

MADISON COUNTY HAZARD MITIGATION PLAN 2016

Town of Lenox



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Background

The Town of Lenox is a community of 9,112 residents located in the northern portion of the county. 74.3% of the residents are between the ages of 18 and 65, while only 14.8% are over the age of 65 (residents). The town currently encompasses approximately 32 square miles. The town has an equalized assessed value of approximately \$192 million dollars, which is distributed across a variety of property classes. There are 1,995 single family occupied homes within the town.

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Land Use and Development Trends

Some major subdivisions are in preliminary stages. Minor subdivisions in which large parcels are divided along existing road frontage are occurring along Route 31, Lewis point Road, and south of Route 5 to the Town line. The Lenox Industrial Park is continuing to expand.

Assets

Canastota Fire Department – This facility has two big rooms upstairs.

Wampsville Fire Department – Bingo hall (50' x 200') on Department property has capacity for 200 people.

Office of the Aging – Located at the Lenox Industrial Park. This building has full kitchen facilities but does not have a generator in case of a power failure.

Lenox Industrial Park – This facility also has a helicopter pad in case of emergency. Some of their unused industrial space may be available as needed.

Highway Department – Located northwest of the intersection of New Boston Road and Indian Opening Road. This building has four bays for repairing trucks and an office space. This building does not have a generator and is not wired for one in case of power failure. There is also a 30 foot by 50 foot building on site that is used to store equipment.

Equipment:

- 1 All-wheel Drive 10 wheel truck with plow and sander
- 6 Rear wheel drive 10 wheel trucks with plow and sander
- 1 Front end loader
- 1 Gradall
- 1 Rubber Tired backhoe
- 2 Six Wheel dump trucks
- 1 Grader
- 2 Paving Rollers
- 1 Paver
- 1 Single Ton Truck
- 3 Pick-ups

Town Hall – This facility is located at 205 S. Peterboro Street in the Village of Canastota. It is also the seat of Village Government. The downstairs courtroom is used for meetings and can accommodate 60 people.

Private Airfield – A grass landing strip belonging to Michael Bargabos is located at the intersection State Highway 13 and Pine Ridge Road.

Telephone Switching Center – This facility belongs to Verizon Company. It is located on the 100 block of East Hickory Street.

Water Tower – Off of Oxbow Road. This structure supplies water pressure to Onondaga County Water Authority (OCWA) customers. OCWA is the water source for most Town of Lenox residents.

Tri-Valley Health Center – Located on Mount Pleasant Road. This facility has six small treatment rooms.

Health Center – Located on Center Street in Village. This facility has three examination rooms.

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Church of the Nazarene parish center holds 300 to 400 people.

St. Agatha's Church has capacity for 300 in the church and 200 to 300 people in the parish center.

The American Legion has capacity for 200 people.

The VFW Hall holds 100 people.

Greystone Banquet hall has capacity for 250 people.

The Rusty Rail Restaurant on Route 5 has capacity for 1000 people.

Local Organization and Regulations

The Town Board meets on the second Monday of each month at 7:30 PM.

The Town Planning Board meets on the second Wednesday of each month and has input on all development occurring with the Township.

The Zoning Board of Appeals meets on the third Thursday of each month.

The Wampsville and Canastota Fire Departments pump basements in the event of flooding as a free service to the public.

The Town Highway Department provides sandbags for flood mitigation when flooding occurs due to high lake levels along Oneida Lake.

The Planning Process

Steve Lorraine, Madison County SWCD, met with Town Supervisor John Pinard on January 12, 2012. The Town Council directed Mr. Lorraine to contact, Scott Henderson, administrator/Code Enforcement and subsequently work with the Planning Board to collect information needed for a Town of Lenox section of the mitigation plan. Mr. Lorraine met with Mr. Henderson on February 11, 2012, potential problems for the Town of Lenox were reviewed and then located on a map provided by Mr. Lorraine. Mr. Lorraine met with Lenox Town Board on November 11, 2013 to update them on the proposed plan, which was approved.

