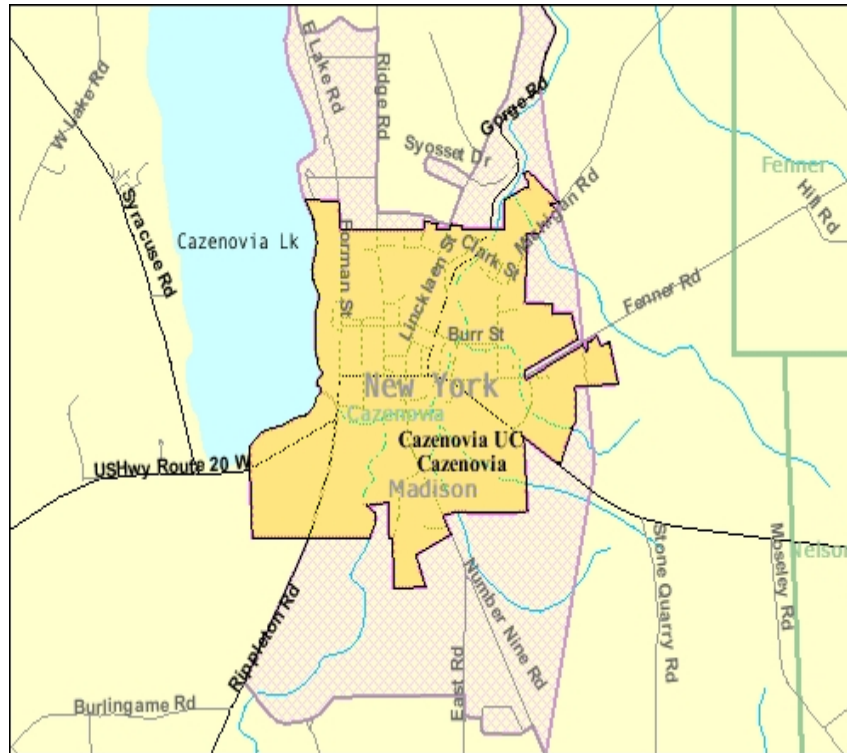


## Village of Cazenovia



Contact	Title	Phone
Kurt Wheeler	Village Mayor	(315) 655-9380
Katherine Burns	Village Clerk	(315) 655-3041
William Carr	Village DPW Administrator	(315) 655-3041
Rich Huftalen	Planning Board Chairman	(315) 655-3041
William Carr	Code Enforcement Officer	(315) 655-3041

### Background

The Village of Cazenovia is a community of 2,700 residents located in the western portion of the county. 81.9% of the residents are between the ages of 18 and 65, while only 15.8 % are over the age of 65 (residents). The village currently encompasses approximately 1.5 square miles. The village has an equalized assessed value of approximately \$187,800,000 dollars, which is distributed across a variety of property classes. There are 516 single family occupied homes within the village.

### Land Use and Development Trends

A number of new developments are either planned or under construction in the Village of Cazenovia. "South Village" is a 60 unit patio home development on Chenango Street on land that was annexed into the Village. A 21 house development on Burton Street has been approved by the Planning Board; construction has not yet begun on this project.

# MADISON COUNTY HAZARD MITIGATION PLAN 2016

## **Assets**

Village Hall: located at 90 Albany Street. This building is equipped with a generator in case of a power outage.

Cazenovia Village Police Department is located in the Village Hall.

Cazenovia Fire Department: located at 121 Albany Street. This building is equipped with a generator in case of a power outage.

Village Water Works: located on Chenango Street. This facility supplies drinking water for the Village from groundwater. It is equipped with a generator in case of a power outage.

Red Cross Shelter: The primary Red Cross shelter for this area is Cazenovia Central School, 31 Emory Avenue. Capacity is 330. It has a generator that will power emergency lights and heat. It does not have external hook-up for a supplemental generator.

Cazenovia Area Volunteer ambulance Corps, Inc. (CAVAC): This facility is located at 4 Forman Street. It has a paramedic level of care.

