



## 9.6 Township of Frankford

This section presents the jurisdictional annex for the Township of Frankford.

### 9.6.1 Hazard Mitigation Plan Point of Contact

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

Primary Point of Contact	Alternate Point of Contact
Patricia Bussow, RMC/CMR, Municipal Clerk Frankford Township Municipal Building 151 US Highway 206, Augusta NJ 07822 973-948-5566 <a href="mailto:clerk@frankfortwp-nj.com">clerk@frankfortwp-nj.com</a>	Kenny French, Fire Chief 973-903-9616

### 9.6.2 Municipal Profile

Frankford Township is geographically located in the center of Sussex County. It encompasses 34.8 square miles and contains two natural lakes, Culver Lake and Lake Owassa, and the Kittatinny Mountains. According to the U.S. Census, the 2010 population for the Township of Frankford was 5,565. The Township is bordered to the north by Montague Township, to the northeast by the Township of Wantage, to the east by Lafayette Township, to the south by Hampton Township and to the west by the Townships of Sandyston and Walpack. Papakating Creek, Dry Brook, Paulins Kill, and Culvers Creek all flow throughout the Township. The following unincorporated communities are located within the Township: Culvers Inlet, Mount Pisgah, Augusta, Ross' Corner, Northrup, Plains, Armstrong, Pelletown, and Wykertown.

### Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in Section 9.6.8 of this annex which illustrates the hazard areas along with the location of potential new development.

**Table 9.6-1. Growth and Development**

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Block & Lot)	Known Hazard Zone(s)	Description/Status of Development
<b>Recent Development from 2010 to present</b>					
North Plains Holding / Wingles	Commercial (strip mall)	1	749 Route 565	Wildfire: High	Constructed and Occupied
<b>Known or Anticipated Development in the Next Five (5) Years</b>					
Sussex Commons	Commercial	TBD	Ross' Corner (Route 206 / Route 565)	None at this time	Site Plans Approved; State approved
Township Fire House	Emergency Response	1	390 Route 206 North B: 82 L: 7	None at this time	Approved; In Progress – clearing land
Waste Water Treatment Plant for Branchville	WWTP	Multiple	Route 206	Could not locate	Site located in Township but actually owned/operated by Branchville and County



Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Block & Lot)	Known Hazard Zone(s)	Description/Status of Development
Bentley Assisted Living	Residential	20 units	3 Phillips Road	None at this time	Approved; not started

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

### 9.6.3 Natural Hazard Event History Specific to the Municipality

Sussex County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. For the purpose of this plan update, events that have occurred in the County from 2008 to present were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.6-2. Hazard Event History

Date(s) of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
August 26 – September 5, 2011	Hurricane Irene	DR-4021	Yes	The Township had limited storm damage from this event. They had costs associated with debris cleanup and overtime for Township employees.
October 29, 2011	Severe Storm	DR-4048	Yes	This event resulted in down trees and power outages to the Township. The Township had costs associated with cleanup and overtime for employees.
October 26 – November 8, 2012	Hurricane Sandy	DR-4086	Yes	Hurricane Sandy caused widespread power outages to the Township. Most areas experienced power loss for five to seven days with some areas being without power for up to two weeks. Numerous roads were closed due to downed wires and trees. The Township had over \$32,000 in damages and overtime costs.

### 9.6.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The risk ranking methodology is presented in Section 5.3. However, each municipality had the opportunity to adjust the final ranking based on municipal feedback. The following summarizes the hazard vulnerabilities and their ranking in the Township of Frankford. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

#### Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the Township of Frankford.



Table 9.6-1. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard <sup>a, c</sup>	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>b</sup>
Dam Failure	Damage estimate not available	Occasional	24	Medium*
Drought	Damage estimate not available	Frequent	30	Medium
Earthquake	100-Year GBS: \$0 500-Year GBS: \$780,590 2,500-Year GBS: \$11,794,736	Occasional	28	Medium
Flood	1% Annual Chance: \$63,805,758	Frequent	18	Medium
Geologic	Exposed to Carbonate Rock Areas: \$84,219,174	Frequent	18	Medium*
Hurricane	100-year MRP: \$235,422 500-year MRP: \$2,755,493 Annualized: \$17,486	Frequent	48	High
Nor'Easter	Damage estimate not available	Frequent	48	High
Severe Weather	100-Year MRP: \$235,422 500-year MRP: \$2,755,493 Annualized: \$17,486	Frequent	48	High
Severe Winter Weather	1% GBS: \$10,285,668 5% GBS: \$51,428,340	Frequent	51	High
Wildfire	Estimated Value in the Extreme, Very High, and High Hazard Areas: \$106,366,352	Frequent	33	High
Hazardous Materials	Damage estimate not available	Frequent	36	High

Notes:

- \* The hazard ranking was changed due to the location of high hazard dams in the municipality
  - \* The hazard ranking was changed for this hazard based on input from the municipality, population exposed, and/or event history.
- GBS = General building stock; MRP = Mean return period.
- a. The general building stock valuation is based on the custom inventory generated for the municipality and based on improved value.
  - b. High = Total hazard priority risk ranking score of 31 and above  
Medium = Total hazard priority risk ranking of 15-30+  
Low = Total hazard risk ranking below 15
  - c. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the estimated value of contents. Loss estimates for the flood and earthquake hazards represent both structure and contents. Potential flood loss estimates were generated using Hazus-MH 3.0 and the 2011 FEMA DFIRM for the 1-percent annual chance event. For the geologic and wildfire hazards, the improved value and estimated contents of buildings located within the identified hazard zones is provided.



### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Township of Frankford.

Table 9.6-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 1% Flood Boundary (3)
Township of Frankford	24	5	\$61,459	0	0	7

Source: FEMA, 2014

Note (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA and are current as of November 31, 2014 and are summarized by Community Name. Please note the total number of repetitive loss properties excludes the severe repetitive loss properties. The number of claims represents claims closed by 11/31/2014.

Note (2) Total building and content losses from the claims file provided by FEMA Region 2.

Note (3) The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file.

Note (4) FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.

### Critical Facilities

The table below presents the number of critical facilities, by type, in the community located in the effective FEMA flood zones (1% and 0.2% annual chance boundaries).

Table 9.6-4. Number of Critical Facilities in the DFIRM 1% and 0.2% Annual Chance Flood Boundaries

Municipality	1% Annual Chance	0.2% Annual Chance
	Shelter	Shelter
Frankford, Township of	1	1

Source: Sussex County; FEMA, 2014

### Other Vulnerabilities Identified by Municipality

The Township identified the following vulnerable areas in the municipality:

- Union Turnpike – several homes in this area are prone to basement flooding during periods of heavy rain. The Township fire department responds to these homes to provide pumpouts of the basements.
- Culvers Lake – homes around the lake are prone to basement flooding during periods of heavy rain. The Township fire department responds to these homes to provide pumpouts of the basements.
- West Owassa Turnpike – during severe weather events (wind, rain, etc.), this area of the Township is prone to downed trees and power lines which lead to power outages. This requires debris cleanup after these events.

### 9.6.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Education/Outreach and Community classification
- Self-Assessment of Capability
- National Flood Insurance Program





- Community Rating System
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

**Planning and Regulatory Capability**

The table below summarizes the regulatory tools that are available to the Township of Frankford.

**Table 9.6-5. Planning and Regulatory Tools**

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
<b>Planning Capability</b>				
Master Plan	Yes	Local	Land Use Board	2004; updates along the way
Capital Improvements Plan	Yes	Local	Engineer	annually
Floodplain Management / Basin Plan	Yes	Local	Engineer	ASK HAROLD
Stormwater Management Plan	Yes	Local	Engineer	ASK HAROLD
Open Space Plan	Yes	Local	Open Space Commission	Updated in 2016 (part of Master Plan)
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	No			
Economic Development Plan	Yes	County	Economic Development Partnership	
Comprehensive Emergency Management Plan	No			
Emergency Response Plan	Yes	Local	OEM	PATTY WILL CHECK
Post-Disaster Recovery Plan	No			
Transportation Plan	No			
Strategic Recovery Planning Report	No			
Other Plans:	No			
<b>Regulatory Capability</b>				
Building Code	Yes	State and Local	Building Department	State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.) Chapter 7 – Building and Housing
Zoning Ordinance	Yes	Local	Land Use Board / Zoning	Chapter 30, Article 10 – Land Use/Zoning
Subdivision Ordinance	Yes	Local	Land Use Board	Chapter 15 – Land Subdivision
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State and Local	Engineer	Chapter 27 – Flood Damage Prevention
NFIP: Cumulative Substantial Damages	No			
NFIP: Freeboard	Yes	State and Local	Engineer	N.J.A.C 7:13 – Flood Hazard Area Control Act
Growth Management Ordinances	No			



**Table 9.6-5. Planning and Regulatory Tools**

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Site Plan Review Requirements	Yes			
Stormwater Management Ordinance	Yes	Local		Chapter 32 of municipal code
Municipal Separate Storm Sewer System (MS4)	No			
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	No	State	Division of Consumer Affairs	N.J.A.C. 13:45A-29.1
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]	Yes	Local		Chapter 20 – Environmental Protection Chapter 30, Article 6 – Land Use / Design and Development Principles and Standards

**Administrative and Technical Capability**

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

**Table 9.6-6. Administrative and Technical Capabilities**

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
<b>Administrative Capability</b>		
Planning Board	Yes	
Mitigation Planning Committee	No	
Environmental Board/Commission	No	
Open Space Board/Committee	Yes	Open Space Board; Parks Commission
Economic Development Commission/Committee	Yes	Economic Development Committee
Maintenance Programs to Reduce Risk	Yes	
Mutual Aid Agreements	Yes	
<b>Technical/Staffing Capability</b>		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	Professional services agreement with Engineer
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Professional services agreement with Engineer
Planners or engineers with an understanding of natural hazards	Yes	Professional services agreement with Engineer
NFIP Floodplain Administrator	Yes	Township Engineer per municipal code
Surveyor(s)	No	
Personnel skilled or trained in GIS and/or Hazus-MH applications	No	



**Table 9.6-6. Administrative and Technical Capabilities**

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Scientist familiar with natural hazards	No	
Emergency Manager	Yes	Chuck Konecke – appointed
Grant Writer(s)	No	
Staff with expertise or training in benefit/cost analysis	No	
Professionals trained in conducting damage assessments	Yes	

**Fiscal Capability**

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

**Table 9.6-7. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
Impact Fees for homebuyers or developers of new development/ homes	No
Stormwater Utility Fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other Federal or State Funding Programs	No
Open Space Acquisition Funding Programs	Yes
Other	No

**Education/Outreach and Community Classifications**

The table below summarizes education/outreach programs the community participates in and the classifications for community program available to the Township of Frankford.

