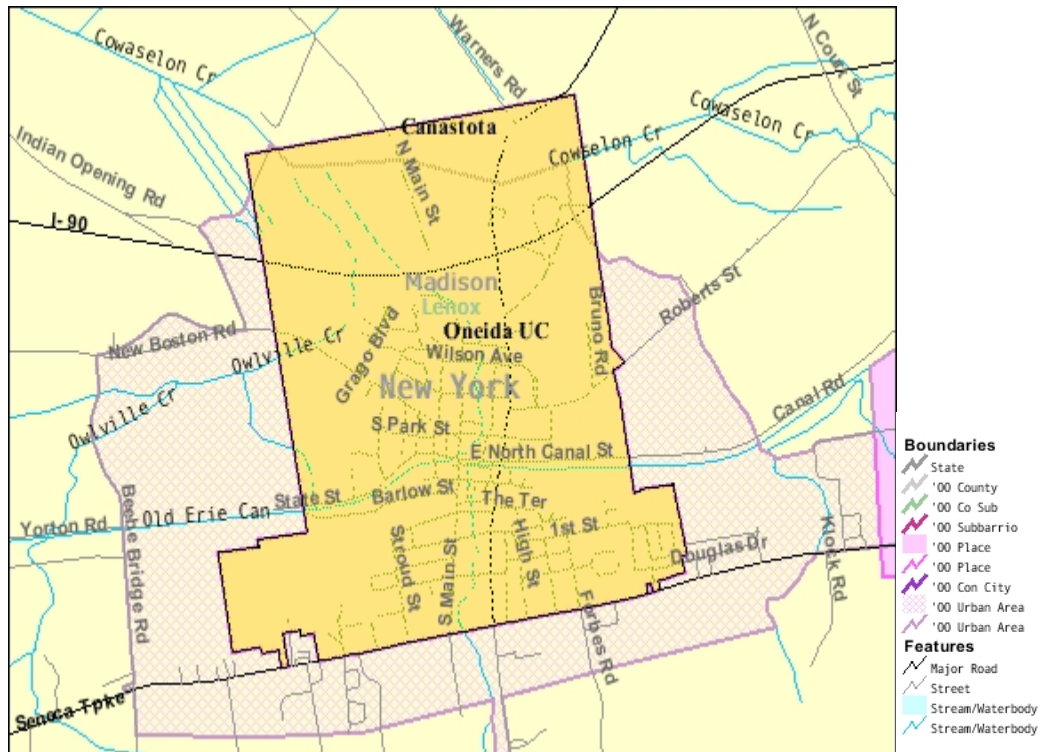


Village of Canastota



Contact	Title	Phone
Carla DeShaw	Village Mayor	(315) 697-7559
Catherine Williams	Village Clerk	(315) 697-7559
Larry Carpenter	Village Administrator	(315) 697-7559
Linda Pease	Planning Board Chairman	(315) 697-7559
Mike Adsit	Code Enforcement Officer	(315) 697-8963

Background

The Village of Canastota is a community of 4,084 residents located in the town of Lenox. 74.7% of the residents are between the ages of 18 and 65, while only 17.9 % are over the age of 65 (residents). The village currently encompasses approximately 3.3 square miles. The village has an equalized assessed value of approximately \$212 million dollars, which is distributed across a variety of property classes. There are 905 single family occupied homes within the town. There is no real commercial development taking place at this time.

Land Use and Development Trends

Development in the Village is fairly slow at this time. There is not much room left within the Village limits for new development and there are no plans for annexation of new properties into the Village

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limits. 60 new houses have been built in the Circle Drive neighborhood within the past twelve years. 18 new houses have been built in the Clark Circle and Port Street area in the past ten years, 5 lots are still available. 24 new town house style residences are planned for 1st Street. A 60 house development in the Towns of Lenox and Lincoln will tie into the Village's sanitary sewer system.

Assets

The Village Hall is located at 205 S. Peterboro St. The Canastota Village Police Department along with Village government is located here. The building has a small diesel generator in case of power outage. Emergency communications for the Village are centered at this location.

The Canastota Volunteer Fire Department is located at 129 East Center Street. The Fire Department is the evacuation center for the Village. This building is equipped with a natural gas fired generator in case of power outage.

