

Town of Palermo

Jurisdictional Annex

Town of Palermo

1.0 Contacts

The contacts for the Town of Palermo regarding this plan are identified as follows:

- Robert Loomis – Town Councilman
Address: 720 East Seneca Street, Oswego, NY 13126
Phone: (315) 349-8800
Email: Bob.Loomis@oswegocounty.com
- Patricia Redhead – Town Supervisor
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Phone: (315) 593-2333
Email: supervisor@townofpalermony.gov

Town Website: <http://townofpalermony.gov/>

2.0 Municipal Profile

Population

The 2016 American Community Survey estimated that 3,639 people live in the Town of Palermo. The Town's population has decreased since the 2000 Census population (3,686) by 1.3% (U.S. Census Bureau, 2016).

Location

The Town of Palermo is located in central Oswego County and is bordered by the Towns of New Haven and Mexico to the north, Town of Hastings to the east, Town of Schroepel to the south, and Town of Volney to the west. State Routes 3 and 49 provide direct access to the Town, and the Town is about nineteen (19) miles west of the Interstate 81 corridor.

Brief History

The Town of Palermo was officially formed in 1832 from township 14 of Scriba's patent. A number of hamlets became populated within the Town during the 19th century, including Catfish, Clifford, East Palermo, Farley's Corners, Palermo, and Vermillion. Lumbering was the main industry in the Town's early years, and the first sawmill was established in the area in 1812. Agriculture became the dominant industry by the mid-1800s as forested land was cleared.

A large swamp in eastern Palermo was cleared, drained, and converted to a muck farm. Several dozen farms are still in operation today, including muck farms (Strong, 2016).

Governing Body

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

Future Growth

The Town of Palermo has had no new commercial and residential developments since the 2012 County HMP. The Town is nearly all residential. Palermo Elementary School is the largest employer in the Town, followed by Ingle's Performance and DiSalvo Farms. No developments have occurred in hazard-prone areas.

3.0 Hazard Vulnerabilities and Ranking

3.1. Risk Assessment

The following scale was developed to determine hazard vulnerability for the jurisdiction. Each event was given a ranking from one (1) through three (3) for the severity of impact based on extent, onset warning, impact in damages and injury, and frequency: three (3) represents the greatest impact (large area, no warning, severe damage, and regular occurrence); two (2) represents moderate impact (several locations, hours of warning, moderate damage, and infrequent occurrence); and one (1) represents low impact (one location, days of warning, minor damage, and rare occurrence). The scores for each of these four (4) categories were used to assign an overall vulnerability for each hazard, as follows:

- Low: 5 or less
- Moderate: 6 to 8
- High: 9 or greater

Table 1: Hazard Vulnerability by Event						
Hazard Event	Extent	Onset	Impact (Damages and Injury)	Frequency	Vulnerability Rank	Jurisdiction Rank
Severe Thunderstorm, Wind, or Tornado	2	2	2	3	High	1
Severe Winter Storm	3	1	2	3	High	2
Ice Storm	3	1	2	2	Moderate	3
Drought	3	1	1	1	Moderate	4
Flood	1	2	1	1	Low	5

3.2. Critical Facilities

Critical facilities are defined as any facility that is critical for emergency response or that requires special emergency response in the event of hazardous incidents as identified by the Town of Palermo. The table below denote the number and locations of critical facilities within the Town.

Table 2: Critical Infrastructure in the Town of Palermo			
Facility Name	Address (Street, Town/Town/Hamlet)	Parcel Located in Floodplain	Structure Located in Floodplain
Transportation Network			
Evacuation Routes	-	-	-
Bridges	-	-	-
Public Utilities			
Radio Tower and Cell Tower	44 High Point View Ln	No	No
Communications Tower	1880 CR 45, Fulton, NY 13069	No	No
Two Natural Gas Transmission Pipelines	Throughout Town	-	-
Two 365Kv Electrical Transmission Lines	Throughout Town	-	-
Municipal Services			
Palermo Municipal Building	53 CR 35, Fulton, NY 13069	No	No
Town Highway Garage	1572 CR 45, Fulton, NY 13069	No	No
Emergency and Medical Services			
County Fire Coordinator Facility	4941 NY-49 Fulton, NY 13069	No	No
Palermo Fire Dept.	4170 NY-3, Fulton, NY 13069	No	No
Community Services			
Palermo Town Park	1779 County Route 45, Fulton, NY 13069	100YR	No
Educational, Shelter and Evacuation Facilities			
Palermo Elementary School	1638 CR 45, Fulton, NY 13069	No	No
Palermo United Methodist Church (Emergency Shelter)	11 County Route 35, Fulton, NY 13069	No	No
Dams			
Smith Pond Dam	Caughdenoy Creek off of CR 4	-	-
Stewarts Pond Dam	Potts Creek off of NY-264	-	-
Goodfellows Pond Dam	Trib. to Fish Creek off of Besaw Rd	-	-
Russ Mills Dam	Catfish Creek off of CR 4	-	-