**Table 9.6-8. Education/Outreach and Community Classifications**

Program	Do you have/participate in this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	NP	
Building Code Effectiveness Grading Schedule (BCEGS)	No		
Public Protection (ISO Fire Protection Classes 1 to 10)	No		
Storm Ready	No	NP	
Firewise	No	NP	
Disaster/Safety Programs in/for Schools			



**Table 9.6-8. Education/Outreach and Community Classifications**

Program	Do you have/participate in this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Organizations with Mitigation Focus (advocacy group, non-government)	No		
Public Education Program/Outreach (through website, social media)	Yes		
Public-Private Partnerships	No		

NP = Not participating

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery, and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The Community Rating System (CRS) class applies to flood insurance while the Building Code Effectiveness Grading Schedule (BCEGS) and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1,000 feet of a creditable fire hydrant and is within five road miles of a recognized fire station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO’s Public Protection website at <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>

**Self-Assessment of Capability**

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

**Table 9.6-9. Self-Assessment of Capability**

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability		X	
Community Political Capability		X	
Community Resiliency Capability		X	
Capability to Integrate Mitigation into Municipal Processes and Activities.		X	







**National Flood Insurance Program**

**NFIP Floodplain Administrator (FPA)**

Harold Pellow, Engineer

**Flood Vulnerability Summary**

ADD INFO FROM FPA HERE

**Resources**

ADD INFO FROM FPA HERE

**Compliance History**

ADD INFO FROM FPA HERE

**Regulatory**

ADD INFO FROM FPA HERE

**Community Rating System**

The Township of Frankford does not participate in the Community Rating System (CRS) program.

**Integration of Hazard Mitigation into Existing and Future Planning Mechanisms**

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of their community’s progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

**Planning**

**Land Use Planning:** The Township has a Joint Land Use Board which reviews all applications for development and consider natural hazard risk areas in their review.

The Township began updating its Master Plan in 2000 and several elements have been drafted since then including a Recreation and Open Space Master Plan (2001), a Center Plan (April 2006), a draft Farmland Preservation Plan and Transfer of Development Rights Plan. The Township has begun a Natural Resources Inventory for the Township and will be completing a Capital Improvement Program and Utility Services Plan for the Center.

**Frankford Master Plan 2000:** An update to the Township’s Master Plan was adopted by the Land Use Board on November 29, 2000 and included a land use element, housing element, conservation element, open space and recreation element and circulation element. The Master Plan process included two public hearings and a public workshop to go over the planning process and get input. The Plan included the following applicable goals:

- A. Preserve the Township’s natural resources and ecological balance within the context of permitting appropriate development based on sound planning and engineering principles. (2000 Master Plan)
- B. Encourage resource recovery and recycling of materials consistent with the State laws. (2000 Master Plan)





- C. Provide a comprehensive system of integrated and interconnected open space areas, parks and public plazas to meet the needs of residents, employees and visitors. (Center Plan)
- D. Protect and preserve identified exceptional valued land for surface and ground water recharge, threatened and endangered species habitats, high valued wetlands, steep sloped areas and large forested land areas. (Open Space and Recreation Master Plan).

The plan also included the following recommendations:

1. Cluster subdivisions are encouraged on tracts greater than 40 acres to minimize construction costs and future municipal maintenance costs, preserve environmentally sensitive land, woodlands and scenic or historic places. The clustering and lot averaging should provide minimum and maximum lot acres with an overall average of 2 acres with environmental and sensitive areas area calculations included. A minimum open space requirement of 45% is dedicated as public or private with an option for farmland preservation. The average lot area shall be 2 acres of non-critical land as defined in the ordinance. The bulk requirements will be as defined in the ordinance.
2. The Land Use Board should monitor the proposed State regulations on Watershed Management and the Wastewater Management Rules and respond as needed to protect the local planning process and the natural environment.

**Open Space and recreation Plan 2001:** The Frankford Township Committee created by ordinance in April of 1999, an Open Space, Recreation, Farmland Preservation and Historic Preservation Committee. This committee developed an Open Space and Recreation Master Plan according to the recommendations from the 2000 Master Plan Open Space and Recreation Element. The purpose of the Open Space and Recreation Plan, which was adopted in September 2001, was to identify and prioritize open space land, develop acquisition strategies and cultivate funding resources to preserve land for open space, resource protection, farming and recreation. The plan process included one public hearing in front of the Land Use Board. The Plan includes the following goals and objectives.

1. Preserve the natural mountain ridgelines to protect the scenic views and vistas in Frankford Township.
2. Protect and preserve identified exceptional valued land for surface and ground water recharge, threatened and endangered species habitats, high valued wetlands, steep sloped areas and large forested land areas.
3. Establish and maintain natural greenways to link animal and bird migratory routes.
4. Encourage the preservation of farmland through the State and County easement purchase programs to compliment the Land Use Plan Element of the Municipal Master Plan.
5. Ensure adequate open space and recreational for the Frankford citizens based on National and State standards and recommendations and identify potential land for purchase.
6. Establish greenways for walking and bicycle riding to create linkages throughout the community and to adjacent communities. Utilize existing trails, railroad easements and natural stream corridors to interconnect the uses.
7. Enhance the existing park and recreational areas in the Township by identifying adjacent properties for purchase as active or passive parkland.
8. Identify environmentally sensitive and prime agricultural land under development pressure.
9. Identify Federal, State and County funding programs to implement the recommendations of the Open Space Master Plan.

**Frankford Transfer of Development Rights Plan 2007:** This plan included the identification of natural hazard risk areas like floodplains, wetlands, and steep slopes. The plan prioritizes development right transfers to areas that would be less prone to these risk.



## Regulatory and Enforcement (Ordinances)

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The Township has multiple chapters pertaining to the mitigation of hazards. These ordinances include the Flood Damage Prevention Chapter, Stormwater Control Chapter, and an Environmental Impact Statement requirement included in the Site Plan Review Chapter.

