

# 9.12 TOWNSHIP OF HARDYSTON

This section presents the jurisdictional annex for the Township of Hardyston. The annex includes a general overview of the Township of Hardyston; an assessment of the Township of Hardyston'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.

## 9.12.1 Hazard Mitigation Planning Team

The Township of Hardyston 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 9.12-1. Hazard Mitigation Planning Team

Primary Poin	nt of Contact	Alternate Point of Contact			
Name / Title: William Hicker	son, OEM Coordinator	Name / Title:	: Carrine Piccolo-Kaufer, Township		
Address: 149 Wheatsworth R		Manager/Pla	nner		
07419	-	Address: 149	Wheatsworth Road, Suite A, Hardyston, NJ 07419		
Phone Number: (973) 615-56	87	Phone Numb	er: (973) 823-7020		
Email: whickerson@gmail.co	m	Email: cpicco	olo@hardyston.com		
NFIP Floodplain Administrator Name / Title: Joseph Butto, Construction Official Address: 149 Wheatworth Road Suite A Hardyston NJ 07419					
Phone Number: (973) 823-70 Email: jbutto@hardyston.com					
Name	Title		Method of Participation		
William Hickerson	OEM Coordinator		Attended the kickoff meeting, annex training, risk assessment meeting and mitigation strategy workshop. Provided data and information for the annex update.		
Carrine Piccolo-Kaufer	Township Manager/Planner		Secondary point of contact.		
Joseph Butto	Construction Official		NFIP Floodplain Administrator		

## 9.12.2 Jurisdiction Profile

The Township of Hardyston is located in northeastern Sussex County. It is bordered to the north by the Townships of Vernon and Wantage, to the south by the Township of Sparta and Morris County, to the east by Vernon Township and Morris County, and to the west by Lafayette Township. The Township covers an area of approximately 32.6 square miles. There are numerous streams located within the Township and include: Wallkill River, Hamburg Creek, Mud Pond Outlet Stream, Pequannock River, Lake Stockholm Brook, Franklin Pond Creek, Beaver Run, and Black Creek. The following unincorporated communities are located within the Township: Beaver Run, North Church, Big Springs, Rudeville, and Beaver Lake.





According to the U.S. Census, the 2010 population for the Township of Hardyston was 8174. The estimated 2018 population was 7786, a 4 percent decrease from the 2010 Census. Data from the 2018 U.S. Census American Community Survey indicate that 5.5 percent of the population is 5 years of age or younger and 18.8 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.

## 9.12.3 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 9.11-2 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.

Type of Development	20	15	2	016	2	017	2018		2019	
Number of Building Permits for New Construction Issued Since the Previous HMP										
	Total	Within SFHA	Total	Within <u>SF</u> HA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single and Two-Family Units	6	0	2	0	3	0	13	0	0	0
Multi-Family	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	1	0	3	0	0	0	2	0	0	0
Property or Development Name			Stru	Units / ctures	(address an			1 Hazard 1e(s)*	Sta	iption / tus of opment
		Recent	Major I	Developm	ent and Infr	rastructure fro				
Crystal Springs - Shotmeyer	Single F	amily	38	38 Coventry, Tarrington 16.28,16.30 16.37		, Blocks	Railway Incident Hazard Area, Nuclear Incident Hazard Area, Carbonate Soil, Steep Slopes, Wildfire		Under Construction	
Crystal Springs – Shotmeyer	Multi-Fa	umily	1 (18	Units)	Block 16.29 Lot 1				Approv	ed
Emerald Estates	Single F	Single Family			Emerald Drive/Ruby Court, Block 63, Lots 26.15,26.16,26.17,27.01		Incident H	ea, 5 Material 1.rea, Nuclear 1.azard Area, 5.oil, Steep	Under Constru	ction
Estell Manor	Single I	Family	3		Estell Driv Lot 11.03	re, Block 75	Railway I Hazard Ar Hazardous Incident A	ncident ea,		

### Table 9.12-2. Recent and Expected Future Development





				Carbonate Soil, Wildfire	
NA	None	Under construction	Block 75.01 Lots 1 & 16	Railway Incident Hazard Area, Hazardous Material Incident Area, Nuclear Incident Hazard Area, Carbonate Soil, Wildfire	Under Construction
Ridgefield Commons	Single Family - Townhouse	8	Brookview, Block 67.23 Lots 1-8	Nuclear Incident Hazard Area, Carbonate Soil, Wildfire	Under Construction
	Known or Anticipa	ted Major Develo	opment and Infrastructur	e in the Next Five (5) Yea	ars
Crystal Springs – Balmorale	Single Family	15	Exeter Lane/Sutton Court	Railway Incident Hazard Area, Nuclear Incident Hazard Area, Carbonate Soil, Steep Slopes, Wildfire	
Brecia Farms	Single Family	18	Anthony Lane/Davon Court	Hazardous Material Incident Area, Nuclear Incident Hazard Area, Carbonate Soil, Steep Slopes, Wildfire	

\* Only location-specific hazard zones or vulnerabilities identified.

SFHA = Special Flood Hazard Area

## 9.12.4 Capability Assessment

Section 5 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The Township of Hardyston 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 planning, legal and regulatory capabilities
- Development and permitting capabilities
- An assessment of administrative and technical capabilities
- An assessment of fiscal capabilities
- An assessment of education and outreach capabilities
- Classification under various community mitigation programs
- The community's adaptive capacity for the impacts of climate change
- Information on NFIP compliance

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-today 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 Hardyston 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 Hardyston and where hazard mitigation has been integrated.