4.0 Priority Hazard Events

The following sections detail the priority hazard events identified by the jurisdiction. Additional information about County-selected hazards including frequency, history, and severity is included within Section 5.0 of the main body of the Plan.

The probability of climate-related hazard events is expected to increase in the future within the Town of Palermo. Climate change is expected to cause an increase in weather volatility, rising sea level, and greater temperature extremes.

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

4.1 Natural Hazards

Natural hazards selected to be profiled for the Town of Palermo are described in detail below.

4.1.1 Severe Thunderstorm, Wind, or Tornado

For a description of these hazards, please see Section 5.1.1 of the main body of the Plan.

Hazard Vulnerability

The entire Town is moderately susceptible to damages from a severe thunderstorm, wind, or tornado or coastal storm event due to its moderate extent, hours of warning, and high frequency. Fallen trees from severe winds can damage overhead utility lines, resulting in power outages. In addition, these events are likely to result in damages to private and public infrastructure and property.

Historical Hazard Occurrences and Damage Estimates

In addition to the 101 severe storm events reported within Oswego County, the NCDC reports nineteen (19) specific severe storm events that occurred in the Town of Palermo between 1994 and 2017 (frequency of about once per year). Five (5) of these records were hail events, one (1) tornado, and thirteen (13) were thunderstorm winds. Estimated property damages for the Town of Palermo ranged from \$4,000 to \$50,000, and crop damages up to \$10,000 per hail event were estimated (Table 3). Actual damages were likely greater than those estimated by the NCDC. It is also noted that recent high wind events (early spring 2018) caused tree and roof damage within the Town.

Table 3: Severe Storm Event Records for the Town of Palermo				
Event Type	Date	Magnitude	Estimated Property Damage	Estimated Crop Damage
Thunderstorm Wind	6/26/1995	-	\$4,000	\$0
Thunderstorm Wind	9/3/2002	50 kts	\$8,000	\$0
Thunderstorm Wind	5/16/2009	50 kts	\$25,000	\$0
Thunderstorm Wind	5/16/2009	50 kts	\$8,000	\$0
Thunderstorm Wind	7/26/2009	50 kts	\$8,000	\$0
Tornado	6/28/2010	F0	\$50,000	\$0
Hail	5/29/2012	1.5 inches	\$10,000	\$10,000
Hail	5/29/2012	1.75 inches	\$10,000	\$10,000
Thunderstorm Wind	7/23/2012	51 kts	\$10,000	\$0
Hail	5/22/2013	0.88 inches	\$0	\$0
Thunderstorm Wind	9/2/2013	50 kts	\$10,000	\$0
Thunderstorm Wind	6/3/2014	50 kts	\$10,000	\$0
Thunderstorm Wind	6/24/2014	50 kts	\$10,000	\$0
Thunderstorm Wind	7/8/2014	55 kts	\$10,000	\$0
Thunderstorm Wind	5/30/2015	50 kts	\$35,000	\$0
Thunderstorm Wind	8/13/2016	50 kts	\$10,000	\$0
Hail	5/18/2017	2.5 inches	\$0	\$0
Hail	5/18/2017	1.75 inches	\$0	\$0
Thunderstorm Wind	5/18/2017	52 kts	\$12,000	\$0
Total			\$230,000	\$20,000

Future Potential Impacts

Severe storms are a common event in the Town of Palermo and will continue to occur in the future. The frequency and magnitude of severe storm events may increase due to climate change.

4.1.2 Severe Winter Storm

For a description of this hazard, please see Section 5.1.4 of the main body of the Plan.

