

9.19 Town of Pelham

This section presents the jurisdictional annex for the Town of Pelham. It includes resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. This annex includes a general overview of the municipality and who in the Town participated in the planning process; an assessment of the Town of Pelham’s risk and vulnerability; the different capabilities utilized in the Town; and an action plan that will be implemented to achieve a more resilient community.

9.19.1 Hazard Mitigation Planning Team

The following individuals have been identified as the Town of Pelham’s hazard mitigation plan primary and alternate points of contact. The Town of Pelham followed the planning process described in Section 3 (Planning Process) in Volume I of this plan update. This annex was developed over the course of several months with input from many Town departments, including: Finance, Operations. The Town Supervisor represented the community on the Westchester County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix C (Meeting Documentation).

Table 9.19-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Daniel McLaughlin, Town Supervisor Address: 34 Fifth Avenue, Pelham, NY 10803 Phone Number: (912)-261-5634 Email: Danmacsr@aol.com	Name/Title: Phil DeSimone, Facility Manager Address: 34 Fifth Avenue, Pelham, NY 10803 Phone Number: (914)-772-2117 Email: Phil.Desimonetop@gmail.com
NFIP Floodplain Administrator	
Name/Title: Phil DeSimone, Facility Manager Address: 34 Fifth Avenue, Pelham, NY 10803 Phone Number: (914)-772-2117 Email: Phil.Desimonetop@gmail.com	
Additional Contributors	
Name/Title: Daniel McLaughlin, Town Supervisor Method of Participation: Provided information on past events, previous actions, capabilities.	
Name/Title: Phil Desimone, Facility Manager Method of Participation: Areas that need to be reviewed and studied	

9.19.2 Municipal Profile

The Town of Pelham, New York is located within southern Westchester County, approximately 14 miles northeast of Midtown Manhattan. The Town is comprised of two independently incorporated villages: the Villages of Pelham and Pelham Manor. The Village of Pelham is a triangular area constituting the northern-most 0.82 square miles of the Town’s total 2.1 square miles of land area. The Village is comprised of the neighborhoods of Chester Park, Pelham Heights, Pelville, and Pelhamwood. The remaining 1.3 square miles in the Town of Pelham fall under the jurisdiction of the Village of Pelham Manor.

The Town of Pelham is bounded to the west by the City of Mount Vernon and to the east by the City of New Rochelle. The Hutchinson River flows along the entire western boundary of the Town. The easternmost points of the Town include a small stretch of coastline, as well as a portion of Glen Island Park, both fronting Courtney’s Bay in the Long Island Sound.

The Town is easily accessible by major transportation routes, including the Hutchinson River Parkway running along the western Town and Village border. The southern part of Town is bisected by the New England Thruway (Interstate 95) and Boston Road (State Route 1). The Metro-North Railroad New Haven Line stops at Pelham Station, located in the Village of Pelham.

According to the U.S. Census, the 2010 population for the Town of Pelham was 12,396. The estimated 2019 population was 12,510, a 0.9 percent increase from the 2010 Census. Data from the 2019 U.S. Census American Community Survey indicate that 5.5 percent of the population is 5 years of age or younger and 13.5 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

9.19.3 Jurisdictional Capability Assessment and Integration

The Town of Pelham performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 5 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. This section summarizes the following findings of the assessment:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community’s adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration. Areas with current mitigation integration are summarized in this Jurisdictional Capability Assessment (Section 9.19.3). The Town of Pelham’s identified opportunities for integration of mitigation concepts to be incorporated into municipal procedures are included in the updated mitigation strategy.

Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Pelham. The comment field provides information as to where hazard mitigation has been integrated.

