



SOMERSET COUNTY

# HAZARD MITIGATION PLAN

## SOMERSET COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

FINAL PLAN UPDATE  
JULY 2019

[www.co.somerset.nj.us/hmp](http://www.co.somerset.nj.us/hmp)

### Section 9.9: Township of Franklin Annex

*Prepared by the Somerset County  
Mitigation Planning Committee*



## 9.9 Township of Franklin

This section presents the jurisdictional annex for the Township of Franklin (hereinafter referred to as Franklin Township or Franklin).

### 9.9.1 HAZARD MITIGATION PLAN POINT OF CONTACT

Hazard Mitigation Plan Points of Contact					
Primary Point of Contact			Alternate Point of Contact		
Name: Carl Hauck, Public Works Director Address: 475 DeMott Lane, Somerset, New Jersey 08873 Phone Number: 732-873-2500 x 6383 Fax Number: 732-873-5391 E-mail Address: <a href="mailto:carl.hauck@twp.franklin.nj.us">carl.hauck@twp.franklin.nj.us</a>			Name: Scott Thomas, Engineering Department Address: 475 DeMott Lane, Somerset, New Jersey 08873 Phone Number: 732-249-7800 x 6237 Fax Number: E-mail Address: <a href="mailto:scott.thomas@twp.franklin.nj.us">scott.thomas@twp.franklin.nj.us</a>		
Municipal HMP Committee Members					
Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development	Agreed to participate? (Yes/No)
Land Use/Community Planner	Mark Healy	<a href="mailto:mark.healy@twp.franklin.nj.us">mark.healy@twp.franklin.nj.us</a>	732-873-2500	Oct. 2017	Yes
Emergency Manager	John Hauss	<a href="mailto:john.hauss@twp.franklin.nj.us">john.hauss@twp.franklin.nj.us</a>	732-873-2500	June 2018	Yes
Floodplain Manager/ Floodplain Administrator	Scott Thomas	<a href="mailto:scott.thomas@twp.franklin.nj.us">scott.thomas@twp.franklin.nj.us</a>	732-873-2500	Oct. 2017	Yes
Public Works Director / City Engineer	Thomas Zilinek, Township Engineer	<a href="mailto:thomas.zilinek@twp.franklin.nj.us">thomas.zilinek@twp.franklin.nj.us</a>	732-873-2500	Oct. 2017	Yes*
	Carl Hauck, Public Works Director	<a href="mailto:carl.hauck@twp.franklin.nj.us">carl.hauck@twp.franklin.nj.us</a>	732-873-2500	Oct. 2017	Yes
	Scott Thomas, Engineering Department	<a href="mailto:scott.thomas@twp.franklin.nj.us">scott.thomas@twp.franklin.nj.us</a>	732-873-2500	Oct. 2017	Yes
Building Code Official	Vince Lupo	<a href="mailto:vincent.lupo@twp.franklin.nj.us">vincent.lupo@twp.franklin.nj.us</a>	732-873-2500	Oct. 2017	Yes
Fiscal/Budget Officer	Kathy Moody	<a href="mailto:kathy.moody@twp.franklin.nj.us">kathy.moody@twp.franklin.nj.us</a>	732-873-2500	Oct. 2017	Yes
Manager/Administrator	Robert Vornlocker	<a href="mailto:robert.vornlocker@twp.franklin.nj.us">robert.vornlocker@twp.franklin.nj.us</a>	732-873-2500	Oct. 2017	Yes
Elected Officials					
* Note: Thomas Zilinek participated through his retirement on June 30, 2018.					

## 9.9.2 PROFILE

### 9.9.2.1 Population

The population of Franklin Township is estimated to be 62,300, based on information gathered during the 2010 U.S. Census. Census population estimates of July 2017 indicated a total population of 66,734.

### 9.9.2.2 Location

Franklin Township covers 46 square miles and is bounded to the north, west and south by the Raritan and Millstone Rivers. To the east is State Highway 27, except for the Little Rocky Hill section of the Township, which is bordered by Old Road. The Township encompasses the historic and geographic areas of Zarephath, East Millstone, Franklin Park, Griggstown, Middlebush, Somerset and portions of Kingston and Little Rocky Hill.

### 9.9.2.3 Brief History

The history of Franklin Township and the Raritan Valley was largely influenced by the Dutch settlers who came around 1650. They settled in this area by trading and bargaining for land with the Raritan Indians.

No document exists to prove conclusively whether the Township was named for William Franklin, Governor of New Jersey from 1762 to 1776, or Benjamin Franklin. In 2000, the Township Council determined that it was desirable to officially espouse a theory as to the naming of the Township. After considering the evidence set forth in Franklin Township, Somerset County, NJ: A History, William B. Brahm, Commissioned by the Franklin Township Library, 1998, Chapter 12, Municipal Government, The Case for William Franklin and The Case for Benjamin Franklin, the Township Council determined to espouse the theory that the Township was named for Benjamin Franklin.

Franklin Township was very much a part of the Revolutionary War History and the scene of many raiding parties along Route 27, then known as the King's Highway. In fact, two British generals, Cornwallis and DeHeister, tried to lure General Washington into battle on the plains of Middlebush and East Millstone. Washington, however, kept his troops at Chimney Rock, just north of Franklin, until the British withdrew. Several of the prosperous Middlebush farms were destroyed by the British soldiers during their retreat. Washington's farewell address was delivered to his army in Little Rocky Hill in 1783.

One of the most important developments for Franklin was the building of the Delaware-Raritan Canal in 1834. Twenty-two miles of this continuous water route from New York to Philadelphia runs through the Township. During the Civil War, up to 200,000 tons of freight was hauled by mule and horse-drawn barges, a great economic boon for the area. The building of the railroads led to the decline of this once successful mode of transportation. Today the canal is the source of drinking water and provides recreation for area residents and visitors to the Delaware and Raritan Canal State Park.

The Township of Franklin was incorporated 1798.

#### 9.9.2.4 Governing Body Format

Franklin Township is chartered under the Optional Municipal Charter Act as Council-Manager, Plan D. The Township Council consists of nine members - one Mayor elected from the Township at large, five Council Members elected for each of the five wards and three elected from the Township at large.

The Mayor is the Chief Legislative Officer of the Township and is elected by the voters to serve for a four-year term. The Township Manager, the Chief Executive Officer of the Township, provides for the administration of the Township's daily operations, and is hired by and serves at the pleasure of the Township Council.

Council elections are held at the June Primary and November General Elections in odd numbered years.

#### 9.9.2.5 Growth/Development Trends

The Township of Franklin did not note any major residential or commercial development, or major infrastructure development planned for the next 5 years in the municipality (updated in 2018).

New Development/Potential Development in Municipality						
Property Name	Type (Residential or Commercial)	No. of Structures	Address	Block and Lot	Known Hazard Zone	Description /Status
N/A	N/A	N/A	N/A	N/A	N/A	N/A

The Township has identified the following jurisdictional regulations/codes/ordinances in place in your community that will work to protect new development from the effects of natural hazards: Floodplain management ordinance No. 4167-16; Stream Corridor Management Plan - Chapter 112, Article XXIX – Township Code; and Stormwater Management Plan/Ordinance – Chapter 330.