Hazard Vulnerability

Severe winter storms typically occur about eleven (11) times annually in Oswego County. These storms typically affect most or all of the County. The entire Town of Palermo is susceptible to damages from a severe winter storm event. The Town Highway Dept. clears Town streets during heavy snow events, and the Town works with the Oswego County Highway Dept.

and NYS Dept. of Transportation for clearing of other roadways. Roadway safety is a major concern during severe winter storm events.

Historical Hazard Occurrences and Damage Estimates

The Town of Palermo has been affected by a number of county-wide severe winter storm events, described in Section 5.1.4 of the main body of the Plan. Severe winter storms typically occur several times annually in Oswego County. These storms typically affect most or all of the County. The NCDC does not report any winter storm records or damage estimates specific to the Town of Palermo.

Future Potential Impacts

The Town of Palermo will continue to experience severe winter storm events in the future. Severe winter storms are common throughout Oswego County and occur about eleven (11) times annually.

4.1.3 Ice Storm

For a description of this hazard, please see Section 5.1.3 of the main body of the Plan.

Hazard Vulnerability

Historically, ice storms have occurred about once every seven (7) years in Oswego County. These storms typically affect most or all of the County. The entire Town of Palermo is moderately susceptible to damages from an ice storm event due to its large extent and moderate damage potential and frequency.

Historical Hazard Occurrences and Damage Estimates

The Town of Palermo was affected by the three (3) county-wide ice storm events recorded by the NCDC, which are described in Section 5.1.3 of the main body of the Plan. No damage estimates or records related to ice storms are reported specifically for the Town of Palermo.

Future Potential Impacts

The Town of Palermo will continue to experience ice storm events in the future, as will the rest of Oswego County. The Town Highway Dept. completes tree maintenance within Town road right of ways to minimize potential damages to overhead utility lines, which is common during ice storms. Private utility right of ways are generally maintained by the individual utility companies.

4.1.4 Drought

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

- Category D0: Abnormally dry conditions; may lead to a drought.
- Category D1: Moderate drought; some damages to crops and pasture may occur, water levels are low.
- Category D2: Severe drought; crop losses and water shortages are likely to occur.
- Category D3: Extreme drought; major crop losses and widespread water shortages.
- Category D4: Exceptional drought; extreme crop losses and water emergencies result.

Hazard Vulnerability

The entire Town of Palermo is moderately susceptible to a drought due to the widespread extent. Agricultural areas and private wells would experience the most significant impacts. The Town includes a number of farms (primarily crops), and all properties within the Town are currently dependent on private wells for potable water. The Town is working toward starting a municipal water system project within the next several years.

Historical Hazard Occurrences and Damage Estimates

There are no drought records specifically reported for the Town of Palermo. The Town was impacted by a drought in the late summer and fall of 2016, which affected the entire County. Many residents' private wells ran dry during this drought and they had to purchase potable water. There is not a specific impact number available because residents handled this privately and the Town was generally not involved. In addition, a number of farmers in the Town experienced significant crop losses during the 2016 drought.

Future Potential Impacts

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

4.1.5 Flood

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

Hazard Vulnerability

The Town is drained by a number of streams (including Fish Creek, Catfish Creek, Butterfly Creek, Caughdenoy Creek, and Six Mile Creek and their tributaries). Butterfly Creek and Catfish Creek drain to Lake Ontario. Fish Creek, Caughdenoy Creek, and Six Mile Creek drain to the Oneida River. FEMA's Flood Insurance Mapping Program designates areas that are at risk for flooding. Low flood risk are areas unlikely to flood, moderate risk are areas within the 500-year floodplain (0.2% likely to flood in any given year), and high risk are areas that frequently flood, up to the 100-year flood risk zone (1% likely to flood in any given year). Table 4 summarizes the amount of land within the Town of Palermo that is located within 100-year and 500-year floodplains and low-risk flood areas.

Table 4: Summary of Areas in Floodplains (Source: FEMA DFIRM 2013)			
Town of Palermo Total Area	Percent of Total Area		
	100-Year Floodplain	500-Year Floodplain	Area of Minimal Flood Hazard
26,123 acres	20.87%	0.01%	79.12%

Table 5 below summarizes the value of properties in the Town of Palermo that are located within the 100-year floodplain and is categorized by land use type. This table was derived from FEMA floodplain mapping and parcel data from the Oswego County Real Property Tax Office.