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Public Involvement

Two meetings were held at which members of the public were invited to provide input on the hazard mitigation planning process. These meetings were publicized in the Syracuse Post Standard, Oneida Daily Dispatch, Canastota Bee Journal, and Cazenovia Republican. No members of the public attended these meetings. One citizen did call Madison County Soil and Water Conservation District from the City of Oneida to express concerns about flooding there. As soon as the first draft of the entire plan for Madison County is finished, it will be posted on the Madison County website. All members of the public will be provided a means of providing input at that time.

Input from Neighboring Communities, Agencies, Businesses, Academia, Nonprofits and Other Parties

A copy of the Town of Lenox HMP has been submitted to:

- Canastota School District
- Saint Agatha's Church
- Greater Canastota Chamber of Commerce

Existing Plans, Studies, Reports, and Technical Information

- Code of the Town of Lenox

Hazards

As part of the Madison County Comprehensive Emergency Management Plan, a Hazard Analysis was conducted using the HAZNY program with data supplied by the National Oceanic & Atmospheric Administration, and ESRI Hazards data. This HAZNY analysis identified Moderately High Danger in order from Severe Storms, Transportation Accidents, Winter Storms, Fires, and HAZMAT (in Transit). The HAZNY analysis identified Moderately Low Danger in order from Ice Storm, Terrorism, Flood, Utility Failure, Water Supply Contamination, Tornado, Oil Spill, HAZMAT (Fixed Site), Ice Jam, Infestation, Radiological (Fixed Site), Extreme Temperatures, Epidemic, Drought, and Explosion. The Madison County Hazard Mitigation Plan is required by FEMA to address natural disasters. Sections of this plan have been written on a County-wide basis for Severe Storms, Transportation Accidents, Winter Storms, Fire, Ice Storm/ Utility Failure, Flood/ Hurricane, and Tornado. The following table is used to determine whether or not the local community's hazard danger differs from the County as a whole for natural disasters and a few chosen man-made disasters. The local community can also decide whether or not a section on a particular hazard should be written specifically for that municipality.

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Hazard	Madison Co. Class.	Madison Co. Ranking	Town of Lenox Probability Greater (G), Lesser (L) About Equal (E)	Town of Lenox Issues Beyond County-wide Plan Yes (y), No (n)
Severe Storms	Mod. High	312.2	E	N
Transportation Accidents	Mod. High	285.2	G	N
Winter Storms	Mod. High	272.2	E	N
Fires	Mod. High	265.2	E	Y
Ice Storms	Mod. Low	236.2	E	N
Flood	Mod. Low	222.8	G	Y
Utility Failure	Mod. Low	218.5	E	N
Tornado	Mod. Low	202.5	E	N
Ice Jam	Mod. Low	180.5	E	N
Infestation	Mod. Low	173.8	E	N
Extreme Temperatures	Mod. Low	169.8	E	N
Epidemic	Mod. Low	164.2	E	N
Drought	Mod. Low	164.2	E	N
Wildfire	Low	160.5	E	N
Wave Action	Low	159.5	E	N
Dam Failure	Low	159.2	E	N
Hurricane	Low	158.8	E	N
Earthquake	Low	150.5	E	N
Blight	Low	96.2	E	N
Landslide	Not Rated		E	N

Types of Mitigation Measures

This section is used to indicate the types of mitigation actions that already are in use in the Town of Lenox.

Prevention - Government administrative or regulatory actions or processes that influence the way land and buildings are developed and built. These actions also include public activities to reduce hazard losses.

	Building Code	Density Controls	Design Review Standards	Easements	Environmental Review Standards	Flood plain Development Regulations	Floodplain zoning
Lenox Program	State BOCA Codes	No	Building Codes, Zoning	Yes	SEQR	Federal Insurance Rules	No

Transfer of Developme	Hillside Developme	Open Space	Performa nce	Streambank Setback	Specia l Use	Stormwate r	Subdivision &
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Int Rights	Int Regulations	Preservation	Standards	Regulations	Permits	Management Regulations	Development Regulations
State & Federal Programs Available for Ag	No	Building Lot Density Coverage Rules	Yes	State health Dept. Rules for Septic, NYS Canal Setback	Yes	State Regs Apply	Yes

Property Protection - Actions that involve the modification of existing buildings or structures to protect them from a hazard, or removal from the hazard area.