### 9.9.3 NATURAL HAZARD EVENT HISTORY SINCE 2014

Somerset County has a history of natural hazard events as detailed in 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. The table below presents a summary of events that have occurred since the 2014 HMP to indicate the range and impact of natural hazard events in the community. Information regarding specific damages is included if available based on reference material or local sources. For details of events prior to 2014, refer to Section 5.0 of this plan.

Natural Hazard Event History (2014 to present)				
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
Cold/Wind Chill	N/A	N/A	January 4, 2014	No local damage reported
Strong Wind	N/A	N/A	January 6, 2014	No local damage reported
Flood	N/A	N/A	January 6, 2014	No local damage reported
Cold/Wind Chill	N/A	N/A	January 7, 2014	No local damage reported
Cold/Wind Chill	N/A	N/A	January 22, 2014	No local damage reported
Winter Storm	N/A	N/A	February 12, 2014	No local damage reported
Flood	N/A	N/A	February 22, 2014	No local damage reported
Strong Wind	N/A	N/A	March 12, 2014	No local damage reported
Flood	N/A	N/A	March 30, 2014	No local damage reported
Flood	N/A	N/A	April 1, 2014	No local damage reported
Thunderstorm Wind	N/A	N/A	April 15, 2014	No local damage reported
Flood	N/A	N/A	April 15, 2014	No local damage reported
Flood	N/A	N/A	April 30, 2014 to May 1, 2014	No local damage reported
Thunderstorm Wind	N/A	N/A	May 10, 2014	No local damage reported
Earthquake, Magnitude 1.9, 6 km N of Boonton (Montville Twp.)	N/A	N/A	May 31, 2014	No local damage reported

Natural Hazard Event History (2014 to present)				
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
Earthquake, Magnitude 1.0, 13 km SW of Ramblewood, NJ (Laurel Springs Boro.)	N/A	N/A	June 19, 2014	No local damage reported
Thunderstorm Wind	N/A	N/A	July 2, 2014	No local damage reported
Heat	N/A	N/A	July 2, 2014	No local damage reported
Thunderstorm Wind	N/A	N/A	July 3, 2014	No local damage reported
Flash Flood	N/A	N/A	July 3, 2014	No local damage reported
Thunderstorm Wind	N/A	N/A	July 8, 2014	No local damage reported
Earthquake, Magnitude 1.6, 3 km W of Jersey City, NJ (Kearny Town)	N/A	N/A	July 8, 2014	No local damage reported
Flood	N/A	N/A	July 16, 2014	No local damage reported
Earthquake, Magnitude 1.2, 4 km SW of Ringwood, NJ (Ringwood Boro.)	N/A	N/A	July 28, 2014	No local damage reported
Flash Flood	N/A	N/A	August 21, 2014	No local damage reported
Earthquake, Magnitude 1.3, 2 km S of Park Ridge, NJ (Woodcliff Lake Boro.)	N/A	N/A	September 3, 2014	No local damage reported
Flood	N/A	N/A	December 9, 2014	No local damage reported
Earthquake, Magnitude 1.9, 13 km SE of Twin Rivers, NJ (Millstone Twp.)	N/A	N/A	December 13, 2014	No local damage reported

Natural Hazard Event History (2014 to present)				
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
Earthquake, Magnitude 1.5, 2 km SW of Clifton, NJ (Bloomfield Twp.)	N/A	N/A	December 28, 2014	No local damage reported
Cold/Wind Chill	N/A	N/A	January 7, 2015	No local damage reported
Flood	N/A	N/A	January 18, 2015	No local damage reported
Strong Wind	N/A	N/A	February 2, 2015	No local damage reported
Cold/Wind Chill	N/A	N/A	February 13, 2015	No local damage reported
Strong Wind	N/A	N/A	February 15, 2015	No local damage reported
Cold/Wind Chill	N/A	N/A	February 15, 2015	No local damage reported
Cold/Wind Chill	N/A	N/A	February 16, 2015	No local damage reported
Cold/Wind Chill	N/A	N/A	February 20, 2015	No local damage reported
Cold/Wind Chill	N/A	N/A	February 24, 2015	No local damage reported
Flood	N/A	N/A	March 11, 2015	No local damage reported
Flood	N/A	N/A	March 14, 2015	No local damage reported
Earthquake, Magnitude 1.2, 2 km SW of Clifton, NJ (Bloomfield Twp.)	N/A	N/A	March 27, 2015	No local damage reported
Strong Wind	N/A	N/A	April 4, 2015	No local damage reported
Flash Flood	N/A	N/A	May 31, 2015	No local damage reported
Earthquake, Magnitude 1.2, 2 km N of Wanaque, NJ (Ringwood Boro.)	N/A	N/A	July 12, 2015	No local damage reported
Heat	N/A	N/A	July 19, 2015	No local damage reported



Natural Hazard Event History (2014 to present)				
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
Earthquake, Magnitude 2.7, 3.5 km N of Bernardsville, NJ (Bernardsville Boro.)	N/A	N/A	August 14, 2015	No local damage reported
Flash Flood	N/A	N/A	August 19, 2015	No local damage reported
Flood	N/A	N/A	August 19, 2015	No local damage reported
Earthquake, Magnitude 1.4, 5 km WNW of Fairfield, NJ (Fairfield Twp.)	N/A	N/A	August 22, 2015	No local damage reported
Drought and Excessive Heat	N/A	N/A	April 2015 – September 2015	No local damage reported
Combined effects of freeze, excessive heat, and drought	N/A	N/A	April 2016 – September 2016	No local damage reported
Earthquake, Magnitude 2.1, 2.4 km NW of Ringwood, NJ (Ringwood Boro.)	N/A	N/A	January 2, 2016	No local damage reported
Severe Winter Storm and Snowstorm (Blizzard)	DR-4264	Yes	January 22-24, 2016	No local damage reported
Earthquake, Magnitude 1.1, 1.1 km NW of Butler, NJ (Bloomingdale Boro.)	N/A	N/A	February 19, 2016	No local damage reported
Flash Flood	N/A	N/A	February 24, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	April 2, 2016	No local damage reported



Natural Hazard Event History (2014 to present)				
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
Earthquake, Magnitude 0.8, 4.4 km N of Butler, NJ (Bloomingdale Boro.)	N/A	N/A	May 27, 2016	No local damage reported
Lightning	N/A	N/A	June 8, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	June 8, 2016	No local damage reported
Lightning	N/A	N/A	June 28, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	June 28, 2016	Thunderstorms produced strong winds; trees were downed in Bernardsville and Far Hills.
Earthquake, Magnitude 1.1, 1 km NW of Butler, NJ (Butler Boro.)	N/A	N/A	July 4, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 8, 2016	No local damage reported
Flood	N/A	N/A	July 8, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	July 18, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	July 25, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	July 25, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	July 25, 2016	No local damage reported
Flood	N/A	N/A	July 25, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 30, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 31, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 31, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 31, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 31, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 31, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 31, 2016	No local damage reported