	Authority that		Have aspects of the HMP been integrated into your codes/ordinances/plans?		
	Do you have this? (Yes/No)	enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	If yes- how? Describe in comments.	If no - add Mitigation Action #, if applicable.
Codes, Ordinances, & Requirements					
Building Code	Yes	State & Local	Yes	Yes	-
<ul> <li>Comment:</li> <li>State mandated on local level under NJA Adopted 9/3/2019</li> <li>The Construction Office is responsible f et seq.)</li> <li>The Township's building code is found i 1972 and revised in 1998 and 2000. Pr submit two copies of a detailed site plam retaining walls, terraces, sidewalks, slop curb, where existing, and, if no curb, ele located, and all provisions for the properties.</li> </ul>	for this code in con in Chapter 62 (Bui ior to the issuance to the building ins pes, major rock for evation at existing	npliance with State Unij Iding Construction) of t of a building permit for spector. The site plan n rmations, existing easen opposite lot corners and	form Construction he municipal con- any single-fami- ust show swales uents, building li l center line of a	on Code Act (N.J. de. It was origina ily home, the app s, brooks, streams ine setback and e	S. 52:27D-119 illy adopted in licant must s, springs, levation at the
Zoning Code	Yes	Local	Yes – if municipality has a Planning Board	Yes	-
<ul> <li>The Zoning Code is found in Chapter 18</li> </ul>					
The Zoning Code is found in Chapter 18     There are several purposes to the code i  Subdivisions			panic and other Yes – if municipality has a Planning		
There are several purposes to the code in Subdivisions         Subdivisions         P.L.1975, c.291 (C.40:55D-47): 40:55E         The governing body may by ordinance rethe filing of such plats with the county recondition for the issuance of a permit foor two dwelling-unit buildings shall be even of adjustment shall substitute for that of or site plan pursuant to subsection 63b. freeholders of any county having a count by said county planning board and for and limited hereinafter in this section.         • Chapter 158 (Subdivision of Land) was regulations and standards to guide land general welfare of the Township. It shal and proper use of land and adequate pro-         • The Zoning Board and Planning Board	P-37. Grant of pow equire approval of ecording officer and r any development exempt from such s the planning board of this act . Dictat ty planning board the approval of the first adopted in 19 subdivision in the l be administered in ovision for circula	safety from fire, flood, Local Local ter; referral of proposed f subdivision plats by re ad approval of site plan t, except that subdivision tite plan review and app d whenever the board of ed by the Municipal Lai shall provide for the re osse subdivisions affectin 72 and amended in 199 Township in order to p to ensure the orderly gre tion, utilities and servic	panic and other Yes – if municipality has a Planning Board dordinance; cou solution of the p s by resolution of the presolution of a or individual la roval; provided f adjustment has ad Use Law. NJ eview of all suba g county road of 8. The purpose romote the public owth and develop es.	natural and man Yes Ny Planning boa lanning board as f the planning bo tapplications fo that the resolutio jurisdiction over Statute 40:27-6.2 livisions of land v or drainage faciliti of this code is to ic health, safety, o	-made disasters. 
There are several purposes to the code in Subdivisions         Subdivisions         Comment:         P.L.1975, c.291 (C.40:55D-47): 40:55E The governing body may by ordinance of the filing of such plats with the county or condition for the issuance of a permit for or two dwelling-unit buildings shall be of adjustment shall substitute for that of or site plan pursuant to subsection 63b. freeholders of any county having a coum by said county planning board and for and limited hereinafter in this section.         Chapter 158 (Subdivision of Land) was regulations and standards to guide land general welfare of the Township. It shal and proper use of land and adequate pre-         The Zoning Board and Planning Board	P-37. Grant of pow equire approval of ecording officer and r any development exempt from such s the planning board of this act . Dictat ty planning board the approval of that first adopted in 19 subdivision in the l be administered in ovision for circula are responsible for Yes le, N.J.A.C. 7:8 s ordinance in com regarding stormw rpose of the code i, jownship. Design si s including environ	safety from fire, flood, Local Local Local ter; referral of proposed f subdivision plats by re ad approval of site plan. t, except that subdivision site plan review and app d whenever the board of ed by the Municipal Lan shall provide for the re ose subdivisions affectin 72 and amended in 199 Township in order to p to ensure the orderly gr tion, utilities and servic r administering this cod State and Local ppliance with the State. rater management in acc s to establish minimum tandards for stormwate. umentally critical areas	panic and other Yes – if municipality has a Planning Board I ordinance; cou solution of the p s by resolution of the provided f adjustment has nd Use Law. NJ cyclew of all suba g county road of 8. The purpose romote the publi- cowth and developes. e. Yes	natural and man Yes Ny Sana Sana Sana Sana Sana Sana Sana San	-made disasters

### Table 9.12-3. Planning, Legal and Regulatory Capability





		Authority that		Have aspects of the HMP been integrated into your codes/ordinances/plans?	
	Do you have this? (Yes/No)	enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	If yes- how? Describe in comments.	If no - add Mitigation Action #, if applicable.
Comment:					
Real Estate Disclosure	No	State, Division of Consumer Affairs	Yes	-	-
<b>Comment:</b> N.J.A.C. 13:45A-29.1 - Before signing of (POS) approved by the New Jersey Real Estate Co- improvements, fees for services and amenities, the and police, as well as any hazards, risks or nuisand	mmission. The POS type of title and ow	S provides information with the second secon	such as estimated	d completion date	es for
Growth Management	Yes	State	Yes – if municipality has a Planning Board	No	-
Comment: • State Mandated on a municipal level. So Redevelopment Plan provides for the de of state environmental regulations make • The Town Council is responsible for the	elineation of Growt es the Plan Endors	th Areas and Environs; ement process a growth	Use of the endor management st	sed plans in the i	
Site Plan Review	Yes	Local	Yes – if municipality has a Planning	Yes	-
			Board		
Comment: Dictated by the Municipal Land Use La review. NJ Statute 40:27-6.2: The board of all subdivisions of land within the con- county road or drainage facilities as set	d of freeholders of unty by said count t forth and limited	any county having a co y planning board and fo hereinafter in this sector	for plans, etc., t unty planning bo or the approval o ion. 40:27-6.10 1	pard shall provid of those subdivision in order that court	le for the review ons affecting nty planning
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<ul> <li>Dictated by the Municipal Land Use La review. NJ Statute 40:27-6.2: The board of all subdivisions of land within the con- county road or drainage facilities as set boards shall have a complete file of the shall file with the county planning board date of this act and shall notify the coun- which affects lands adjoining county ra proposed facilities or public lands show county planning board at least 10 days the official notice of the public hearing</li> <li>The Town Council is responsible for the Environmental Protection</li> <li>Comment:</li> <li>The NJ State Law Flood Area Control A federal acts to support minimization of floodplain ordinances of each municipal the NFIP requires a floodplain ordinan- effective June 20, 2016.</li> <li>The Construction official is responsible</li> <li>Wellhead Protection</li> <li>Comment:</li> <li>Comment:</li> <li>Comment:</li> <li>The Construction official is responsible</li> </ul>	d of freeholders of unty by said count t forth and limited planning and zonin d a copy of the plan ty planning board oads or other county m on the county m prior to the public together with a cop gese requirements in No Yes Act (N.J.S.A. 58:16. flood losses. They ulity must be review ce. Regulations fo for this ordinance No Yes	any county having a co y planning board and fu hereinafter in this sector ing ordinances of all mu- ming and zoning ordin of the introduction of a ty lands, or lands lying aster plan or official ca hearing thereon by per by of the proposed ordin a compliance with the T - Federal, State & Local A-52) and the National do not require local ad red for compliance with r the Flood Control Ha in compliance with Cha -	for plans, etc., t unty planning bo or the approval of ion. 40:27-6.10 1 unicipalities in th ances of the mun any revision or a within 200 feet of ounty map. Such sonal delivery or nance. own Council. No Yes Flood Control A option but as enj these regulation zards Act were a apter 96. No	ard shall provid of those subdivision order that cour e county, each m icipality in effect mendment of suc f a municipal bo notice shall be g by certified main - Yes Act of 1968 (NFIF forced by the NJI is. In addition, p dopted in 2007 a - No	le for the review ons affecting thy planning unicipal clerk on the effective h an ordinance undary, or iven to the l of a copy of 