Table 5: Parcels within to 100-year Flood Events and Their Estimated Structure Values				
Type of Structure	# Parcels in 100-Year Floodplain	Approx. Structure Value* in 100-Year Floodplain	# Parcels in 500-Year Floodplain	Approx. Structure Value* in 500-Year Floodplain
Agricultural	36	\$359,600	0	-
Commercial	5	\$542,000	0	-
Community Services	1	\$644,000	0	-
Industrial	4	\$0	0	-
Residential	307	\$24,644,800	1	\$144,000
Utility	192	\$777,000	2	\$0
Total	545	\$26,967,400	3	\$144,000
*Structure Value estimated by subtracting parcel's Land Assessed Value from Total Assessed Value (Oswego County Real Property Tax Office, 2018)				

Historical Hazard Occurrences and Damage Estimates

According to NOAA's Storm Events Database, in the past fifteen (15) years, no flood records were noted to specifically impact the Town of Palermo. The Town has experienced minor localized flooding issues along roadways due to beaver dams in the past, specifically along County Route 45. In general, culvert replacement projects have been successful in alleviating these issues for Town roadways. Beaver dam maintenance and coordination would be beneficial for the flooding issues experienced along County Route 45. In addition, flooding in 2019 along Besaw Road due to heavy precipitation. The Town completed emergency repairs and replaced a culvert for the affected portion of Besaw Road.

As described in Section 6.0 of this annex, no flood loss claims have been filed in the Town of Palermo, and no repetitive loss properties are located within the Town. The Town does not currently participate in the National Flood Insurance Program (NFIP).

Future Potential Impacts

Properties along the shore of Oneida Lake, which borders the Town to the south, and its tributaries are vulnerable to flooding. Nearly 21% of the Town of Palermo is within a mapped 100-year floodplain. However, the Town rarely experiences flooding issues. Flooding issues that have occurred in the past have been initiated by beaver dams along roadways, and culvert replacements have alleviated these problems. One critical facility, the Town Park, is located on a parcel that intersects a mapped 100-year floodplain. However, the floodplain intersects the southern portion of the long, narrow parcel and no park facilities are within the floodplain. The Town has not experienced any flooding issues at the Town Park and does not anticipate that this will be a problem in the future.

5.0 Capability Assessment

5.1 Planning and Regulatory Capability

The Town's HMP update will be incorporated into and referenced by future updates of the plans, policies, ordinances, programs, studies, and reports listed in Table 6, below.

Table 6. Planning Mechanisms and Capabilities		
Planning Mechanism	Town of Palermo	Notes
Plans		
Capital Improvement Plan	X	For Dutchess Ln construction and potential water infrastructure projects
Emergency Response Plan	X	Needs to be updated
Comprehensive Emergency Management Plan	X	Last updated in 2000

Table 6. Planning Mechanisms and Capabilities		
Planning Mechanism	Town of Palermo	Notes
Policies/Ordinances		
Building Codes	<ul style="list-style-type: none"> • 2010 Residential Code of NYS • 2010 Fire Code of NYS • 2010 Building Code of NYS • 2010 Existing Building Code of NYS • 2010 Energy Conservation Construction Code of NYS • 2010 Plumbing Code of NYS • 2010 Mechanical Code of NYS • 2010 Fuel Gas Code of NYS 	Town Code Enforcement Officer
Land Use Regulations	X	No zoning code at this time.
Subdivision Regulations	X	Adopted.
Flood Regulations	X	Local Law No. 5 of 1999
Site Plan Review Requirements	X	In place.
Real Estate Disclosure Requirement	X	In place.
Programs		
NFIP Participant	No	Not currently participating in NFIP.
Public Education/Awareness Program	X	Fire Dept. Responsible
Stream Maintenance Program	X	Highway Dept. Responsible
Mutual Aid Agreements	X	Agreements with neighboring jurisdictions and Oswego County
Studies/Reports		
Hazard Analysis/Risk Assessment	X	Completed for CEMP (2000)
Floodplain Maps and/or Studies	X	FEMA- 2013
Staff/Development		
Building Code Official	X	Town Code Enforcement Officer
Local Floodplain Administrator	X	Town Code Enforcement Officer
Public Information Official	X	Town Supervisor

5.2 Emergency Communications, Routes, and Shelters

The Town of Palermo, along with Oswego County, utilize the HyperReach emergency communications system. Major transportation routes within the Town include State Route 264, State Route 3, State Route 49, and County Route 4. The Town of Palermo has one (1) established emergency shelter:

- Palermo United Methodist Church- 11 County Route 35, Fulton, NY 13069
 - Each level of the church is ADA-compliant on its own, however, there is no elevator available for people to move between the upper and lower floors internally.

