



9.9 Village of Bergen

This section presents the jurisdictional annex for the Village of Bergen. 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 in order to reduce or eliminate damage to property and people. This annex includes a general overview of the municipality and who in the village participated in the planning process, an assessment of the Village of Bergen’s risk and vulnerability, the different capabilities used in the town, and an action plan that will be implemented to achieve a more resilient community.

9.9.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan’s primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Name: Cortney Gale Title: Administrator Address: 11 N Lake Ave., Bergen, NY 14416 Phone Number: 585-494-1513 Email: cgale@villageofbergen.com Floodplain Administrator	Name: Christopher Fay Title: Department of Public Works Address: 11 N Lake Ave., Bergen, NY 14416 Phone Number: office: 585-494-1513, cell: 585-353-3659 Email: cfay@villageofbergen.com
Name: Cortney Gale Title: Administrator Address: 11 N Lake Ave., Bergen, NY 14416 Phone Number: 585-494-1513 Email: cgale@villageofbergen.com	

9.9.2 Municipal Profile

The Village of Bergen is in the east-central section of the Town of Bergen, which is in the northeast corner of the County of Genesee, State of New York. The Town of Bergen was part of the Triangle Tract and the 100,000 Acre Tract or the Connecticut Tract in the Morris Reserve. It was also part of the towns of Northampton and Murray. In 1813 Bergen was erected from the town of Murray. Byron was part of Bergen until 1820.

The village is surrounded by the Town of Bergen. Section 9.8 (Town of Bergen) provides the town’s annex. The Town of Bergen is in the northeast corner of Genesee County. The Town is bordered by Byron to the west, Le Roy to the south, Orleans County to the north, and Monroe County to the northeast. The village has a total area of 0.74 square miles of which almost all is land. The village is drained by Black Creek, which flows east into the Genesee River.

The 2016 estimated population was 1,150, a 2.2 percent decrease from the 2010 Census (1,176). Data from the 2017 U.S. Census American Community Survey estimates that 6.9 percent of the town population is five years of age or younger, and 12.5 percent is 65 years of age or older.

Growth/Development Trends

The Village of Bergen did not note any residential/commercial development that has occurred since 2008 or any planned major residential or commercial development, or major infrastructure development anticipated in the next five years.





9.9.3 Hazard Event History Specific to the Village of Bergen

Genesee County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 (Risk Assessment). 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 Village of Bergen’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Genesee County. Table 9.9-1 provides details regarding municipal-specific loss and damages the town experienced during hazard events. Information provided in the table below is based on reference material or local sources.

Table 9.9-1. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	Genesee County Designated?	Summary of Damages/Losses	Municipal Summary of Damages and Losses
April 26- May 8, 2011	Severe Storms, Flooding, Tornadoes, High Wind (DR-1993)	No	Strong winds, with gusts of up to 83 mph, developed across western New York State, downing trees and power lines. In Genesee County, a tractor trailer was overturned in the Town of Alabama. Overall, the county had approximately \$30,000 in property damage from this event.	Though the county was impacted, no damages were reported in the village.
October 29, 2012	Remnants of Hurricane Sandy (DR-4085)	Yes	Remnants of Hurricane Sandy brought strong winds and heavy rains to western and north central New York State. Rainfall amounts of 2 to 5 inches were measured across the area with some area creeks reaching or overflowing their banks. The high winds downed trees and power lines throughout the region. Wind gusts were measured up to 60 mph. Tree damage was greater than usual with such wind speeds because of saturated ground and northeast winds. In Genesee County, there were reports of downed trees and power lines throughout. Overall, the county had approximately \$150,000 in property damage from this event.	Though the county was impacted, no damages were reported in the village.
November 17-19, 2014	Lake Effect Snow (DR-4204)	Yes	This event was one of the most significant winter events in Buffalo history. Over 5 feet of snow fell in areas just east of Buffalo. There were 13 fatalities, hundreds of major roof collapses and structural failures, thousands of stranded motorists, and scattered food and gas shortages. The weight of the snow downed trees, causing isolated power outages. The event resulted in a FEMA major disaster declaration in New York State for nine counties, including Genesee County.	Though the county was impacted, no damages were reported in the village.
November 24-25, 2014	Severe Winter Storm, Snowstorm, and Flooding (DR-4204)	Yes	One of the most significant winter events in the City of Buffalo’s history occurred November 17 – 19 (lake effect event). Over 5 feet of snow fell over areas just east of Buffalo, with just a few inches falling a few miles to the north. There were 13 fatalities, hundreds of roof collapses and structural failures, thousands of stranded motorists, and scattered gas shortages due to impassable roads. Many trees fell due to the weight of snow, which led to isolated power outages. A second lake effect snow event occurred on November 19 –20, bringing another 1 to 4 feet of snow over the same area. Snowfall totals in Genesee County ranged from 28 inches in Attica to 51 inches in Elma. The County had approximately \$385,000 in property damage from this event.	Though the county was impacted, no damages were reported in the village.



