

Village of Flower Hill Annex

This document presents the Village of Flower Hill’s annex to the *Nassau County Multi-Jurisdictional Hazard Mitigation Plan*.

Hazard Mitigation Plan Points of Contact

The individuals below have been identified as this jurisdiction’s points of contact for the hazard mitigation plan. These individuals are members of the Planning Committee that met regularly for the update of this plan and will continue to meet in the years ahead to implement it.

Primary Point of Contact	Alternate Point of Contact
Ronnie Shatzkamer, Village Administrator 1 Bonnie Heights Road Manhasset, NY 11030 vclerk@villageflowerhill.org 516-627-5000	Randall Rosenbaum, Trustee 1 Bonnie Heights Road Manhasset, NY 11030 vclerk@villageflowerhill.org 516-627-5000

Profile

The Village of Flower Hill covers approximately 1.62 square miles¹ and has a total population of 4,785 according to the American Community Survey 5-Year 2018 Estimates. Some of the demographics of the Village of Flower Hill are summarized in Table 1. This information supported the development of mitigation actions that account for the needs of the most vulnerable individuals in the community.

Table 1: Village of Flower Hill Demographic Information

Demographic		Demographic	
Below 5 Years Old	6.5%	Black or African American alone	0.7%
Above 65 Years Old	16.8%	American Indian and Alaska Native alone	0.0%
Individuals with Disabilities	Information not provided	Asian alone	12.7%
Persons in Poverty	1.9%	Native Hawaiian and other Pacific Islander alone	0.0%
Renters	8.6%	Two or More Races	2.0%
Without a High School Diploma	6.3%	White alone, not Hispanic or Latino, percent	78.7%
Without Access to Broadband Internet	0.0%	Hispanic or Latino	5,8%

¹ This is inclusive of land area only.

New residential and additions and alterations constitute the large majority of all development, with 50 new homes built. In addition to new homes being built, there have been substantial building alterations around the Village. The jurisdiction continues to maintain zoning and a planning team. By understanding these development trends and how they intersect with hazard-prone areas, this allows for current and future vulnerabilities to be planned for and avoided.

Refer to the **County Profile** section of this plan for additional information related to current and future conditions of the County’s vulnerable population and the natural environment. This information provides important context for understanding hazard mitigation planning.

Hazard Vulnerability

This section summarizes how the natural hazards profiled in Section 4 of this plan impact the Village of Flower Hill. The jurisdiction identified hurricane, severe winter weather, and wind as the natural hazards that most impact the community. Table 2 shows the sectors of the community that are most likely to be impacted by each hazard. The categories that were considered included the community, economy, health and social services, housing, infrastructure, natural and cultural resources, or no impact. No impact indicates that the jurisdiction did not identify a noticeable impact from the hazard over the past five years, even if the hazard occurs. This information was used to develop a relevant and effective mitigation strategy for the jurisdiction. Detailed hazard event histories, critical facility exposure, and additional vulnerability information can be found in each hazard profile in Section 4 of this plan.

The hazards that most impact the Village of Flower Hill include:
Hurricane, Severe Winter Weather, and Wind.

Table 2: Village of Flower Hill Hazard Impacts

Hazard	Impact Categories
Coastal Hazards	No Impact
Drought	Natural and Cultural Resources
Extreme Temperatures	Health and Social Services, Natural and Cultural Resources
Flooding	Economy, Housing, Infrastructure, Natural and Cultural Resources
Ground Failure	No Impact
Hurricane and Tropical Storms	Community, Economy, Natural and Cultural Resources
Hail	Economy
Lightning	No Impact
Severe Winter Weather	Community, Economy
Tornados	Natural Cultural Resources
Wind	Economy, Natural Cultural Resources

Capability Assessment

This section summarizes the capabilities that the Village of Flower Hill has in place that can support hazard mitigation. These capabilities include plans, ordinances, staff, financial resources,

and program participation. This Capability Assessment was used to help drive the identification and development of the projects presented in the Mitigation Strategy to make sure that they are appropriate in scope and achievable to implement.