Natural Hazard Event History (2014 to present)				
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
Flash Flood	N/A	N/A	July 31, 2016	No local damage reported
Earthquake, Magnitude 0.8, 2.2 km SW of Clifton, NJ (Bloomfield Twp.)	N/A	N/A	July 31, 2016	No local damage reported
Earthquake, Magnitude 1.0, 2 km N of Wanaque, NJ (Wanaque Boro.)	N/A	N/A	August 9, 2016	No local damage reported
Earthquake, Magnitude 0.5, 1 km N of Butler, NJ (Bloomingdale Boro.)	N/A	N/A	August 9, 2016	No local damage reported
Earthquake, Magnitude 0.6, 5 km NE of Wanaque, NJ (Ringwood Boro.)	N/A	N/A	September 20, 2016	No local damage reported
Earthquake, Magnitude 1.5, 2.6 km W of Belmar, NJ (Westville Boro.)	N/A	N/A	November 6, 2016	No local damage reported
Earthquake, Magnitude 2.0, 16.3 km E of Highlands, NJ (Middletown Twp.)	N/A	N/A	November 6, 2016	No local damage reported
Earthquake, Magnitude 1.31, 1.4 km S Morris Plains, NJ (Morris Plains Boro.)	N/A	N/A	March 25, 2017	No local damage reported
Flood	N/A	N/A	March 31, 2017	No local damage reported
Hail	N/A	N/A	May 14, 2017	No local damage reported
Hail	N/A	N/A	May 31, 2017	No local damage reported

Natural Hazard Event History (2014 to present)				
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
Flood	N/A	N/A	June 24, 2017	No local damage reported
Flood	N/A	N/A	July 22, 2017	No local damage reported
Flood	N/A	N/A	August 22, 2017	No local damage reported
Flood	N/A	N/A	August 22, 2017	No local damage reported
Heavy Rain	N/A	N/A	August 23, 2017	No local damage reported
Earthquake, Magnitude 1.71, 3.7 km SW of Morris Plains, NJ (Morris Twp.)	N/A	N/A	September 25, 2017	No local damage reported
Earthquake, Magnitude 0.98, 2.7 km SW of Morris Plains, NJ (Morris Twp.)	N/A	N/A	September 30, 2017	No local damage reported
Flood	N/A	N/A	October 29, 2017	No local damage reported
Earthquake, Magnitude 1.38, 3.5 km NW of Keansburg, NJ (Keansburg Boro.)	N/A	N/A	November 8, 2017	No local damage reported
Severe Winter Storm and Snowstorm (Blizzard)	DR-4368	Yes	March 6, 2018	Although all portions of the county experienced significant snowfall from this event, the higher amounts (around one and one half feet) occurred in the eastern sections of the county closer to the off shore low pressure system. Thundersnow also occurred in a few locations. The total snowfall in Bernardsville was reported to be 19.2 inches.

Note:

DR = Major Disaster Declaration

EM = Emergency Declaration

N/A = Not applicable

### 9.9.4 NATURAL HAZARD RISK/VULNERABILITY RISK RANKING

The table below summarizes the vulnerability risk rankings of potential hazards of Franklin Township.

Natural 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>
Flood	1% Annual Chance: \$58,100,000 0.2% Annual Chance: \$98,200,000	Frequent	18	High <sup>g</sup>
Severe Storm	100-Year MRP: \$5,949,772 500-Year MRP: \$49,997,680 Annualized Loss: \$371,563	Frequent	48	High
Severe Winter Storm	1% of GBS: \$84,927,200 5% of GBS: \$424,636,000	Frequent	27	Medium
Earthquake	500-Year MRP: \$15,011,310 2,500-Year MRP: \$225,053,396 Annualized Loss: \$231,690	Occasional	12	Low
Drought	Not available	Occasional	12	Medium
Extreme Temperature	Not available	Frequent	18	Medium
Wildfire	Not available	Occasional	18	High <sup>g</sup>

Note

- Building damage ratio estimates based on FEMA 386-2 (August 2001)
- The valuation of general building stock and loss estimates was based on custom inventory for Somerset County.
- 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
- Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.
- Loss estimates for the flood and earthquake hazards represent both structure and contents.
- The HAZUS-MH earthquake model results are reported by Census Tract.
- This rank was adjusted based on qualitative input from county/jurisdictional representatives due to hazard event history and other municipality-specific considerations.

### 9.9.5 CAPABILITY ASSESSMENT

This section describes the following capabilities of the local jurisdiction:

- Legal and regulatory capability;
- Administrative and technical capability;
- Fiscal capability;
- Community resiliency;
- Community political capability; and
- Community classification.

### 9.9.5.1 Legal and Regulatory Capability

The table below summarizes the regulatory tools that are available to Franklin Township. The Township reviewed its responses from the 2014 HMP and has updated any information that has changed since that time.

Legal and Regulatory Capability			
Regulatory Tools (Codes, Ordinances, Plans)	Do you have this? (Y or N)	Enforcement Authority	Code Citation (Section, Paragraph, Page Number, Date of Adoption)
1) Building Code	Y	-	International Building Code – New Jersey Edition, NJAC 5:24-3.14; 2/20/07
2) Zoning Ordinance	Y	Planning	Chapter 112 – Township Code
3) Subdivision Ordinance	Y	Planning	Chapter 112, Article XXIII– Township Code
4) NFIP Flood Damage Prevention Ordinance	Y	Engineering	Flood Damage Prevention Ordinance; 9/18/07
4a) Cumulative Substantial Damages	N	-	-
4b) Freeboard	N	-	-
5) Growth Management	Y	Planning	-
6) Floodplain Management / Basin Plan	Y	Engineering	9/18/07
7) Stormwater Management Plan/Ordinance	Y	Engineering	Chapter 330 – Township Code
8) Comprehensive Plan / Master Plan/ General Plan	Y	Planning	-
9) Capital Improvements Plan	Y	-	-
10) Site Plan Review Requirements	Y	Planning	Chapter 112, Article XXXVIII – Township Code
11) Open Space Plan	Y	-	-
12) Stream Corridor Management Plan	Y	Planning	Chapter 112, Article XXIX – Township Code
13) Watershed Management or Protection Plan	N	-	-
14) Economic Development Plan	Y	Economic Dev	-
15) Comprehensive Emergency Management Plan	Y	OEM	-

Legal and Regulatory Capability			
Regulatory Tools (Codes, Ordinances, Plans)	Do you have this? (Y or N)	Enforcement Authority	Code Citation (Section, Paragraph, Page Number, Date of Adoption)
16) Emergency Response Plan	Y	OEM	11/18/2007
17) Post-Disaster Recovery Plan	N	-	-
18) Post-Disaster Recovery Ordinance	N	-	-
19) Real Estate Disclosure Requirement	N	-	-
20) Other (Special Purpose Ordinances such as critical or sensitive areas)	N	-	-



### 9.9.5.2 Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to Franklin Township. The Township reviewed its responses from the 2014 HMP and has updated any information that has changed since that time.