### **Chapter XXVII: Flood Damage Prevention**

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:

- A. To protect human life and health;
- B. To minimize expenditure of public money for costly flood control projects;
- C. To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
- D. To minimize prolonged business interruptions;
- E. To 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. To help maintain a stable tax base by providing for the alternate use and development of areas of special flood hazard so as to minimize future flood blight areas;
- G. To ensure that potential buyers are notified that property is in an area of special flood hazard; and
- H. To ensure that those who occupy the areas of special flood hazard assume responsibility for their actions.

### **Chapter XXXII: Stormwater Control**

The purposed of the Stormwater Control Chapter is to implement best management practices for stormwater management designed to promote the public health, safety and general welfare of the Townships' citizens and businesses.

### **Article 6 Section 30-613 Environmental Impact Statement**

Frankford's natural environment is its most important physical resource. Appreciation of the environment's natural features is a matter of vital interest and attraction to the Township's citizenry and visitors, and the impact of development on the environment must therefore be accorded close scrutiny. Moreover, since Frankford's economic base is heavily dependent upon outdoor recreation and related tourism, environmental impact analysis is intrinsic to broad community impact, including fiscal impact. The 2000 Master Plan, particularly in its Conservation Plan Element, contemplates improved standards for analysis of environmental impact. It is the purpose of this section to implement the same.

The Township has identified a new mitigation initiative to incorporate risk assessment and hazard mitigation principles into comprehensive planning efforts. Refer to Table 9.6-10 for further information.

## Operational and Administration

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The Township has established a Joint Land Use Board and an Open Space Committee, that aid in planning decisions to support the conservation and preservation of the Township's critical environmental features. Beyond that the Township employs and Planning Board Secretary and contracts out for professional legal, planning, and engineering services for development review. The Township also employees several part time employees for the enforcement of zoning, construction, and environmental commission liaison employee.



### Funding

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**Operating Budget:** The Township’s operating budget contains minimal provisions for expected repairs like snow removal and infrastructure repair after a storm or natural disaster. The Township has received funding from the NJDOT and The Garden State Preservation Trust Fund grant programs. The Township’s 2014 Capital Budget includes line items for improvements to the Municipal Building, as well as a number of drainage and roadway improvements.

### Education and Outreach

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The Township’s website posts information regarding upcoming community events and important municipal decisions on the home page. The Township identified a new mitigation initiative continue to develop and enhance their public outreach and education program on mitigation-related issues. Refer to Table 9.6-10 for further information.

## 9.6.6 Mitigation Strategy and Prioritization

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

### Past Mitigation Initiative Status

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The following table indicates progress on the community’s mitigation strategy identified in the 2011 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.