- The church has an agreement with the school district to access food stored at Palermo Elementary School during shelter situations if needed.
- The church does not shelter pets currently. Pets may be housed at the Town Kennel if space is available.
- The church is also the designated evacuation center for Palermo Elementary School. The school conducts an evacuation drill annually. Students walk from the school to the church and are bussed home from the church.

5.3 Temporary and Permanent Housing Locations

The potential temporary and permanent housing locations listed below were identified for displaced residents in the Town of Palermo based on the 2017 NYS Hazard Mitigation Planning Standards. The following locations were selected for residents in the Town of Palermo. It is noted that formal agreements would need to be established in order to use privately-owned properties.

- **Potential Temporary Housing Locations**
 - Palermo Town Park and adjacent vacant land
 - Potable water (park has its own well) and picnic pavilions available with power
 - Recently updated bathroom facilities
 - Palermo Elementary School field
- **Potential Permanent Housing Locations**
 - Town Park and adjacent property
 - Town Hall adjacent property (currently forested)

6.0 National Flood Insurance Program

Long-term mitigation of potential flood impacts can be best achieved through comprehensive floodplain management regulations and enforcement at a local level. The National Flood Insurance Program (NFIP), regulated by FEMA, aims to reduce the impact of flooding on private and public structures by providing affordable insurance for property owners. The program encourages local jurisdictions to adopt and enforce floodplain management regulations in order to mitigate the potential effects of flooding on new and existing infrastructure (FEMA, 2015).

Communities that participate in the NFIP adopt floodplain ordinances. If an insured structure incurs damage costs that are over 50% of its market value, the owner must comply with

the local floodplain regulations when repairing or rebuilding the structure. A structure could be rebuilt at a higher elevation, or it could be acquired and demolished by the municipality or relocated outside of the floodplain. Insured structures that are located within floodplains identified on FEMA's Flood Insurance Rate Maps (FIRMs) may receive payments for structure and content losses if impacted by a flood event.

The NFIP and other flood mitigation actions are important for the protection of public and private property and public safety. Flood mitigation is valuable to communities because it:

- Creates safer environments by reducing loss of life and decreasing property damage;
- Allows individuals to minimize post-flood disaster disruptions and to recover quicker (homes built to NFIP standards generally experience less damage from flood events, and when damage does occur, the flood insurance program protects the homeowner's investment); and
- Lessens the financial impacts on individuals, communities, and other involved parties (FEMA, 2015).

The Town of Palermo does not currently participate in the NFIP, and no flood loss claims have been filed within the Town to date. In addition, there are no repetitive loss properties in the Town.

7.0 Mitigation Strategy and Prioritization

7.1 Past, Completed, and Ongoing Initiatives

The Town of Palermo did not participate in the 2012 Oswego County HMP and therefore has no progress to report on hazard mitigation projects identified in that plan. However, the Town has independently completed several mitigation-related projects in recent years. The Town and County Highway Departments continually work to upgrade culverts along roadways within the Town, particularly in areas that are susceptible to erosion or flooding from beaver dams. One such culvert replacement was at the intersection of County Route 33 and County Route 18 which alleviated localized flooding issues. The Town does not experience many flooding issues.

7.2 Proposed Mitigation Actions

The Town proposed four (4) new mitigation actions to be included in the HMP update. These actions are described in Table 7, below and on worksheets included in Attachment A.

