



9.5 TOWNSHIP OF BYRAM

This section presents the jurisdictional annex for the Township of Byram. The annex includes a general overview of the Township of Byram; an assessment of the Township of Byram’s risk, vulnerability, and mitigation capabilities; and a prioritized action plan to implement prior to a disaster to reduce future losses and achieve greater resilience to natural hazards.

9.5.1 Hazard Mitigation Planning Team

The Township of Byram followed the planning process described in Section 2 (Planning Process). This annex was developed over the course of several months with input from many jurisdiction representatives. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization. The coronavirus pandemic resulted in a strain on local resources that limited some participation, but every effort was made to connect with staff and stakeholders and gain diverse input. Due to safety precautions, all meetings were held virtually. The following table summarizes who participated and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Section 2 (Planning Process) and Appendix C (Meeting Documentation).

Table 9.5-1. Hazard Mitigation Planning Team

Primary Point of Contact		Alternate Point of Contact
Name / Title: Joseph Sabatini, Township Manager Address: 10 Mansfield Drive, Stanhope, NJ 07874 Phone Number: (973) 347-2500 ext 129 Email: jsabatini@byramtwp.org		Name / Title: Alex Rubenstein, Mayor Address: 10 Mansfield Drive, Stanhope, NJ 07874 Phone Number: (862) 268-0288 Email: arubenstein@byramtwp.org
NFIP Floodplain Administrator		
Name / Title: Peter Karcher, Construction Official Address: 10 Mansfield Drive, Stanhope, NJ 07874 Phone Number: (908) 416-1126 Email: pkarcher@byramtwp.org		
Name	Title	Method of Participation
Joseph Sabatini	Township Manager	Primary point of contact
Alex Rubenstein	Mayor	Alternate point of contact
Peter Karcher	Construction Official	NFIP Floodplain Administrator
Thomas Koundry	Emergency Management Coordinator	Provided data and information, contributed to the mitigation strategy
Phillip Crosson	Byram Township Deputy Manager	Provided data and information, contributed to the mitigation strategy

9.5.2 Jurisdiction Profile

Byram Township is located in southern Sussex County. The Township is bordered to the north by the Townships of Andover and Sparta, to the east by the Borough of Hopatcong, to the west by Green and Andover Townships and to the south by Stanhope and Warren County. Numerous unincorporated communities are found within the Township and include: Roseville, Whitehall, Cranberry Lake, Waterloo, and Lockwood. Andover Junction Brook, Musconetcong River, and Lubbers Run all flow through the Township. The Township is known as "The Township of Lakes" because of the two dozen lakes and ponds located throughout. Byram covers more than 22.48 square miles. Additionally, the Township is located within the New Jersey Highlands Region.





According to the U.S. Census, the 2010 population for the Township of Byram was 8,350. The estimated 2018 population was 8,010, a 4.1 percent decrease from the 2010 Census. Data from the 2018 U.S. Census American Community Survey indicate that 4.7 percent of the population is 5 years of age or younger and 13.7 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

9.5.3 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to understanding a jurisdiction’s overall risk to its hazards of concern. Table 9.5-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. The figures at the end of this annex illustrate the geographically-delineated hazard areas and the location of potential new development.

Table 9.5-2. Recent and Expected Future Development

Type of Development	2015		2016		2017		2018		2019	
Number of Building Permits for New Construction Issued Since the Previous HMP										
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single and Two-Family Units	1	0	0	0	2	0	0	0	2	0
Multi-Family	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	8	0	3	0	3	0	1	0	3	0
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development		
Recent Major Development and Infrastructure from 2015 to Present										
Quick Check	Commercial	2		Block 41 Lot 89		Nuclear Incident Hazard Area		Completed		
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years										
WaWa	Commercial	2		75 Route 206 South		Nuclear Incident Hazard Area		Approved by Planning Board on 1/28/2021		
Anty Trucking & Rigging	Commercial	1		9 Lackawana Drive		Nuclear Incident Hazard Area, Hazardous Material Incident Hazard Area		Planning stages		

* Only location-specific hazard zones or vulnerabilities identified.
SFHA = Special Flood Hazard Area

9.5.4 Capability Assessment

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

- An assessment of legal and regulatory capabilities





- Development and permitting capabilities
- An assessment of fiscal capabilities
- An assessment of education and outreach capabilities
- Information on NFIP compliance
- Classification under various community mitigation programs
- The community’s adaptive capacity for the impacts of climate change

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration. Areas with current mitigation integration are summarized below. The Township of Byram identified specific integration activities that will be incorporated into municipal procedures; these actions are included in the updated mitigation strategy.