		Authority that		been integra	s of the HMP ted into your ances/plans?
	Do you have (Federal, State, this? Regional, County, (Yes/No) Local)		Is this State Mandated?	If yes- how? Describe in comments.	If no - add Mitigation Action #, if applicable.
Disaster Recovery Ordinance	No	-	No	-	-
Comment:					
Disaster Reconstruction Ordinance	No	-	No	-	-
Comment:					
Other:	No	-	No	-	-
Comment:					
Planning Documents					
Comprehensive / Master Plan	Yes	State	Yes	Yes	-
<ul> <li>important to the development of the coumunicipalities within the county in any advise the board of chosen freeholders expenditures. Per State of NJ Municipal components of a municipal Master Plan Further, all zoning ordinances must be</li> <li>The Planning Board is responsible for tridentified in the HMP update.</li> <li>Portions of the Township are located in Plan and supports elements and objecti</li> <li>Capital Improvement Plan</li> <li>Comment:</li> </ul>	matters whatsoever with respect to the l Land Use Law (M a and requires that consistent with the his plan, which wa the Highlands Reg	which may concern the formulation of develops (LUL) L. 1975, s. 2, eff. each municipality prep. Master Plan or will no. s adopted in 2014. Seve tions. The master plan of	e integrity of the ment programs a Aug 1, 1976 40: are a master pla t be benefitted fr eral objectives oj	county master pl and budgets for c 55D-28 provides n and update it e com a presumption f the plan align w	an and to apital the required very 6 years. 1 of validity. ith those
<ul> <li>The Town Manager is responsible for th</li> <li>The Township's municipal budget outlin item for various capital improvements;</li> </ul>	nes the capital budg	get and improvement pr	0 5	2	et.
Disaster Debris Management Plan	No	-	No	-	2021- Hardyston- 008
Comment:		~			
Floodplain or Watershed Plan	Yes	State	No	Yes	-
Comment: The Planning Board is responsible for a					
Stormwater Management Plan Comment:	Yes	State	Yes	Yes	-
<ul> <li>The Stormwater Management rules (N.J. the required components of regional and design and performance standards for m include groundwater recharge, runoff q consideration, the use of nonstructural impervious surfaces, minimizing the use requirements for groundwater recharge of major development to be located with without prior authorization from the De</li> <li>The Township's Municipal Stormwater Township to address stormwater-relate protecting public safety and reducing in</li> </ul>	d municipal stormw new (proposed) dev uantity controls, au stormwater manag e of stormwater pip s, stormwater runoj nin or to discharge partment under tha Management Plan d impacts. Several	vater management plan elopment. The design a nd runoff quality contro ement techniques inclua es, preserving natural a f quantity control, storn runoff from the major a e Flood Hazard Area C was adopted in March goals of the plan align.	as and establish a nd performance ols. The rules em, ling minimizing drainage feature nwater runoff development intco ontrol Act Rules 2005. The plan s with the goals	the stormwater mi- standards for new phasize, as a prin disturbance, mini s, etc. The rules a uality control, and a 300-foot ripar , N.J.A.C. 7:13. documents the sth	anagement v development nary mizing lso set forth l the prohibitior ian zone rategy for the





		Authority that		been integra	ts of the HMP ated into your ances/plans?
	Do you have this? (Yes/No)	enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	If yes- how? Describe in comments.	If no - add Mitigation Action #, if applicable.
Stormwater Pollution Prevention Plan	Yes/No	If yes, who enforces?	Yes	Yes/No	Yes/No

Comment:

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 \_

Comment:					
Habitat Conservation Plan	No	-	No	-	-
Comment:					
Economic Development Plan	No	-	No	-	-
Comment:					
Shoreline Management Plan	No		Yes – if located in a coastal zone	-	-
Comment:					~ · · · ·
<ul> <li>NICoastal Area Facility Review Act (N</li> </ul>					

 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	No	-	No	-	-				
Comment:									
Community Forest Management Plan	Yes	Local	No	Yes	-				
Comment: Planning Board is responsible for this p	Comment: Planning Board is responsible for this plan which is a part of the Master Plan								
Transportation Plan	Yes	Local	No	Yes	-				
Comment: The Planning Board is responsible for the	his plan, which is a	a part of the Master Pla	n.						
Agriculture Plan	Yes	Local	No	Yes	-				
Comment: The Planning Board is responsible for t	his plan which is a	part of the Master Plan	n						
Climate Action Plan	No	-	No	-	-				
Comment:									
Tourism Plan	No	-	No	-	-				
Comment:									
Business Development Plan	No	-	No	-	-				
<b>Comment:</b> While there is no plan in place, the Township has an Economic Development Advisory Commission that assists in attracting new business and industry as well as retaining established businesses.									
Other: Open Space Plan	Yes	Local	No	Yes	-				
Comment: • The Planning Board is responsible for this plan, which is a part of the Master Plan.									

Local

No

Yes



Stream Corridor Management Plan

Yes



		Authority that		been integra	ts of the HMP ated into your nances/plans?	
	Do you have (Federal, State, this? Regional, County (Yes/No) Local)		Is this State Mandated?	If yes- how? Describe in comments.	If no - add Mitigation Action #, if applicable.	
Comment: The Planning Board is responsible for the	his plan, which is a	n part of the Master Pla	n.			
Watershed Management or Protection Plan	Yes	Local	No	Yes	-	
Comment: The Planning Board is responsible for the	his plan, which is a	n part of the Master Pla	n.	•		
Response/Recovery Planning						
Comprehensive Emergency Management Plan (CEMP) / Emergency Operations Plan (EOP)	Yes	Township OEM	Yes	Yes	-	
<ul> <li>Emergency Planning Guidelines have be subsequent scheduled review of the State</li> <li>This plan was adopted in 2014.</li> <li>The Office of Emergency Management is</li> <li>Threat &amp; Hazard Identification &amp; Risk</li> </ul>	e Emergency Oper	ations Plan. L.1989, c.2		Yes		
Assessment (THIRA)	103	Township OEW	110	103	_	
Comment: Part of the Township's EOP						
Post-Disaster Recovery Plan	No	-	No	-	-	
Comment:				_		
<b>Continuity of Operations Plan</b>	No	-	No	-	-	
Comment:						
Public Health Plan	Yes	County	No	Yes	-	
Comment: Performed at the county level						
Other	No	-	No	-	-	
Comment:						

## Table 9.12-4. 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.	Yes, the Township completed a buildable land inventories as part of its housing element.