## **Local Organization and Regulations**

Village Government consists of Mayor, 4 Village Trustees, a Village Clerk and two Village Justices.

The Village Board meets on the first Monday of each month at 7 PM

The Village Planning Board meets on the second Monday of each month.

The Zoning Board of Appeals meets on the fourth Tuesday of each month as needed.

**The Historic Preservation Committee meets on the 4<sup>th</sup> Monday of each month at 7 PM.**

The Village has an active tree maintenance program under which dead wood, dead trees, and hazard trees are removed. The budget for this program is \$20,000 per year. Work is performed by Bartlett Tree Expert Company.

## **The Planning Process**

Steve Lorraine, Manager for the Madison County Soil & Water Conservation District meet with Mayor Kurt Wheeler on October 7, 2013 to review the previous mitigation plan and discuss present concerns. Mayor Wheeler directed Mr. Lorraine to work with William Carr, Village DPW Administrator and Code Enforcement Officer to prepare the updated plan. Mr. Lorraine presented the updated plan to the Village board at a public meeting on December 3, 2013.

Input from Madison County Highway Department, Madison County Sheriff, Madison County Planning Department, Madison/ Oneida Chapter of the American Red Cross, Madison County Fire Advisory Board, and Madison County Traffic Safety Board was considered in the writing of this plan.

# MADISON COUNTY HAZARD MITIGATION PLAN 2016

## 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

The following organizations have been contacted for comment on the Village of Cazenovia HMP:

- Cazenovia College
- Cazenovia Lake Association
- Cazenovia Preservation Foundation
- Cazenovia Area Community Development Association, Barbara Henderson
- Greater Cazenovia Area Chamber of Commerce, Richard Borsellino

## Existing Plans, Studies, Reports, and Technical Information

- Village of Cazenovia Comprehensive Plan
- Cazenovia Area Planning Project report
- Village of Cazenovia Zoning Rules
- Village of Cazenovia Emergency Response Plan

## 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.

## MADISON COUNTY HAZARD MITIGATION PLAN 2016

Hazard	Madison Co. Class.	Madison Co. Ranking	Village of Cazenovia Probability Greater (G), Lesser (L) About Equal (E)	Village of Cazenovia Issues Beyond County-wide Plan Yes (y), No (n)
Severe Storms	Mod. High	312.2	E	N
Transportation Accidents	Mod. High	285.2	E	N
Winter Storms	Mod. High	272.2	E	N
Fires	Mod. High	265.2	E	N
Ice Storms	Mod. Low	236.2	E	N
Flood	Mod. Low	222.8	E	Y
Utility Failure	Mod. Low	218.5	E	N
Tornado	Mod. Low	202.5	E	N
Ice Jam	Mod. Low	180.5	L	N
Infestation	Mod. Low	173.8	L	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	G	Y
Hurricane	Low	158.8	E	N
Earthquake	Low	150.5	E	N
Blight	Low	96.2	L	N
Landslide	Not Rated		E	N

### Existing Mitigation Measures

This section is used to indicate the types of mitigation actions that already are in use in the Village of Cazenovia. Appendix D of this plan can be used as a guide as to what mitigation actions can mitigate different hazards.

**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.

	Buildin g Code	Density Control s	Design Review Standard s	Easements	Environmenta l Review Standards	Flood plain Developmen t Regulations	Floodplai n zoning
Cazenovi a Program	State BOCA Codes	No	Village Codes	For Infrastructur e	NYS SEQR	National flood insurance rules	No

## MADISON COUNTY HAZARD MITIGATION PLAN 2016

Transfer of Development Rights	Hillside Development Regulations	Open Space Preservation	Performance Standards	Streambank Setback Regulations	Special Use Permits	Stormwater Management Regulations	Subdivision & Development Regulations
State & Federal Programs Available for Ag	No	Yes Detention Pond Areas	No	Lakeshore setback rules	Zoning Variance Permits	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)
Cazenovia Program	No	No	No	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
Cazenovia Program	No	Education of Elected to NIMS Standards	State Rules Apply	No