PLANNING, LEGAL AND REGULATORY CAPABILITY

The table below summarizes the legal and regulatory tools that are available to the Township of Byram and where hazard mitigation has been integrated.

Table 9.5-3. Planning, Legal and Regulatory Capability

	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Have aspects of the HMP been integrated into your codes/ordinances/plans?	
				If yes- how? Describe in comments.	If no - add Mitigation Action #, if applicable.
Codes, Ordinances, & Requirements					
Building Code	Yes	State & Local	Yes	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> • State mandated on local level under NJAC 5:23-3.14. International Building Code – New Jersey Edition, 2018, NJAC 5:24-3.14 Adopted 9/3/2019 • This code complies with State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.). 					
Zoning Code	Yes	Local	Yes – if municipality has a Planning Board	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> • State permissive on local level. Per State of NJ Municipal Land Use Law (MLUL) L. 1975, s. 2, eff Aug 1, 1976, 40-55D-62: 49. Power to zone, requires all jurisdictions to have current zoning and other land development ordinances after the planning board has adopted the land use element and master plan. • The Planning Board and Township Council are responsible for this code in compliance with Chapter 240: Zoning. • The code complies with Municipal Ord. Chapter 240 (4/5/79) and various amendments. • The ordinance includes provisions to secure safety from fire, flood, panic and other natural and man-made disasters, provide sufficient space in appropriate locations for a variety of agricultural, residential, recreational, commercial and industrial uses and open spaces, both public and private, according to their respective environmental requirements in order to meet the needs of all New Jersey citizens, and promote the conservation of historic sites and districts, open space, energy resources and valuable natural resources in the state and to prevent urban sprawl and degradation of the environment through improper use of land. 					
Subdivisions	Yes	Local	Yes – if municipality has a Planning Board	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> • P.L.1975, c.291 (C.40:55D-47): 40:55D-37. Grant of power; referral of proposed ordinance; county planning board approval a. The governing body may by ordinance require approval of subdivision plats by resolution of the planning board as a condition for the filing of such plats with the county recording officer and approval of site plans by resolution of the planning board as a condition for the issuance of a permit for any development, except that subdivision or individual lot applications for detached one 					