Legal and Regulatory Capability Assessment

Table 3 lists the assessment of existing legal and regulatory tools for the Village of Flower Hill. The Village of Floral Hill maintains several key administrative and technical capabilities to support mitigation, including building codes, emergency response plans, site plan review requirements, stormwater management plans, subdivision ordinances, and zoning ordinances. These capabilities are critical to consider as tools in developing and implementing mitigation strategies. To further enhance their mitigation capabilities, the Village can consider the capabilities in the table below that the Village currently does not have. These additional capabilities would either support creating a legal framework or strategy for implementing a diversity of mitigation actions.

Table 3: Village of Flower Hill Existing Legal and Regulatory Capabilities

Regulatory Tool	Yes / No	Citation (if applicable)
Access and Functional Needs Plan	No	
Building Code	Yes	Village Code & NYS Building Code
Capital Improvement Plan	No	
Climate Action Plan	No	
Community Development Plan	No	
Comprehensive Plan / Master Plan	No	
Economic Development Plan(s)	No	
Emergency Response Plan(s)	Yes	Village Emergency Management Plan
Floodplain Management Plan(s)	No	
Growth Management Plan(s)	No	
NFIP Flood Damage Prevention Ordinance(s)	No	
Open Space Plan(s)	No	
Post Disaster Recovery Ordinance(s)	No	
Post Disaster Recovery Plan(s)	No	
Real Estate Disclosure Requirements	No	
Resilience Plan(s)	No	
Site Plan Review Requirement(s)	Yes	Village Code
Small Area Development Plan(s)	No	
Special Purpose Ordinance(s)	No	
Stormwater Management Plan(s)	Yes	Dec Spedes Permit
Subdivision Ordinance(s)	Yes	Village Code
Transportation Plan(s)	No	

Regulatory Tool	Yes / No	Citation (if applicable)
Zoning Ordinance(s)	Yes	Village Code

Administrative and Technical Capability Assessment

Table 4 lists the assessment of existing administrative and technical tools for the Village of Flower Hill. The Village of Flower Hill has a high level of primary administrative and technical capabilities to support mitigation. This includes management, engineering, grant writing, GIS analyst, and planning. Increasing training capacity and expertise of these individuals will support mitigation practice in the Village.

Table 4: Village of Flower Hill Existing Staff / Personnel Resource

Staff / Personnel Resource	Yes / No	Details
Emergency Manager(s)	Yes	Public Works Superintendent
Engineer(s) trained in construction practices related to buildings/infrastructure	Yes	Building Superintendent, Architect
Engineer(s) with an understanding of natural and/or human caused hazards	Yes	Village Engineer, consultant
Engineer(s) with knowledge of land development and land management practices	Yes	Village Engineer, consultant
Grant Writers	No	
Personnel skilled or trained in Geographic Information Systems	Yes	Public Works Superintendent
Personnel trained in construction practices related to buildings/infrastructure	Yes	Building Superintendent, Architect
Planner(s) with an understanding of natural hazards	No	
Planner(s) with knowledge of land development and land management practices	No	
Scientist(s) familiar with natural hazards	No	
Surveyors	No	

Fiscal Capability Assessment

Table 5 lists the assessment of existing fiscal tools for the Village of Flower Hill. Funding is often the biggest barrier when implementing mitigation programs. The Village is primarily able to fund mitigation programs by capital improvements project funding and impact fees for home buyers and/or developers. Village of Flower Hill should consider exploring additional fiscal capabilities in order to gain access to additional funding for mitigation.

Table 5: Village of Flower Hill Existing Fiscal Capabilities

Resources	Yes / No	Additional Details
Ability to incur debt through general obligation bonds	No	
Ability to incur debt through private activity bonds	No	
Ability to incur debt through special tax bonds	No	
Authority to levy taxes for specific purposes	No	
Authority to utilize user fees for utility services	No	
Authority to withhold public expenditures in hazard prone areas	No	
Capital improvements project funding	Yes	
Community Development Block Grants (CDBG)	No	
Impact fees for home buyers and/or developers	Yes	Mandated through Village CodeMandated through Village Code
State mitigation grant programs	No	

Community Classification Assessment

Table 6 lists the assessment of existing community classifications for the Village of Flower Hill. Exploring gaining one or more community classifications will guide the Village's mitigation programs and support capacity building.