**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
Cazenovia Program	Technical assistance through	No	State Regs for greater	Canal Authority from Caz.	State Rules Apply	Tree Maintenance	State & Federal Rules	Oneida Lake Program

## MADISON COUNTY HAZARD MITIGATION PLAN 2016

m	SWCD		than 1 acre develop ment	Lake to Mill St.		Program	Apply	
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**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
Cazenovia Program	Emergency Preparedness Plan	Fire Police Ambulance	MSDS Sheets on File with Fire Department	911 Center Alert System	No	Yes

**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
Cazenovia Program	Yes	Floodwater Detention Basin	State Canal Corporation	Red Cross Shelters

### **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 Village of Cazenovia Comprehensive Plan.

### **Mitigation Actions by Hazard**

#### **A. Flooding**

Flash flooding has occurred in the Village three times in the last ten years including January 1996, April 2001, and August 8, 2003. Floods occur mainly in two areas, the east side of the Village and the southwest area just east of Route 13.

#### **Mitigation Goals**

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

#### **Historical Events**

*August 8, 2003* - During this summer downpour, 4.5 inches of rain was observed in a 1 hour period at the Madison County Sewer District plant located just north of the Village on Route 13.

## MADISON COUNTY HAZARD MITIGATION PLAN 2016

*April 2001* - This was a flood event that was caused by spring snowmelt and was not associated with a rainfall event. Runoff from the Town and Country Shopping center washed out ½ of the north bound lane of Carriage Lane.

*January 1996* - This flood event was caused by a warm rain that melted the snowpack. It was equivalent to the 25 year storm.

*June, 1972* - Hurricane Agnes

### Locations Subject to Hazard

*Burr Street* – Residences along this street have been flooded three times in ten years including January 1996, April 2001, and August 8, 2003. All of the houses on both sides of the street have had some degree of basement flooding. A tributary of Chittenango Creek flows westward behind the houses on the south side of Burr Street before turning north and flowing through a 36 inch diameter culvert under Burr Street. This small stream has a 380 acre watershed that covers the northeast corner of the Village and parts of the Town of Fenner. The Village of Cazenovia Public Works Department has reduced some of the inflow to the Burr Street area by diverting half of the flow from a Fenner Street storm drain into the detention basin west of the Town and Country Shopping Center. Additionally, an orifice plate was placed on the detention basin discharge to reduce peak flows to Burr Street.



Culvert outlet at Burr Street Outlet Ditch.

*Town and Country Plaza* – This shopping area is located north of US 20 on the east side of the Village. Stormwater runoff from this area flows towards Burr Street. A very large detention basin has been constructed on the east side of the shopping area. The watershed above this detention area is 270 acres. On August 8, 2003 the detention basin overflowed and flooded Town and Country Bowling Alley. Work has been completed since this event: the embankment for the basin has been raised two feet and a new emergency spillway should direct water into the parking lot and away from the bowling alley.



## MADISON COUNTY HAZARD MITIGATION PLAN 2016



Detention Pond behind Town and Country Lanes. This photo was taken on January 18, 2006.

*Fenner Road* – Fenner Road is located north of the Town and Country Plaza and contributes runoff to the Burr Street area. During past flood events, the road side ditches have overflowed and deposited large amounts of debris on the road surface.

*Carpenter's Pond* – This pond is located on Carpenter Street is southwest of the downtown area. Adjacent houses receive basement flooding during periods of peak runoff.

### **Future Development in Hazard Area**

No new development is occurring in the areas cited as having flooding problems.

### **Potential and Historical Losses**

*Burr Street Area* – This area has suffered flooding three times during the past ten years. During flood events, three houses on the south side and two houses on the north side of Burr Street suffer severe damages estimated at \$10,000 per event. Another twelve houses on the south and three houses on the north suffer moderate damage estimated at \$5,000 per event. Total damage during each flood is \$125,000.



Backyard flooding behind residences on south side of Burr Street, 1/18/06.