	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Have aspects of the HMP been integrated into your codes/ordinances/plans?	
				If yes- how? Describe in comments.	If no - add Mitigation Action #, if applicable.
<p><i>or two dwelling-unit buildings shall be exempt from such site plan review and approval; provided that the resolution of the board of adjustment shall substitute for that of the planning board whenever the board of adjustment has jurisdiction over a subdivision or site plan pursuant to subsection 63b. of this act . Dictated by the Municipal Land Use Law. NJ Statute 40:27-6.2 - the board of freeholders of any county having a county planning board shall provide for the review of all subdivisions of land within the county by said county planning board and for the approval of those subdivisions affecting county road or drainage facilities as set forth and limited hereinafter in this section.</i></p> <ul style="list-style-type: none"> • The Planning Board and Township Council are responsible for this code in compliance with Chapter 240: Zoning. • The code complies with Municipal Ord. Chapter 215 (4/5/79) and various amendments. 					
Stormwater Management	Yes	State & Local	Yes	Yes	-
<p>Comment:</p> <ul style="list-style-type: none"> • See Title 7 of the NJ Administrative Code, N.J.A.C. 7:8 • The Township Council and NJDEP are responsible for this ordinance in compliance with Chapter 211: Stormwater Control; Tier 1 Stormwater Permit (annual). • This ordinance complies with Municipal Ord. Chapter 211 (4/3/06) and annual NJDEP Tier 1 Stormwater Permit. 					
Post-Disaster Recovery	No	-	No	-	-
<p>Comment:</p>					
Real Estate Disclosure	Yes	State, Division of Consumer Affairs	Yes	No	-
<p>Comment:</p> <ul style="list-style-type: none"> • N.J.A.C. 13:45A-29.1 - Before signing a contract of sale, all purchasers must receive a New Jersey Public Offering Statement (POS) approved by the New Jersey Real Estate Commission. The POS provides information such as estimated completion dates for improvements, fees for services and amenities, the type of title and ownership interest being offered, its proximity to hospitals, schools, fire and police, as well as any hazards, risks or nuisances in or around the subdivision. 					
Growth Management	Yes	State & Local	Yes – if municipality has a Planning Board	No	-
<p>Comment:</p> <ul style="list-style-type: none"> • These ordinances have been updated from 2002 to present. • The Planning Board, Township Council, and Highlands Council are responsible for these ordinances in compliance with 2002 Township Smart Growth Plan; 2004 Township Master Plan; 2006 zoning ordinances based on 2004 Township Master Plan; Master Plan Highlands Element 10/12/14; full Highlands Conformance now underway. • State Mandated on a municipal level. See Zoning Ordinance ; Also - Plan Endorsement Process via the State Development & Redevelopment Plan provides for the delineation of Growth Areas and Environs; Use of the endorsed plans in the implementation of state environmental regulations makes the Plan Endorsement process a growth management strategy. 					
Site Plan Review	Yes	Local	Yes – if municipality has a Planning Board	Yes	-
<p>Comment:</p> <ul style="list-style-type: none"> • Dictated by the Municipal Land Use Law which sets forth minimum requirements for plans, etc., timeframes for development review. NJ Statute 40:27-6.2: The board of freeholders of any county having a county planning board shall provide for the review of all subdivisions of land within the county by said county planning board and for the approval of those subdivisions affecting county road or drainage facilities as set forth and limited hereinafter in this section. 40:27-6.10 In order that county planning boards shall have a complete file of the planning and zoning ordinances of all municipalities in the county, each municipal clerk shall file with the county planning board a copy of the planning and zoning ordinances of the municipality in effect on the effective date of this act and shall notify the county planning board of the introduction of any revision or amendment of such an ordinance which affects lands adjoining county roads or other county lands, or lands lying within 200 feet of a municipal boundary, or proposed facilities or public lands shown on the county master plan or official county map. Such notice shall be given to the county planning board at least 10 days prior to the public hearing thereon by personal delivery or by certified mail of a copy of the official notice of the public hearing together with a copy of the proposed ordinance. • The Planning Board and Township Council are responsible for these requirements in compliance with Chapter 215: Subdivision and Site Plan. • These requirements comply with Municipal Ord. Chapter 215 (4/5/79) and various amendments. 					
Environmental Protection	Yes	State & Local	No	Yes	-
<p>Comment:</p>					



	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Have aspects of the HMP been integrated into your codes/ordinances/plans?	
				If yes- how? Describe in comments.	If no - add Mitigation Action #, if applicable.
<ul style="list-style-type: none"> • Governed by DEP and Local Ordinances <ul style="list-style-type: none"> ○ Chapter 19 Environmental Commission ○ Chapter 167 Littering and Dumping ○ Chapter 169 Hazardous Materials ○ Chapter 208 Soil Removal 					
Flood Damage Prevention	Yes	Federal, State & Local	Yes	Yes	2021-Byram-008
Comment: <ul style="list-style-type: none"> • The NJ State Law Flood Area Control Act (N.J.S.A. 58:16A-52) and the National Flood Control Act of 1968 (NFIP) are state and federal acts to support minimization of flood losses. They do not require local adoption but as enforced by the NJDEP, the floodplain ordinances of each municipality must be reviewed for compliance with these regulations. In addition, participation in the NFIP requires a floodplain ordinance. Regulations for the Flood Control Hazards Act were adopted in 2007 and amended effective June 20, 2016. • This ordinance follows Township Ord. Chapt.135: Flood Damage Prevention. • It is the purpose of this chapter to promote the public health, safety, and general welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to: <ul style="list-style-type: none"> ○ A. Protect human life and health; ○ B. Minimize expenditure of public money for costly flood-control projects; ○ C. Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public; ○ D. Minimize prolonged business interruptions; ○ E. Minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets, and bridges located in areas of special flood hazard; ○ F. Help maintain a stable tax base by providing for the second use and development of areas of special flood hazard so as to minimize future flood blight areas; ○ G. Ensure that potential buyers are notified that property is in an area of special flood hazard; and ○ H. Ensure that those who occupy the areas of special flood hazard assume responsibility for their actions. • The ordinance currently lacks the state's 1-foot freeboard requirement. 					
Wellhead Protection	Yes	Local	No	Yes	-
Comment: <ul style="list-style-type: none"> • The Zoning Ordinance includes an article on Highlands Area Land Use which discusses wellhead protection areas. 					
Emergency Management	Yes	State/Local	No	Yes	-
Comment: <ul style="list-style-type: none"> • Chapter 32 Emergency Management 					
Climate Change	No	-	No	-	-
Comment:					
Disaster Recovery Ordinance	No	-	No	-	-
Comment:					
Disaster Reconstruction Ordinance	No	-	No	-	-
Comment:					
Municipal Separate Storm Sewer System (MS4)	Yes	Local	No	Yes	
Comment: <ul style="list-style-type: none"> • The Township Council is responsible for this ordinance in compliance with Chapter 203: Separate Storm Sewer System and Municipal Ord. Chapter 203 (12/19/05). 					
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]	Yes	Local	No	Yes	
Comment: <ul style="list-style-type: none"> • The Planning Board and Township Council are responsible for these ordinances in compliance with Ord. 240-29.2: Tract Disturbance; also Master Plan Highlands Element (10/2/14) and full Highlands Conformance (now underway). These ordinances were amended on November 15, 2004. 					
Planning Documents					
Comprehensive / Master Plan	Yes	Local	Yes	Yes	-
Comment:					