Table 7. 2018 Proposed Mitigation Actions Town of Palermo									
Action ID	Mitigation Action	Hazard(s) Mitigated	Implementing Agencies (Lead* & Support)	Planning Mechanism	Timeframe	New or Existing Development	Estimated Cost	Funding Source(s)	Priority
Palermo 1	Install a generator at the Town Hall and move the emergency operations center from the Fire Dept. to the Town Hall	All	Town Supervisor*, Town Board	Capital Improvement Plan	1-5 years	Existing	\$12,000	FEMA- PDM; USDA-RD Community Facilities Grant; Town Budget	1 (High)
Palermo 2	Purchase a variable message board for the Fire Dept.	All	Town Fire Dept.*	Fire Dept. short-term plan	1-2 years	Existing	\$10,000	FASNY- Recruitment and Retention Grant; FEMA- PDM; Town Budget	2 (High)
Palermo 3	Develop and distribute property resilience brochure to all Town residents	Severe Thunderstorm/ Wind/Tornado, Flooding, Severe Winter Storm, Ice Storm	Town Supervisor*	None	1 year	Existing	\$500-2,000	Town budget	3 (Med)
Palermo 4	Coordinate with Oswego County regarding beaver dam removal and maintenance	Flood	Town Highway Superintendent*, Oswego County DPW	None	1-5 years	Existing	\$5,000	Town budget	4 (Low)
Potential Funding Sources FEMA PDM: https://www.fema.gov/pre-disaster-mitigation-grant-program USDA-RD Community Facilities Grant: https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program FASNY- Recruitment & Retention Grant: http://www.dhses.ny.gov/ofpc/recruit-retain-grant/documents/RFA.pdf									

7.3 Cost-Benefit Analysis

Each of the Town's proposed mitigation actions were evaluated and prioritized using the STAPLEE cost-benefit analysis. The Town's STAPLEE worksheet is provided in Attachment B. The STAPLEE analysis includes the following lenses of evaluation: social, technological, administrative, political, legal, economic, and environmental.