Table 6: Village of Flower Hill Community Classifications

Classification	Yes/No (or Status)
Building Code Effectiveness Grading Schedule (BCEGS)	No
Public Protection Classification Program	No
Community Rating System (CRS)	No
Other Classifications	No

National Flood Insurance Program Summary

The Village is in an area of minimal flood hazard, according to FEMA flood insurance rate maps. This section provides a summary of the floodplain management capabilities for Village of Flower Hill and how the jurisdiction is meeting the requirements of the National Flood Insurance Program (NFIP).

The Village's Building Inspector is responsible for floodplain management. The Village did not note any current barriers to running a successful NFIP program. The flood maps for this jurisdiction accurately portray the current flood risk. There are currently no RiskMAP projects ongoing in this jurisdiction.

The Village of Flower Hill is in good standing with the NFIP. Based on documentation received from NYSDEC, a compliance audit (e.g., Community Assistance Visit or Community Assistance Contacts) has not been conducted for the municipality but the Village will determine if one is needed in the future and schedule it. There are no NFIP compliance violations that need to be addressed in this jurisdiction.

The Flood Damage Prevention Ordinance for the Village of Flower Hill meets minimum requirements. The ordinance was last amended 5/4/2009 and can be referenced in Chapter 124, Village Code, by L.L. No. 5-2009.

Mitigation Strategy

The following section provides an overview of the mitigation strategy for Village of Flower Hill. It provides an overview of the jurisdiction's previous mitigation actions, proposed actions, and the NYS mitigation worksheets.

Previous Mitigation Actions

This jurisdiction did not participate in the 2014 hazard mitigation plan.

Proposed Mitigation Actions

Project Number	VFH_1	VFH_2	VFH_3	VFH_4
Project Name	Catch basin & Drain cleaning	Generator Reliability	Power reliability	Ongoing Village Tree Maintenance Program
Goal being met	3	2	1	3
Hazards to be mitigated	Flooding	High Wind, Hurricanes, Ice Storms	High Wind, Hurricanes, Ice Storms	High Wind, Hurricanes, Ice Storms
Priority Ranking	High	High	High	High
Description of the Problem	Street flooding caused by debris in drains and basins.	Village Hall has issues with the generator.	Many power outages during storms and high wind conditions.	During storms, high winds, and ice events, many trees in the heavily wooded Village lose limbs or fall. During Superstorm Sandy, the Village lost over 400 trees which created property damage to homes and autos and damaged and blocked essential roadways. During recent high wind events such as nor'easters, the Village has sustained tree loss that impeded roadways and caused property damage. In the event of an evacuation, essential roads could become blocked.
Description of the Solution	Prevent flooding by cleaning basins prior to forecasted storms	Regular maintenance of generator	Harden utilities in the area.	Establish a tree removal and maintenance program to continually oversee diseased tree removal, dead limb cutting, and weight-relieving pruning.
Critical Facility	Yes	Yes	Yes	Yes
EHP Issues	No	No	No	No
Estimated Timeline	Ongoing	Ongoing	Ongoing	Ongoing
Lead Agency	Flower Hill	Flower Hill	PSEG	Flower Hill
Estimated Costs	2,000 - 3,000	2,000 - 3,000	To be determined	5,000 - 8,000
Estimated Benefits	Fewer occurrences of flooding.	Ability to continue work in offices during events.	Fewer power outages.	Fewer hazardous trees along roadways.
Potential Funding Sources	Village budget	Village budget	FEMA	Village budget

Mitigation Action Worksheets

The following pages contain mitigation action worksheets that provide additional detail some of the jurisdiction's proposed mitigation actions.

Nassau County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction: Village of Flower Hill