Greater Lenox Ambulance Service: located at 1 Leland Wright Avenue. This building is equipped with a natural gas powered generator in case of a power outage.

Department of Public Works: located on East North Street. This building is not wired for easy hook up to a generator but some portable generators are on site.

Red Cross Shelters:

- *South Side Elementary School*, 200 High Street, Canastota, Capacity = 50 people.
- *Peterboro Street School*, 220 N. Peterboro Street, Canastota, Capacity = 80 people
- *Canastota Jr./ Sr. High School* 120 Roberts St., Canastota, Capacity = 358

Local Organization and Regulations

The *Village Board of Trustees* meets on the 1st and 3rd Mondays of every month at 7 PM.

The *Village Planning Board* meets on the 2nd and 4th Wednesdays at 7 PM.

The *Zoning Board of Appeals* meets as needed.

The Planning Process

Steve Lorraine, Manger, Madison County Soil & Water Conservation District, contacted Mayor Carla DeShaw on February 15, 2015 to begin the process of reviewing previous mitigation efforts and updates for the new plan. The Mayor directed Mr. Lorraine to work with Larry Carpenter, Village Administrator. Mr. Carpenter and Mr. Lorraine met on March 2, 2015 to discuss problem areas and possible projects, notating them on a map provided by Mr. Lorraine. A final review of the proposed plans were conducted on May 26, 2015.

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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

The following organizations have been contacted for input into the Village of Canastota Hazard Mitigation Plan:

Village of Canastota Beautification Committee

Greater Canastota Chamber of Commerce

Existing Plans, Studies, Reports, and Technical Information

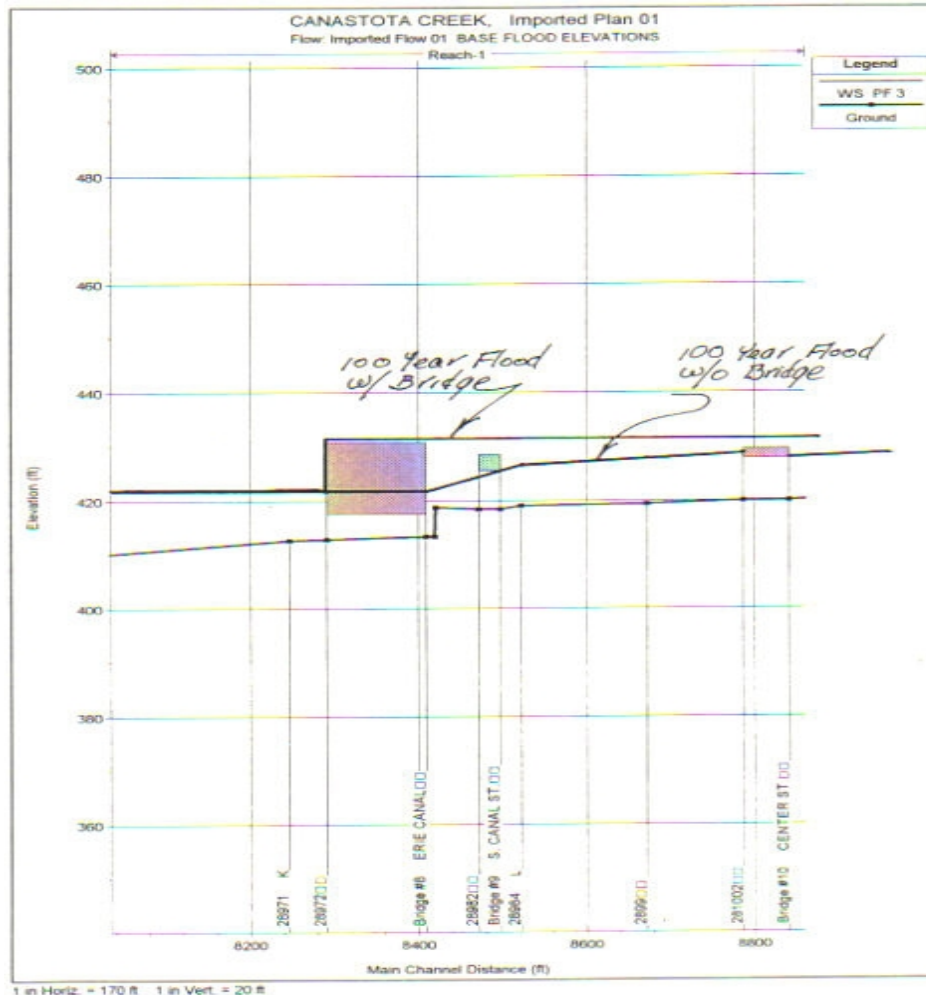
The Village has a Village Safety Plan in place. This plan applies mainly to employees located at the Village Hall and the Department of Public Works. The plan includes chapters on Policy, Safety Procedures, Reporting Standards, Hazardous Communications (labeling of hazardous materials), Emergency Evacuation Plan, Personal Protective Equipment Standards, Forms, and OSHA Standards.