Table 9.19-2. Planning, Legal, and Regulatory Capability and Integration

	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Codes, Ordinances, & Regulations					
Building Code	Yes	Yes	Municipal Code Chapter 34 Local Law 3-2012	State and Local	Building Department

	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> The building code guides the construction practices of development and redevelopment to produce safe buildings protected from most hazard impacts. 					
Zoning/Land Use Code	No	No	-	-	-
<i>How does this reduce risk?</i>					
Subdivision Ordinance	No	No	-	-	-
<i>How does this reduce risk?</i>					
Site Plan Ordinance	No	No	-	-	-
<i>How does this reduce risk?</i>					
Stormwater Management Ordinance	No	Yes	-	-	-
<i>How does this reduce risk?</i>					
Post-Disaster Recovery/ Reconstruction Ordinance	No	No	-	-	-
<i>How does this reduce risk?</i>					
Real Estate Disclosure	Yes	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit. 					
Growth Management	No	No	-	-	-
<i>How does this reduce risk?</i>					
Environmental Protection Ordinance	No	Yes	-	-	-
<i>How does this reduce risk?</i>					
Flood Damage Prevention Ordinance	Yes	Yes	Municipal Code Chapter 45 Adopted 9-4-2007	Federal, State, County and Local	Administration Building Department
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> BFE+2 feet is required for all construction in the SFHA (residential and non-residential) 					
Wellhead Protection	No	No	-	-	-
<i>How does this reduce risk?</i>					
Emergency Management Ordinance	No	No	-	-	-
<i>How does this reduce risk?</i>					
Climate Change Ordinance	No	No	-	-	-
<i>How does this reduce risk?</i>					
Other	No	-	-	-	-
Planning Documents					
Comprehensive Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Capital Improvement Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Disaster Debris Management Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					

	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Floodplain Management or Watershed Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Stormwater Management Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Open Space Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Urban Water Management Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Habitat Conservation Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Economic Development Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Shoreline Management Plan	No	Yes, in jurisdictions with CEHA areas	-	-	-
<i>How does this reduce risk?</i>					
Community Wildfire Protection Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Community Forest Management Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Transportation Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Agriculture Plan	No	Yes	-	-	-
<i>How does this reduce risk?</i>					
Climate Action/ Resiliency/Sustainability Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Tourism Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Business/ Downtown Development Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Other	No	-	-	-	-
Response/Recovery Planning					
Comprehensive Emergency Management Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Continuity of Operations Plan	Yes	No	Continuity of Operations Plan	Local	Office Manager
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> Provides guidance on necessary operations to continue vital government operations 					
Strategic Recovery Planning Report	No	No	-	-	-

	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How does this reduce risk?</i>					
Threat & Hazard Identification & Risk Assessment (THIRA)	No	Yes	-	-	-
<i>How does this reduce risk?</i>					
Post-Disaster Recovery Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Public Health Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Other	No	-	-	-	-

Development and Permitting Capability

The table below summarizes the capabilities of the Town of Pelham to oversee and track development.

Table 9.19-3. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Yes/No	Comment
Do you issue development permits? -If yes, what department is responsible? -If no, what is your process for development?	No	All permitting information is held by the Villages
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	-
Do you have a buildable land inventory? -If yes, describe. -If no, quantitatively describe the level of buildout in the jurisdiction.	No	N/A

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Pelham and their current responsibilities which contribute to hazard mitigation.

Table 9.19-4. Administrative and Technical Capabilities

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Administrative Capability		
Planning Board	No	-
Zoning Board of Adjustments	No	-
Planning Department	Yes	The Town Engineer reviews all home improvements, i.e. alterations & remodeling, which require Village Permits.
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	No	-
Construction/Building/Code Enforcement Department	Yes	The Clerk of the Works is an appointed official position charged with the oversight and specification of new and old construction projects for the Town of

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
		Pelham. This position monitors and ensures the workmanship, cost, and performance of all vendor works.
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-
Mutual aid agreements	No	-
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

Fiscal Capability

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

Table 9.19-5. Fiscal Capabilities

Financial Resources	Are these accessible or eligible to use for mitigation? (Yes/No) If yes, please describe. If no, can this be used to support in the future?
Community development Block Grants (CDBG, CDBG-DR)	N/A
Capital improvements project funding	N/A
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	N/A
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	N/A
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No

Financial Resources	Are these accessible or eligible to use for mitigation? (Yes/No) If yes, please describe. If no, can this be used to support in the future?
Other federal or state funding programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Pelham.