Administrative and Technical Capability		
Staff / Personnel Resources	Available (Y or N)	Department / Agency / Position
1) Planner(s) or Engineer(s) with knowledge of land development and land management practices	Y	Engineering Department & Community Development Department
2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Engineering Department & Community Development Department
3) Planners or engineers with an understanding of natural hazards	Y	Engineering Department & Community Development Department
4) NFIP Floodplain Administrator	Y	Scott Thomas, Senior Township Engineer
5) Surveyor(s)	N	
6) Personnel skilled or trained in GIS applications	Y	IT Department
7) Scientist familiar with natural hazards	N	
8) Emergency Manager	Y	Office of Emergency Management
9) Grant Writer(s)	N	-
10) Staff with expertise or training in benefit/cost analysis	N	-

### 9.9.5.3 Fiscal Capability

The table below summarizes financial resources available to the Township of Franklin. The Township reviewed its responses from the 2014 HMP and has updated any information that has changed since that time.

Fiscal Capability	
Financial Resources	Accessible or Eligible to use (Yes/No/Don't know)
1) Community Development Block Grants (CDBG)	Y
2) Capital Improvements Project Funding	Y
3) Authority to levy taxes for specific purposes	Y
4) User fees for water, sewer, gas or electric service	Y
5) Impact fees for homebuyers or developers of new development/homes	N
6) Incur debt through general obligation bonds	Y
7) Incur debt through special tax bonds	Y
8) Incur debt through private activity bonds	N
9) Withhold public expenditures in hazard-prone areas	Unsure
10) State mitigation grant programs	Unsure
11) Other	-

### 9.9.5.4 Overall Capabilities

The Township of Franklin's 2018 assessment of its overall capabilities to implement hazard mitigation strategies in each of the above categories, in addition to its assessment of how these capabilities could be expanded and/or improved to reduce risk is presented in the table below.

Overall legal and regulatory capability to implement hazard mitigation strategies	Overall technical capability to implement hazard mitigation strategies	Overall fiscal capability to implement hazard mitigation strategies	Overall administrative capability to implement hazard mitigation strategies	Community's willingness to enact policies and programs that reduce hazard vulnerabilities
Moderate	High	High	High	High
<b>How these capabilities can be expand and/or improved to reduce risk</b>				
Capabilities are generally deemed to be in line with our municipal mitigation initiatives and goals. Legal and regulatory capabilities could be increased through incorporating cumulative substantial damages and/or freeboard requirement into the floodplain management ordinance; and continued engagement and class increases in the NFIP's CRS program.				

### 9.9.5.5 Community Classifications

The table below summarizes classifications for community program available to Franklin Township. The Township reviewed its responses from the 2014 HMP and has updated any information that has changed since that time.

Community Classifications		
Program	Classification	Date Classified
Community Rating System (CRS)	6	2017
Building Code Effectiveness Grading Schedule (BCEGS)	-	-
Public Protection	-	-
Storm Ready	-	-
Firewise	-	-

Notes:

- = Unavailable

N/A = Not applicable

NP = Not participating.

The classifications listed above relate to Franklin Township's ability to provide effective services to lessen its vulnerability to the natural hazards identified. These classifications can be viewed as a gauge of the community's capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance, while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1,000 feet of a creditable fire hydrant and is within 5 road miles of a recognized fire station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- 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/>

### **9.9.6 MITIGATION STRATEGY**

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

#### **9.9.6.1 Past Mitigation Actions/Status**

The status of all 2014 HMP initiatives was evaluated by the Township of Franklin in 2018 and is presented in the following table. The community has indicated that local priorities have not changed since the last version of the plan.

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL1	Evacuation Route Enhancement: The Township should formally post signage along the recommended flood evacuation routes as per the official flood evacuation route map in this Plan and the Emergency Operations Plan	Medium	All	Police Department & Public Works Department			X		funding/approvals	X		No change from 2014 plan

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL2	Franklin Township endorses the County investigating the feasibility of installing traffic gates and electronic warning signs in the Canal Road vicinity, so as to avoid the potential for loss of life and property as a result of motorist traffic. Motorists rerouted from the currently deficient flood evacuation route along South Middlebush Road and motorists attempting to cross at the River (at Blackwells Mills and Griggstown) could be deflected from entering the vicinity by electronic warning signs. These signs could be placed at the intersections of Jacques and South Middlebush Roads, Canal Road and Route 514, Blackwells Mills and South Middlebush Roads, Suydam and South Middlebush Roads and other critical intersections.**	Low	Flood	Police Department			X		funding/approvals	X		Traffic gates have been installed at the causeways across the Millstone River. There is signage on the gates, but it is not electronic. There is a pre-emptive electronic sign on Blackwells Mills Road at the intersection with Van Cleef Road and there are manual signs at other intersections.

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL3 (FL20)	The State is working in finding acceptable access to Route 287 from Elizabeth Avenue to permit evacuation of residents from South Bound Brook Borough and Franklin Township. Franklin Township endorses Somerset County investigating the feasibility for providing acceptable access along the entire length of South Middlebush Road including its crossings of Middlebush Creek and Six Mile Run. Griggstown causeway as "the long-term key to saving the historic character of this area...and work with Somerset County to seek an alternative crossing so that this one can be closed."	Medium	All	Police Department				X	regulatory issues	X	No change from 2014 plan	



2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL4	Public Participation: The Township should refine their program to incorporate flood prone properties including Block and Lot, street address, digital photo, first floor and low opening elevations and other identifier information. The Somerset County Flood Information data will be used by the Township to provide flood warning information to individual property owner/occupants. The Township GIS Office will work with the Township Office of Emergency Management and Police Department to implement this system	Medium	Flood	Engineering Department		X			Our Floodplain Manager sends out letters, staff availability	X		Work on geo-referencing to get flood prone properties into the alert system
FL5	The Township should implement a program to inform their residents to the threats of flooding and the benefits of flood insurance and direct them to the appropriate sources for assistance in this matter. This will involve working with the area insurance agents to assure their input.	Medium	Flood	Engineering Department			X		Through our CRS program, articles are published in the Township newsletter	X		Maintain or lower our CRS rating for increased % insurance reductions

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL6 (FL21)	Incorporation of Flood Mitigation Planning into Local Ordinances And Master Planning. The Township should revise its existing Flood Damage Prevention Ordinance to incorporate the suggested recommendations from the State Flood Plain Management Program	Medium	Flood	Engineering & Planning Departments			X		Flood Damage Prevention Ordinance was updated incorporating recommendations from the State Flood Plain Management Program	X		FIRM mapping along Millstone River was revised, prompting the need for the ordinance revisions
FL7	The Township should include disaster mitigation planning as an element in its Master Plan. The Flood Mitigation Plan should be incorporated by reference into the Township Master Plan.	Medium	All	Planning Department			X		Disaster mitigation and Flood Mitigation Plan to be added at next Master Plan update	X		To be completed as part of Township Master Plan update