	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Have aspects of the HMP been integrated into your codes/ordinances/plans?	
				If yes- how? Describe in comments.	If no - add Mitigation Action #, if applicable.
<ul style="list-style-type: none"> 2018 Revised NJ Statute 40:27-2; the county planning board shall make and adopt a master plan for the physical development of the county. The master plan of a county, with the accompanying maps, plats, charts, and descriptive and explanatory matter, shall show the county planning board's recommendations for the development of the territory covered by the plan, and may include, among other things, the general location, character, and extent of streets or roads, viaducts, bridges, waterway and waterfront developments, parkways, playgrounds, forests, reservations, parks, airports, and other public ways, grounds, places and spaces; the general location and extent of forests, agricultural areas, and open-development areas for purposes of conservation, food and water supply, sanitary and drainage facilities, or the protection of urban development, and such other features as may be important to the development of the county. The county planning board shall encourage the co-operation of the local municipalities within the county in any matters whatsoever which may concern the integrity of the county master plan and to advise the board of chosen freeholders with respect to the formulation of development programs and budgets for capital expenditures. Per State of NJ Municipal Land Use Law (MLUL) L. 1975, s. 2, eff Aug 1, 1976 40:55D-28 provides the required components of a municipal Master Plan and requires that each municipality prepare a master plan and update it every 6 years. Further, all zoning ordinances must be consistent with the Master Plan or will not be benefitted from a presumption of validity. This plan was adopted on December 16, 2004. It was re-examined in March of 2012. The Planning Board is responsible for this plan in compliance with Byram Twp. Master Plan 2004; Master Plan Re-examination Report 2012. 					
Capital Improvement Plan	Yes	Local	No	Yes	-
<i>Comment:</i> The Township Council is responsible for this plan in compliance with 2015 Municipal Budget—3-yr. Plan.					
Disaster Debris Management Plan	No	-	No	-	2021-Byram-007
<i>Comment:</i>					
Floodplain or Watershed Plan	No	-	No	-	-
<i>Comment:</i>					
Stormwater Management Plan	Yes	Local	Yes	Yes	-
<i>Comment:</i> <ul style="list-style-type: none"> The Stormwater Management rules (N.J.A.C. 7:8) rules were published in the February 2, 2004 NJ Register. These rules set forth the required components of regional and municipal stormwater management plans and establish the stormwater management design and performance standards for new (proposed) development. The design and performance standards for new development include groundwater recharge, runoff quantity controls, and runoff quality controls. The rules emphasize, as a primary consideration, the use of nonstructural stormwater management techniques including minimizing disturbance, minimizing impervious surfaces, minimizing the use of stormwater pipes, preserving natural drainage features, etc. The rules also set forth requirements for groundwater recharge, stormwater runoff quantity control, stormwater runoff quality control, and the prohibition of major development to be located within or to discharge runoff from the major development into a 300-foot riparian zone without prior authorization from the Department under the Flood Hazard Area Control Act Rules, N.J.A.C. 7:13. The Township Council is responsible for this plan in compliance with Municipal Stormwater Mgt. Plan (Sept.2005); Ordinance Chapter 211, Stormwater Control. This plan was adopted on April 3, 2006 according to Municipal Ordinance 211. 					
Stormwater Pollution Prevention Plan	Yes	Local	Yes	Yes	-
<i>Comment:</i> <ul style="list-style-type: none"> The Phase II New Jersey Pollutant Discharge Elimination System Stormwater Regulation Program (NJPDES) rules (N.J.A.C. 7:14A) were published in the February 2, 2004, NJ Register. These NJPDES rules are intended to address and reduce pollutants associated with existing stormwater runoff. The NJPDES rules establish a regulatory program for existing stormwater discharges as required under the Federal Clean Water Act. These NJPDES rules govern the issuance of permits to entities that own or operate small municipal separate storm sewer systems, known as MS4s. Under this program, permits must be secured by municipalities, certain public complexes such as universities and hospitals, and State, interstate and federal agencies that operate or maintain highways. The permit program establishes the Statewide Basic Requirements that must be implemented to reduce nonpoint source pollutant loads from these sources. The Statewide Basic Requirements include measures such as: the adoption of ordinances (litter control, pet waste, wildlife feeding, proper waste disposal, etc.); the development of a municipal stormwater management plan and implementing ordinance(s); requiring certain maintenance activities (such as street sweeping and catch basin cleaning); implementing solids and floatables control; locating discharge points and stenciling catch basins; and a public education component. 					
Urban Water Management Plan	No	-	No	-	-
<i>Comment:</i>					
Habitat Conservation Plan	No	-	No	-	-