## ADMINISTRATIVE AND TECHNICAL CAPABILITY

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

#### Table 9.12-5. Administrative and Technical Capabilities

Staff/Personnel Resource	Available?	Department/Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board and Zoning Bord of Adjustment
Mitigation Planning Committee	Yes	OEM
Environmental Board / Commission	Yes	Clean Communities Program





Staff/Personnel Resource	Available?	Department/Agency/Position
Open Space Board / Committee	No	-
Economic Development Commission / Committee	Yes	Hardyston Township Economic Development Advisory Commission - composed of volunteer Township residents, assists in attracting new business and industry as well as retaining established businesses. Their mission is to maintain the quality of life of our residents by stabilizing and expanding our local tax base.
Warning Systems / Services (mass notification system, outdoor warning signals)	Yes	Swift911 and PSAP
Maintenance program to reduce risk	Yes	Town Manager Insurance related
Mutual aid agreements	Yes	Fire Department, Police and EMS
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Deputy Manager/planner and Construction
Engineers or professionals trained in building or infrastructure construction practices	Yes	Construction
Planners or engineers with an understanding of natural hazards	Yes	Deputy Manager/Planner
Staff with training in benefit/cost analysis	Yes	OEM and Deputy Manager
Staff with training in green infrastructure	Yes	Land Use/Town Manager
Staff with education/knowledge/training in low impact development	Yes	Town Manager
Surveyor	No	-
Stormwater engineer	Yes	Township Engineering dept
Personnel skilled or trained in GIS applications	Yes	Zoning
Local or state water quality professional	No	Use Sussex County BOH
Scientist familiar with natural hazards in local area	No	_
Emergency manager	Yes	OEM
Watershed planner	Yes	Town planner/Manager
Environmental specialist	No	-
Grant writers	Yes	OEM and Deputy Manager
Resilience Officer	No	-
Other: NFIP Floodplain Administrator	Yes	Construction Official
Other: Professionals trained in conducting damage assessments	Yes	OEM and Construction

### **FISCAL CAPABILITY**

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

### Table 9.12-6. Fiscal Capabilities

Financial Resource	Accessible or Eligible to Use?		
Community Development Block Grants (CDBG, CDBG-DR)	Yes; Hardyston Town Council		
Capital Improvements Project Funding	Yes; Hardyston Town Council		
Authority to Levy Taxes for Specific Purposes	Yes; Hardyston Town Council		
User Fees for Water, Sewer, Gas or Electric Service	Yes; Hardyston Town Council		
Incur Debt through General Obligation Bonds	Yes; Hardyston Town Council		
Incur Debt through Special Tax Bonds	Yes; Hardyston Town Council		
Incur Debt through Private Activity Bonds	Yes; Hardyston Town Council		





Financial Resource	Accessible or Eligible to Use?		
Withhold Public Expenditures in Hazard-Prone Areas	No		
State-Sponsored Grant Programs	No		
Development Impact Fees for Homebuyers or Developers	No		
Clean Water Act 319 Grants (Nonpoint Source Pollution)	No		
Other: Open Space Acquisition Funding Programs	Yes; Hardyston Town Council		

### EDUCATION AND OUTREACH CAPABILITY

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

### Table 9.12-7. Education and Outreach Capabilities

Criterion	Response
Do you have a public information officer or communications office?	Yes
Do you have personnel skilled or trained in website development?	Yes
Do you have hazard mitigation information available on your website? -If yes, briefly describe. Do you use social media for hazard mitigation education and	The Township's municipal website has notices and announcements specific to the municipality. They also have a storm preparation checklist on their main page.
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.	Yes, Township Lake and development associations

#### **COMMUNITY CLASSIFICATIONS**

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

#### Table 9.12-8. Community Classifications

Program	Participating?	Classification	Date Classified
Community Rating System	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No -		-
Public Protection (Fire ISO Protection Class)	No	-	-
Storm Ready Certification	No	-	-
Firewise Community Classification	No	-	-
Sustainable Jersey	Yes	Not certified	Joined program on 9/7/2010

#### 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.





Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak		
Dam Failure	Moderate		
Disease Outbreak	Moderate		
Drought	Moderate		
Earthquake	Moderate		
Flood	Moderate		
Geologic	Moderate		
Hazardous Materials	Moderate		
Hurricane and Tropical Storm	Moderate		
Invasive Species	Moderate		
Nor'Easter	Moderate		
Severe Weather	Moderate		
Severe Winter Weather	Strong		
Wildfire	Moderate		

#### Table 9.12-9. Adaptive Capacity

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.

#### NATIONAL FLOOD INSURANCE PROGRAM

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

## Table 9.12-10. National Flood Insurance Program Compliance

Criterion	Response
What local department is responsible for floodplain management?	Building Department
Who is your floodplain administrator? (name, department/position)	Joe Butto, Construction Official
Are any certified floodplain managers on staff in your jurisdiction?	???
What is the date that your flood damage prevention ordinance was last amended?	July 5, 2011
Does your floodplain management program meet or exceed minimum requirements? -If exceeds, in what ways?	This program exceeds the minimum requirements set by the FEMA and the State. The master plan and planning board have a review for flood zones during application process.
When was the most recent Community Assistance Visit or Community Assistance Contact?	January 10, 1995
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.	???
Do your flood hazard maps adequately address the flood risk within your jurisdiction? -If no, state why.	???





Criterion	Response
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?	No
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, and the community has not considered joining CRS at this time.
How many flood insurance policies are in force in your jurisdiction?* -What is the insurance in force? -What is the premium in force?	8 policies
How many total loss claims have been filed in your jurisdiction?* -How many claims are still open or were closed without payment? -What were the total payments for losses?	2 claims \$60,787 in payments
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	

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

### **OPPORTUNITIES FOR FUTURE INTEGRATION**

- **Firewise Program:** The Township will follow the proper steps in applying for and becoming a Firewise community. This includes forming a board/committee, obtaining a wildfire risk assessment, developing an action plan, and hosting outreach events and programs. The Township will also create an education program (2021-Hardyston-002).
- **Disaster Debris Management Plan:** The Township will develop a debris management plan that will assist the municipality when they need to facilitate response and recovery after a debris-causing incident. The plan will provide direction to facilitate and coordinate the management of debris following a disaster (2021-Hardyston-008).
- **Flood Damage Prevention Ordinance:** The Township will update its flood damage prevention ordinance to meet the New Jersey requirement of one foot of freeboard (2021-Hardyston-009).

## 9.12.5 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 Hardyston'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 9.11-11 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 9.12-11. 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 <sup>rd</sup> and 24th.	???





Date(s) of Event	Event Type (disaster declaration if applicable)	Sussex County Designated?	Summary of Event	Summary of Local Damages and Losses
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.	Currently 30K request for cost reimbursement submitted

Source: FEMA 2020, NOAA NCEI 2020

## 9.12.6 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 Hardyston 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 Hardyston 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 Hardyston has significant exposure.