Dates of Event	Event Type (Disaster Declaration if applicable)	Genesee County Designated?	Summary of Damages/Losses	Municipal Summary of Damages and Losses
March 8, 2017	High Wind	N/A	Strong winds impacted the entire region, with sustained winds of up to 49 mph and wind gusts as high as 81 mph. Areas that were hit hard included parts of Orleans, Monroe, and Genesee Counties. In Genesee County, the strong winds derailed a train in the City of Batavia. Twelve out of 31 freight cars were blown off the tracks. Wind gusts of 76 mph were reported in Batavia. Several buildings were damaged due to wind in the City as well. A driver was injured when a tractor trailer overturned due to the wind in the Town of Alexander. Overall, Genesee County had approximately \$500,000 in property damage from this event.	High winds resulted in roof damage and property damages from fallen trees. The roof at the Waste Water Treatment Plant was damaged.

Notes:

DR Major Disaster Declaration (FEMA)
 N/A Not applicable

9.9.4 Hazard Ranking and Jurisdiction-Specific Vulnerabilities

The hazard profiles in Section 5.0 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Village of Bergen.

Hazard Risk Ranking

This section 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). 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 town or village may have differing degrees of risk exposure and vulnerability compared to Genesee 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 Village of Bergen. The Village of Bergen 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.

Table 9.9-2. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Civil Unrest	Damage estimate not available	Occasional	24	Medium
Drought	Damage estimate not available	Frequent	21	Medium
Earthquake	RCV Exposed to D and E Soils: \$0	Occasional	16	Medium
Epidemic	Damage estimate not available	Frequent	39	High
Extreme Temperature	Damage estimate not available	Frequent	39	High
Flood	RCV Exposed to 1% Annual Chance Flood Event \$22,759,000	Frequent	21	Medium





Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Hazardous Materials	Damage estimate not available	Frequent	42	High
Severe Storm	100-year MRP: \$0 500-year MRP: \$0	Frequent	48	High
Severe Winter Weather	100-year MRP: \$1,363,500 500-year MRP: \$6,817,500	Frequent	51	High
Terrorism	Damage estimate not available	Rare	14	Medium
Transportation Accident	Damage estimate not available	Frequent	42	High
Utility Failure	Damage estimate not available	Frequent	45	High
Wildfire	Estimated RCV in WUI Hazard Area \$0	Occasional	20	Medium

Notes:

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
- b. The valuation of general building stock and loss estimates was based on custom inventory for the municipality.
High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 20-30+
Low = Total hazard risk ranking below 20
- c. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.

Critical Facilities at Risk

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 SFHA unless constructed according to specific mitigation specifications, including being raised 2 feet above the 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 500-year flood even, 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 HAZUS–MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

Table 9.9-3. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Addressed by Proposed Action
		1% Event	0.2% Event	
18	Electrical Facility	X	X	V. Bergen-3

Source: Genesee County; FEMA 1979,1981,1982,1983,1984,1985,1986,1987,1988

Identified Issues

The municipality has not identified any particular vulnerabilities within their community.





9.9.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of mitigation planning into existing and future planning mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Village of Bergen.

Table 9.9-4. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Comprehensive Plan	Yes	Local	Village Board	Developed with Town of Bergen in 2016
Capital Improvements Plan	No	-	-	-
Floodplain Management / Basin Plan	No	-	-	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Stream Corridor Management Plan	No	-	-	-
Watershed Management or Protection Plan	No	-	-	Black Creek Watershed Coalition
Economic Development Plan	No	-	-	-
Comprehensive Emergency Management Plan	Yes	Local	Village Board	Comprehensive Emergency Management Plan
Emergency Operation Plan	Yes	Local	Village Board	Bergen Emergency Plan
Post-Disaster Recovery Plan	No	-	-	-
Transportation Plan	No	-	-	-
Strategic Recovery Planning Report	No	-	-	-
Other Plans:	Yes	Local	Park Committee	Parks Master Plan
Regulatory Capability				
Building Code	Yes	State & Local	Zoning Officer	Section 106 of the Village Zoning Law New York State Building Code
Zoning Ordinance	Yes, 1990, 2000	Local	Zoning Officer	Includes a floodplain overlay zone
Subdivision Ordinance	No	-	-	-



Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
NFIP Flood Damage Prevention Ordinance	Yes	Local	Zoning Officer	Local Law #1 of 1987, Amended by Local Law #1 of 1989 (5/24/89)
NFIP: Cumulative Substantial Damages	No	-	-	-
NFIP: Freeboard	No	State, Local	Zoning Officer	State mandated BFE+2 for all construction, both residential and non-residential
Growth Management Ordinances	No	-	-	-
Site Plan Review Requirements	Yes	Local	Planning Board	Part of the Zoning Law
Stormwater Management Ordinance	Yes	Local	Planning Board	Sewer Law
Municipal Separate Storm Sewer System (MS4)	No	Local	Sewer Department	While the village does not have a MS4 system, the village maintains a sanitary and storm sewer system throughout the village
Natural Hazard Ordinance	No	-	-	-
Post-Disaster Recovery Ordinance	No	-	-	-
Real Estate Disclosure Requirement	Yes	State	NYS, Real Estate Agents	NYS mandate, Property Condition Disclosure Act, NY Code - Article 14 §460-467
Other (Special Purpose Ordinances [i.e., sensitive areas, steep slope])	No	-	-	-

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Bergen.