	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Have aspects of the HMP been integrated into your codes/ordinances/plans?	
				If yes- how? Describe in comments.	If no - add Mitigation Action #, if applicable.
<i>Comment:</i>					
Economic Development Plan	No	-	No	-	-
<i>Comment:</i>					
Shoreline Management Plan	No	-	Yes – if located in a coastal zone	-	-
<i>Comment:</i>					
<ul style="list-style-type: none"> NJ Coastal Area Facility Review Act (N.J.S.A. 13:19) or CAFRA regulates almost all development along the coast for activities including construction, relocation, and enlargement of buildings or structures, and excavation, grading, shore protection structures, and site preparation. This law is implemented through NJ's Coastal Zone management Rules N.J.A.C. 7:7E-1 et seq. 					
Community Wildfire Protection Plan	Yes	Local	No	Yes	-
<i>Comment:</i>					
Community Forest Management Plan	Yes	Local	No	Yes	-
<i>Comment:</i>					
Transportation Plan	Yes	Local	No	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> The Planning Board is responsible for this plan in compliance with Master Plan Circulation Element 2004. 					
Agriculture Plan	Yes	County	No	-	-
<i>Comment:</i>					
Climate Action Plan	No	-	No	-	-
<i>Comment:</i>					
Tourism Plan	Yes	Local	No	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> Eco Tourism Plan is incorporated as part of the Open Space Recreation Plan. 					
Business Development Plan	Yes	Local	No	No	-
<i>Comment:</i>					
Other: Open Space Plan	Yes	Local	No	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> This plan was adopted in October of 2000 and was updated in November of 2010. The Township Open Space Committee is responsible for this plan in compliance with Open Space and Recreation Plan (2000) and OS and Recreation Plan Update (2010). 					
Other: Stream Corridor Management Plan	Yes	Local	No	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> This plan was adopted in June of 1997 and updated on December 18, 2000. The Township Environmental Commission is responsible for this plan in compliance with Lubbers Run Greenway Project: A Stream Corridor Study (1997 and 2000). 					
Watershed Management or Protection Plan	Yes	State & Local	Yes	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> The Planning Board and Council are responsible for this plan in compliance with Lakefront Development Plan 2003; Highlands Conformance Process (underway). 					
Response/Recovery Planning					
Comprehensive Emergency Management Plan (CEMP) / Emergency Operations Plan (EOP)	Yes	Local	Yes	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> Each county and municipality in the State shall prepare a written Emergency Operations Plan with all appropriate annexes necessary to implement the plan. Each Emergency Operations Plan shall be adopted no later than one year after the State Emergency Planning Guidelines have been adopted by the State Office of Emergency Management and shall be evaluated at such subsequent scheduled review of the State Emergency Operations Plan. L.1989, c.222, s.19. 					



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				If yes- how? Describe in comments.	If no - add Mitigation Action #, if applicable.
<ul style="list-style-type: none"> The Township Council and Emergency Management Coordinator are responsible for this plan in compliance with Municipal Ordinance Chapter 32: Emergency Management and the 2015 EOP update. This plan was adopted on October 2, 1974 and amended on November 19, 1990 according to Municipal Ordinance Chapter 32. The plan was then updated in 2019 					
Threat & Hazard Identification & Risk Assessment (THIRA)	Yes	Local	No	Yes	-
<i>Comment:</i>					
Post-Disaster Recovery Plan	No	-	No	-	-
<i>Comment:</i>					
Continuity of Operations Plan	Yes	Local	No	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> Township Policies are in place for continuity of operations 					
Public Health Plan	Yes	County	Yes	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> The Public Health plan is administered by Sussex County Health Department. 					
Other Plans: Smart Growth Plan 2002	Yes	Local	No	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> The Planning Board is responsible for these plans in compliance with Byram Township Smart Growth Plan (2002). 					