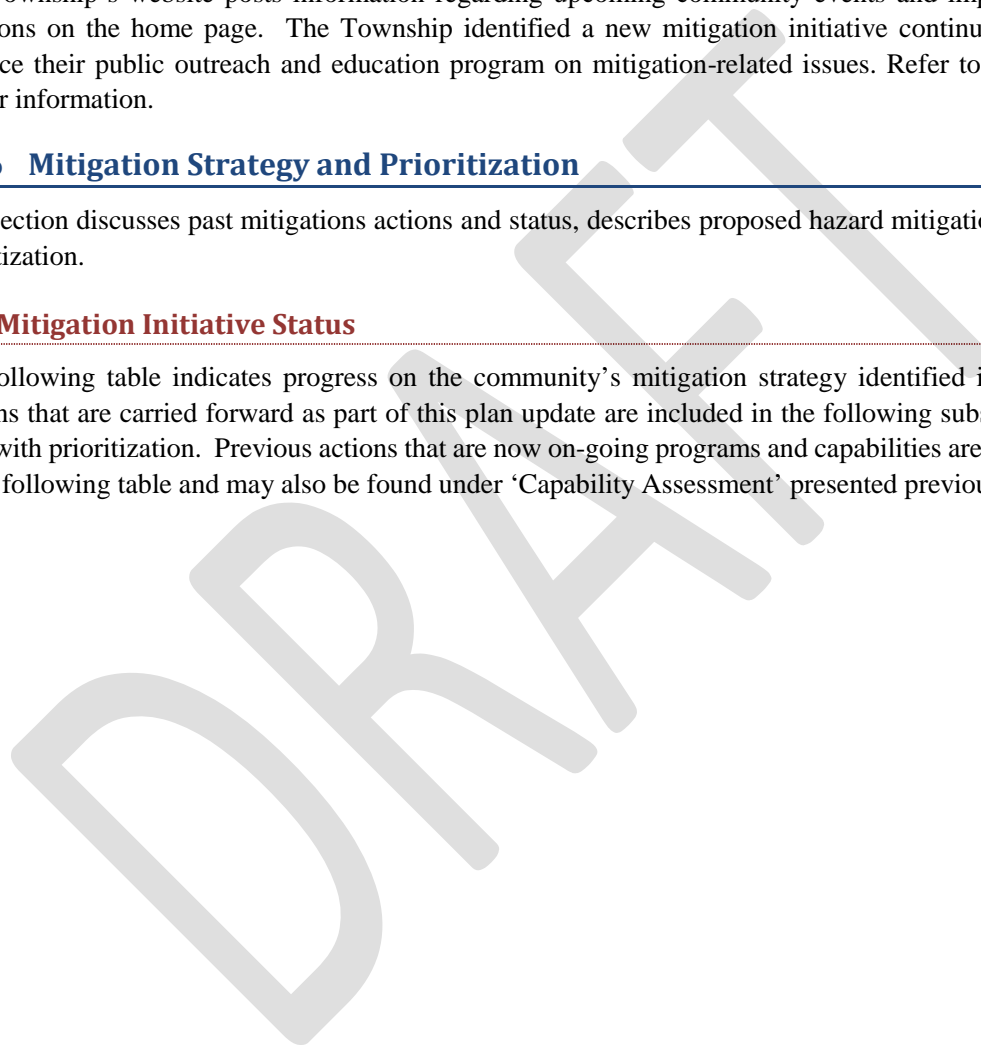




Table 9.6-10. Past Mitigation Initiative Status

<b>Initiative Number</b>	<b>2011 Mitigation Action</b>	<b>Responsible Party</b>	<b>Status (In progress, No progress, Complete)</b>	<b>Describe Status</b> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<b>Next Step (Include in 2016 HMP? or Discontinue)</b>	<b>Describe Next Step</b> 1. If including action in the 2015 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Frankford Township 1	Backup generator for Frankford Township Volunteer Fire Department 1 located on US Highway 206. Facility is used as a shelter and backup EOC.	Station Commander	In Progress	The Township has applied for a grant to obtain the generator. The grant has been submitted and the Township is awaiting approval.	Included in the 2016 HMP	Purchase and install a backup generator for the Township fire department located on Route 206.
Frankford Township 2	Upgrade and improvement of culverts on access road to Culver Lake fire tower located on the top of Sunrise Mountain.	DPW Supervisor	No Progress	The Township has no jurisdiction over this land; owned by the State of New Jersey (state land).	Discontinue	The Township has no jurisdiction over this land; owned by the State of New Jersey (state land). This action will not be included in the 2016 HMP.
Frankford Township 3	Backup generator for Culver Lake Fire Tower located on top of Sunrise Mountain.	Station Commander	No Progress	The Township has no jurisdiction over this land; owned by the State of New Jersey (state land).	Discontinue	The Township has no jurisdiction over this land; owned by the State of New Jersey (state land). This action will not be included in the 2016 HMP.
Frankford Township 4	Backup generator for municipal offices and court located on U.S. Hwy 206. Facility is primary EOC.	DPW Supervisor	In Progress	The Township has applied for a grant to obtain the generator. The grant has been submitted and the Township is awaiting approval.	Included in the 2016 HMP	Purchase and install a backup generator for the Township municipal building located on Route 206.
Frankford Township 5	Provide backup generator for the Administration Building at the Sussex County Fair site located on Plains Road. This facility also serves as an EMS site and Primary Point of Distribution for both medical and commodities supplies.	DPW Administrator	No Progress	The Sussex County Fairgrounds is not owned by the Township; therefore, the Township has no jurisdiction over this property.	Discontinue	The Sussex County Fairgrounds is not owned by the Township; therefore, the Township has no jurisdiction over this property. This action will not be included in the 2016 HMP.
Frankford Township 6	Provide an all-hazards public education outreach program on mitigation related issues	OEM Coordinator	In Progress	This is an ongoing action; the Township provides public outreach to its residents regarding hazard mitigation.	Include in 2015 HMP	This is an ongoing action; the Township will continue to develop and enhance their public outreach and education programs.



<u>Initiative Number</u>	<u>2011 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status (In progress, No progress, Complete)</u>	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step (Include in 2016 HMP? or Discontinue)</u>	<u>Describe Next Step</u> 1. If including action in the 2015 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Frankford Township 7	Mountain snowmelt and rain runoff analysis for the area of Upper North Shore to Lower North Shore at the water edge of Culver Lake, from Sunkin Road to New Street.	Township Engineer	Complete	The Township Engineer conducted the study which involved state and county participation.	Discontinue	This action has been completed.
Frankford Township 8	Installation of a storm warning system for severe weather affecting the Sussex County Fairgrounds on Plains Road.	OEM Coordinator	No Progress	The Township does not have jurisdiction over the Sussex County Fairgrounds.	Include in 2015 HMP	Install a storm warning system on the new firehouse located on Route 206.
Frankford Township 9	Conduct all-hazards public education and outreach program for hazard mitigation and preparedness.	OEM Coordinator, in coordination with SCDEM	In Progress	This is an ongoing action; the Township provides public outreach to its residents regarding hazard mitigation.	Include in 2015 HMP	This is an ongoing action; the Township will continue to develop and enhance their public outreach and education programs.





### **Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy**

The Township has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2011 Plan:

- The Township road department repairs or replaces culverts as necessary
- A generator has been installed at the Frankford Township School, which is used as a shelter during an emergency.

### **Proposed Hazard Mitigation Initiatives for the Plan Update**

In April 2015, the County held a mitigation action workshop for the participating municipalities and each municipality was provided with 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). In May 2015, a second workshop was led by FEMA Region 2 and NJOEM and they provided the results to the risk assessment to further assist the municipalities with the identification of mitigation actions. Additionally, the Township participated in an annex support meeting in October 2015 where they identified and finalized the mitigation actions for the community.