Through Colgate University's Upstate Institute, in the summer of 2006 Colgate Geography Department students will map infrastructure in both the Villages of Canastota and Chittenango.

FEMA Review Canastota Creek Village of Canastota Madison County by T.S. Holbrook, PE May 8, 1999
On March 23, 1999 a Review of FEMA flood studies for Canastota Creek through the Village of Canastota was completed by T.S. Holbrook, P.E. of Syracuse, New York. On May 8, 1999 Mr. Holbrook submitted an additional overview of this flood study. In this overview he states:

"It has been found through this review the largest impact on water surface elevations within the study area is caused by the existing structures which cross Canastota Creek at numerous locations. These structures are generally undersized and impede the smooth flow of water through the Village during large storms. In an attempt to determine what affect these structures have on water elevations, the Erie Canal structure was artificially removed. This lowered the 100 year storm elevation by 9 feet. It should be pointed out, that this bridge has the largest effect of any of the others on water elevation within the Village and its influence diminishes as you move upstream. The last page shows the 100 year water surface profile with and without the Erie Canal Bridge removed."

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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	Village of Canastota Probability Greater (G), Lesser (L) About Equal (E)	Village of Canastota Issues Beyond County-wide Plan Yes (Y), No (N)
Severe Storms	Mod. High	312.2	E	N
Transportation Accidents	Mod. High	285.2	G	Y
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	G	Y
Utility Failure	Mod. Low	218.5	L	N
Tornado	Mod. Low	202.5	E	N
Ice Jam	Mod. Low	180.5	L	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	L	N
Wave Action	Low	159.5	L	N
Dam Failure	Low	159.2	L	N
Hurricane	Low	158.8	E	N
Earthquake	Low	150.5	E	N
Blight	Low	96.2	E	N
Landslide	Not Rated		L	N

Types of Mitigation Measures

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

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
Canastota Program	State BOCA Codes	No	Through Codes	N	SEQR for large developments	Federal Flood Insurance Program	N

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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	N	N	N	Y	State Regs Apply	Y

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. flood-proofing)
Canastota Program	N	N	N	N	N

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
Canastota Program	N	Education of Elected to NIMS Standards	State Rules Apply	N

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 Regulation & Restoration	Watershed Management
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Canastota Program	Design assistance available through SWCD	N	State Regs for greater than 1 acre development	N	State Rules Apply	DPW assesses trees within ROW	State & Federal Rules Apply	Oneida Lake Program
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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
Canastota Program	N	Fire Dept. Police Ambulance	MSDS Sheets on File with Fire Department	911 Center Alert System	N	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
Canastota Program	N	N	N	Red Cross Shelters Fire Dept. shelter Safe Room in Village 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 Village of Canastota Safety Plan.

Mitigation Strategy Action Plan

The overall purpose of the Village of Canastota Mitigation Strategy Action Plan is to protect human life and property from naturally occurring hazards.

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Mitigation Actions by Hazard

A. Flooding

The Village of Canastota has a number of locations that have specific flooding problems. Canastota Creek flows from south to north directly through the center of the Village. There are actually few structures located within the 100 year floodplain of this creek. Flooding problems do occur along this creek because many of the culverts through the village lack enough capacity to accommodate peak flows.