#### **REPETITIVE FLOOD LOSSES**

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

- Number of repetitive loss (RL) properties: 0
- 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 9.12-12. Critical Facilities and Lifelines Flood Exposure

		Exposure		
Name	Туре	1% Event	0.2% Event	
22-192 Canistear Reservoir #1 Dam	Dam	Х	Х	

Source: Sussex County Planning Partnership 2020

Note: \*Identified lifeline

#### **IDENTIFIED ISSUES AND PROBLEM AREAS**

The jurisdiction has identified the following vulnerabilities within their community:





- The Township's DPW fuel station is a critical facility and provides essential services to the community. The station currently does not have a source of backup power. In the event of a power outage, the station can fuel municipal vehicles.
- Hardyston Township has over 4000 acres of State and Newark Watershed woods that in many cases backup to housing developments. This exposes many homes to wildfire and brush fire events.
- Colson Terrace experiences storm drainage issues during periods of rain. This reduces access to this road and the facilities located there, including the EMS and fire departments.
- It is unknown if the roof of the elementary school meets the current snow load standards.
- It is unknown if the windows of the elementary school are impact resistant.
- It is unknown if the windows on the southwest side of the municipal building are impact resistant.
- Due to the current COVID-19 pandemic, the Township has identified several areas in their buildings that could be enhanced to reduce expose to bacteria and viruses.
- The Township currently does not have an adopted debris management plan. Without a plan in place, there are no identified resources in place to properly address debris and do not have identified locations for debris storage.
- The Township's current flood damage prevention ordinance was last adopted in 2011. It currently does not have a freeboard requirement and does not meeting New Jersey's minimum requirement.

### HAZARD RANKING

This section summarizes the jurisdiction's primary hazards of concern based on identified problems, impacts and the results of the risk assessment as presented in Section 4 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; its potential impacts on people, property, and the economy; community capability and changing future climate conditions. This input supports the development of mitigation actions, targeting those hazards with the highest level of concern.

As discussed in Section 4.4 (Hazard Ranking), each plan participant may have differing degrees of risk exposure and vulnerability compared to Sussex County as a whole. Therefore, the Township of Hardyston ranked each hazard's degree of risk as it pertains to their community factoring in their capabilities to withstand impacts and rebound after the event. The table below summarizes the hazard rankings of potential hazards for the Township of Hardyston. The Township of Hardyston has reviewed the Sussex County hazard ranking table and has provided input to its individual results to reflect the relative risk of the hazards of concern to the community. During the review of the hazard ranking, the Township of Hardyston agreed with the calculated hazard rankings.

Dam Failure	Disease Outbre	ak Drought	Earthqu		e Flood		Geologic
Medium	Medium	Medium	Mediur		Medium		Low
Hazardous Materials Medium	Hurricane and Tropical Storm High	Invasive Species Medium	Nor'Easter High	Wea	rere ther gh	Severe Winter Weather High	Wildfire Medium

### Table 9.12-13. Township of Hardyston Hazard Ranking

## 9.12.7 Mitigation Strategy and Prioritization

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





#### PAST MITIGATION INITIATIVE STATUS

The following table summarizes the jurisdiction's progress on their mitigation strategy identified in the 2016 HMP. Actions that are carried forward as part of this plan update are included in Table 9.11-15 and Table 9.11-16 with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and can also be found under 'Capability Assessment' presented previously in this annex.

			Status (In Progress, No		the 2021 HMP odate?
2016 Actio	n Number Action Description	Responsible Party	Progress, Ongoing Capability, or Completed)	Check if Yes	Enter 2021 HMP Action #
Hardyston- 1 (new)	Ensure continuity of operations at critical facilities and municipal buildings: Hardyston Township Critical Facilities Generators	OEM	Fire Houses and Police/Dispatch complete. DPW and fuel station no funding	X (for DPW)	2021- Hardyston- 001
Hardyston- 2 (old #1)	Implement Fire Wise Program throughout Township. Create an education program and set up town hall meetings.	OEM Coordinator	No progress	X	2021- Hardyston- 002
Hardyston- 3 (old #3)	Stormwater management study to correct storm drainage system located on Colson Terrace.	DPW and OEM	No progress	X	2021- Hardyston- 003
Hardyston- 4 (revised old #4)	Conduct engineering study to determine the correct actions for retrofitting the roof of the elementary school to meet current snow load standards. Once completed, identify mitigation actions to correct the problem.	School Board Administrator	No Progress	Х	2021- Hardyston- 004
Hardyston- 5 (revised #5)	Conduct engineering study to determine the correct actions for retrofitting the gymnasium windows of the elementary school to make them impact resistant. Once completed, identify mitigation actions to correct the problem.	School Board Administrator	No Progress	Х	2021- Hardyston- 005
Hardyston- 6 (revised #6)	Conduct engineering study to determine the correct actions for retrofitting the windows on the southwest side of the municipal building to make them impact resistant. Once completed, identify mitigation actions to correct the problem.	Township Manager	No Progress	Х	2021- Hardyston- 004
Hardyston- 7 (revised #7)	Educate citizens on hazard mitigation and preparedness through Town Hall meetings and outreach programs.	OEM Coordinator	Ongoing/In Progress - meetings with lake and development associations on going	-	-
Hardyston- 8	Establish a line item for mitigation project funding in	Township	Ongoing Capability	-	-

### Table 9.12-14. Status of Previous HMP Mitigation Actions





			Status (In Progress, No		the 2021 HMP odate?
2016 Actio	n Number Action Description	Responsible Party	Progress, Ongoing Capability, or Completed)	Check if Yes	Enter 2021 HMP Action #
(new)	both the municipal budget and Capital Improvement Plan.				
Hardyston- 9 (new)	Adopt and enforce codes and standards beyond FEMA and state NFIP minimum requirements.	Township	In Progress	х	2021- Hardyston- 009
Hardyston- 10 (new)	Where applicable, Township job descriptions will incorporate hazard mitigation.	Township	Ongoing Capability	-	-
Hardyston- 11 (new)	Incorporate hazard mitigation in the daily practice of the Township; all projects identified in Township's annex will be a goal of the municipality.	Township	Ongoing Capability - Hardyston Twp. develops 5 year plans which address risk management	-	-
Hardyston- 12 (new)	Establish a community resilience committee and advisor for the Township which will increase the Township's capacity to prepare for, mitigate, respond to and recover from hazard events in the community.	Township Administration, OEM Coordinator	Township OEM	-	-
Hardyston- 13 (new)	Provide informational handouts or meetings to share best practices of hazard mitigation and increase the knowledge of mitigation throughout the Township.	Township Administration, OEM Coordinator	Available at town hall, adding to web pages	-	-
Hardyston- 14 (new)	Develop a continuity of operations (COOP) plan which will identify mitigation opportunities.	Township			
Hardyston- 15 (old #2)	Correct the stormwater drainage on Colson Terrace.	Township OEM and DPW	No Progress	Х	2021- Hardyston- 003

In addition to the above progress, the Township of Hardyston identified the following mitigation projects/activities that were completed but not identified in the 2016 HMP mitigation strategy:

None identified

### **PROPOSED HAZARD MITIGATION INITIATIVES FOR THE PLAN UPDATE**

The Township of Hardyston participated in a risk assessment workshop in October 2020 in which detailed information was provided about assets exposed and vulnerable to the identified hazards of concern. The Township of Hardyston participated in a mitigation action workshop in November 2020 and was provided a Mitigation Toolbox that included a mitigation catalog developed specifically for Sussex County and its hazards of concerns; challenges and opportunities identified during the capability and risk assessments; mitigation funding sources, and 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). Section 6 (Mitigation Strategy) and Appendix F (Mitigation Strategy Supplement) provide a more complete description of the Mitigation Toolbox and its resources.