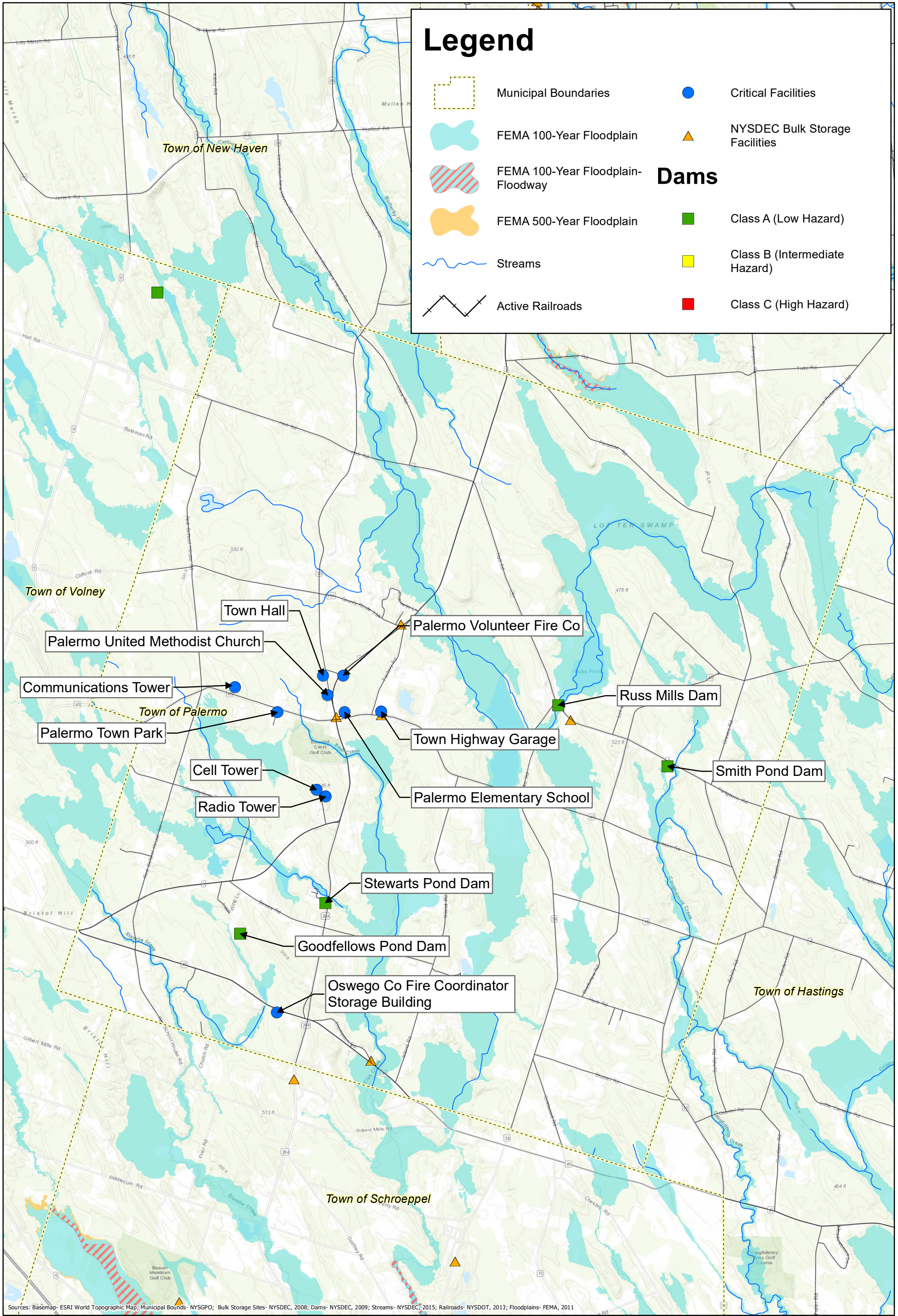
8.0 Works Cited

Strong, Marie. 2016. "Town of Palermo". *History of Oswego County, New York, Marking the Bicentennial*. Eds Shawn Doyle, Roy Reehil, Debra Allen, Justin White, Janet Clerkin, Kelly Jordal, and Kara Alheim. Oswego, NY: Oswego County, New York, 2016. 96-97. Print.

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<https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>

Figure 1

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



Attachment A

**Mitigation Action Worksheets –
Town of Palermo**

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Town of Palermo
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Mitigation Action Worksheet	
Project Name:	Install generator at Town Hall and transfer the emergency operations center from the Fire Dept. to the Town Hall
Project Number:	Palermo 1
Risk/Vulnerability	
Hazard of Concern:	All
Description of the Problem:	Currently the Town Hall lacks a backup power source. Backup generators are available at the Town Fire Dept. (which is currently the Town's designated emergency operations center), Palermo United Methodist Church (emergency shelter location), and the Town Highway Garage. If backup power were available at the Town Hall, it could serve as the Town's emergency operations center which would improve efficiency of operations and less chaos at the Fire Dept. during emergency events.
Action of Project Intended for Implementation	
Description of the Solution:	Install generator to maintain operations during hazards with power outages and improved emergency operations center for the Town.

Is this project related to a Critical Facility? Yes X No

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	High	Estimated Benefits (losses avoided):	Maintain shelter operations during power outages, better protection of residents, improved emergency operations.
Useful Life:	10-15 years		
Estimated Cost:	\$12,000		

Plan for Implementation			
Prioritization:	#1 (High)	Desired Timeframe for Implementation:	1-5 years
Estimated Time Required for Project Implementation:	6 months -1 year	Potential Funding Sources:	FEMA- PDM; USDA-RD- Community Facilities Grant; Town Budget
Responsible Organization:	Palermo Town Supervisor*, Town Board	Local Planning Mechanisms to be used in Implementation, if any:	Capital Improvement Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Town Hall at risk of losing power during hazard events.
	Purchase a portable generator.	\$8,000	Requires more coordination for use.
	Install permanent generator at Town Hall	\$12,000	Enhance continuity emergency operations at Town Hall and provide better EOC conditions during hazard events.

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

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Town of Palermo
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Mitigation Action Worksheet	
Project Name:	Purchase a variable message board for Fire Dept.
Project Number:	Palermo 2
Risk/Vulnerability	
Hazard of Concern:	All
Description of the Problem:	Currently the Town lacks different means of public communication. In addition, fire dept. recruitment and fundraising are low.
Action of Project Intended for Implementation	
Description of the Solution:	A variable message board would provide an efficient way to communicate with Town residents regarding emergency preparedness, trainings (CPR, first aid, etc.), hazard conditions, and would enhance fire dept. recruitment.