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL8	Public Property, Institutional and Critical Facility Flood Mitigation: The Township should work with individual critical facility owners to enhance their level of flood protection to the base flood elevation (1% or 100 year flood). *Facilities include Zarepath Christian School, Somerset Christian School, East Millstone First Aid Squad, North Brunswick water Plant, Willow Creek Rehab & Care Center, Guild Housing.	Medium		OEM, Engineering & Planning Departments			X		Pillar of Fire has reconstructed the levee around their facility to the 100-year flood elevation. There is lack of support or funding for the other projects.	X		Continue efforts with flood prone properties
FL9	The Township should work with the Pillar of Fire to encourage the full implementation of their Master Plan to expand their physical plant outside of the flood plain. The Township should also work with Pillar of Fire to minimize or avoid future development of land planned for disposal in the 100 and 500 year flood plain.	Medium	Wildfire, Flood	Planning Department			X		Pillar of Fire has moved the majority of their day to day operations outside of the levee protected area and outside of the 100-year flood zone. Some buildings remain due to funding and historical reasons.	X		Continue to work with Pillar of Fire

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL10	The Township should work with the various State agencies (including the New Jersey Department of Environmental Protection Parks and Forestry, Delaware and Raritan Canal Commission, and New Jersey Water Supply Authority) to assure that, during rehabilitation and restoration of the historic structures, all necessary measures are taken by the State of New Jersey to adequately minimize future structure and content losses due to flooding. Specifically, the State and Twp. should work for the adaptive re-use of the structures, with the placement of all important equipment (furnace, hot water heater, refrigerator, etc.) on the second floor, so that the structures could undergo flooding of the first floor with minimal damages to contents.	Medium	Flood	Engineering Department				X	staffing/funding	X		No change from 2009 plan

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL11	Private Property Flood Mitigation: The Township shall carry out a survey of flood-prone property owners in the Millstone River and Raritan River corridors to determine their level of interest in determining the feasibility and cost of various flood mitigation measures including acquisition and demolition, elevation, flood proofing, and relocation.	Medium	Flood	Engineering Department				X	staffing/funding	X		No change from 2014 plan
FL12	Franklin Township should identify and evaluate various funding sources at the Federal, State, County and local level as well as from the private sector that could individually or collectively provide the local share for funding flood mitigation measures.**	Medium	Flood	Engineering Department				X	staffing/funding	X		No change from 2014 plan
FL13	The Township shall, with the permission of interested owners, conduct individual property audits to determine the impact of flooding on the contents and structure of individual properties.	Medium		Building Department				X	staffing/funding	X		No change from 2014 plan

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL14	The Township shall, with the permission of interested owners, implement appropriate options for flood mitigation. Appropriate measures will be determined on the basis of the cost of the option, the eligibility of the property for financial assistance based on its NFIP damage claim history, engineering feasibility, historic and environmental review, and property owner acceptability.	Medium	Flood	Building, Planning & Engineering Departments				X	staffing/funding	X		No change from 2014 plan
FL15 (FL2)	Promote open space uses within the floodplain via land use, and/or voluntary property acquisition	Medium	Flooding	Open Space			X		Through the Township's Open Space Fund, hundreds of acres within flood prone areas have been acquired	X		Continue to pursue open space acquisition
FL16 (FL3)	Obtain/record/maintain historical data including flood marks, road closures, wild fires, etc.	Medium	Flooding, Wildfire	Engineering Department			X		Information on historical flooding is being collected as it becomes available such as the high water marks from Hurricane Irene	X		Continue to collect historical data

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL17 (FL6)	Create and enhance mutual aid agreements with neighboring communities for continuity of operations	Medium	All	Public Works & Emergency Management			X		A number of mutual aid agreements are now in place	X		Continue to pursue mutual aid opportunities
FL18 (FL8)	Warehouse information on critical facilities and infrastructure components for use in mitigating natural hazards	Medium	All	Engineering (GIS)			X		Water Department assets such as hydrants and valves have been located utilizing GPS and uploaded into the Township's GIS. Detention basins and outfalls have been located but, due to staffing, not all inlets have been	X		Continue to collect information on critical facilities
FL19 (FL9)	Develop post disaster plan that includes debris removal components	Medium	Flood, Severe Storms	Public Works			X		all hazards plan - NJDEP removal site updates with county	X		Continue to develop post disaster plan



2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL20 (FL11)	Continue to develop, enhance and implement existing emergency response plans to utilize new and developing technology/information as it becomes available	Medium	All	Emergency Management			X		Emergency Management continues enhancing emergency response plans with technology within budget restraints	X		Continue to update emergency response plans
FL21 (FL13)	Enhance the building inventory to include structure values for future use of the HAZUS program	Medium	Floods, Severe Storms, Severe Winter Storms and Earthquake	Construction Code				X	staffing/resources	X		No change from 2014 plan
FL22 (FL14)	Provide higher resolution DEM for future use of the HAZUS program	Medium	Floods, Severe Storms, Severe Winter Storms and Earthquake	Engineering (GIS)				X	staffing/resources	X		No change from 2014 plan

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FL23 (FL15)	Where appropriate, support retrofitting of structures located in hazard-prone areas to protect structures from future damages, especially those known to be identified as "repetitive loss" including properties in the Millstone River and Griggstown sections of the Township.	Medium	Floods	Construction Code				X	staffing/resources	X		No change from 2014 plan
FL24 (FL16)	Provide backup power at vital critical facilities during the course of retrofitting those facilities identified as vulnerable. Facilities receiving priority are Public Works Building and Community Center	High	All	Emergency Management, Public Works, Engineering	X				Generators installed March 2018		X	
FL25 (FL17)	Strive to maintain compliance with and good-standing in the National Flood Insurance Program and the Community Rating System program.	Medium	Flood	Engineering Department			X		Ongoing. CRS rating lowered from 7 to 6 in 2015	X		Continue CRS Program compliance

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FL26	Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction: Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.	High	All Hazards	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA			X		Ongoing through Township website, newsletter, direct mailings and email/text notification systems	X		Continue public education and outreach

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					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL27	Incorporate ordinances and/or zoning restrictions to control and mitigate future development in hazard areas, specifically as identified in Section 9.9.11.	Medium	All Hazards	Municipality with support from County, NJOEM and FEMA			X		ordinance and NJDEP regulations on development	X		Continue to control and mitigation future development
FL28	Develop programs/ procedures to capture and archive loss data from events. Examples include: Record location and length of roadway closures; Develop a database of residential and commercial property damage, including permit history for such repairs; High water marks, perhaps painting phone poles with high water marks and or regulatory Base Flood Elevations (BFEs).	Medium	All Hazards	Municipality with support from County, NJOEM and FEMA				X	staffing/resources	X		No change from 2014 plan
FL29	Support ongoing updates of Comprehensive Emergency Management Plans	High	All Hazards	Municipality with support from County Emergency Management			X		Coordination with County OEM	X		Continue to coordinate with County OEM

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					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL30	Identify and develop agreements with entities that can provide support with FEMA/NJOEM paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/NJOEM paperwork compilation, submissions, record-keeping	Medium	All Hazards	Municipality with support from County, NJOEM and FEMA			X		on call contractors	X		Continue current procedure
FL31	Work with regional agencies (i.e. County and NJOEM) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers).	Medium	All Hazards	Municipality with support from County, NJOEM and FEMA			X		Damage assessment through Engineering & Building Departments	X		Continue current procedure
FL32 (FL18)	Continue to support the implementation, monitoring, maintenance, and updating of this Plan (through participating in the 5 year Plan Update), as defined in Section 7.0	High	All Hazards	Municipality with support from Planning Partners,			X		Township continues support	X		No change from 2014 plan

