Village of Garden City Annex

This document presents the Village of Garden City'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
Domenick Stanco Village of Garden City 351 Stewart Avenue Garden City, NY 11530 dstanco@gardencityny.ne 516-465-4017	Courtney Rosenblatt Village of Garden City 351 Stewart Avenue Garden City, NY 11530 Crosenblatt@gardencity.ny 516-465-4006

Profile

The Village of Garden City covers approximately 5.33 square miles[1] and has a total population of 22,454 according to the American Community Survey 5-year 2018 Estimates. Some of the demographics of the Village of Garden City 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 Garden City Demographic Information

Demographic		Demographic	
Below 5 Years Old	6.2%	Black or African American alone	1.8%
Above 65 Years Old	17.6%	American Indian and Alaska Native alone	0.0%
Individuals with Disabilities	3.4%	Asian alone	3.1%
Persons in Poverty	2.5%	Native Hawaiian and other Pacific Islander alone	0.0%
Renters	5.1%	Two or More Races	1.7%
Without a High School Diploma	1.5%	White alone, not Hispanic or Latino, percent	89.1%
Without Access to Broadband Internet	8.4%	Hispanic or Latino	4.9%

[1] This is inclusive of land area only.

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 Garden City. The jurisdiction identified extreme temperatures, 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 Garden City include: **Extreme Temperatures, Hurricane, Severe Winter Weather, and Wind.**

Table 2: Village of Garden City Hazard Impacts

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

Hazard	Impact Categories
Wind	Community, Economy, Health and Social Services, Housing, Infrastructure, Natural Cultural Resources

Capability Assessment

This section summarizes the capabilities that the Village of Garden City 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 Garden City. The Village of Garden City maintains several key administrative and technical capabilities to support mitigation, including access and functional needs plan, building codes, capital improvement plans, climate action plans, community development plans, comprehensive plans/master plans, economic development plans, emergency response plans, growth management plans, open space plans, post disaster recovery ordinances, post disaster recovery plans, site plan review requirements, special purpose ordinances, 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 Garden City Existing Legal and Regulatory Capabilities

Regulatory Tool	Yes / No	Citation (*if applicable*)
Access and Functional Needs Plan	Yes	
Building Code	Yes	
Capital Improvement Plan	Yes	
Climate Action Plan	Yes	
Community Development Plan	Yes	
Comprehensive Plan / Master Plan	Yes	
Economic Development Plan(s)	Yes	
Emergency Response Plan(s)	Yes	
Floodplain Management Plan(s)	No	
Growth Management Plan(s)	Yes	
NFIP Flood Damage Prevention Ordinance(s)	No	
Open Space Plan(s)	Yes	

Regulatory Tool	Yes / No	Citation (*if applicable*)
Post Disaster Recovery Ordinance(s)	Yes	
Post Disaster Recovery Plan(s)	Yes	
Real Estate Disclosure Requirements	No	
Resilience Plan(s)	No	
Site Plan Review Requirement(s)	Yes	
Small Area Development Plan(s)	No	
Special Purpose Ordinance(s)	Yes	
Stormwater Management Plan(s)	Yes	
Subdivision Ordinance(s)	Yes	
Transportation Plan(s)	No	
Zoning Ordinance(s)	Yes	

Administrative and Technical Capability Assessment

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

Table 4: Village of Garden City Existing Staff / Personnel Resource

Staff / Personnel Resource	Yes / No	Details
Emergency Manager(s)	No	
Engineer(s) trained in construction practices related to buildings/infrastructure	Yes	
Engineer(s) with an understanding of natural and/or human caused hazards	Yes	
Engineer(s) with knowledge of land development and land management practices	No	
Grant Writers	Yes	
Personnel skilled or trained in Geographic Information Systems	No	
Personnel trained in construction practices related to buildings/infrastructure	No	
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	Yes	

Fiscal Capability Assessment

Table 5 lists the assessment of existing fiscal tools for the Village of Garden City. Funding is often the biggest barrier when implementing mitigation programs. The Village identified some fiscal capabilities to support mitigation. Village of Garden City should consider exploring additional fiscal capabilities in order to gain access to additional funding for mitigation.

Table 5: Village of Garden City Existing Fiscal Capabilities

Resources	Yes / No	Additional Details
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through private activity bonds	No	
Ability to incur dept through special tax bonds	No	
Authority to levy taxes for specific purposes	Yes	
Authority to utilize user fees for utility services	Yes	
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	No	
State mitigation grant programs	No	

Community Classification Assessment

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

Table 6: Village of Garden City 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 located 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 Garden City and how the jurisdiction is meeting the requirements of the National Flood Insurance Program (NFIP).

The Village does not currently have a designated floodplain manager. The Village did not note any current barriers to running a successful NFIP program. The flood maps for this jurisdiction do not accurately portray the current flood risk. There are currently no RiskMAP projects ongoing in this jurisdiction.

The Village of Garden City 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.

Despite being in an area of minimal flood hazards, the Village has taken steps to upgrade its storm drain systems with more capacity to mitigate the potential for flooding. The Flood Damage Prevention Ordinance was last amended 06/19/2008 and can be referenced in Chapter 111, Village Code, L.L. No. 1-2008.