Table 9.9-5. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	Yes	Park Committee
Economic Development Commission/Committee	No	-
Maintenance programs to reduce risk	No	-
Mutual aid agreements	Yes	State and local
Technical/Staffing Capability		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Clark Patterson Lee, Village Engineer
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Clark Patterson Lee, Village Engineer



Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Planners or engineers with an understanding of natural hazards	Yes	Clark Patterson Lee, Village Engineer
NFIP Floodplain Administrator (FPA)	Yes	DPW Supervisor
Surveyor(s)	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Scientist familiar with natural hazards	No	-
Emergency Manager	Yes	DPW Supervisor
Grant writer(s)	Yes	Mayor
Staff with expertise or training in benefit/cost analysis	Yes	Village Administrator
Professionals trained in conducting damage assessments	No	-

Fiscal Capability

The table below summarizes financial resources available to the Village of Bergen.

Table 9.9-6. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
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
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	Yes
Other	No

Community Classifications

The table below summarizes classifications for community program available to the Village of Bergen.

Table 9.9-7. Community Classifications

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	-	-



Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	-	-
NYSDEC Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Natural disaster/safety programs in/for schools	No	-	-
Organizations with mitigation focus (advocacy group, non-government)	No	-	-
Public education program/outreach (through website, social media)	No	-	-
Public-private partnership initiatives addressing disaster-related issues	No	-	-

Note:

N/A Not applicable

- Unavailable

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized fire station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual.
- The Building Code Effectiveness Grading Schedule website at <https://www.isomitigation.com/bcegs/>.
- The ISO Mitigation online ISO’s Public Protection website at <https://www.isomitigation.com/ppc/>.
- The National Weather Service Storm Ready website at <https://www.weather.gov/stormready/>.
- The National Firewise Communities website at <https://www.nfpa.org/Public-Education/By-topic/Wildfire/Firewise-USA>.

Self-Assessment of Capability

The table below provides an approximate measure of the Village of Bergen’s capability to work in a hazard-mitigation capacity and effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.9-8. Self-Assessment Capability for the Municipality

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)	Moderate	High
Planning and regulatory capability	-	-	X
Administrative and technical capability	-	-	X





Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)	Moderate	High
Fiscal capability	X – limited funding and staff	-	-
Community political capability	X – limited funding and staff	-	-
Community resiliency capability	X – limited funding and staff	-	-
Capability to integrate mitigation into municipal processes and activities	-	X	-

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Cortney Gale, Supervisor

Flood Vulnerability Summary

The Village of Bergen does not maintain lists/inventories of properties that have been flood damaged or identify property owners who are interested in mitigation. No structures have been damaged by flooding events. The village does not make substantial damage estimates. No property owners are currently interested in mitigation.

The following table summarizes the NFIP statistics for the Village of Bergen.

Table 9.9-9. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100- year Boundary (3)
Village of Bergen	0	0	\$0	0	0	0

Source: FEMA 2018

Notes: Policies, claims, repetitive loss, and severe repetitive loss statistics provided by FEMA Region 2, and current as of February 28, 2018. The total number of repetitive loss properties does not include severe repetitive loss properties

Resources

The FPA is responsible for floodplain administration in the village with the assistance of the village engineer. The FPA does not feel there are any barriers to running an effective floodplain management program in the village but noted that they do not feel adequately supported and trained to fulfill their responsibilities as the municipal floodplain administrator. As such, the FPA would consider attending continuing education and/or certification training on floodplain management if it were offered in the county for all local floodplain administrators.

At the time of this plan update, the village currently does not provide education or outreach programs regarding flood hazards/risk or flood risk reduction.

Compliance History

The Village of Bergen is currently in good-standing with the NFIP. According to NYS DEC, the village has not had a compliance audit conducted recently.



Regulatory

The village's flood damage prevention ordinance meets the minimum set by FEMA and does not have other local ordinances, plans, or programs that support floodplain management. The village currently is not a CRS community, and they have not considered joining CRS.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

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, each community was surveyed to obtain a better understanding of their community's progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

Planning

Existing Integration

Planning Board and Zoning Board of Adjustments: The Village of Bergen has a Planning Board and Zoning Board of Adjustments that performs site plan review for managing natural hazard risk and compliance with related natural regulations and plans.

As part of the NYS State Environmental Quality Review Act (SEQR) process, the village's zoning and subdivision regulations and site plan review process consider natural hazard risk. The Planning Board also utilizes the Genesee County Planning Department to guide the Village Planning Board's decisions with respect to natural hazard risk management.

National Flood Insurance Program: The village currently participates in the NFIP and is in good-standing with the program. The village will continue to participate in the NFIP.

Comprehensive Plan: Together with the Town of Bergen, the comprehensive plan was updated in July 2016. The purpose of the plan is to guide municipal officials in making decisions that will affect the future of the town and village. Future municipal actions to implement the policies and recommendations in the plan may include land use local laws and regulations, capital budgeting, and providing services to the community. The Comprehensive Plan Update addresses a range of issues facing the Village and Town of Bergen and balances competing needs and interests in the community. The plan includes chapters on: land use, natural resources, farmland and agriculture, housing and residential neighborhoods, downtown and economic development, transportation and utilities, parks and recreation, government and community services, and historic resources. The plan also contains an implementation strategy that summarizes the recommended actions with a proposed time frame, responsible agency, cost estimate, and potential funding sources. The plan includes natural resources found in the village including topography, woodlands, watercourses and drainage basins, wetlands, swamps, mineral resources, and aquifers. In addition, the plan includes information regarding the floodplain overlay district in the village (described below).