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					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL33	Obtain and archive elevation certificates	High	Flood, Severe Storm	NFIP Floodplain Administrator			X		Engineering Department collects elevation certificates as part of CRS program	X		Continue current procedure
FL34	Promote the participation of Floodplain Administrators within the planning process and other activities.	Medium	Flood	Municipality with support from County, NJOEM and FEMA			X		Township Floodplain Manager participates in activities	X		Continue current procedure
FL35	Enhance the County/community resilience to severe storms (incl. severe winter storms) by joining the NOAA "Storm Ready" program and supporting communities in joining the program.	Medium	Severe Storm	Municipality with support from County, NJOEM and FEMA				X	staffing/resources	X		No change from 2014 plan
FL36	Adopt regulations for undergrounding utilities in new developments.	High	Severe Storm	Municipal Council	X				existing ordinance		X	Existing ordinance in place
FL37	Implement permit fee waivers for installation of backup power for private property.	High	Severe Storm	Municipal Council				X	resources	X		No change from 2014 plan

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
FL38	Provide public education and outreach on proper installation and/or use of backup power	High	Severe Storm	Municipal Clerk				X	staffing/resources	X		No change from 2014 plan
FL39	Implement, review, and enforce municipal policies and programs to prevent trees from threatening lives and impacting power availability/interruption.	High	Severe Storm	Municipal Code Enforcement			X		Routine Public Works trimming and zoning enforcement of private properties	X		Continue current procedure

### 9.9.6.2 Hazard Vulnerabilities Identified

There are several private residences along the D&R canal with the Township that are prone to flooding. The Township is prone to winter storms with snow, ice & high winds. The Township is also prone to thunder storms, wind storms, tropical storms and hurricanes.

It is estimated that in Franklin Township, 131 residents live within the 1% annual chance flood area (NFIP Special Flood Hazard Area). \$3,755,449,000 (26.6%) of the municipality's general building stock replacement cost value (structure and contents) is located within the 1% annual chance flood area.

There are 212 NFIP policies in the community and there are 55 policies located within the 1% annual chance flood area. FEMA has identified 21 Repetitive Loss (RL) properties including 1 Severe Repetitive Loss (SRL) properties in the municipality.

HAZUS-MH estimates that for a 1% annual chance flood, \$58,100,000 (0.41%) of the municipality's general building stock replacement cost value (structure and contents) will be damaged, households may be displaced, people may seek short-term sheltering, and an estimated tons of debris could be generated.

Further information regarding the summary of the community's participation in the NFIP is provided in the table below.

NFIP Summary								
Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 1% Boundary (3)	# Policies in 0.2% - Boundary (3)	# Policies Outside the 0.2% Flood Hazard (3)
Franklin (T)	212	153	\$3,521,536	21	1	55	11	146

Source:

- (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2 via NJDEP in August 2017 and are current as of March 31, 2017. Please note the total number of repetitive loss properties includes the severe repetitive loss properties.
- (2) Information regarding total building and content losses was gathered from the claims file provided by FEMA Region 2 (current as of the Township of Franklin).
- (3) The policy locations used are based on the latitude and longitude provided by FEMA Region 2.



HAZUS-MH critical facility damage estimates for the Township of Franklin are provided below.

Critical Facility Damage Estimate										
Name	Municipality	Type	Exposure		Potential Loss from 1% Flood Event			Potential Loss from 0.2% Flood Event		
			1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100-Percent <sup>(1)</sup>	Percent Structure Damage	Percent Content Damage	Days to 100-Percent <sup>(1)</sup>
Zarephath Christian School	Franklin (T)	School		x	-	-	-	15.4	75.8	720
Somerset Christian College	Franklin (T)	School		x	-	-	-	14.6	74.4	630
East Millstone First Aid Squad	Franklin (T)	Fire	x	x	7.0	8.2	480.0	12.4	57.0	630
North Brunswick Water Plant	Franklin (T)	Potable Water		x	-	-	-	11.6	NA	NP
Willow Creek Rehab and Care Center	Franklin (T)	Senior	x	x	-	-	-	7.3	40.0	NP
Guild Housing	Franklin (T)	Bus Facility	x	x	-	-	-	24.7	24.5	NP

Source: HAZUS-MH 4.0

Notes:

- = No loss (calculated by HAZUS-MH 4.0)

X = Facility located within the DFIRM boundary.

DFIRM = Digital Flood Insurance Rate Map

NA = Not available

Twp. = Township

- (1) HAZUS-MH 4.0 provides a general indication of the maximum restoration time for 100% operations. Clearly, a great deal of effort is needed to quickly restore essential facilities to full functionality; therefore, this will be an indication of the maximum downtime (HAZUS-MH 4.0 User Manual).
- (2) Please note in some cases, a facility may be located in the DFIRM flood hazard boundary; however HAZUS did not calculate potential loss. This may be because the depth of flooding does not amount to any damages to the structure according to the depth damage function used in HAZUS for that facility type.

Please refer to the Hazard Profiles in Section 5 of this plan for additional vulnerability information relevant to this jurisdiction.

### 9.9.7 PROPOSED HAZARD MITIGATION INITIATIVES

The list below represents a summary of community mitigation initiatives developed in 2018 as part of the most recent plan update. Franklin Township strives to become more proactive in hazard planning procedures. The Township has created and updated numerous plans and implemented numerous programs dealing with hazard mitigation. The Township continues to work to improve on the following main goals: protect life, protect property, promote a sustainable economy, protect the environment, and increase public awareness. No changes in overall local priorities were reported since the 2014 HMP. Detailed Action Worksheets are included only for NEW Mitigation Actions/Projects. Some of the identified mitigation initiatives in the table below 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.

Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative or Carried Forward	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
FL01	Evacuation Route Enhancement	The Township should formally post signage along the recommended flood evacuation routes as per the official flood evacuation route map in this Plan and the Emergency Operations Plan.	Carried Forward	N/A	All	5,11,13	Police Department & Public Works Department	Medium	Medium	Township Operating Budget	Short	Medium	Capability, PE	Ongoing. Funding/approvals. Carried forward with no change from 2014 plan.
FL02	Flood Gates	Franklin Township endorses the County investigating the feasibility of installing traffic gates and electronic warning signs in the Canal Road vicinity, so as to avoid the potential for loss of life and property as a result of motorist traffic. Motorists rerouted from the currently deficient flood evacuation route along South Middlebush Road and motorists attempting to cross at the River (at Blackwells Mills and Griggstown) could be deflected from entering the vicinity by electronic warning signs. These signs could be placed at the intersections of Jacques and South Middlebush Roads, Canal Road and Route 514, Blackwells Mills and South Middlebush Roads, Suydam and South Middlebush Roads and other critical intersections.	Carried Forward	Both	Flood	1, 6, 8	Police Department	Medium	High	County	Long Term	Low	Action/Project, PR, PE	Ongoing. Funding/approvals. Traffic gates have been installed at the causeways across the Millstone River. There is signage on the gates, but it is not electronic. There is a pre-emptive electronic sign on Blackwells Mills road at the intersection with Van Cleef Road and there are manual signs at other intersections.

Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative or Carried Forward	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
FL03	Route 287 / Elizabeth Ave Access	The State is working in finding acceptable access to Route 287 from Elizabeth Avenue to permit evacuation of residents from South Bound Brook Borough and Franklin Township. Franklin Township endorses Somerset County investigating the feasibility for providing acceptable access along the entire length of South Middlebush Road including its crossings of Middlebush Creek and Six Mile Run. The D&R Canal State Park Draft Development Plan recommends the closing the existing Griggstown causeway as "the long-term key to saving the historic character of this area...and work with Somerset County to seek an alternative crossing so that this one can be closed.	Carried Forward	N/A	All	1,8	Police Department	Medium	Medium	County	Long Term	Medium	Action/Project, PR,ES	Not initiated. Regulatory issues. Carried forward with no change from 2014 HMP.
FL04	Public Participation	The Township should refine their program to incorporate flood prone properties including Block and Lot, street address, digital photo, first floor and low opening elevations and other identifier information. The Somerset County Flood Information data will be used by the Township to provide flood warning information to individual property owner/occupants.	Carried Forward	Existing	Flood	11,13	Engineering Department	Medium	Medium		Short	Medium	Capability, PR,PE	Initiated but not completed. Our Floodplain Manager sends out letters, staff availability. Work on geo-referencing to get flood prone properties into the alert system.
FL05	Flood Insurance Outreach	The Township should implement a program to inform their residents to the threats of flooding and the benefits of flood insurance and direct them to the appropriate sources for assistance in this matter. This will involve working with the area insurance agents to assure their input.	Carried Forward	Existing	Flood	12,13	Engineering Department	Medium	Low	Township Operating Budget	Short	Medium	Capability, PR,PE	Through our CRS program, articles are published in the Township newsletter. Maintain or lower our CRS rating for increased % insurance reductions.
FL06	Incorporation of Flood Mitigation Planning into Local Ordinances And Master Planning	The Township should revise its existing Flood Damage Prevention Ordinance to incorporate the suggested recommendations from the State Flood Plain Management Program.	Carried Forward	Both	Flood	1,8	Engineering & Planning Departments	Medium	Long	Township Operating Budget	Short	Medium	Capability, PR,ES	Ongoing. Flood Damage Prevention Ordinance was updated incorporating recommendations from the State Flood Plain Management Program. FIRM mapping along Millstone River was revised, prompting the need for the ordinance revisions.

SECTION 9.9: TOWNSHIP OF FRANKLIN

Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative or Carried Forward	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
FL07	Disaster Mitigation	The Township should include disaster mitigation planning as an element in its Master Plan. The Flood Mitigation Plan should be incorporated by reference into the Township Master Plan.	Carried Forward	Both	All	1,8	Planning Department	Medium	Long	Township Operating Budget	Short	Medium	Capability, PR	Ongoing. Disaster mitigation and Flood Mitigation Plan to be added at next Master Plan update. To be completed as part of Township Master Plan update.
FL08	Public Property, Institutional and Critical Facility Flood Mitigation	The Township should work with individual critical facility owners to enhance their level of flood protection to the base flood elevation (1% or 100 year flood). *Facilities include Zarepath Christian School, Somerset Christian School, East Millstone First Aid Squad, North Brunswick Water Plant, Willow Creek Rehab & Care Center, Guild Housing	Carried Forward	Existing	Flood, Severe Storm	3,4,5,7	OEM, Engineering & Planning Departments	High	Low	Township operating Budget	Short	Medium	Action/ Project, PR PP	Ongoing. Pillar of Fire has reconstructed the levee around their facility to the 100-year flood elevation. There is lack of support or funding for the other projects.
FL09	Pillar of Fire Mitigation	The Township should work with the Pillar of Fire to encourage the full implementation of their Master Plan to expand their physical plant outside of the flood plain. The Township should also work with Pillar of Fire to minimize or avoid future development of land planned for disposal in the 100 and 500 year flood plain.	Carried Forward	Both	Wildfire, Flood	3,4,5,7,10	Planning Department	High	Low	Township Operating Budget	Long Term	Medium	Action/ Project, C	Ongoing. Pillar of Fire has moved the majority of their day to day operations outside of the levee protected area and outside of the 100-year flood zone. Some buildings remain due to funding and historical reasons.
FL10	Public Building Mitigation	The Township should work with the various State agencies (including the New Jersey Department of Environmental Protection Parks and Forestry, Delaware and Raritan Canal Commission, and New Jersey Water Supply Authority) to assure that, during rehabilitation and restoration of the historic structures, all necessary measures are taken by the State of New Jersey to adequately minimize future structure and content losses due to flooding. Specifically, the State and Twp. should work for the adaptive re-use of the structures, with the placement of all important equipment (furnace, hot water heater, refrigerator, etc.) on the second floor, so that the structures could undergo flooding of the first floor with minimal damages to contents.	Carried Forward	Existing	Flood	3,4	Engineering Department	High	Low	Township Operating Budget	Long Term	Medium	Action/ Project, PP	Not initiated; staffing/funding. Carried forward with no change from the 2014 HMP.

Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative or Carried Forward	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
FL11	Private Property Mitigation	The Township shall carry out a survey of flood-prone property owners in the Millstone River and Raritan River corridors to determine their level of interest in determining the feasibility and cost of various flood mitigation measures including acquisition and demolition, elevation, flood proofing, and relocation.	Carried Forward	Both	Flood	4,5,13	Engineering Department	High	Medium	Township Operating Budget	Long Term	Medium	Action/Project, PR PP PE	Not initiated; staffing/funding. Carried forward with no change from the 2014 HMP.
FL12	Funding Identification	Franklin Township should identify and evaluate various funding sources at the Federal, State, County and local level as well as from the private sector that could individually or collectively provide the local share for funding flood mitigation measures.	Carried Forward	Both	Flood	3,12	Engineering Department	Medium	Low	See Below <sup>1</sup>	Ongoing	Medium	Action/Project, PR	Not initiated; staffing/funding. Carried forward with no change from the 2014 HMP.
FL13	Property Audits	The Township shall, with the permission of interested owners, conduct individual property audits to determine the impact of flooding on the contents and structure of individual properties.	Carried Forward	Existing	Flood, Severe Storm	4,8	Building Department	Low	See below <sup>2</sup>	Township Operating Budget	Long Term	Medium	Action/Project, PR PE	Not initiated; staffing/funding. Carried forward with no change from the 2014 HMP.
FL14	Flood Mitigation Evaluations	The Township shall, with the permission of interested owners, implement appropriate options for flood mitigation. Appropriate measures will be determined on the basis of the cost of the option, the eligibility of the property for financial assistance based on its NFIP damage claim history, engineering feasibility, historic and environmental review, and property owner acceptability.	Carried Forward	Existing	Flood	4,8	Building, Planning & Engineering Departments	High	High	Township Operating Budget, FEMA Hazard Mitigation Grants	Long term	Medium	Action/Project, PR PP	Not initiated; staffing/funding. Carried forward with no change from the 2014 HMP.
FL15	Open Space Planning	Promote open space uses within the floodplain via land use, and/or voluntary property acquisition	Carried Forward	Both	Flooding	4,5,8,10	Open Space	High	High	Township Operating Budget, FEMA Hazard Mitigation Grants	Long	Medium	Capability, PR	Ongoing. Through the Township's Open Space Fund, hundreds of acres within flood prone areas have been acquired.