NYS DHSES Action Worksheet			
Project Name:	Village Tree Maintenance Program		
Project Number:	VFH_4		
Risk / Vulnerability			
Hazard of Concern:	High winds, hurricanes, ice storms		
Description of the Problem:	During storms, high winds, and ice events, many trees in the heavily wooded Village lose limbs or fall. During Superstorm Sandy, the Village lost over 400 trees which created property damage to homes and autos and damaged and blocked essential roadways. During recent high wind events such as nor'easters, the Village has sustained tree loss that impeded roadways and caused property damage. In the event of an evacuation, essential roads could become blocked.		
Action or Project Intended for Implementation			
Description of the Solution:	Establish a tree removal and maintenance program to continually oversee diseased tree removal, dead limb cutting, and weight-relieving pruning.		
Is this project related to a Critical Facility?		Yes	No <input checked="" type="checkbox"/>
(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:	This will protect against storm events that occur multiple times each year.	Estimated Benefits (losses avoided):	Keep evacuation routes open, prevent injury and property damage, prevent damage to essential roads.
Useful Life:	Project is ongoing		
Estimated Cost:	Between \$5,000 - \$8,000 annually		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Ongoing - several times a year as needed
Estimated Time Required for Project Implementation:	Ongoing	Potential Funding Sources:	Funded by Village budget
Responsible Organization:	Public Works Dept	Local Planning Mechanisms to be Used in Implementation, if any:	
Three Alternatives Considered (including No Action)			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	No Action	\$0	Would create a great deal of storm damage
	Require adjacent homeowners to prune and remove dangerous trees & branches	\$500	Only cost would be enforcement as local law requires adjoining property owners to care for trees in the ROW contiguous to their property
Cut current program by 50%	\$2,500 - \$4,000	Would not be able to evaluate and address the full complement of trees in ROW. Storm damage would still increase.	
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			

Update Evaluation of
the Problem and/or
Solution:

Instructions

(Name of Jurisdiction) _____

NYS DHSES Action Worksheet			
Project Name:	Each action must have a unique project number referenced here and in the Action Tables.		
Project Number:	Each action must have a unique project name referenced here and in the Action Tables.		
Risk / Vulnerability			
Hazard of Concern:	Identify the hazard being addressed with this action.		
Description of the Problem:	Provide a detailed narrative of the problem. Describe the natural hazard you wish to mitigate, its impacts to the jurisdiction, past damages and loss of service, etc. Include the street address of the property/project location (if applicable), adjacent streets, and easily identified landmarks such as water bodies and well-known structures, and end with a brief description of existing conditions (topography, terrain, hydrology) of the site.		
Action or Project Intended for Implementation			
Description of the Solution:	Provide a detailed narrative of the solution. Describe the physical area (project limits) to be affected, both by direct work and by the project's effects; how the action would address the existing conditions previously identified; proposed construction methods, including any excavation and earth-moving activities; where you are in the development process (e.g., are studies and/or drawings complete), etc., the extent of any analyses or studies performed (attach any reports or studies).		
Is this project related to a Critical Facility?		Yes <input type="checkbox"/>	No <input type="checkbox"/>
(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:	Identify the level of protection the proposed project will provide. Ex. 100-year (1%) flood.	Estimated Benefits (losses avoided):	Identify the benefits that implementation of this project will provide. If dollar amounts are known, include them. If dollar amounts are unknown or are unquantifiable, describe the losses that will be avoided.
Useful Life:	Identify the number of years the project will provide protection against the hazard.		
Estimated Cost:	Identify all estimated costs associated with implementation.		
Plan for Implementation			
Prioritization:	Identify the priority based on the prioritization method agreed upon.	Desired Timeframe for Implementation:	Identify the desired start time for this project. Ex. Within 6 months.
Estimated Time Required for Project Implementation:	Provide the estimated time required to complete the project from start to end.	Potential Funding Sources:	Multiple sources of potential funding should be listed when appropriate.
Responsible Organization:	Identify the name of a department or agency responsible for implementation, not the jurisdiction.	Local Planning Mechanisms to be Used in Implementation, if any:	Consider the use of local planning mechanisms that will be used to implement this project.
Three Alternatives Considered (including No Action)			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	No Action	\$0	
	Alternative 1 Brief Description		Include a description of pros/cons of Alternative 1.
	Alternative 2 Brief Description		Include a description of pros/cons of Alternative 2.
Progress Report (for plan maintenance)			
Date of Status Report:	This section should be completed during plan maintenance/evaluation.		
Report of Progress:	Describe what progress, if any, has been made on this project. If it has been determined the jurisdiction no longer wishes to pursue implementation, state that here and indicate why.		
Update Evaluation of the Problem and/or Solution:	Provide an updated description of the problem and solution, and what has happened since initial consideration/development.		