## MADISON COUNTY HAZARD MITIGATION PLAN 2016

*Carriage Lane* – Damages to Carriage Lane have been caused by the overflow from the Detention Basin behind Town and Country Bowling Alley. Repairs from the January ‘96 flood totaled \$11,992. Repairs resulting from the 2001 flood totaled \$16,084. Modifications to the Detention Basin made late in 2001 will hopefully prevent future damages.

*Carpenter’s Pond* – Flooding damage has occurred to houses north of the pond and one house east of the pond. More assessment is needed to establish the level of damage from past floods.

### Mitigation Strategies

Project #	Project Name	Description	Lead Agency	Estimated Cost
V/Cazenovia #1	Burr Street/Burton Street Retention Pond	Storm water retention pond is needed to control run-off behind Burr Street during severe storms. This project will reduce the damages and losses associated with flooding during severe storm events.	Village of Cazenovia Public Works	\$250,000
V/Cazenovia #2	Install Burr Street Back-flow Structure	Install a back-flow structure to prevent floodwater from Chittenango Creek from back-flowing to Burr Street, in the Village of Cazenovia	Village of Cazenovia Public Works	\$65,000
V/Cazenovia #3	Carpenters Pond Emergency Spillway Improvements	The earthen spillway that has been filled in over time, which could result in uncontrolled over-topping during a severe storm event.	Village of Cazenovia Public Works	\$10,000

*Burr Street Backflow Structure* – During the spring 2001 flood event, Steve McLaughlin, former Village DPW Chief, took elevation shots at the Burr Street outlet ditch. This ditch flows 259 feet from the Burr Street Culvert to Chittenango Creek. At that time, the elevation of water in Chittenango Creek was only 4 inches below the top of the culvert under Burr Street. Under such flood conditions, the Burr Street outlet ditch would be ineffective as an outlet for water flowing from the 380 acre watershed above it. Further study is needed to determine a possible solution to this situation. This is a Low Priority for the Village.

*East of Burr Street and Burton Street intersection* – Construct a detention pond on this village owned parcel in order to reduce peak flows behind Burr Street. This project would help to address peak flows coming from the Fenner Street area; runoff from this area is presently not controlled. A design done by Richard Eliot P.E. would require 4,000 cubic yards of fill to construct a dam. Estimated cost is \$40,000. This is a Medium priority for the Village until funding can be established.

## MADISON COUNTY HAZARD MITIGATION PLAN 2016



Site of proposed detention pond just upstream of Burr Street.

*Carpenter's Pond* – Reconstruct the earthen emergency spillway that has been filled in over time because local residents did not recognize the importance of this structure. This project would require permission from a private landowner and would cross a driveway and the gravel access road to Canal Authority property. Cost for this project is estimated at \$10,000 but further study is needed to arrive at a more accurate estimate.



Non-functioning emergency spillway for Carpenter's Pond.

Flood mitigation projects for the Village of Cazenovia would be administered by the Department of Public Works. This department has a three person crew and has previously installed smaller projects and has overseen contractors on larger projects. Projects will be funded as money becomes available. FEMA Hazard Mitigation funding will be sought when available. Otherwise, projects will be funded out of the Village's annual budget slowly over time.

# MADISON COUNTY HAZARD MITIGATION PLAN 2016

## 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?

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

Mitigation Action								
	Soc	Tech	Admin	Polit	Legal	Econ	Enviro	Score
Burr Street/Burton Street Retention Pond	+1	+1	-1	N	+1	+1	+1	4
Install Burr Street Backflow Structure	+1	+1	-1	N	+1	-1	+1	2
Carpenter's Pond Emergency Spillway	+1	+1	-1	+1	-1	+1	+1	3

# MADISON COUNTY HAZARD MITIGATION PLAN 2016

## 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 Village of Cazenovia's DPW Administrator and submit a copy of the evaluation form. The Village DPW Administrator 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 Village's DPW Administrator 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 Village of Cazenovia Board, the County Emergency Management Director will update the County Hazard Mitigation Plan and the Village of Cazenovia annex based on reports supplied by the Village DPW Administrator and other municipalities, as well as input from the public. This updated plan will be submitted to the Village of Cazenovia for approval before being forwarded to FEMA.