects: Municipal officials and staff can explore the possibility of collaboration with local school districts to provide avenues for student community service projects as well as educational opportunities.		X
Economic Development: Local chambers of commerce and other economic development agencies can utilize the hazard mitigation plan to better inform new/expanding businesses in finding a location.		X

Summary

This Plan will be used to inform the Town's Comprehensive Plan, Town Codes, and provide guidance on actions moving forward.

10.2.12.5 Mitigation Strategy and Prioritization

Past, Completed, and Ongoing Initiative

The Town of Greenville did not identify any past, completed or ongoing mitigation related initiatives.

Proposed Initiatives

The Town of Greenville identified four (4) mitigation actions which address natural hazard impacts during the planning stages of the 2016 Orange County HMP update.

Table 10.2.12n: Mitigation Actions/Projects Identified by the Town of Greenville				
Action Number	Description	Involved Agency(ies)	Funding Source(s)	Priority
GT-1	Generator for Town Hall and Senior Center, installation of 2 100 kw industrial diesel generators. This would create a warming area, communication center during a disaster event (power loss).	Town Board with assistance from Orange& Rockland Utilities	FEMA HMGP, NYS Funding through Assembly Initiative	High Priority (2)
GT-2	Highway Garage #1, installation of a 20 kw generator at the highway garage. This will allow the highway garage to still function during power outages.	Highway Department with assistance from Orange& Rockland Utilities	FEMA HMGP, NYS Funding through Assembly Initiative	Medium Priority (3)
GT-3	Highway Garage #2, installation of a 30 kw generator at the highway garage. This will allow the highway garage to still function during power outages.	Highway Department with assistance from Orange& Rockland Utilities	FEMA HMGP, NYS Funding through Assembly Initiative	Low Priority (4)
GT-4	Generator for Resource Center, installation of 240 kw industrial diesel generator. This would power during outages for the Town Hall complex.	Town Board with assistance from Orange& Rockland Utilities, New York State Police	FEMA HMGP, NYS Funding through Assembly Initiative	High Priority (1)

STAPLEE forms were completed for each of these actions. A table with these evaluations can be found in Attachment II of this jurisdictional annex.

“STAPLEE” refers to the following lenses of evaluation: social, technological, administrative, political, legal, economic, and environmental.

Future Needs

The Town of Greenville did not identify any future needs outside of the mitigation actions outlined above.