Table 9.5-4. Development and Permitting Capability

Criterion	Response
Does your jurisdiction issue development permits? - If no, who does? If yes, which department?	Yes, Building Department
Does your jurisdiction have the ability to track permits by hazard area?	Yes
Does your jurisdiction have a buildable lands inventory? -If yes, please describe briefly. -If no, please quantitatively describe the level of buildout in the jurisdiction.	No

ADMINISTRATIVE AND TECHNICAL CAPABILITY

The table below summarizes potential staff and personnel resources available to the Township of Byram.

Table 9.5-5. Administrative and Technical Capabilities

Staff/Personnel Resource	Available?	Department/Agency/Position
Administrative Capability		
Planning Board	Yes	Municipal Ordinance Chapter 45: 1/19/77, 11/19/90; Amendment 5/4/95
Mitigation Planning Committee	Yes	Hazard Mitigation Planning Team: Township Council and Municipal Department Heads
Environmental Board / Commission	Yes	Municipal Ordinance Chapter 19 (10/2/74)
Open Space Board / Committee	Yes	Municipal Ordinance Chapter 42 (1/20/2000)
Economic Development Commission / Committee	Yes	Municipal Ordinance Chapter 16 (10/21/85)
Warning Systems / Services (reverse 911, outdoor warning signals)	Yes	Nixle, various Social media platforms
Maintenance program to reduce risk	Yes	Superintendent of Department of Public Works
Mutual aid agreements	Yes	Lakeland Emergency Squad & Byram Township Fire Department





Staff/Personnel Resource	Available?	Department/Agency/Position
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Municipal and Planning Board Engineer; Consulting Land Use Planner
Engineers or professionals trained in building or infrastructure construction practices	Yes	Construction Official and Sub-Code Officials
Planners or engineers with an understanding of natural hazards	Yes	Construction Official and Sub-Code Officials
Staff with training in benefit/cost analysis	Yes	Township Manager; Township Engineer, Township Risk Manager
Staff with training in green infrastructure	Yes	Construction Official and Sub-Code Officials
Staff with education/knowledge/training in low impact development	Yes	Construction Official
Surveyor	Yes	Within Office of Township Engineer.
Stormwater engineer	Yes	Cory Stoner – Harold E. Pellow & associates
Personnel skilled or trained in GIS applications	Yes	Municipal/Planning Board Engineer
Local or state water quality professional	Yes	Sussex County Water Quality Board
Scientist familiar with natural hazards in local area	No	-
Emergency manager	Yes	Emergency Management Coordinator
Watershed planner	No	-
Environmental specialist	Yes	Environmental Commission – Forester is Gracie & Harrigan Consulting Foresters
Grant writers	Yes	Municipal Staff
Resilience Officer	No	-
Other: NFIP Floodplain Administrator	Yes	Construction Official
Other: Professionals trained in conducting damage assessments	Yes	Construction Official, Municipal Engineer

FISCAL CAPABILITY

The table below summarizes financial resources available to the Township of Byram.

Table 9.5-6. Fiscal Capabilities

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	No
Capital Improvements Project Funding	Yes, Township Council
Authority to Levy Taxes for Specific Purposes	Yes, Township Council
User Fees for Water, Sewer, Gas or Electric Service	Yes (sewer fees), Township Council
Incur Debt through General Obligation Bonds	Yes, Township Council
Incur Debt through Special Tax Bonds	No
Incur Debt through Private Activity Bonds	No
Withhold Public Expenditures in Hazard-Prone Areas	Yes, Township Planning Board and Council.
State-Sponsored Grant Programs	Yes, Township Council.
Development Impact Fees for Homebuyers or Developers	No
Clean Water Act 319 Grants (Nonpoint Source Pollution)	No
Other: Open Space Acquisition Funding Programs	Yes, Township Council and Open Space Committee

EDUCATION AND OUTREACH CAPABILITY

The table below summarizes the education and outreach resources available to the Township of Byram.