Table 9.11-15 summarizes the comprehensive-range of specific mitigation initiatives the Township of Hardyston would like to pursue in the future to reduce the effects of hazards. Initiatives are dependent upon available 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 9.11-16 provides a summary of the prioritization of all proposed mitigation initiatives for this HMP update.



### Table 9.12-15. Proposed Hazard Mitigation Initiatives

Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
2021- Hardyston- 001	DPW Fuel Station Generator	<b>Problem</b> : The Township's DPW fuel station is a critical facility and provides essential services to the community. The station currently does not have a source of backup power. In the event of a power outage, the station can fuel municipal vehicles. <b>Solution:</b> Determine the proper size	Existing	All	2, 6	Engineering, DPW, Township Administration	FEMA HMGP, Township Budget	Continuity of operations; provide fuel to municipal vehicles	\$100,000	Within 2 years	High	SIP	ES
		permanent generator for the fuel station; once determined, purchase and install generator.											
2021- Hardyston- 002	Firewise Program	<ul> <li>Problem: Hardyston Township has over 4000 acres of State and Newark Watershed woods that in many cases backup to housing developments. This exposes many homes to wildfire and brush fire events.</li> <li>Solution: The Township will follow the proper steps in applying for and becoming a Firewise community. This includes forming a board/committee, obtaining a wildfire risk assessment, developing an action plan, and hosting outreach events and programs. The Township will also create an education program and set up town hall meetings.</li> </ul>	Existing	Wildfire	1, 2, 3	Township Administration, Fire Department	Township budget	Increase wildfire awareness, provide grant opportunities for Township	<\$20,000	Within 4 years	Medium	LPR, EAP	PI, ES
2021- Hardyston- 003	Colson Terrace Study	<ul> <li>Problem: Colson Terrace experiences storm drainage issues during periods of rain. This reduces access to this road and the facilities located there, including the EMS and fire departments.</li> <li>Solution: Conduct an engineering study to determine the drainage issues on Colson Terrace. Once study is complete and solutions are identified, obtain funding to</li> </ul>	Existing	Flood, Hurricane, Nor'Easter, Severe Weather, Severe Winter Weather	1, 2, 5	Engineering, DPW, Township Administration	Township Budget, FEMA BRIC and HMGP	Identify drainage issues and provide solutions to reduce or alleviate the problem	\$50,000+	Within 2 years	High	LPR. SIP	PR, SP





Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution implement best solution to alleviate the drainage issues.	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
2021- Hardyston- 004	Engineering Study (roof) on Elementary School	Problem: It is unknown if the roof         of the elementary school meets the         current snow load standards.         Solution: Conduct engineering         study to determine the correct         actions for retrofitting the roof of         the elementary school to meet         current snow load standards. Once         completed, identify mitigation         actions to correct the problem	Existing	Severe Winter Weather, Nor'Easter	1, 2, 4	School Board Administration	School and Township Budgets	Identifies any required actions to protect the facility	\$25,000	Within 3 years	Medium	LPR, SIP	PR
2021- Hardyston- 005	Engineering Study (windows) on Elementary School	<ul> <li>Problem: It is unknown if the windows of the elementary school are impact resistant.</li> <li>Solution: Conduct engineering study to determine the correct actions for retrofitting the gymnasium windows of the elementary school to make them impact resistant. Once completed, identify mitigation actions to correct the problem.</li> </ul>	Existing	Severe Weather, Hurricane, Nor'Easter	1, 2, 4	School Board Administration	School and Township Budgets	Identifies any required actions to protect the facility	\$25,000	Within 3 years	Medium	LPR, SIP	PR
2021- Hardyston- 006	Engineering Study on Municipal Building	<ul> <li>Problem: It is unknown if the windows on the southwest side of the municipal building are impact resistant.</li> <li>Solution: Conduct engineering study to determine the correct actions for retrofitting the windows on the southwest side of the municipal building to make them impact resistant. Once completed, identify mitigation actions to correct the problem.</li> </ul>	Existing	Severe Weather, Hurricane, Nor'Easter	1, 2, 4	Township Administration	Township budget	Identifies any required actions to protect the facility	\$25,000	Within 3 years	Medium	LPR, SIP	PR
2021- Hardyston- 007	Enhance Municipal Buildings	<b>Problem</b> : Due to the current COVID-19 pandemic, the Township has identified several areas in their buildings that could be enhanced to reduce expose to bacteria and viruses.	Existing	Disease Outbreak	1, 2, 5	Township Administration	Township budget	Increase protection from diseases; decrease risk of spread	\$50,000+	Within 5 years	Medium	SIP	ES, PR





Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution Solution: The Township will upgrade the bathroom facilities in the town hall, EMS, police station, and fire department to touchless toilets and sinks. This will reduce exposure to germs and provide safer	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
2021- Hardyston- 008	Develop Debris Management Plan	<ul> <li>environments for municipal staff.</li> <li>Problem: The Township currently does not have an adopted debris management plan. Without a plan in place, there are no identified resources in place to properly address debris and do not have identified locations for debris storage.</li> <li>Solution: The Township will develop a debris management plan that will assist the municipality when they need to facilitate response and recovery after a debris-causing incident. The plan will provide direction to facilitate and coordinate the management of debris following a disaster.</li> </ul>	Existing	Flood, Hurricane, Nor'Easter, Severe Weather, Severe Winter Weather, Wildfire	3, 5, 6	OEM, Public Works	Township budget	Increased disaster capability and preparedness	Staff time	1 year	High	LPR	ES
2021- Hardyston- 009	Update Flood Damage Prevention Ordinance	<ul> <li>Problem: The Township's current flood damage prevention ordinance was last adopted in 2011. It currently does not have a freeboard requirement and does not meeting New Jersey's minimum requirement.</li> <li>Solution: The Township will update its flood damage prevention ordinance to meet the New Jersey requirement of one foot of freeboard.</li> </ul>	New and Existing	Flood	1, 2	Township Administration, Construction Official	Township budget, FEMA BRIC	Meet state standards, reduce future flood risk	Staff time	6 months	High	LPR	PR

Notes:

#### Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works

- 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

<u>Cost:</u>





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

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 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. 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 preserve or restore the functions of natural systems. 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. 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.