Opportunities for Future Integration

Comprehensive Plan: The Village of Bergen maintains a comprehensive plan; however, it does not refer to the Genesee County HMP. During the next update of the Comprehensive Plan, the village will refer to the Genesee County HMP.

Comprehensive Emergency Management Plan: The Village of Bergen maintains a CEMP; however, it does not refer to the Genesee County HMP. During the next update of the CEMP, the village will incorporate information from the HMP into the CEMP, where appropriate.



Regulatory and Enforcement (Ordinances)

Existing Integration

Municipal Ordinances: The village’s zoning, subdivision regulations, and site plan review process require developers to take additional actions to mitigate hazard risk.

Zoning Law: The Village of Bergen has six conventional zoning districts, one floating zone, and one overlay district identified within its zoning law. Most of the village (79%) is zoned as one of three residential districts. The Neighborhood Commercial (C-1) zoning district is located at the intersections of State Route 19 (Lake Avenue) and Appletree Road, State Route 19 and Townline Road / Parkview Drive, and State Route 33 (Buffalo Road) and Rochester Street. The Central Commercial (C-2) zoning district is located in the traditional downtown and northwest of the State Routes 19 / 33 interchange. Lastly, the Industrial (I) zoning district can be found in various locations both north and south of the railroad. The three business/ industrial zoning districts comprise 21% of the village’s land area.

The Planned Unit Development (PUD) district is a “floating zone.” If a development proposal for a particular area meets the intent of the regulations, the Village Board may rezone the site to a PUD zone. The one PUD in the village is located on the south side of Rochester Street to accommodate the Arlington Manor Apartments.

Within the Floodplain Overlay (FPO) district, properties must follow the rules and regulations for both the underlying zoning district and for the overlay district. The FPO zone identifies potential areas of special flood hazard and coordinates review of zoning and flood damage prevention regulations to minimize the threat of flood damages. This zone is generally found along a tributary to Black Creek (Minnie Creek).

Site Plan Review: During site plan review processes, consider natural hazard risk areas in the village. This is part of the SEQR process. The village also requires developers to take additional actions to mitigate natural hazard risk in the community, encouraging developers to use underground utilities, and installing stormwater detention basins.

Opportunities for Future Integration

When updating ordinances or developing new ordinances, the Village of Bergen will consider hazards and resilience themes.

Operational and Administration

Existing Integration

Village Electric Department: The Village Electric Department has a tree trimming program that is done throughout the year. The department trims trees near power lines to reduce or prevent downed wires during severe weather events and reduces the probability of power outages in the village.

Village Department of Public Works (DPW): As part of their day-to-day operations, the DPW clears debris in and around Minnie Creek to reduce flooding in this area of the village. The DPW also cleans culverts and removes debris from under bridges. This reduces the risk of flooding and damages after a heavy rain or flooding event. Lastly, the village conducts tree trimming throughout the village near power lines to reduce the risk of limbs on power lines during strong winds and heavy snow events.

Stormwater Management: The DPW Supervisor performs the Stormwater Management functions for the community. The village is not an MS4 regulated community and does not have a formal Stormwater



Management Plan but manages natural hazard risk through the Parks Master Plan and the Black Creek Watershed Coalition.

Village Engineer: The Village Engineer, Clark Patterson Lee, is used as needed with respect to natural hazard risk reduction. Clark Patterson Lee also has experience in performing Substantial Damage Estimates and preparing grant applications for mitigation projects.

The Village of Bergen has a Planning Board and Zoning Board of Adjustments that perform site plan review for managing natural hazard risk and compliance with related natural regulations and plans. No other committees include functions with respect to managing natural hazard risk. Gary Zawodzinski, the DPW Supervisor performs the Stormwater Management functions for the community but the village does not have staff that has experience with Benefit-Cost Analysis.

Opportunities for Future Integration

The staff does not get training or continuing professional education to support natural hazard mitigation risk reduction. The staff did not identify training and education that would be beneficial to risk reduction. The village will look into various trainings and educational courses that municipal staff would benefit from and send staff to these trainings.

The Village of Bergen does not have any other hazard management programs in place. No village staff have job descriptions that specifically include identifying or implementing mitigation projects/actions or other efforts to reduce natural hazard risk, and no staff or departments participate in associations, organizations, groups, or other committees that support natural hazard risk reduction and build hazard management capabilities. The village will consider adding hazard mitigation efforts to staff job descriptions.

Funding

Existing Integration

The Village of Bergen's municipal/operating budget and Capital Improvements Budget does not include line items for mitigation projects/activities. The village has not applied for grant funding for mitigation projects in the past.

Opportunities for Future Integration

During the preparation for the next fiscal year budget, the village will consider adding line items for mitigation-related projects and activities. The village will consider applying for grant funding to support mitigation projects.

Education and Outreach

Existing Integration

The Village of Bergen currently does not have any established public education or outreach programs.