	Acquisition of Hazard Prone Structures	Construction of Barriers Around Structures	Elevation of Structures	Relocation Out of Hazard Areas	Structural Retrofits (e.g. floodproofing)
Lenox Program	No	No	Yes	No	No

Public Education and Awareness - Actions to inform and educate citizens, elected officials, and property owners about the hazards and potential ways to mitigate them.

	Hazard Information Centers	Outreach Programs	Real Estate Disclosure	School-age and Adult Education Programs
Lenox Program	No	Education of Elected to NIMS Standards	State Rules Apply	Fire Safety Education, Fire Prevention Week

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Natural Resource Protection - Actions that, in addition to minimizing hazard losses, also preserve or restore the functions of natural systems.

	Best Management Practices	Forest & Vegetation Management	Sediment & Erosion Control Regulations	Stream Corridor Management	Stream Dumping Regulations	Urban Forestry & Landscape Management	Wetlands Development Regulations & Restoration	Watershed Management
Lenox Program	Technical assistance available through SWCD office	No	State Regs for greater than 1 acre development	No	State Rules Apply	No	State & Federal Rules Apply	Oneida Lake Program

Emergency Services - Actions that protect people and property during and immediately after a disaster or hazard event.

	Critical Facilities Protection	Emergency Response Services	Hazard Threat Recognition	Hazard Warning Systems	Health & Safety Maintenance	Post Disaster Mitigation
Lenox Program	No	Fire Police Ambulance	MSDS Sheets on File with Fire Department	911 Center Alert System	No	Red Cross

Structural Projects - Actions that involve the construction of structures to reduce the impact of a hazard.

	Channel Maintenance	Dams/ Reservoirs	Levees & Floodwalls	Safe Room/ Shelter
Lenox Program	No	No	No	Red Cross Shelters, Safe Room in Town Hall

Incorporation of Hazard Mitigation Plan requirements into local planning mechanisms

The foregoing list of existing mitigation measures and the proposed mitigation actions that follow will be considered during the next rewrite of the Code of the Town of Lenox.

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Mitigation Actions by Hazard

A. Flooding

Mitigation Goals

Minimize loss of property, risk of injury, damage to the environment, and loss of infrastructure from 500 year flooding events.

Historical Events

April 1993 – Flooding occurred in many locations near Oneida Lake because of high lake levels that were associated peak runoff from a large snow pack that year.

January '96 Flood – This was a region wide event in which a warm rain fall melted an accumulated snowpack. It was believed to be comparable to the 50 year frequency storm of 4.9 inches in a 24 hour period.

Locations Subject to Hazard

Arthur Jenkins Avenue – Flooding in this neighborhood has a number of causes. Land near the lakeshore is fairly flat and does not drain rapidly. If the lake level is raised as is apt to happen in the Spring, there is no suitable outlet for runoff. Landowners sometimes will fill in drainage ditches because they prefer a level lawn area but do not realize the consequences of their actions. Culverts on a tributary that flows from the south through the neighborhood are undersized.

Kaiser Beach – 60 houses in this area flood when Oneida Lake levels rise. Major flooding in Spring of 1993.

Old Orchard Road/ Lewis Point Road area – 50 houses in this area suffer flooding during periods of high water levels on Oneida Lake.

Duck Cove area – Located east of Arthur Jenkins Avenue. 6 houses in this area suffer lake level flooding.

Main Street & Warner's Road – Box culvert under Main Street needs to be lowered. Any heavy rains cause repetitive flooding to houses upstream of this location (6 houses, 4 with basements).

Development in Hazard Area

Some new development is occurring in the Kaiser Beach, Old Orchard Road, and Arthur Jenkins Avenue areas.

Potential Losses

Arthur Jenkins Avenue - Houses in this area are subject to flooding during periods of high lake level. Further study is needed to determine the dollar value of damages.

Kaiser Beach – Estimated damages in this area are \$2,000 per house. For 60 houses, estimated damages are \$120,000 per event.