Is this project related to a Critical Facility? Yes X No

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	High	Estimated Benefits (losses avoided):	Better informed residents.
Useful Life:	10-15 years		
Estimated Cost:	\$10,000		

Plan for Implementation			
Prioritization:	#2 (High)	Desired Timeframe for Implementation:	1-2 years
Estimated Time Required for Project Implementation:	6 months-1 year	Potential Funding Sources:	FASNY- Recruitment & Retention Grant
Responsible Organization:	Town Fire Dept.*	Local Planning Mechanisms to be used in Implementation, if any:	Capital Improvement Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Risk of water supply loss and contamination remain.
	Alert residents via radio, TV, or door-to-door notification by emergency response agencies	\$500	Door-to-door notification not practical; some residents may not have access to TV/radio or just don't listen to them.
	Install a VMB at Fire Dept.	\$10,000	More efficient messaging, can be changed virtually.

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

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Town of Palermo
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Mitigation Action Worksheet	
Project Name:	Develop and distribute property resilience brochure to all Town residents
Project Number:	Palermo 3
Risk/Vulnerability	
Hazard of Concern:	Severe Thunderstorm/Wind/Tornado, Flooding, Severe Winter Storm, Ice Storm
Description of the Problem:	Many residents throughout Oswego County, including the Town of Palermo, may lack knowledge regarding how to make their properties more resilient to flooding and storm events. Storm damages could be minimized or avoided if residents had access to practical methods for hardening their properties.
Action of Project Intended for Implementation	
Description of the Solution:	Modify County-wide property resiliency brochure to include additional information regarding Town codes, contact information, and other Town-specific information. Distribute the brochure to each Town resident, either by mailing or making the document available on the Town website and at the Town Hall.

Is this project related to a Critical Facility? Yes _____ No X

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	Medium	Estimated Benefits (losses avoided):	Town residents would be better informed about ways to protect their properties during flooding and storm events, which would help to lessen property damages in the future.
Useful Life:	Long-term		
Estimated Cost:	\$500-2,000		

Plan for Implementation			
Prioritization:	Medium	Desired Timeframe for Implementation:	1 year
Estimated Time Required for Project Implementation:	3 months	Potential Funding Sources:	Town budget
Responsible Organization:	Town Supervisor	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	No change in public awareness regarding property resilience.
	Distribute property resiliency brochure developed by Oswego County	\$500-2,000	Partial solution. The property resiliency techniques likely would be the same as those identified for the County, but this option lacks Town-specific information.
	Distribute Oswego County property resiliency brochure modified with Town-specific information	\$500-2,000	Most comprehensive approach, gives Town residents more complete information regarding Town-specific codes and contacts.

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

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Town of Palermo
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Mitigation Action Worksheet	
Project Name:	Coordinate with Oswego County regarding beaver dam removal and maintenance
Project Number:	Palermo 4
Risk/Vulnerability	
Hazard of Concern:	Flood
Description of the Problem:	Beaver activity results in ongoing flooding issues within the Town of Palermo, particularly along County Route 45, causing damage to the road. County Route 45 is one of the main transportation routes in the Town.
Action of Project Intended for Implementation	
Description of the Solution:	Coordinate with Oswego County and NYSDEC regarding maintenance and removal of beaver dams to prevent flooding. Follow up maintenance with regular inspections and monitoring.

Is this project related to a Critical Facility? Yes _____ No X

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	Medium	Estimated Benefits (losses avoided):	Decrease risk of damages to County Rt 45 caused by beaver dam flooding.
Useful Life:	Short-term (ongoing coordination)		
Estimated Cost:	\$5,000		

Plan for Implementation			
Prioritization:	Low (#4)	Desired Timeframe for Implementation:	1-5 years
Estimated Time Required for Project Implementation:	6 months to set up program, then ongoing	Potential Funding Sources:	Town budget
Responsible Organization:	Town Highway Superintendent	Local Planning Mechanisms to be used in Implementation, if any:	None

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Risk of flood damages to County Rt 45 remains.
	Trap/relocate beavers	\$1,000	Private property restrictions; beavers may return in the future so problems may persist
	Coordinate with Town of Mexico and NYSDEC re: beaver dam maintenance and monitoring plan	\$5,000	More comprehensive approach to protect public and private property from flood damages

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

Attachment B

**STAPLEE Table –
Town of Palermo**

Worksheet #6

STAPLEE Criteria Consideration Table

Mitigation Action Prioritization and Comparison

Jurisdiction	Town of Palermo
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