Nassau County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction: Village of Flower Hill

NYS DHSES Action Worksheet			
Project Name:	Catch Basin & Drain Cleaning		
Project Number:	VFH_1		
Risk / Vulnerability			
Hazard of Concern:	Flooding		
Description of the Problem:	Storm sewers and catch basins overflow during heavy rain causing flooding. As the Village is heavily treed, leaves and debris collect in storm drains and catch basins causing flooding during heavy rain.		
Action or Project Intended for Implementation			
Description of the Solution:	Prior to every forecast storm Public Works Dept. staff clears every catch basin and storm drain including the filters.		
Is this project related to a Critical Facility?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(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:	500 year flood	Estimated Benefits (losses avoided):	Roads remain passable in the event of an evacuation, prevent sustained damage to roadways, avoid property damage caused by flooding
Useful Life:	ongoing		
Estimated Cost:	\$3,000 - \$5,000 annually		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Ongoing - several times a year
Estimated Time Required for Project Implementation:	1-2 days each cleaning	Potential Funding Sources:	Village budget
Responsible Organization:	Public Works Dept.	Local Planning Mechanisms to be Used in Implementation, if any:	
Three Alternatives Considered (including No Action)			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	No Action	\$0	Increased flooding, road erosion, property damage
	Partial cleaning	\$1,500 - \$2,500	Somewhat lessened flooding, erosion, damage to property
	Removing storm drain filters	\$60,000 cost of filters no longer in use	Removing all storm drain filters would allow the freer flow of water into the system however it would increase the amount of toxins in the waterways. The increase in flow does not warrant the removal of this important environmental tool
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			

Update Evaluation of
the Problem and/or
Solution:

Instructions

(Name of Jurisdiction) _____

NYS DHSES Action Worksheet			
Project Name:	Each action must have a unique project number referenced here and in the Action Tables.		
Project Number:	Each action must have a unique project name referenced here and in the Action Tables.		
Risk / Vulnerability			
Hazard of Concern:	Identify the hazard being addressed with this action.		
Description of the Problem:	Provide a detailed narrative of the problem. Describe the natural hazard you wish to mitigate, its impacts to the jurisdiction, past damages and loss of service, etc. Include the street address of the property/project location (if applicable), adjacent streets, and easily identified landmarks such as water bodies and well-known structures, and end with a brief description of existing conditions (topography, terrain, hydrology) of the site.		
Action or Project Intended for Implementation			
Description of the Solution:	Provide a detailed narrative of the solution. Describe the physical area (project limits) to be affected, both by direct work and by the project's effects; how the action would address the existing conditions previously identified; proposed construction methods, including any excavation and earth-moving activities; where you are in the development process (e.g., are studies and/or drawings complete), etc., the extent of any analyses or studies performed (attach any reports or studies).		
Is this project related to a Critical Facility?		Yes <input type="checkbox"/>	No <input type="checkbox"/>
(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:	Identify the level of protection the proposed project will provide. Ex. 100-year (1%) flood.	Estimated Benefits (losses avoided):	Identify the benefits that implementation of this project will provide. If dollar amounts are known, include them. If dollar amounts are unknown or are unquantifiable, describe the losses that will be avoided.
Useful Life:	Identify the number of years the project will provide protection against the hazard.		
Estimated Cost:	Identify all estimated costs associated with implementation.		
Plan for Implementation			
Prioritization:	Identify the priority based on the prioritization method agreed upon.	Desired Timeframe for Implementation:	Identify the desired start time for this project. Ex. Within 6 months.
Estimated Time Required for Project Implementation:	Provided the estimated time required to complete the project from start to end.	Potential Funding Sources:	Multiple sources of potential funding should be listed when appropriate.
Responsible Organization:	Identify the name of a department or agency responsible for implementation, not the jurisdiction.	Local Planning Mechanisms to be Used in Implementation, if any:	Consider the use of local planning mechanisms that will be used to implement this project.
Three Alternatives Considered (including No Action)			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	No Action	\$0	
	Alternative 1 Brief Description		Include a description of pros/cons of Alternative 1.
	Alternative 2 Brief Description		Include a description of pros/cons of Alternative 2.
Progress Report (for plan maintenance)			
Date of Status Report:	This section should be completed during plan maintenance/evaluation.		
Report of Progress:	Describe what progress, if any, has been made on this project. If it has been determined the jurisdiction no longer wishes to pursue implementation, state that here and indicate why.		
Update Evaluation of the Problem and/or Solution:	Provide an updated description of the problem and solution, and what has happened since initial consideration/development.		