Initiative Number	Mitigation Initiative Name	Life Safety	Property Protection	Cost Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2021-Hardyston-001	DPW Fuel Station Generator	1	1	1	1	1	1	0	0	0	1	1	1	1	0	10	High
2021-Hardyston-002	Firewise Program	1	1	1	1	0	0	1	1	0	1	0	1	0	0	8	Medium
2021-Hardyston-003	Colson Terrace Study	1	1	1	1	1	1	0	1	0	1	1	1	1	0	11	High
2021-Hardyston-004	Engineering Study (roof) on Elementary School	1	1	1	1	0	0	0	0	0	0	0	1	0	0	5	Medium
2021-Hardyston-005	Engineering Study (windows) on Elementary School	1	1	1	1	0	0	0	0	0	0	0	1	0	0	5	Medium
2021-Hardyston-006	Engineering Study on Municipal Building	1	1	1	1	1	1	0	0	0	1	0	1	0	0	8	Medium
2021-Hardyston-007	Enhance Municipal Buildings	1	1	1	1	1	1	0	0	0	1	0	1	0	0	8	Medium
2021-Hardyston-008	Develop Debris Management Plan	1	1	1	1	1	1	0	0	0	1	1	1	1	0	10	High
2021-Hardyston-009	Update Flood Damage Prevention Ordinance	1	1	1	1	1	1	1	0	0	1	0	1	1	0	10	High

Table 9.12-16. Summary of Evaluation and Action Priorities

Notes: Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



This action has been identified as being of highest importance to the municipality and an action that the municipality would like to complete as soon as funding is received.



Hazard	Prevention	Property Protection	Public Education and Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building
Dam Failure					Х	Х		Х
Disease Outbreak	Х				х	Х		Х
Drought					Х	Х		Х
Earthquake					Х	Х		Х
Flood	Х				Х	Х	Х	Х
Geologic					Х	Х		Х
Hazardous Materials					Х	Х		Х
Hurricane and Tropical Storm	Х				х	Х		Х
Invasive Species					х	X		Х
Nor'Easter	Х				X	Х		Х
Severe Weather	Х				х	X		Х
Severe Winter Weather	Х				х	Х		Х
Wildfire	Х		X		Х	Х		Х

### Table 9.12-17. Analysis of Mitigation Actions by Hazard and Category

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

high ranked hazard

ORANGE medium ranked hazard

YELLOW low ranked hazard





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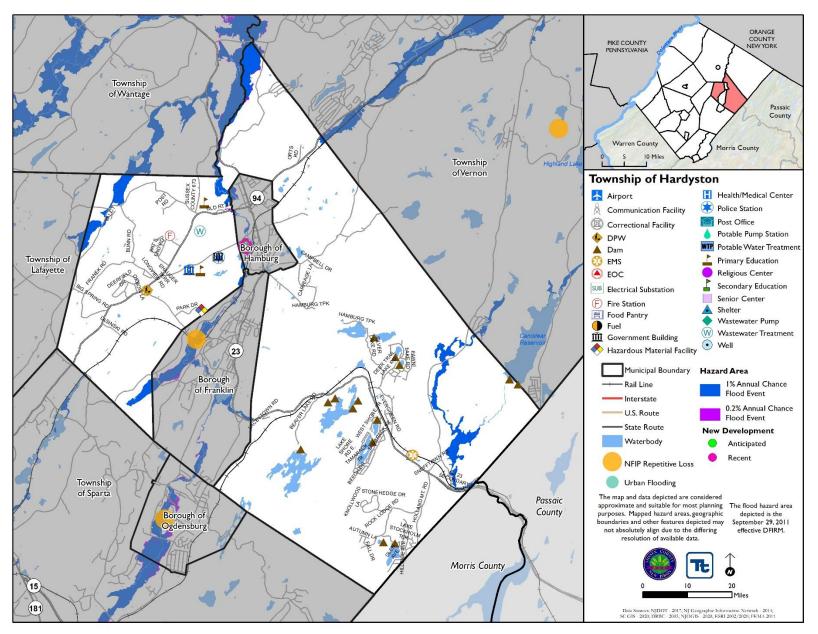


Figure 9.12-1. Township of Hardyston Hazard Area Extent and Location Map 1



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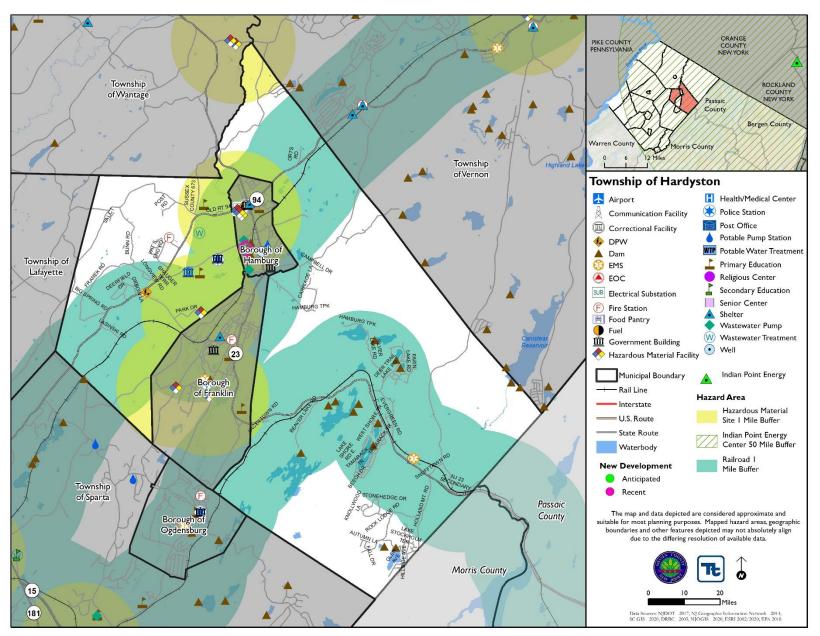


Figure 9.12-2. Township of Hardyston Hazard Area Extent and Location Map 2

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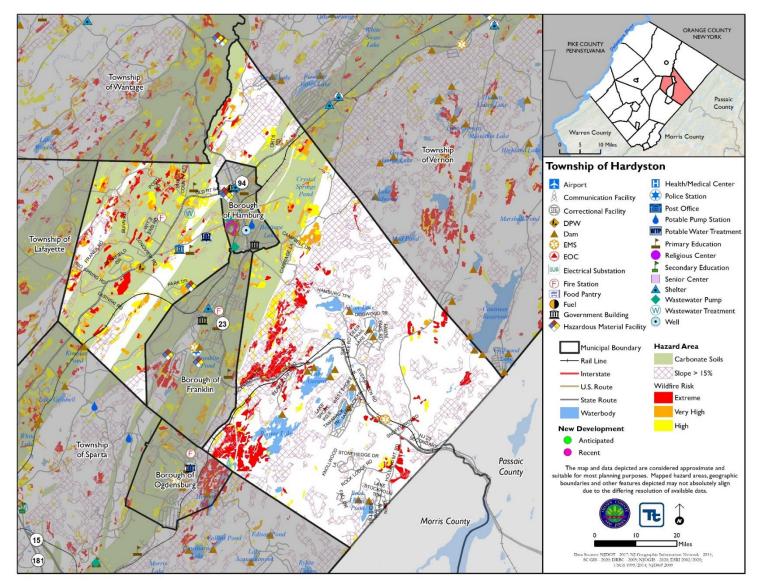