Opportunities for Future Integration

Public Education and Outreach: The village will develop a public education and outreach program to inform residents on natural hazards and hazard risk reduction. This will include safe use of generators, emergency preparedness, and flood hazard information.

Grant Funding: The village has not pursued or been awarded grant funds for mitigation-related projects. As a participant in the Genesee County HMP update, the village is eligible to apply for FEMA grants and will consider submitting applications for projects identified in this plan update.



Sheltering, Evacuation, and Temporary and Permanent Housing

Temporary housing, evacuation routes, and sheltering measures must 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.

Temporary and Permanent Housing

The Village of Bergen identified the following locations for the placement of temporary housing for residents displaced by a disaster.

- Hickory Park – 62 S Lake Ave., Bergen, NY – property contains 6 acres of open land that could be used to place temporary housing units for residents.

The village did not identify any potential sites within the municipality suitable for relocating homes out of the floodplain or build new homes once floodprone properties are acquired.

Evacuation and Sheltering Needs

The Village of Bergen identified the following location as potential sheltering sites for the community. However, the village did not identify any specific routes or procedures to evacuate residents before and during an event. The village follows evacuation directions issued by Genesee County, in accordance with the Genesee County CEMP.

Table 9.9-10. Potential Shelter Locations in the Municipality

Shelter Name	Address	Capacity	Accommodates Pets?	ADA Compliant?	Backup Power?	Types of Medical Services Provided	Other Services Provided
Bergen Fire Department	10 Hunter St., Bergen	100	No	Yes	Yes	EMTs	None

9.9.6 Mitigation Strategy and Prioritization

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

Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2008 Plan. It should be noted that during the 2008 planning process, only general, countywide actions were identified for each municipality. The Village of Bergen reviewed the previous actions and selected actions they chose to carry forward as part of this plan update. 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 9.9-11. Status of Previous Mitigation Actions

Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
37	Encourage the construction of underground utilities and the retrofiting of above ground utilities to underground. Develop a strategy to incrementally bury utilities in existing development on a schedule. Legislate that utilities be buried in new development and develop model ordinances and policies to be used in achieving this goal. Develop creative financing strategies or income-eligible programs to assist with the implementation of this concept.	Ice Storm, Winter Storm, Severe Storm, Tornado, Utility Failure	Not applicable – there is no original problem. This is part of the town’s day-to-day operations.	Municipality	Ongoing Capability	Cost	-	1. Discontinue 2. - 3. This is an ongoing capability for the Village of Bergen. Refer to ‘Integration of Hazard Mitigation into Existing and Future Planning Mechanisms’ for details on this action.
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	
42	Require the use of hazard resistant construction. For wind storms, minimize the creation of windborne debris by appropriately designing, manufacturing and installing architectural features using wind resistant design and construction. For winter storms, utilize construction practices that can handle heavy snow loads.	Ice Storm, Winter Storm, Severe Storm, Tornado, Utility Failure	The village currently does not require new development to include hazard-resistant construction design or materials. This can prohibit a structure’s ability to withstand extreme wind and snow events.	Municipality	In Progress	Cost	-	1. Include in the 2019 HMP 2. Establish a requirement to incorporate hazard-resistant construction for new development in the village. For wind storms, minimize the creation of windborne debris by appropriately designing, manufacturing and installing architectural features using wind resistant design and construction. For winter storms, utilize construction practices that can handle heavy snow loads. 3. -
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	
43	Establish a strategy to encourage structural retrofits to assure roofs, walls and windows meet minimum wind-load and snow-load design factors. This has	Ice Storm, Winter Storm, Severe Storm, Tornado, Utility Failure	Not applicable – there is no original problem. This is part of the town’s day-to-day operations.	Municipality	Ongoing Capability	Cost	-	1. Discontinue 2. - 3. This is an ongoing capability for the Village of Bergen. Refer to ‘Integration
						Level of Protection	-	
						Damages Avoided;	-	





Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	proven to greatly reduce damage even with a total lack of code enforcement.					Evidence of Success		of Hazard Mitigation into Existing and Future Planning Mechanisms' for details on this action.



Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Village of Bergen has performed ongoing maintenance projects to reduce the impact of flooding but has not identified specific mitigation projects/activities that have been completed but were not identified in the previous mitigation strategy in the 2008 Plan.

Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Bergen did not participate in a mitigation action workshop but 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).

Table 9.9-12 summarizes the comprehensive-range of specific mitigation initiatives the Village of Bergen 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 (Mitigation Strategy), 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 9.9-13 provides a summary of the prioritization of all proposed mitigation initiatives for the plan update.