Table 9.19-6. Education and Outreach Capabilities

Outreach Resources	Available? (Yes/No)	Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? If yes, please describe.
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	Yes	Facebook
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Other programs already in place that could be used to communicate hazard-related information	Yes	Facebook, website
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Other	No	-

Community Classifications

The table below summarizes classifications for community programs available to the Town of Pelham.

Table 9.19-7. Community Classifications

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
NYSDEC Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note:

N/A Not applicable

NP Not participating

- Unavailable

Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). In other words, it describes a jurisdiction’s current capabilities to adjust to, protect from, or withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each hazard of concern and the jurisdiction’s rating.

Table 9.19-8. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak*
Disease Outbreak	Moderate
Earthquake	Moderate
Extreme Temperature	Moderate
Flood	Moderate
Severe Storm	Moderate
Severe Winter Storm	Strong
Wildfire	Moderate
CBRN	Moderate

*Strong Capacity exists and is in use

Moderate Capacity may exist; but is not used or could use some improvement

Weak Capacity does not exist or could use substantial improvement

9.19.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP.

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Pelham.

Table 9.19-9. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Town of Pelham	Because the Village of Pelham comprises the total land area of the Town and is an active participant in the program, the Town of Pelham does not participate in the NFIP as an independent jurisdiction.			

Source: FEMA 7-2021

Notes:

RL Repetitive Loss; SRL Severe Repetitive Loss

Flood Vulnerability Summary and NFIP Compliance

The following table provides a summary of the NFIP program in the Town of Pelham.

Table 9.19-10. Flood Vulnerability Summary and NFIP Compliance

NFIP Topic	Comments
Flood Vulnerability Summary	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> Do you maintain a list of properties that have been damaged by flooding? 	Library building

NFIP Topic	Comments
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)? 	No
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> If so, state what projects are underway. 	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> How many were declared for recent flood events in your jurisdiction? 	None
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> If there are mitigation properties, how were the projects funded? 	None
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> If not, state why. 	Yes
NFIP Compliance	
What local department is responsible for floodplain management?	Facility Management
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> If so, what type of assistance/training is needed? 	No
Provide an explanation of NFIP administration services you provide (e.g. permit review, GIS, education/outreach, inspections, engineering capability)	N/A
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	N/A
What are the barriers to running an effective NFIP program in the community, if any?	N/A
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> If so, state the violations. 	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	None identified
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> What is the date that your flood damage prevention ordinance was last amended? 	Municipal Code Chapter 45 Adopted 9-4-2007
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> If exceeds, in what ways? 	N/A
Are there other local ordinances, plans or programs (e.g. site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board	No

NFIP Topic	Comments
consider efforts to reduce flood risk when reviewing variances such as height restrictions?	
Does your jurisdiction participate in CRS? <ul style="list-style-type: none"> If yes, is your jurisdiction interested in improving its CRS Classification? If no, is your jurisdiction interested in joining the CRS program? 	No

9.19.5 Evacuation, Sheltering, Temporary Housing, and Permanent Housing

Evacuation routes, sheltering measures, temporary housing, and permanent housing must all be in place and available for public awareness to protect residents, mitigate risk, and relocate residents, if necessary, to maintain post-disaster social and economic stability.

Evacuation Routes and Procedures

The Town of Pelham has identified the following routes and procedures to evacuate residents prior to and during an event.

- The Town does not currently have an identified evacuation plan or procedures. The Town will work with Westchester County to establish evacuation procedures (action 2021-Town of Pelham-003).

Sheltering

The Town of Pelham has identified the following designated emergency shelters within the Town.

Table 9.19-11. Designated Emergency Shelters

Site Name	Address	Capacity	Accommodates Pets?	ADA Compliant?	Backup Power?	Types of Medical Services Provided	Other Services Provided
The Town will work with Westchester County to identify appropriate designated emergency shelters (action 2021-Town of Pelham-003).							

Temporary Housing

Each jurisdiction must identify sites for the placement of temporary housing units to house residents displaced by a disaster. The Town of Pelham has identified the following sites suitable for placing temporary housing units.

Table 9.19-12. Temporary Housing Locations

Site Name	Site Address	Capacity (number of sites)	Type	Infrastructure / Utilities Available (water, electric, septic, etc.)	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
The Town has not identified appropriate locations for the placement of temporary housing outside of the Special Flood Hazard Area. The Town will work with Westchester County to identify appropriate locations for the siting of temporary housing within the region (action 2021-Town of Pelham-004).					