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Old Orchard Road/ Lewis Point Road - Estimated damages in this area are \$2,000 per house. For 50 houses, estimated damages are \$100,000 per event.

Duck Cove area - Estimated damages in this area are \$2,000 per house. For 6 houses, estimated damages are \$12,000 per event.

Main Street & Warner's Road – Estimated damages for 2 houses without basements are \$500 per event; estimated damages for 4 houses with basements are \$5,000 per event. For all 6 houses, estimated damages are \$21,000 per event.

Mitigation Strategies

Project #	Project Name	Description	Lead Agency	Estimated Cost
T/Lenox#1	Main Street at Warners Rd Culvert Repairs	The project will lower the height of the existing culvert to prevent water from backing up endangering six houses.	Town of Lenox Highway	\$3,600
T/Lenox#2	Lewis Point Road Flooding Planning	The project is for an engineering study to develop a drainage plan for the Lewis Point Road area of the Town of Lenox.	Town of Lenox Highway	\$25,000

Main Street and Warner's Road – Estimated cost of lowering the box culvert controlling water levels in this area is based on 3 days of labor and machinery time. At \$150 per hour, 24 hours work would cost \$3,600. Work would be done by the Town Highway Department using existing resources. This is a medium priority.

Prioritization

The STAPLEE process is the means by which proposed mitigation actions are prioritized for a community. The STAPLEE process utilizes the following criteria:

- **Social**: Will this action be acceptable to the community and individuals affected?
- **Technical**: Is the action a long term technically feasible solution with little or no secondary impacts?
- **Administrative**: Are the staff and funding available to implement and maintain the action?
NOTE: Inadequate resource did not eliminate consideration of an action.
- **Political**: Is the action supported by political leaders and the public?
- **Legal**: Does the municipality have the legal authority to implement the proposed action?
- **Economic**: Is this action a cost effective method for providing hazard mitigation and community benefits?
- **Environmental**: Is this action consistent with community environmental goals?

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The following table uses the STAPLEE System to rate proposed mitigation actions.

+ 1 is Favorable, -1 is Unfavorable, N is Neutral or Not Applicable

A Score of 6 -7 is a high priority, 3-5 is a medium priority, 2 or less is a low priority

Proposed Mitigation Action								
	Soc	Tech	Admin	Polit	Legal	Econ	Enviro	Score
Main St./ Warners Road Culvert Lowering	+1	+1	-1	+1	+1	+1	+1	5
Lewis Point Road Flooding Planning	+1	+1	-1	+1	+1	+1	+1	5

Plan Monitoring and Update

The Madison County Office of Emergency Preparedness will be responsible for monitoring the status of the County Hazard Mitigation Plan and all of the subsections of the plan specific to local municipalities. During the first quarter of every calendar year, the Emergency Preparedness Director will (most likely by e-mail) contact the Town of Lenox's Highway Superintendent and submit a copy of the evaluation form. The Town's Highway Superintendent will complete and return this form within 10 business days.

During the second quarter of the year, the County Emergency Preparedness Director, will prepare an annual summary report for progress in implementing the County Hazard Mitigation Plan. Included in this plan will be the following:

- A summary and analysis of all disasters that have struck Madison County during the previous calendar year,
- a gap analysis for the hazard mitigation plan for any disasters that occurred during the previous calendar year,
- a listing of funding opportunities made available from FEMA and SEMO during the 12 months prior to the annual summary report,
- a summary of the progress that has been made towards accomplishing mitigation measures during the previous calendar year,
- problems encountered in implementing the plan,
- And, recommendations for changes to the Hazard Mitigation plan.

A copy of this report will be sent to the Town's Highway Superintendent and will be posted on the Madison County Website. Public Comment will be accepted based on review of these reports and the County's Plan available on this web site.

Every five years after the plan receives its FEMA approval and adoption by the Lenox Town Board, the County Emergency Management Director will update the County Hazard Mitigation Plan and the Town of Eaton annex based on reports supplied by the Town's Highway Superintendent and other municipalities, as well as input from the public. This updated plan will be submitted to the Town of Lenox for approval before being forwarded to FEMA.