Figure 9.12-3 Township of Hardyston Hazard Area Extent and Location Map 3



	Action W	/orksheet							
Project Name:									
Project Number:	2021-Hardyston-001								
	Risk / Vu	Inerability							
Hazard(s) of Concern:	All								
Description of the Problem:	the community. The station	ation is a critical facility and pr currently does not have a sourc station can fuel municipal vehi	e of backup power. In the						
	Action or Project Inten	ded for Implementation							
Description of the Solution:	Determine the proper size p purchase and install generat	ermanent generator for the fue or.	l station; once determined,						
Is this project related to a C Lifeline?	Critical Facility or Yes	No 🗆							
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Continuity of operations; provide fuel to municipal vehicles						
Useful Life:	5 years	Goals Met:	2, 6						
Estimated Cost:	\$100,000	Mitigation Action Type:	SIP						
	Plan for Imp	olementation							
Prioritization:	High	Desired Timeframe for Implementation:	Within 2 years						
Estimated Time Required for Project Implementation:	Within 2 years	Potential Funding Sources:	FEMA HMGP, Township Budget						
Responsible Organization:	Engineering, DPW, Township Administration	Local Planning Mechanisms to be Used in Implementation if any:	N/A						
		lered (including No Action)							
	Action	Estimated Cost	Evaluation						
Alternatives:	No Action Install solar panels at fuel station	\$0 \$25,000+	Current problem continues Weather dependent; maintenance costs						
	Install wind turbine	\$25,000+	Weather dependent; maintenance costs						
	Progress Report (fo	r plan maintenance)							
Date of Status Report:									
Report of Progress:									
Update Evaluation of the Problem and/or Solution:									





	Actio	on Worksheet
Project Name:	DPW Fuel Station Gener	ator
Project Number:	2021-Hardyston-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Provide continuity of operations; allows building to operate during power outage
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Township has the legal authority to implement this project
Fiscal	0	The Township will need funding to complete project
Environmental	0	No environmental impacts
Social	0	No social impacts
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	To be completed within 2 years
Agency Champion	1	
Other Community Objectives	0	
Total	10	
Priority (High/Med/Low)	High	



	Action W	orksheet							
Project Name:	Colson Terrace Study								
Project Number:	2021-Hardyston-003								
	Risk / Vulnerability								
Hazard(s) of Concern:	Flood, Hurricane, Nor'Easter	, Severe Weather, Severe Winte	er Weather						
Description of the Problem:	access to this road and the fa departments.	storm drainage issues during p Icilities located there, including							
	Action or Project Inten	ded for Implementation							
Description of the Solution:		y to determine the drainage iss ons are identified, obtain fundin nage issues.							
Is this project related to a C Lifeline?	Critical Facility or Yes	□ No ⊠							
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Identify drainage issues and provide solutions to reduce or alleviate the problem						
Useful Life:	N/A	Goals Met:	1, 2, 5						
Estimated Cost:	\$50,000+	Mitigation Action Type:	LPR, SIP						
	Plan for Imp	olementation							
Prioritization:	High	Desired Timeframe for Implementation:	Within 2 years						
Estimated Time Required for Project Implementation:	Within 2 years	Potential Funding Sources:	Township Budget, FEMA BRIC and HMGP						
Responsible Organization:	Engineering, DPW, Township Administration	Local Planning Mechanisms to be Used in Implementation if any:	N/A						
		ered (including No Action)							
	Action	Estimated Cost	Evaluation						
Alternatives:	No Action Elevate buildings located along Colson Terrace	\$0 \$1 million+	Current problem continues Costly; not feasible; not all buildings sustain flood damage						
	Elevate roadway	\$100,000+	Costly; can lead to access issues to buildings						
	Progress Report (fo	r plan maintenance)							
Date of Status Report:									
Report of Progress:									
Update Evaluation of the Problem and/or Solution:									





	Actio	on Worksheet
Project Name:	Colson Terrace Study	
Project Number:	2021-Hardyston-003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Protect buildings along roadway; allow critical facilities to be accessible
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Township has jurisdiction to implement this project
Fiscal	0	Need grant funding to complete projects
Environmental	1	
Social	0	No social impacts
Administrative	1	The Township has the administrative capabilities to implement this project
Multi-Hazard	1	Flood, Hurricane, Nor'Easter, Severe Weather, Severe Winter Weather
Timeline	1	Within 2 years
Agency Champion	1	
Other Community Objectives	0	
Total	11	
Priority (High/Med/Low)	High	

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	Actio	on W	orksheet						
Project Name:	Update Flood Damage P	Jpdate Flood Damage Prevention Ordinance							
Project Number:	2021-Hardyston-009	021-Hardyston-009							
	Risk ,	/ Vul	nerability						
Hazard(s) of Concern:	Flood								
Description of the Problem:	It currently does not hav minimum requirement.	ve a f	d damage prevention ordinanc reeboard requirement and doe						
	Action or Project Ir	nten	ded for Implementation						
Description of the Solution:			s flood damage prevention ordi et for non-critical structures ar						
Is this project related to a ( Lifeline?	Critical Facility or Y	es	□ No ⊠						
Level of Protection:	N/A		Estimated Benefits (losses avoided):	Meet state standards, reduce future flood risk					
Useful Life:	N/A								
Estimated Cost:	Minimal – staff time		Mitigation Action Type:	LPR					
	Plan for	' Imp	lementation						
Prioritization:	High		Desired Timeframe for Implementation:	6 months					
Estimated Time Required for Project Implementation:	6 months		Potential Funding Sources:	Township budget, FEMA BRIC					
Responsible Organization:	Township Administratio Construction Official	on,	Local Planning Mechanisms to be Used in Implementation if any:	N/A					
	Three Alternatives Co	nsid	ered (including No Action)						
	Action		Estimated Cost	Evaluation					
	No Action Acquire all structures i	in	\$0	Current problem continues Not feasible; loss tax base;					
Alternatives:	the floodplain	ш	\$1 million+	not all properties flood					
	Update Flood Damage Prevention Ordinance		Staff time	Solution selected					
			r plan maintenance)						
Date of Status Report:									
Report of Progress:									
Update Evaluation of the Problem and/or Solution:									





Action Worksheet		
Project Name:	Update Flood Damage Prevention Ordinance	
Project Number:	2021-Hardyston-009	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Protect buildings located in the floodplain
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Township has jurisdiction to implement this project
Fiscal	1	Funded through municipal budget/staff time
Environmental	0	No environmental impacts
Social	0	No social impacts
Administrative	1	The Township has the administrative capabilities to implement this project
Multi-Hazard	0	Flood
Timeline	1	To be completed within 6 months
Agency Champion	1	
Other Community Objectives	0	
Total	10	
Priority (High/Med/Low)	High	