Table 9.6-11 summarizes the comprehensive-range of specific mitigation initiatives the Township would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as ‘High’, ‘Medium’, or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.6-12 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



**Table 9.6-11. Proposed Hazard Mitigation Initiatives**

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
Frankford-1	Ensure continuity of operations. Purchase and install generators for critical facilities in the Township: <ul style="list-style-type: none"> <li>• Fire Department – Stations 1 &amp; 2</li> <li>• Municipal Building</li> </ul>	Existing	All	1, 3, 6	Township	High	High	HMPG with local cost share	Short Term / DOF	High	SIP	PP
Frankford-2	Incorporate risk assessment and hazard mitigation principles into comprehensive planning efforts.	N/A	All	All	Township	High	Low	Township Budget	On Going	High	LPR	PR
Frankford-3	Conduct an engineering study to identify the flooding issues on Culvers Lake and Union Turnpike. Once study is completed, identify mitigation strategies to correct this issue.	Existing	Flood, Severe Weather	All	Engineering	High	Low	Grant Funding, Township Budget	Short Term / DOF	Medium	SIP	PP
Frankford-4	Upgrading of culverts on Ridge Road and Plains Road. This area tends to accumulate water during heavy rain events.	Existing	Flood, Severe Weather		DPW, Engineering	Medium to High	Low to Medium	Grant Funding, Township Budget	Short Term / DOF	Medium	SIP	PP
Frankford-5	Continue to develop and enhance the Township's public outreach and education program on mitigation related issues. Provide information on all types of hazards, preparedness and mitigation measures, and responses on the Township website.	N/A	All	All	Township, OEM	Medium	Low	Township Budget	Ongoing	High	EAP	PI
Frankford-6	Install a storm warning system on the firehouse located on Route 206 once it is constructed.	New	All	All	Township OEM, Fire Department	High	Low to Medium	HMGP with local cost share	Short Term / DOF	Medium	SIP, EAP	PP, PI

**Notes:**

Not all acronyms and abbreviations defined below are included in the table.

\*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

**Acronyms and Abbreviations:**

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  
 NJDEP New Jersey Department of Environmental Protection  
 NJOEM New Jersey Office of Emergency Management  
 OEM Office of Emergency Management

PDM Pre-Disaster Mitigation Grant Program  
 HMA Hazard Mitigation Assistance Program

Potential FEMA HMA Funding Sources:

FMA Flood Mitigation Assistance Grant Program  
 HMGP Hazard Mitigation Grant Program

Timeline:

Short 1 to 5 years  
 Long Term 5 years or greater  
 OG On-going program  
 DOF Depending on funding

Costs:

Where actual project costs have been reasonably estimated:

Low < \$10,000  
 Medium \$10,000 to \$100,000  
 High > \$100,000

Where actual project costs cannot reasonably be established at this time:

Low Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.  
 Medium Could budget for under existing work plan, but would require a reappropriation of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.  
 High Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low= < \$10,000  
 Medium \$10,000 to \$100,000  
 High > \$100,000

Where numerical project benefits cannot reasonably be established at this time:

Low Long-term benefits of the project are difficult to quantify in the short term.  
 Medium Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.  
 High Project will have an immediate impact on the reduction of risk exposure to life and property.

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP)- These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- Natural Resource Protection (NR) - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities





Table 9.6-12. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
Frankford-1	Generators for critical facilities in the Township: <ul style="list-style-type: none"> <li>• Fire Department – Stations 1 &amp; 2</li> <li>• Municipal Building</li> </ul>	1	1	1	1	0	0	0	0	1	1	1	1	1	0	9	High
Frankford-2	Incorporate risk assessment and hazard mitigation principles into comprehensive planning efforts.	1	1	1	1	1	1	1	0	0	1	1	1	0	0	10	High
Frankford-3	Conduct an engineering study to identify the flooding issues on Culvers Lake and Union Turnpike. Once study is completed, identify mitigation strategies to correct this issue.	1	1	1	1	0	0	0	1	0	1	1	1	0	0	8	Medium
Frankford-4	Upgrading of culverts on Ridge Road and Plains Road. This area tends to accumulate water during heavy rain events.	1	1	1	1	0	0	0	1	0	1	1	1	0	0	8	Medium
Frankford-3	Continue to develop and enhance the Township's public outreach and education program on mitigation related issues. Provide information on all types of hazards, preparedness and mitigation measures, and responses on the Township website.	1	1	1	1	1	1	1	0	0	1	1	1	0	0	10	High
Frankford-6	Install a storm warning system on the firehouse located on Route 206 once it is constructed.	1	1	1	1	0	0	0	0	1	1	1	1	1	0	9	Medium

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions.



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### **9.6.7 Future Needs To Better Understand Risk/Vulnerability**

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None at this time.

### **9.6.8 Hazard Area Extent and Location**

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Hazard area extent and location maps have been generated for the Township of Frankford 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 considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Township of Frankford has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

### **9.6.9 Additional Comments**

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None at this time.