Permanent Housing

Structures located in the regulatory floodplain may need to be relocated due to high flood risk or new properties must be built once severely damaged properties are demolished. Jurisdictions must identify suitable sites

currently owned by the jurisdiction and potential sites under private ownership that meet applicable local zoning requirements and floodplain laws. The Town of Pelham has identified the following areas suitable for relocating homes outside of the floodplain.

Table 9.19-13. Permanent Housing Locations

Site Name	Site Address	Capacity (number of sites)	Type	Infrastructure / Utilities Available (water, electric, septic, etc.)	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
The Town has not identified appropriate locations for the placement of permanent housing outside of the Special Flood Hazard Area. The Town will work with Westchester County to identify appropriate locations for the siting of permanent housing within the region (action 2021-Town of Pelham-004).					

9.19.6 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to understanding a jurisdiction’s overall risk to its hazards of concern. Table 9.19-14 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

Table 9.19-14. Recent and Expected Future Development

Type of Development	2014	2015	2016	2017	2018	2019	2020
All permitting information is held by the villages.							
Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zone(s)*	Description / Status of Development		
Recent Major Development and Infrastructure from 2015 to Present							
None identified							
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years							
None anticipated							

SFHA Special Flood Hazard Area (1% flood event)
* Only location-specific hazard zones or vulnerabilities identified.

9.19.7 Jurisdictional Risk Assessment

The hazard profiles in Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Refer to Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) for a detailed summary for the Town of Pelham’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps were generated to illustrate the probable areas impacted within the jurisdiction. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps have been generated only for those hazards that can be clearly identified using mapping techniques and technologies and for which the Town of Pelham has significant exposure. The maps also show the location of potential new development, where available.

The Town is entirely comprised of two independently incorporated villages: the Villages of Pelham (Section 9.38) and Pelham Manor (Section 9.39). Refer to each village’s annex for hazard area extent and location mapping.

Hazard Event History

Westchester County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5 (Risk Assessment) of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the county and its municipalities.

The Town of Pelham’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Westchester County. Table 9.19-15 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.19-15. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
February 13, 2017	High Wind	No	Low pressure passed to the east of Westchester County and rapidly deepened, resulting in strong winds with gusts exceeding 70 mph.	Although the County was impacted, the Town of Pelham did not report any damages.
March 2, 2018	High Wind	No	A deep area of low pressure passed off the coast resulting in strong winds with gusts exceeding 70 mph.	Although the County was impacted, the Town of Pelham did not report any damages.
April 13, 2020	High Wind	No	Deep low pressure passed to the west of the area resulting in high winds with gusts near 70 mph.	Although the County was impacted, the Town of Pelham did not report any damages.
August 4, 2020	Tropical Storm (DR-4567)	Yes	Tropical Storm Isaias passed over the region, resulting in high winds with gusts between 60-80 mph.	Although the County was impacted, the Town of Pelham did not report any damages.
January 20, 2020 – Present	Covid-19 Pandemic (EM-3434) (DR-4480)	Yes	Between March 1, 2020 and June 6, 2021, Westchester County reported 129,488 confirmed cases of COVID-19, and 2,284 total fatalities.	\$47,000- PPE

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

Hazard Ranking and Vulnerabilities

The hazard profiles in Section 5.0 (Risk Assessment) of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Pelham’s risk assessment results and data used to determine the hazard ranking.

Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Section 5 (Risk Assessment) of the plan. The ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy as well as community capability and changing future

climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.

As discussed in Section 5.3 (Hazard Ranking), each participating jurisdiction may have differing degrees of risk exposure and vulnerability compared to Westchester County as a whole. Therefore, each municipality ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Pelham. The Town of Pelham has reviewed the county hazard risk/vulnerability risk ranking table as well as its individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- The Town agreed with the calculated hazard rankings.