Table 9.9-12. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Floodplain Administrator Training			Priority	High
V. Bergen-1	Description of Problem	The floodplain administrator for the town is currently not a certified floodplain manager and lacks training to be able to fully provide floodplain administration for the town.			Lead & Support Agencies	Code Enforcement, Flood Damage Prevention Officer
	Description of Solution	The appointed floodplain administrator will attend floodplain management training, online and in-person, to further their education and knowledge on floodplain administration. This will support the local government and residents and provide flood-related support to the community.			Estimated Benefits	Increase education and knowledge of floodplain management
	Hazard(s) Mitigated	Flood	Estimated Timeline	Within 1 year	Estimated Cost	Less than \$10,000
	Mitigation Category	LPR	Critical Facility	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Potential Funding Sources	Municipal Budget
	CRS Category	PR	EHP Issues	None	Goals Met	All
Project Number	Project Name	Update the Flood Damage Prevention Ordinance			Priority	High
V. Bergen-2	Description of Problem	The current flood damage prevention ordinance for the Village of Bergen is out-of-date and have not been updated since the FIRM was issued in 1987. The ordinance does not include the state minimum for freeboard.			Lead & Support Agencies	Code Enforcement, Flood Damage Prevention Officer
	Description of Solution	Revise the current flood damage prevention ordinance to include the state minimum requirement for freeboard, which is two feet above the base flood elevation. This will ensure structures are protected to the 100-year flood event.			Estimated Benefits	Provides increase of protection for buildings located in the floodplain
	Hazard(s) Mitigated	Flood	Estimated Timeline	Within 1 year	Estimated Cost	Less than \$10,000
	Mitigation Category	LPR	Critical Facility	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Potential Funding Sources	Municipal Budget
	CRS Category	PR	EHP Issues	None	Goals Met	All
Project Number	Project Name	Work with owner of the 18 Electrical Facility to protect to the 500-year flood level.			Priority	High
V. Bergen-3	Description of Problem	The facility is in the 100-year floodplain. The village does not have jurisdiction over the facility and cannot mitigate themselves.			Lead & Support Agencies	Village floodplain administrator, facilities manager, Village Board
	Description of Solution	The village will contact the facilities manager and discuss options for protecting the facility to the 500-year level.			Estimated Benefits	Provide outreach to the property owner and informing them of potential flood damage and possible solutions.
	Hazard(s) Mitigated	Flood	Estimated Timeline	Within 6 months	Estimated Cost	<\$100
	Mitigation Category	EAP	Critical Facility	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potential Funding Sources	Municipal Budget
	CRS Category	PI	EHP Issues	None	Goals Met	1, 2, 3



Project Number	Project Name	Protect Gate Street from erosion from parallel creek and replace culvert			Priority	High
V. Bergen-4	Description of Problem	A small creek runs parallel to Gate Street for 200 yards. A stretch of the creek bank along the road (roughly 30 feet) has become eroded. The creek turns and runs under Gate Street. The culvert under the street has also become degraded and needs to be replaced.			Lead & Support Agencies	Department of Public Works
	Description of Solution	The village will replace the aged culvert under Gate Street. The village will repair the degraded streambank and reinforce the streambank with gravel/cobble.			Estimated Benefits	Gate Street protected from erosive damages
	Hazard(s) Mitigated	Flood, Severe Storm	Estimated Timeline	Within 1 year	Estimated Cost	\$70,000
	Mitigation Category	SIP, NSR	Critical Facility	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Potential Funding Sources	HMGP, PDM, CHIPS, village budget
	CRS Category	SP, NR	EHP Issues	None	Goals Met	1, 2
Project Number	Project Name	Purchase portable generator for sewer lift stations and install electrical components.			Priority	High
V. Bergen-5	Description of Problem	The village has four sewer lift stations that lack backup power. The lift stations need to be protected from power loss to ensure continuity of operations. The Gibson Place sewer lift station is the main lift station.			Lead & Support Agencies	Department of Public Works
	Description of Solution	The village will purchase an MQ Power WhisperWatt 35kVA generator. The village will also install electrical components to allow for hookup of the backup generator.			Estimated Benefits	Sewer Lift Stations protected from power loss.
	Hazard(s) Mitigated	All Hazards	Estimated Timeline	Within 6 months	Estimated Cost	\$40,000
	Mitigation Category	SIP	Critical Facility	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potential Funding Sources	HMGP, PDM, village budget
	CRS Category	ES	EHP Issues	None	Goals Met	2, 3

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
 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
 PDM Pre-Disaster Mitigation Grant 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.

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

Critical Facility:


- Yes  - Critical Facility located in 1% floodplain



Table 9.9-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	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
V. Bergen-1	Floodplain Administrator Training	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
V. Bergen-2	Update the Flood Damage Prevention Ordinance	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
V. Bergen-3	Work with owner of the 18 Electrical Facility to protect to the 500 year flood level.	0	1	1	0	1	0	1	1	1	0	0	1	1	0	8	Medium
V. Bergen-4	Protect Gate Street from erosion from parallel creek and replace culvert	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
V. Bergen-5	Purchase portable generator for sewer lift stations and install electrical components.	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High

Note: Refer to Section 6 (Mitigation Strategy), which conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-9), High (10-14).



9.9.7 Future Needs to Better Understand Risk/Vulnerability

None at this time.

9.9.8 Staff and Local Stakeholder Involvement in Annex Development

The Village of Bergen followed the planning process described in Section 3 (Planning Process). This annex was developed over the course of several months with input from many village departments, including: the DPW Supervisor and Village Administrator. The DPW Supervisor represented the community on the Genesee 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.