DRAFT



Figure 9.6-1. Township of Frankford Hazard Area Extent and Location Map 1

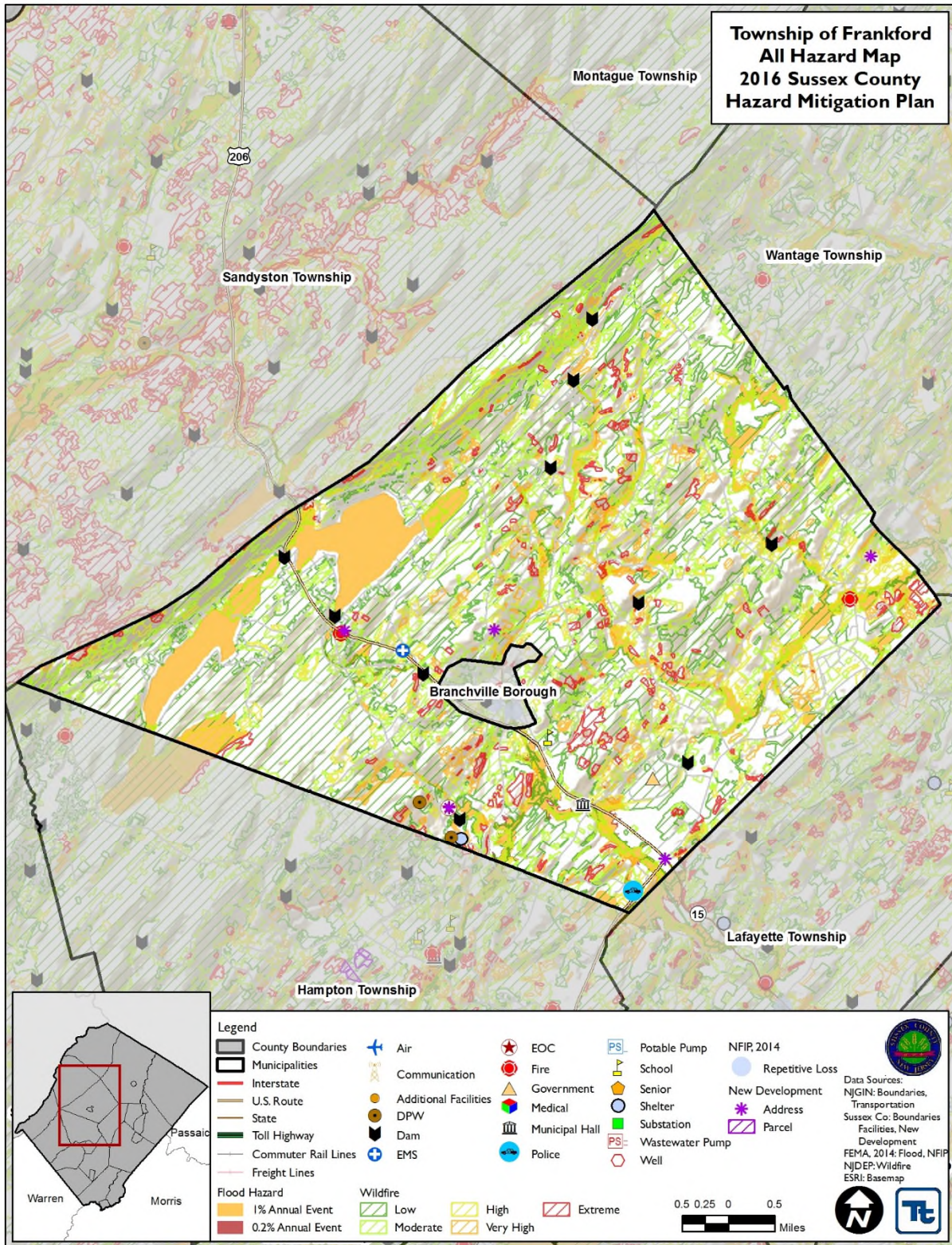
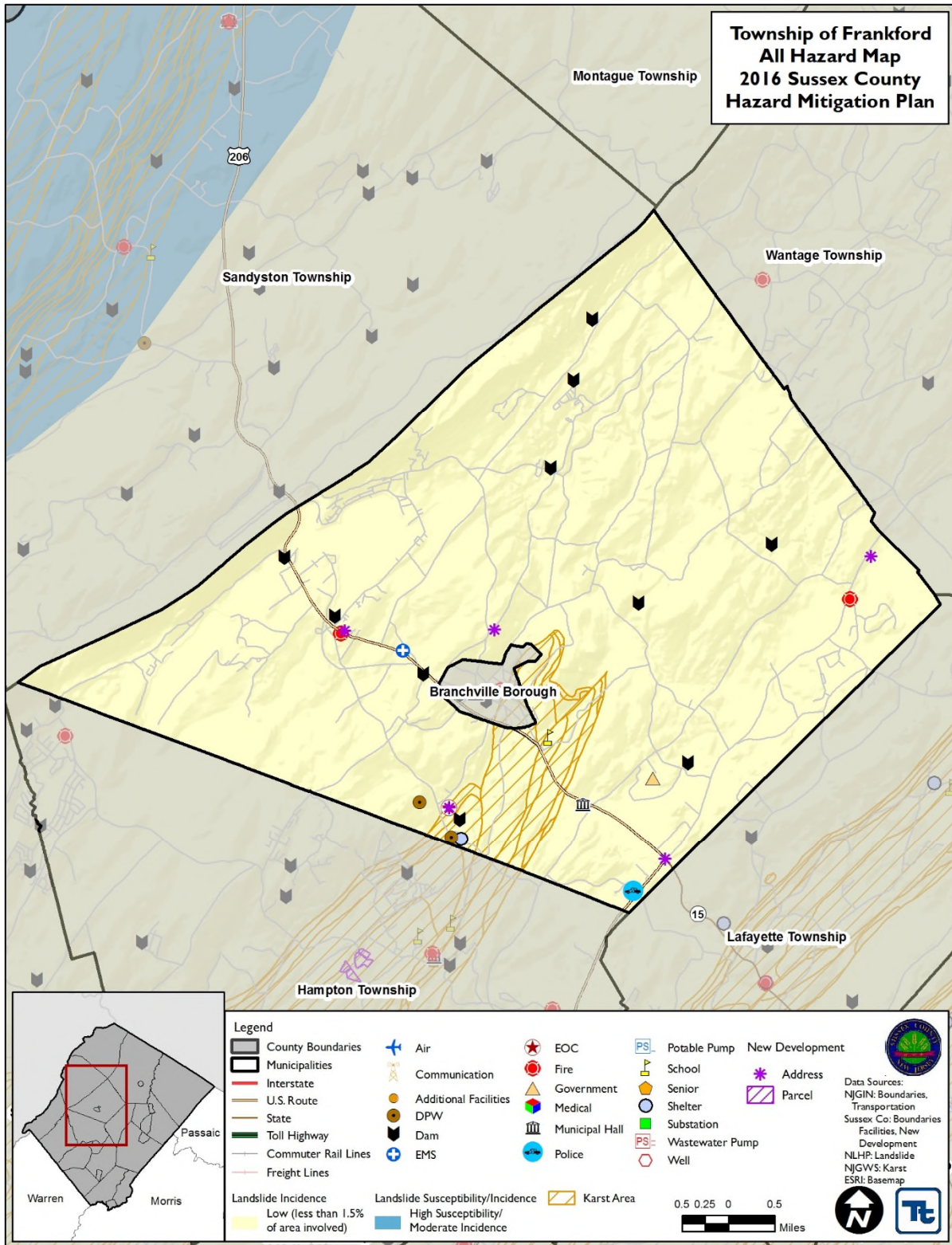