Table 9.5-7. Education and Outreach Capabilities

Criterion	Response
Do you have a public information officer or communications office?	Yes, Township Manager
Do you have personnel skilled or trained in website development?	No
Do you have hazard mitigation information available on your website? -If yes, briefly describe.	No
Do you use social media for hazard mitigation education and outreach? -If yes, briefly describe.	No
Do you have any citizen boards or commissions that address issues related to hazard mitigation? -If yes, briefly describe.	No
Do you have any other programs already in place that could be used to communicate hazard-related information? If yes, briefly describe.	No

COMMUNITY CLASSIFICATIONS

The table below summarizes the classifications for community programs available to the Township of Byram.

Table 9.5-8. Community Classifications

Program	Participating?	Classification	Date Classified
Community Rating System	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	3 – 1 and 2 family residential properties 3 – commercial and industrial properties	2009
Public Protection (Fire ISO Protection Class)	Yes	Class 06/6X	June 2014
Storm Ready Certification	No	-	-
Firewise Community Classification	No	-	-
Sustainable Jersey	Yes	Not certified	Joined program 5/4/2009

ADAPTIVE CAPACITY

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). In other words, it describes a jurisdiction’s current ability to adjust to, protect from, or withstand a hazard event. This term is often discussed in reference to climate change; however, adaptive capacity also includes an understanding of local capacity for adapting to current and future risks and changing conditions. The table below summarizes the adaptive capacity for each hazard and the jurisdiction’s rating.

Table 9.5-9. Adaptive Capacity

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	Moderate
Disease Outbreak	Moderate
Drought	Weak
Earthquake	Weak
Flood	Moderate





Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Geologic	Unsure
Hazardous Materials	Moderate
Hurricane and Tropical Storm	Moderate
Invasive Species	Moderate
Nor’Easter	Moderate
Severe Weather	Moderate
Severe Winter Weather	Moderate
Wildfire	Moderate

Notes:
 Strong = Capacity exists and is in use; Moderate = Capacity may exist, but is not used or could use some improvement;
 Weak = Capacity does not exist or could use substantial improvement; Unsure = Not enough information is known to assign a rating.

The Township does not have access to resources to determine the possible impacts of climate change upon the municipality and is not currently supportive of integrating climate change in policies or actions? No

NATIONAL FLOOD INSURANCE PROGRAM

This section provides specific information on the management and regulation of the regulatory floodplain.

Table 9.5-10. National Flood Insurance Program Compliance

Criterion	Response
What local department is responsible for floodplain management?	Construction Official/Building Department
Who is your floodplain administrator? (name, department/position)	Peter Karcher, Construction Official
Are any certified floodplain managers on staff in your jurisdiction?	Construction Official/Building Department
What is the date that your flood damage prevention ordinance was last amended?	August 2011
Does your floodplain management program meet or exceed minimum requirements? -If exceeds, in what ways?	The program meets minimum requirements.
When was the most recent Community Assistance Visit or Community Assistance Contact?	January 12, 1994
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? -If so, state what they are.	No
Are any RiskMAP projects currently underway in your jurisdiction? If so, state what they are.	No
Do your flood hazard maps adequately address the flood risk within your jurisdiction? -If no, state why.	YES – FEMA maps
Does your floodplain management staff need any assistance or training to support its floodplain management program? - If so, what type of assistance/training is needed?	Other than the lack of a general education/outreach program regarding flood hazards and risk, the Township lacks funding and resources to conduct a broader floodplain management program. The Township would welcome any opportunities to improve training and support for the FPA and Township



Criterion	Response
	staff to identify and mitigate floodprone areas.
Does your jurisdiction participate in the Community Rating System (CRS)? -If yes, is your jurisdiction interested in improving its CRS Classification? -If no, is your jurisdiction interested in joining the CRS program?	No. However, the Township has considered joining CRS and would attend a CRS seminar if offered locally.
How many flood insurance policies are in force in your jurisdiction?*	22 policies
-What is the insurance in force?	\$5,666,800 insurance in force
-What is the premium in force?	\$20,214 premium in force
How many total loss claims have been filed in your jurisdiction?*	14 claims
-How many claims are still open or were closed without payment?	\$129,878 in payments
-What were the total payments for losses?	
Do you maintain a list of properties that have been damaged by flooding?	No
Do you maintain a list of property owners interested in flood mitigation?	No