10.2.12.6 Hazard Area Extent and Location

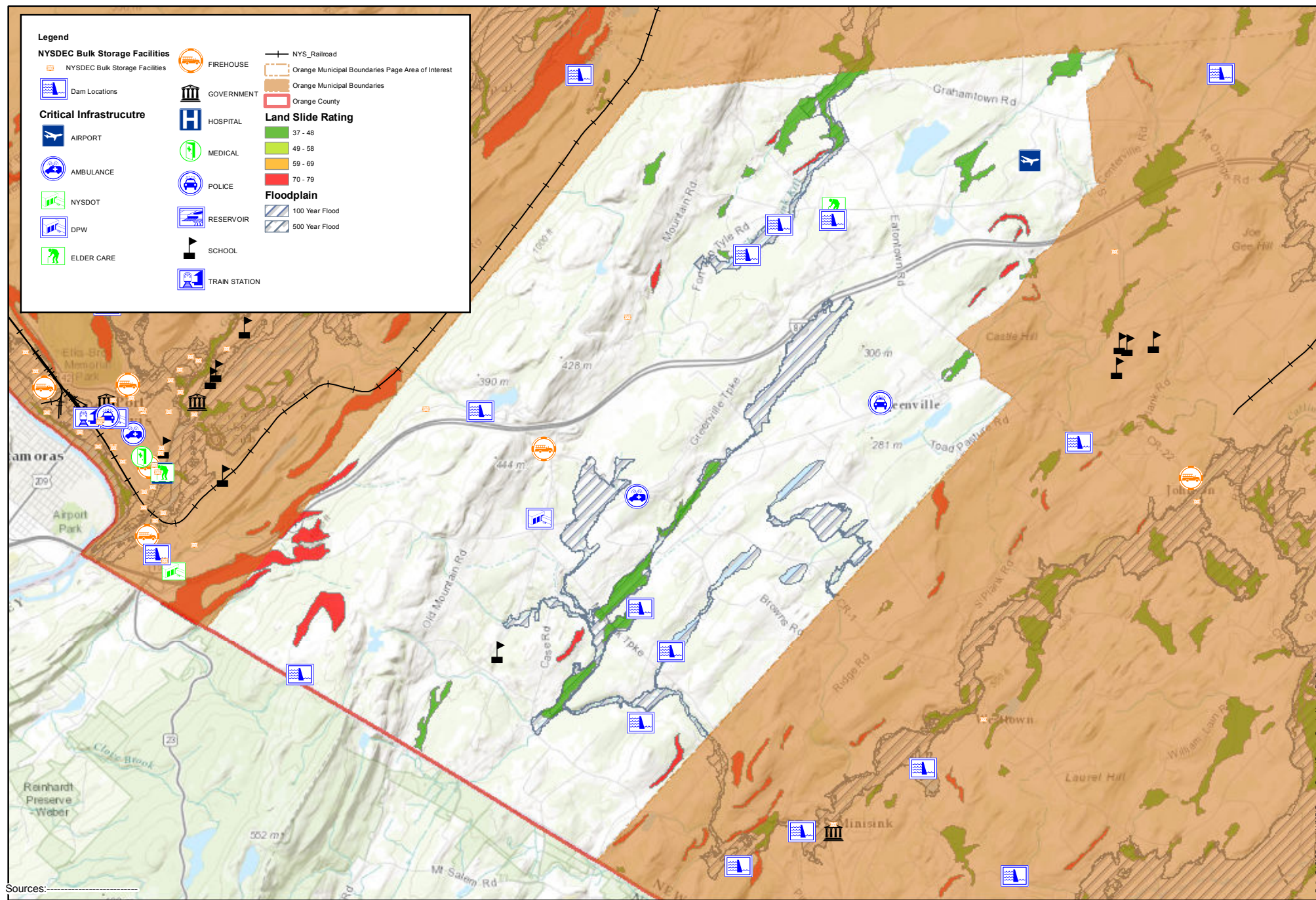
A map demonstrating the location of certain hazard areas is attached as Attachment I.

Attachment I

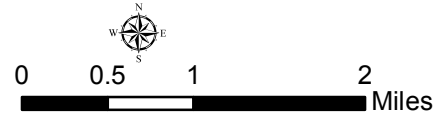
Hazard Area Extent and Location Map - Town of Greenville

Legend

NYSDEC Bulk Storage Facilities	FIREHOUSE	NYS_Railroad
Dam Locations	GOVERNMENT	Orange Municipal Boundaries Page Area of Interest
Critical Infrastructure	HOSPITAL	Orange Municipal Boundaries
AIRPORT	MEDICAL	Land Slide Rating
AMBULANCE	POLICE	37 - 48
NYS DOT	RESERVOIR	49 - 58
DPW	SCHOOL	59 - 69
ELDER CARE	TRAIN STATION	70 - 79
		Floodplain
		100 Year Flood
		500 Year Flood



Sources:-----



Path: C:\GIS\workspace\Orange County\workspace\Orange County Hazard Mitigation Plan\...

Attachment II

STAPLEE Mitigation Action Cost/Benefit Analysis - Town of Greenville

STAPLEE Criteria Consideration Tables
Mitigation Action Prioritization and Comparison

Jurisdiction: Town of Greenville

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	
GT-1	Town Hall and Senior Center Generators	+	+	0	+	+	-	0	+	+	+	High	Medium (\$60,840)	High
GT-2	Highway Garage #1 Generator	+	+	0	+	+	-	0	+	+	+	Medium	Medium (\$36,000)	Medium
GT-3	Highway Garage #2 Generator	+	+	0	+	+	-	0	+	+	+	Medium	Medium (\$27,000)	Medium
GT-4	Resource Center Generator	+	+	0	+	+	-	0	+	+	+	High	Low (\$9,680)	High