Mitigation Strategy

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

Previous Mitigation Actions

Action	George Farber Center Back Up Generator	Rosemary Kennedy Center Back Up Generator	Barry Tech Back Up Generator
Risk Category	Frequent power outages	Frequent power outages	Frequent power outages
Project Status	Not started	Not started	Not started
Project Status Description	The Farber generator was approved by SED on 5/8/19. We are awaiting final pricing utilizing a Suffolk County electrical contract. A project schedule is being developed. We expect this project to be completed in FY 2020/21.	There are no active projects to install a generator at Barry Tech. Currently we do not have the funds to complete the project.	There are no active projects to replace the small generator at RKC. Currently, we do not have the funds to complete the project.
Carried Forward to 2020 Plan	Yes	No	No
Required Changes	N/A	N/A	N/A

Proposed Mitigation Actions

Project Number	VGC_1	VGC_2	VGC_3	VGC_4
Project Name	Catch basin drainage structure design and replacement	George Farber Center Back Up Generator	Underground Power Lines	Tree Maintenance
Goal being met	1	3	3	1
Hazards to be mitigated	Flooding	Frequent power outages	Severe Storm, Wind, Hurricane	Severe Storm, Wind, Hurricane
Priority Ranking	High	High	High	High
Description of the Problem	During heavy rains there is the potential for flooding on our roadway due to capacity issues with our drainage structures on our roads.	There are frequent power outages at the George Farber Center.	Remaining above-ground power line poles and fixtures falling down or ripped out of the ground during windstorms, hurricanes, and snowstorms. This can damage Village and personal properties	Being a Village with the designation of Tree City USA identifies that trees are very important assets of the Village. During a storm the many trees can damage Village and personal properties.
Description of the Solution	Design and install drainages structures to prevent or reduce future damage to roadways resulting from inadequate drainage structures.	Install a permanent backup generator.	Replace remaining above-ground power lines with below-ground (wind-resistant) lines.	Evaluate and properly maintain trees within the Village to prevent damage resulting from hazardous events.
Critical Facility	No	No	No	No
EHP Issues	N/A	N/A	N/A	N/A
Estimated Timeline	Within 6 Months	2020-2021	1 Year	On-going
Lead Agency	Engineering Department	Nassau BOCES Facilities Services Department	Engineering Department	Recreation and Parks
Estimated Costs	$500,000 - $650,000	$1,421,156	$20-$40 per linear foot, total of $175,000 - $250,000	$75,000 - $100,000
Estimated Benefits	Transportation routes / public thoroughfare protected, roads are protected, access to natural and cultural resources, maintaining functionality/access to Department of Public Works.	Fewer power outages	Reduces power outages and direct damages to property	Reduction of property damage and power outages due to storms. Trees also provide health, energy and atheistic value to the Village. Preserving the Village's distinction of Tree City USA is important to the Village and communicates a message of commitment to the environment and the residents.
Potential Funding Sources	Village Annual Budgets	FEMA HMGP and Nassau BOCES	FEMA HMA Programs	Village Annual Budgets and FEMA HMGP

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: Inc. Village of Garden City

NYS DHSES Action Worksheet			
Project Name:	Catch basin drainage structure design and replacement.		
Project Number:	VGC_1		
Risk / Vulnerability			
Hazard of Concern:	Flooding		
Description of the Problem:	During heavy rains there is the potential for flooding on our roadway due to capacity issues with our drainage structures on our roads.		
Action or Project Intended for Implementation			
Description of the Solution:	Design and install drainages structures to prevent or reduce future damage to roadways resulting from inadequate drainage structures.		
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:	100-year	Estimated Benefits (losses avoided):	Transportation routes / public thoroughfare protected, roads are protected, access to natural and cultural resources, maintaining functionality/access to Department of Public Works.
Useful Life:	50-75 years		
Estimated Cost:	$500,000-$650,000		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within six months
Estimated Time Required for Project Implementation:	Six months	Potential Funding Sources:	Village Annual Budgets
Responsible Organization:	Department of Public Works	Local Planning Mechanisms to be Used in Implementation, if any:	
Three Alternatives Considered (including No Action)			
Alternatives:	*Action*	*Estimated Cost*	*Evaluation*
	No Action	$0	Roads continue to deteriorate, and access is obstructed a couple times per year.
	Development alternative transportation routes	Multi-million-dollar project	This is cost prohibitive.
	Conduct piecemeal upgrades of drainage infrastructure	Less than $250,000 annually	This leaves us exposed to continued flooding issues in the meantime.
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 ☐	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:	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:	High	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:	*Action*	*Estimated Cost*	*Evaluation*
	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: Inc. Village of Garden City

NYS DHSES Action Worksheet			
Project Name:	Underground Power Lines		
Project Number:	VGC_3		
Risk / Vulnerability			
Hazard of Concern:	High Winds causing light poles falling over, exposing live wires, and knocking out power.		
Description of the Problem:	Remaining above-ground power line poles and fixtures falling or being ripped out of the ground during windstorms, hurricanes, and snowstorms. This can damage Village and personal properties.		
Action or Project Intended for Implementation			
Description of the Solution:	Replace remaining above-ground power lines with below-ground (wind-resistant) lines.		
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:	Multi-hazard protection	Estimated Benefits (losses avoided):	Reduces power outages and direct damages to property
Useful Life:	100-years		
Estimated Cost:	$20-40 per linear foot, total of $175,000-$250,000		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Zero to three years
Estimated Time Required for Project Implementation:	One year	Potential Funding Sources:	FEMA HMA Programs
Responsible Organization:	Engineering Department	Local Planning Mechanisms to be Used in Implementation, if any:	
Three Alternatives Considered (including No Action)			
Alternatives:	*Action*	*Estimated Cost*	*Evaluation*
	No Action	$0	
	Maintain with more durable light bases and poles and check on and secure the LED fixtures	<$50,000	This is more of a temporary and incomplete solution that the preferred solution.
	Purchase portable generators to deploy to areas with power outages	$50,000-$100,000 per generator	This alternative wouldn't prevent direct damages from downed poles or lines
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 ☐	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:	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:	*Action*	*Estimated Cost*	*Evaluation*
	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.		