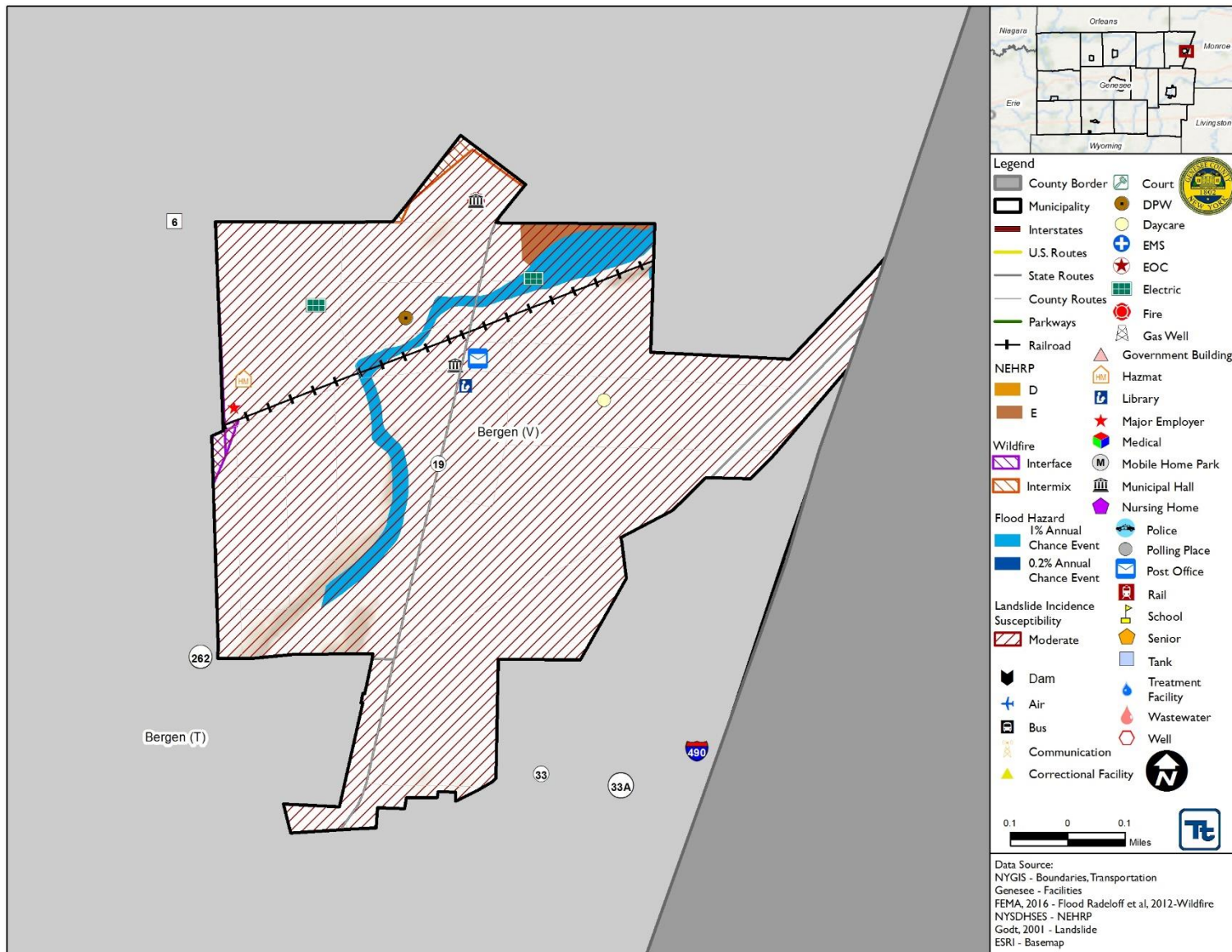
Additional documentation on the municipality's planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix B (Meeting Documentation).

9.9.9 Hazard Area Extent and Location

Hazard area extent and location maps were generated for the Village of Bergen that illustrate the probable areas impacted within the municipality. 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 only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Village of Bergen has significant exposure. These maps are illustrated below.



Figure 9.9-1. Village of Bergen Hazard Area Extent and Location Map





Village of Bergen Action Worksheet			
Project Name:	Floodplain Administrator Training		
Project Number:	V. Bergen-1		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	The floodplain administrator for the town is currently not a certified floodplain manager and lacks training to be able to fully provide floodplain administration for the town.		
Action or Project Intended for Implementation			
Description of the Solution:	The appointed floodplain administrator will attend floodplain management training, online and in-person, to further their education and knowledge on floodplain administration. This will support the local government and residents and provide flood-related support to the community.		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input checked="" 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:	N/A	Estimated Benefits (losses avoided):	Increase education and knowledge of floodplain management
Useful Life:	10 years	Goals Met:	All
Estimated Cost:	Less than \$10,000	Mitigation Action Type:	LPR
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	1 year
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	Municipal Budget
Responsible Organization:	Code Enforcement, Flood Damage Prevention Officer	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	Problem continues.
	Hire an outside contractor to perform NFIP duties for the village	\$50,000	Costly; not available at all times; there is staff in the village capable of performing these duties
	Require all municipal staff to obtain training	\$20,000	Costly; not feasible for all staff to get training
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Floodplain Administrator Training	
Project Number:	V. Bergen-1	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Provide support to residents and business owners when they have questions or concerns regarding floodplains and flooding problems in the village
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	Village has the technical capabilities to complete this action
Political	1	Village has the political power to complete this action
Legal	1	
Fiscal	1	Municipal budget
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Flood
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
Total	13	
Priority (High/Med/Low)	High	