Table 9.19-16. Hazard Ranking Input

Disease Outbreak	Earthquake	Extreme Temperature	Flood	Severe Storm	Severe Winter Storm	Wildfire	CBRN
Low	Low	Low	Medium	High	Medium	Low	Low

Note: The scale is based on the hazard rankings established in Section 5.3 and modified as appropriate during review by the jurisdiction

Critical Facilities

New York State Department of Environmental Conservation (DEC) Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a Special Flood Hazard Area (SFHA) unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, the State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event, or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

Table 9.19-17. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 1% Flood Event		Addressed by Proposed Action
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	
None identified						

Source: Westchester County 2021, FEMA 2007

Identified Issues

After review of the Town of Pelham’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Pelham has identified the following vulnerabilities within their community:

- The Library is exposed to flooding and the basement requires floodproofing to prevent flood damages.
- The bottom floor of the Town House/Court Building is prone to flooding. The Town uses this building for Court two days a week. It is extensively used by the recreation department as well as a Senior Citizen Center. Part of this building is currently leased out to The Children's Center of Pelham. Rainwater comes off the roof and then drains into the classrooms during heavy storms. The cause of leakage is unknown.
- The Town has not identified designated emergency shelters or evacuation procedures.
- The Town has not identified appropriate locations for the placement of temporary and permanent housing outside of the Special Flood Hazard Area.

9.19.8 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and their prioritization.

Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2015 HMP. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this annex.

Table 9.19-18. Status of Previous Mitigation Actions

Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps 1. Project to be included in 2021 HMP or Discontinue 2. If including action in the 2021 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
The previous HMP did not identify actions specific to the Town of Pelham. Actions are reflected in the Village of Pelham’s annex.							

Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Town of Pelham has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2015 HMP:

- None identified

Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Pelham participated in a mitigation action workshop in October 2021 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

The table below indicates the range of proposed mitigation action categories.

Table 9.19-19. Analysis of Mitigation Actions by Hazard and Category

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Disease Outbreak	X				X					X
Earthquake	X				X					X
Extreme Temperature	X				X					X
Flood	X	X			X	X				X
Severe Storm	X	X			X	X				X
Severe Winter Storm	X				X					X
Wildfire	X				X					X
CBRN	X				X					X

Note: Section 6 (Mitigation Strategy) provides for an explanation of the mitigation categories.

Table 9.19-20 summarizes the comprehensive-range of specific mitigation initiatives the Town of Pelham would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as ‘High’, ‘Medium’, or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.19-21 provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

Table 9.19-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2021-Town of Pelham -001	Floodproof Library Basement	2	Flood	Problem: The Library is exposed to flooding and the basement requires floodproofing to prevent flood damages. Solution: The Town will floodproof the Library basement and ensure proper drainage around the building.	Yes	None	Within 5 years	Town Engineer	Low	Reduction in flood risk to Library	HMGP, USDA Community Facilities Grant Program, Town budget	High	SIP	PP
2021-Town of Pelham -002	Drainage Improvements for Town House/ Court Building	2	Severe Storm, Flood	Problem: The bottom floor of the Town House/Court Building is prone to flooding. The Town uses this building for Court two days a week. It is extensively used by the recreation department as well as a Senior Citizen Center. Part of this building is currently leased out to The Children's Center of Pelham. Rainwater comes off the roof and then drains into the classrooms during heavy storms. The cause of leakage is unknown. Solution: The Town will determine how runoff from the roof is entering the building and redirect runoff away from the building.	Yes	None	1 year	Town Engineer	Low	Flooding of building eliminated	HMGP, USDA Community Facilities Grant Program, Town budget	High	SIP	PP
2021-Town of Pelham -003	Evacuation and Sheltering	1, 6	All Hazards	Problem: The Town has not identified designated emergency shelters or established evacuation procedures. Solution: The Town will work with Westchester County to identify appropriate designated emergency shelters and establish evacuation procedures.	No	None	6 months	Administration working with Westchester County	Staff time	Temporary and permanent housing locations identified	Town budget	High	LPR	ES
2021-Town of Pelham -004	Temporary and Permanent Housing	1, 6	All Hazards	Problem: The Town has not identified appropriate locations for the placement of temporary and	No	None	6 months	Administration working with Westchester County	Staff time	Temporary and permanent housing	Town budget	High	LPR	ES, PR

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				permanent housing outside of the Special Flood Hazard Area. Solution: The Town will work with Westchester County to identify appropriate locations for the siting of temporary and permanent housing within the region.						locations identified				

Notes:

Not all acronyms and abbreviations defined below are included in the table.