Attachment III

**Hazard Mitigation Worksheets -
Town of Greenville**

Mitigation Actions and Strategy Detail Worksheet

Action Worksheet	
Name of Jurisdiction	Town of Greenville
Name of Hazard Mitigation Plan	Orange County
Potential Actions/Projects (not being implemented at this time)	
Action/Project Number	1
Name of Action/Project	Generator Town Hall/Senior Center
Summary of Evaluation: Benefits (losses avoided), estimated costs, and other factors considered	100 KW Industrial Diesel Generator Warming center, charging center, communications communication center, Estimated cost \$ 10,840 ⁰⁰
Plan for Implementation	
Responsible Organization	Town Board
Action/Project Priority	High Priority 2
Potential Funding Sources	Member of NYS Senate or Assembly Initiative FEMA HMGP CDBG
Other assisting organizations, entities, etc.	Orange: Rockland Utilities FEMA, Community Development,
Local planning mechanisms to be used in project/action implementation, if any	
Progress Report	
Date of status report	
Report of progress	
Evaluation of effectiveness	

Mitigation Actions and Strategy Detail Worksheet

Action Worksheet	
Name of Jurisdiction	Town of GREENVILLE
Name of Hazard Mitigation Plan	ORANGE COUNTY
Potential Actions/Projects (not being implemented at this time)	
Action/Project Number	4
Name of Action/Project	17K 120/240 Generator / RESOURCE CENTER
Summary of Evaluation: Benefits (losses avoided), estimated costs, and other factors considered	Powers well for the Town Hall Complex. estimated cost \$ 9,680 ⁰⁰
Plan for Implementation	
Responsible Organization	Town Board
Action/Project Priority	High Priority 1
Potential Funding Sources	NYS Senate or Assembly Member Initiative CDBG FEMA HMGP
Other assisting organizations, entities, etc.	Orange; Rockland Orange Co. Community Devel. FEMA New York State Police
Local planning mechanisms to be used in project/action implementation, if any	
Progress Report	
Date of status report	
Report of progress	
Evaluation of effectiveness	

Orange County
Multi-Jurisdictional All Natural Hazard Mitigation Plan
Emergency Shelter Questionnaire

Name of Your Municipality:	<u>Town of Greenville</u>
Common Name of Your Emergency Shelter:	<u>Senior Center</u>
Street Address of Your Emergency Shelter:	<u>1537 US Highway 6</u>
Name of the Owner of Your Emergency Shelter:	<u>Town of Greenville</u>
Name of the Regular Occupant of Your Emergency Shelter:	<u>Town of Greenville</u>

Name of Jurisdiction: _____

**RESOLUTION
TO AUTHORIZE THE ACCEPTANCE AND ADOPTION OF THE
MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE FOR
ORANGE COUNTY, NEW YORK**

WHEREAS, the Orange County Department of Emergency Services, with the assistance from Barton & Loguidice, D.P.C., has gathered information and prepared the Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County, New York; and

WHEREAS, the Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County, New York has been prepared in accordance with the Disaster Mitigation Act of 2000 and Title 44 Code of Federal Regulations (CFR), Part 201; and

WHEREAS, Title 44 CFR, Chapter 1, Part 201.6(c)(5) requires each local government participating in the preparation of a Multi-Jurisdictional Mitigation Plan or Plan Update to accept and adopt such plan; and

WHEREAS, the Town of Greenville, has reviewed the 2016 Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County, has found the document to be acceptable, and as a local unit of government, has afforded its citizens an opportunity to comment and provide input regarding the Plan Update and the actions included in the Plan;

WHEREAS, the Town of Greenville, will consider the Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County during the implementation and updating of local planning mechanisms, and will incorporate the hazard assessment data, hazard vulnerabilities, and mitigation actions in these mechanisms, where applicable;

NOW THEREFORE, BE IT RESOLVED, that the Town of Greenville, as a participating jurisdiction, adopts the Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County, New York, dated May 2016.

This resolution was thereupon declared duly adopted on _____.

(Supervisor)

(Clerk)