Mitigation Goals

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

Historical Events

- *March 1993*: Flooding occurred in the Village because of snowmelt in the Canastota Creek watershed. Flooding occurred in the downtown area between Main Street and Peterboro Street. Residences along West Hickory, Pleasant, Bruno, and James Streets suffered the worst flooding.
- *April, 2004*: Flooding occurred between Barlow Street and Beebe Bridge Road especially in the area of the old town dump located between the New York Central railroad tracks and the Old Erie Canal. Water was three foot deep in places; two houses needed to have their basements pumped.
- *April, 2005*: Flooding in the Barlow Street area was repeated. After this event, Canal authority personnel cleaned debris out of a dive culvert under the canal in July, 2005.

Locations Subject to Hazard

Flood waters cause problems at the following locations:

Kime's Hardware – Flooding occurs here during peak runoff events because a culvert lacks capacity to conduct peak flows of Canastota Creek. Unfortunately, fixing this culvert would cause flooding at the next culvert downstream that lacks capacity.

Basement Flooding along Lewis and Chapel Streets during periods of high water in Canastota Creek. Fire Department has documentation of the basements that have been flooded; this information is provided in an annual report to the Village Mayor.

Debris has accumulated in Canastota Creek below the Erie Canal. This is a maintenance issue that needs to be addressed.

Unnamed Tributary to Canastota Creek – 3 locations

- a. Undersized Culvert on Private Land
- b. Back of funeral home, culvert under Main Street
- c. Under James Street

Flooding occurs along James Street and behind houses located on Barlow Street

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Potential Losses

2 houses along Pleasant Street have been subject to repetitive losses. The former Eisenhut residence suffers \$1,000 damage per event while another residence suffers \$500 damage per event.

Mitigation Strategies

Project #	Project Name	Description	Lead Agency	Estimated Cost
V/Canastota #1	Canastota Creek Culvert Replacement at Kime's Hardware, RT 5.	The culvert at this location needs to be replaced with one the same size downstream on Canastota Creek in order to handle calculated flows.	Village of Canastota Public Works	\$200,000
V/Canastota #2	Canastota Creek Culvert Replacement at Main Street.	The culverts downstream of the Erie canal conducting Canastota Creek through the Village need to be upgraded for to handle calculated flows.	Village of Canastota Public Works	\$350,000
V/Canastota #3	Canastota Creek Culvert Replacement Between Erie Canal & Main Street.	The new culvert needs to be sized based on the capacity of the Erie canal culvert and the added run-off from the watershed in the village below the Erie Canal.	Village of Canastota Public Works	\$300,000
V/Canastota #4	No Name Creek Culvert Design	Improve under-road drainage along No Name Creek within the Village of Canastota. Study needed for the culvert design and sizing of culverts to be install at under-road crossings along No Name Creek within the Village.	Village of Canastota Public Works	\$20,000

Kime's hardware and Canastota Creek – this culvert needs to be upgraded to the same size as the next culvert downstream on Canastota Creek. This project would lower the incidence of flooding but would not solve the problem. This would be the responsibility of the landowner. This is a Medium Priority for the Village.

Canastota Creek Culverts – The culverts downstream of the Erie Canal culvert conducting Canastota Creek through the Village need to be upgraded. This work needs to be done starting with the furthest culvert downstream, a pipe arch under Main Street owned by the Madison County Highway Department. The new culvert needs to be sized based upon the capacity of the Erie Canal culvert and the added runoff from the watershed in the Village below the Erie Canal. This work will be done at the end of the expected lifespan of the existing culvert. This is a High Priority for the Village. Work will be done by the County Highway Department under existing funding.

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No-named Creek culverts – SWCD will assist Village DPW in sizing new culverts for the No-named Creek. Design work will be done during 2007 field season. Design work can be done at no cost to the Village. This is a High Priority for the Village.

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
Canastota Creek Culvert Replacement @ Kime's Hardware	N	+1	-1	+1	-1	-1	+1	0
Canastota Creek Culvert Replacement @ Main Street	+1	+1	-1	+1	N	+1	+1	4
Canastota Creek Culverts Replacement between Erie Canal & Main Strreet	+1	+1	-1	N	+1	+1	+1	4
No Name Creek Culverts Design	+1	+1	-1	+1	+1	+1	+1	5

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