Village of Bergen Action Worksheet			
Project Name:	Work with owner of the 18 Electrical Facility to protect to the 500 year flood level.		
Project Number:	V. Bergen-3		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	The facility is in the 100-year floodplain. The village does not have jurisdiction over the facility and cannot mitigate themselves.		
Action or Project Intended for Implementation			
Description of the Solution:	The village will contact the facilities manager and discuss options for protecting the facility to the 500-year level.		
Is this project related to a Critical Facility?	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 checked="" type="checkbox"/>	No <input 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:	500-year	Estimated Benefits (losses avoided):	Provide outreach to the property owner and informing them of potential flood damage and possible solutions.
Useful Life:	25 years	Goals Met:	1, 2, 3
Estimated Cost:	Less than \$100	Mitigation Action Type:	EAP
Plan for Implementation			
Prioritization:	Medium	Desired Timeframe for Implementation:	6 months
Estimated Time Required for Project Implementation:	2 months	Potential Funding Sources:	Municipal Budget
Responsible Organization:	Floodplain administrator, Village Board, facilities manager	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	Problem continues.
	Require building owner to elevate the structure to protect it from 500-year flood.	No cost to village	Not all structures can be elevated.
	Require building to floodproof the structure to protect it from the 500-year flood.	No cost to village	Floodproofing the entire structure might not be feasible; facility owner might be able to floodproof equipment.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Work with owner of the 18 Electrical Facility to protect to the 500 year flood level.	
Project Number:	V. Bergen-3	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Inform owner ways to protect the structure from flooding.
Cost-Effectiveness	1	
Technical	0	
Political	1	
Legal	0	The village does not have legal authority to protect the structure; they can only inform ways to do so.
Fiscal	1	Municipal budget.
Environmental	1	
Social	1	
Administrative	0	
Multi-Hazard	0	Flood.
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (High/Med/Low)	Medium	



Village of Bergen Action Worksheet			
Project Name:	Protect Gate Street from erosion from parallel creek and replace culvert.		
Project Number:	V. Bergen-4		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	A small creek runs parallel to Gate Street for 200 yards. A stretch of the creek bank along the road (roughly 30 feet) has become eroded. The creek turns and runs under Gate Street. The culvert under the street has also become degraded and needs to be replaced.		
Action or Project Intended for Implementation			
Description of the Solution:	The village will replace the aged culvert under Gate Street. The village will repair the degraded streambank and reinforce the streambank with gravel/cobble.		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input checked="" 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:	N/A	Estimated Benefits (losses avoided):	Gate Street protected from erosive damages.
Useful Life:	15 years	Goals Met:	1, 2
Estimated Cost:	\$70,000	Mitigation Action Type:	Structure and Infrastructure Project, Natural Systems Protection
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 1 year
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, PDM, CHIPS, village budget
Responsible Organization:	Department of Public Works	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	Problem continues.
	Move Gate Street back from creek	N/A	Not technically feasible. Roadway cannot be moved due to adjacent houses.
	Install Ready Rock along Creek	\$80,000	Ready Rock more protective than necessary.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Protect Gate Street from erosion from parallel creek and replace culvert	
Project Number:	V. Bergen-4	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Culvert replaced to prevent collapse.
Property Protection	1	Gate Street protected from erosion damages.
Cost-Effectiveness	1	
Technical	1	Village has the technical capabilities to complete this action.
Political	1	Village has the political power to complete this action.
Legal	1	
Fiscal	0	Project requires financial assistance.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Flood, Severe Storm
Timeline	1	
Agency Champion	1	Department of Public Works
Other Community Objectives	1	
Total	13	
Priority (High/Med/Low)	High	



Village of Bergen Action Worksheet			
Project Name:	Purchase portable generator for sewer lift stations and install electrical components.		
Project Number:	V. Bergen-5		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	The village has four sewer lift stations that lack backup power. The lift stations need to be protected from power loss to ensure continuity of operations. The Gibson Place sewer lift station is the main lift station.		
Action or Project Intended for Implementation			
Description of the Solution:	The village will purchase an MQ Power WhisperWatt 35kVA generator. The village will also install electrical components to allow for hookup of the backup generator.		
Is this project related to a Critical Facility?	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:	100 year	Estimated Benefits (losses avoided):	Sewer Lift Stations protected from power loss.
Useful Life:	30 years	Goals Met:	2, 3
Estimated Cost:	Less than \$10,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 6 months
Estimated Time Required for Project Implementation:	Within 6 months	Potential Funding Sources:	Municipal Budget
Responsible Organization:	Department of Public Works	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	Problem continues.
	Install solar panels	\$30,000	Weather dependent.
	Install microgrid	\$250,000	Expensive, power loss still possible.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Purchase portable generator for sewer lift stations and install electrical components.	
Project Number:	V. Bergen-5	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects critical functions of lift stations.
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	Village has the technical capabilities to complete this action.
Political	1	Village has the political power to complete this action.
Legal	1	
Fiscal	0	Project requires financial assistance.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	
Agency Champion	1	Department of Public Works
Other Community Objectives	1	
Total	13	
Priority (High/Med/Low)	High	