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes ♦ Critical Facility located in 1% floodplain

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP) - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.



- *Property Protection (PP)* - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- *Public Information (PI)* - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- *Natural Resource Protection (NR)* - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- *Structural Flood Control Projects (SP)* - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- *Emergency Services (ES)* - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities

Table 9.19-21. Summary of Prioritization of Actions

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2021- Town of Pelham -001	Floodproof Library Basement	0	1	1	1	1	1	0	1	1	1	0	0	1	1	10	High
2021- Town of Pelham -002	Drainage Improvements for Town House/ Court Building	0	1	1	1	1	1	0	1	1	1	1	1	1	1	12	High
2021- Town of Pelham -003	Evacuation and Sheltering	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2021- Town of Pelham -004	Temporary and Permanent Housing	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).

9.19.9 Action Worksheets

The following action worksheets have been developed by the Town of Pelham to aid in the submittal of grant applications to support the funding of high priority proposed actions.

Action Worksheet			
Project Name:	Floodproof Library Basement		
Project Number:	2021- Town of Pelham -001		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	The Library is exposed to flooding and the basement requires floodproofing to prevent flood damages.		
Action or Project Intended for Implementation			
Description of the Solution:	The Town will floodproof the Library basement and ensure proper drainage surrounding the building.		
Is this project related to a Critical Facility or Lifeline?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	1-percent plus 2 feet	Estimated Benefits (losses avoided):	Reduction in flood risk to Library
Useful Life:	50 years	Goals Met:	2
Estimated Cost:	Low	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	6 months	Potential Funding Sources:	HMGP, USDA Community Facilities Grant Program, Town budget
Responsible Organization:	Town Engineer	Local Planning Mechanisms to be Used in Implementation if any:	Hazard mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Build new Library in new location	High	Too expensive
	Standby sandbags	\$5,000	Requires deployment
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			

Action Worksheet		
Project Name:	Floodproof Library Basement	
Project Number:	2021- Town of Pelham -001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Protects Library from flood damages
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Town has the legal authority to complete the project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Flood
Timeline	0	Within 5 years
Agency Champion	1	Engineer
Other Community Objectives	1	Protection of community facilities
Total	10	
Priority (High/Med/Low)	High	

Action Worksheet			
Project Name:	Drainage Improvements for Town House/ Court Building		
Project Number:	2021- Town of Pelham -002		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	The bottom floor of the Town House/Court Building is prone to flooding. The Town uses this building for Court two days a week. It is extensively used by the recreation department as well as a Senior Citizen Center. Part of this building is currently leased out to The Children's Center of Pelham. Rainwater comes off the roof and then somehow drains into the classrooms during heavy storms.		
Action or Project Intended for Implementation			
Description of the Solution:	The Town will determine how runoff from the roof is entering the building and redirect runoff away from the building.		
Is this project related to a Critical Facility or Lifeline?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	1-percent plus 2 feet	Estimated Benefits (losses avoided):	Reduction in flood risk to Library
Useful Life:	50 years	Goals Met:	2
Estimated Cost:	Low	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	1 year
Estimated Time Required for Project Implementation:	6 months	Potential Funding Sources:	HMGP, USDA Community Facilities Grant Program, Town budget
Responsible Organization:	Town Engineer	Local Planning Mechanisms to be Used in Implementation if any:	Hazard mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Build new Town House/ Court Building in new location	High	Too expensive
	Standby sandbags	\$5,000	Requires deployment
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			

Action Worksheet		
Project Name:	Drainage Improvements for Town House/ Court Building	
Project Number:	2021- Town of Pelham -002	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Protects Library from flood damages
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Town has the legal authority to complete the project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm
Timeline	1	1 year
Agency Champion	1	Engineer
Other Community Objectives	1	Protection of community facilities
Total	10	
Priority (High/Med/Low)	High	