Figure 9.6-2. Township of Frankford Hazard Area Extent and Location Map 2





**Action Number:** Frankford-1

**Mitigation Action/Initiative:** Generators for critical facilities in the Township

Assessing the Risk	
<b>Hazard(s) addressed:</b>	All that have the potential to cause power outages
<b>Specific problem being mitigated:</b>	Loss of power to critical facilities in the Township prevent them from functioning properly during power outages
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	<ol style="list-style-type: none"> <li>1. Purchase and install generators for critical facilities in the Township</li> <li>2. Purchase portable generators – not feasible during longer power outages</li> <li>3. Do nothing – current problem continues</li> </ol>
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Generators for critical facilities in the Township: <ul style="list-style-type: none"> <li>• Fire Department – Stations 1 &amp; 2</li> <li>• Municipal Building</li> </ul>
<b>Action/Project Category</b>	SIP
<b>Goals/Objectives Met</b>	1, 3, 6
<b>Applies to existing and/or new development; or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	High
<b>Priority*</b>	High
Plan for Implementation	
<b>Responsible/Lead Agency/Department</b>	Township
<b>Local Planning Mechanism</b>	Emergency Management
<b>Potential Funding Sources</b>	HMGP with local cost share
<b>Timeline for Completion</b>	Short Term / DOF
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



**Action Number:** Frankford-1

**Mitigation Action/Initiative:** Generators for critical facilities in the Township

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Allow for continuity of operations for emergency services
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Township will seek grand funding for this project
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	This project will be completed in the next five years
Local Champion	1	
Other Community Objectives	0	
Total	9	
<b>Priority (High/Med/Low)</b>	<b>High</b>	



**Action Number:** Frankford-4

**Mitigation Action/Initiative:** Upgrade culverts on Ridge Road and Plains Road

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flood, Severe Weather
<b>Specific problem being mitigated:</b>	There are areas of Ridge and Plains Roads where water ponds during periods of heavy rain.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Upgrade culverts on Ridge Road and Plains Road
	2. Do nothing – current problem continues
	3. No other feasible options were identified
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Upgrade culverts on Ridge Road and Plains Road
<b>Action/Project Category</b>	SIP
<b>Goals/Objectives Met</b>	1, 2
<b>Applies to existing and/or new development; or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	Medium to High
<b>Estimated Cost</b>	Low to Medium
<b>Priority*</b>	Medium
Plan for Implementation	
<b>Responsible/Lead Agency/Department</b>	DPW, Engineering
<b>Local Planning Mechanism</b>	Master Plan, Capital Improvement
<b>Potential Funding Sources</b>	Grant funding; municipal budget
<b>Timeline for Completion</b>	Short Term / DOF
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:





**Action Number:** Frankford-4

**Mitigation Action/Initiative:** Upgrade culverts on Ridge Road and Plains Road

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Allow roadways to be functioning during periods of heavy rain; allow emergency personnel to respond
Property Protection	1	Protect structures and properties in the area of concern
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	0	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	1	Flood, Severe Weather
Timeline	1	
Local Champion	0	
Other Community Objectives	0	
Total	8	
<b>Priority (High/Med/Low)</b>	<b>Medium</b>	



**Action Number:** Frankford-6  
**Mitigation Action/Initiative:** Storm warning system on firehouse

Assessing the Risk	
<b>Hazard(s) addressed:</b>	All
<b>Specific problem being mitigated:</b>	Lack of storm warning system within the Township
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Install a storm warning system on firehouse
	2. Do nothing – current problem continues
	3. No other feasible options were identified
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Install a storm warning system on the firehouse located on Route 206 once it is constructed.
<b>Action/Project Category</b>	SIP, EAP
<b>Goals/Objectives Met</b>	All
<b>Applies to existing and/or new development; or not applicable</b>	New
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	Low to Medium
<b>Priority*</b>	Medium
Plan for Implementation	
<b>Responsible/Lead Agency/Department</b>	Township OEM, Fire Department
<b>Local Planning Mechanism</b>	Emergency Operations, Capital Improvement
<b>Potential Funding Sources</b>	HMGP with local cost share
<b>Timeline for Completion</b>	Short Term / DOF
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



**Action Number:** Frankford-6

**Mitigation Action/Initiative:** Storm warning system on firehouse

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Provide warning to residents of hazard events
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	0	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	
Local Champion	1	
Other Community Objectives	0	
Total	9	
<b>Priority (High/Med/Low)</b>	<b>Medium</b>	