*According to FEMA statistics as of October 13, 2020
Reference: FEMA 2020

OPPORTUNITIES FOR FUTURE INTEGRATION

- **Flood Damage Prevention Ordinance:** The Township will update the Flood Damage Prevention Ordinance to include the state mandated freeboard requirement. (2021-Byram-008)
- **Disaster Debris Management Plan:** The Township will develop a Disaster Debris Management Plan. (2021-Byram007)

9.5.5 Hazard Event History Specific to the Jurisdiction

Sussex County has a history of hazard events, as detailed in Section 4 (Risk Assessment) of this plan. A summary of historical events is provided in each of the hazard profiles in Section 4.3 (Hazards of Concern) and includes a chronology of events that affected Sussex County and its jurisdictions. The Township of Byram’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Sussex County. Table 9.5-11 provides details regarding municipal-specific loss and damages the jurisdiction experienced during hazard events. Information provided in the table below is based on reference material or local sources.

Table 9.5-11. Hazard Event History

Date(s) of Event	Event Type (disaster declaration if applicable)	Sussex County Designated?	Summary of Event	Summary of Local Damages and Losses
January 22, 2016 - January 24, 2016	DR-4264: Severe Winter Storm and Snowstorm	Yes	A major nor'easter, produced record snowfall and blizzard conditions in parts of New Jersey on January 23 rd and 24 th .	Although the County was impacted, the Township did not report major impacts.
January 20, 2020 and continuing	EM-3451, DR-4488: COVID-19 Pandemic	Yes	The coronavirus pandemic resulted in the need for shutdowns and social distancing and mask requirements.	The Township was subject to temporary closures and social distancing and masking mandates.



Date(s) of Event	Event Type (disaster declaration if applicable)	Sussex County Designated?	Summary of Event	Summary of Local Damages and Losses
August 4, 2020	4574DR Tropical Storm Isaias	Yes	A Major tropical storm produced high, damaging winds and significant rainfall	The Township was subject to numerous downed trees and power lines. Equipment damage was also experienced.

Source: FEMA 2020, NOAA NCEI 2020

9.5.6 Jurisdiction-Specific Vulnerabilities and Hazard Ranking

The hazard profiles in Section 4 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Refer to Section 4.2 (Methodology and Tools) and Section 4.4 (Hazard Ranking) for a detailed summary for the Township of Byram risk assessment results and data used to determine the hazard ranking discussed later in this section.

HAZARD AREA EXTENT AND LOCATION

Hazard area extent and location maps were generated for the Township of Byram 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 been generated only for those hazards that can be clearly identified using mapping techniques and technologies and for which the Township of Byram has significant exposure.

REPETITIVE FLOOD LOSSES

The following summarizes the repetitive and severe repetitive flood losses in the Township of Byram.

- Number of repetitive loss (RL) properties: 3
- Number of severe repetitive loss (SRL) properties: 0
- Number of RL/SRL properties that have been mitigated: 0

Source: FEMA 2019

CRITICAL FACILITIES AND LIFELINES

The table below identifies critical facilities and lifelines in the community located in the 1-percent and 0.2-percent floodplain.

Table 9.5-12 Critical Facilities and Lifelines Flood Exposure





Name	
------	--

DRAFT



**Hazardous
Materials**

DRAFT



2016 Action Number Action Description		
------------------------------------------	--	--

DRAFT



funding (grants and local match availability) and can 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 actions as High, Medium, or Low. The table below summarizes the evaluation of each mitigation initiative, listed by action number.

Table 9.5-16 provides a summary of the prioritization of all proposed mitigation initiatives for this HMP update.

DRAFT



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Initiative
Number

DRAFT



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

Potential FEMA HMA Funding Sources:

DRAFT



Table 9.5-16. Summary of Evaluation and Action Priorities



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Table 9.5-17. Analysis of Mitigation Actions by Hazard and Category



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Figure 9.5-1. Township of Byram Hazard Area Extent and Location Map 1

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Figure 9.5-2. Township of Byram Hazard Area Extent and Location Map 2

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Figure 9.5-3 Township of Byram Hazard Area Extent and Location Map 3

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Action Worksheet

Project Name:

East Brookwood Alternative Emergency Ingress/Egress

DRAFT



Action Worksheet

Project Name: East Byram Road Estate Parcels

DRAFT



Action Worksheet

Project Name:

East Brookwood Estates Drainage

DRAFT



Action Worksheet

Project Name:

Unincorporated Township of Byram, Title District # 1

DRAFT



Action Worksheet

Project Name: Title and Impact Calculations, Little Point West

DRAFT



Action Worksheet

Project Name

Responsible Team/Member

DRAFT



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