<sup>1</sup> NRC Service PL83-566 Program and the FEMA Flood Mitigation Program will provide up to 75% to implement nonstructural measures. The remaining cost is covered under "local" funds; State, County and local governments, individual property owners and private sector loans.

<sup>2</sup> Estimated cost per property would be \$1000. (Estimate of mitigation costs and capital local cost share budgeting can occur after survey, analysis and audits are complete)

SECTION 9.9: TOWNSHIP OF FRANKLIN

Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative or Carried Forward	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
FL16	Records Management - Flood	Obtain/record/maintain historical data including flood marks, road closures, wild fires, etc.	Carried Forward	Existing	Flooding, Wildfire	8	Scott Thomas, Senior Engineer	Medium	Medium	Township Operating Budget, FEMA - Public Assistance funding	OG/Long Term, DOF	Medium	Capability, PR	Ongoing. Information on historical flooding is being collected as it becomes available such as the high water marks from Hurricane Irene.
FL17	Mutual Aid Agreements	Create and enhance mutual aid agreements with neighboring communities for continuity of operations	Carried Forward	Existing	All	3,7	Public Works & Emergency Management	High	Medium	Township Operating Budget	Short	Medium	Capability, PR ES	Ongoing. A number of mutual aid agreements are now in place. Continue to pursue mutual aid opportunities.
FL18	Records Management - Critical Facilities	Warehouse information on critical facilities and infrastructure components for use in mitigating natural hazards	Carried Forward	Existing	All	6,7,8	Carl Hauck, Assistant Township Engineer; Engineering (GIS)	Medium	Medium	Township Operating Budget	Short DOF	Medium	Capability, PR ES	Ongoing. Water Department assets such as hydrants and valves have been located utilizing GPS and uploaded into the Township's GIS. Detention basins and outfalls have been located but, due to staffing, not all inlets have been.
FL19	Debris Removal Plan	Develop post disaster plan that includes debris removal components	Carried Forward	Existing	Flood, Severe Storms	6,7	Public Works	Medium	Medium	FEMA Mitigation Grants, DHS grants (EMPG)	Short DOF	Medium	Capability, PR ES	Ongoing. All hazards plan - NJDEP removal site updates with county.
FL20	Emergency Response Plan	Continue to develop, enhance and implement existing emergency response plans to utilize new and developing technology/information as it becomes available	Carried Forward	Existing	All	6,7,13	Emergency Management	Medium	Medium	Township Operating Budget	Short	Medium	Action/Project, PR ES	Ongoing. Emergency Management continues enhancing emergency response plans with technology within budget restraints.
FL21	Building Inventory Update	Enhance the building inventory to include structure values for future use of the HAZUS program	Carried Forward	Both	Floods, Severe Storms, Severe Winter Storms and Earthquake	8	Construction Code	Medium	Medium	FEMA Hazard Mitigation Grants, Township Operating Budget	Long DOF	Medium	Action/Project, PR	Not initiated; staffing/resources.
FL22	HAZUS Program Updates	Provide higher resolution DEM for future use of the HAZUS program	Carried Forward	Both	Floods, Severe Storms, Severe Winter Storms and Earthquake	8	Engineering (GIS)	Medium	Medium	FEMA's Map Mod/ Risk Map programs	Long DOF	Medium	Action/Project, PR	Not initiated; staffing/resources.
FL23	Repetitive Loss Evaluation	Where appropriate, support retrofitting of structures located in hazard-prone areas to protect structures from future damages, especially those known to be identified as "repetitive loss" including properties in the Millstone River and Griggstown sections of the Township.	Carried Forward	Existing	Floods	4,8,12	Construction Code	High	Low	FEMA FMA, SRL, RFC, HMGP or PDM Grant and Township operating budget for cost share	Long	Medium	Action/Project, PP	Not initiated; staffing/resources.



Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative or Carried Forward	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
FL24	CRS Programs	Strive to maintain compliance with and good-standing in the National Flood Insurance Program and the Community Rating System program.	Carried Forward	Both	Flood	12	Scott Thomas, Senior Engineer	Medium	Low	Operating Budget	Short	Medium	Capability, PR PE	Ongoing. CRS rating lowered from 7 to 6 in 2015.
FL25	Public Education - Flooding	Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction: 1. Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. 2. Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. 3. Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. 4. Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.	Carried Forward	N/A	All Hazards	5,13	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	Medium	Medium	Municipal Budget, HMA programs with local or county match	Short Term	High	Capability, PE	Ongoing through Township website, newsletter, direct mailings and email/text notification systems
FL26	Zoning Ordinance Updates	Incorporate ordinances and/or zoning restrictions to control and mitigate future development in hazard areas, specifically as identified in Section 9.9.11.	Carried Forward	N/A	All Hazards	8,9,10	Municipality with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	Capability, PR	Ongoing; ordinance and NJDEP regulations on development.

Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative or Carried Forward	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
FL27	Records Management	Develop programs/ procedures to capture and archive loss data from events. Examples include: 1. Record location and length of roadway closures; 2. Develop a database of residential and commercial property damage, including permit history for such repairs; 3. High water marks, perhaps painting phone poles with high water marks and or regulatory Base Flood Elevations (BFEs).	Carried Forward	N/A	All Hazards	8	Municipality with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	Capability, PR	Not initiated; staffing/resources.
FL28	Emergency Management Plan	Support ongoing updates of Comprehensive Emergency Management Plans	Carried Forward	New and Existing	All Hazards	6,7,13	Municipality with support from County Emergency Management	Low	Low	Municipal Budget	On-going	High	Capability, PR	Ongoing; Coordination with County OEM.
FL29	Post-Disaster Support Personnel	Identify and develop agreements with entities that can provide support with FEMA/NJOEM paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/NJOEM paperwork compilation, submissions, record-keeping	Carried Forward	N/A	All Hazards	3,7	Municipality with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget	Short Term	Medium	Action/ Project, PR, ES	Ongoing; on-call contractors.
FL30	Assessment Capabilities	Work with regional agencies (i.e. County and NJOEM) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers).	Carried Forward	N/A	All Hazards	3,7	Municipality with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget, FEMA HMA and HLS grant programs	Short-Long Term DOF	Medium	Action/ Project, PR	Ongoing. Damage assessment through Engineering & Building Departments.
FL31	Plan Updates	Continue to support the implementation, monitoring, maintenance, and updating of this Plan (through participating in the 5 year Plan Update), as defined in Section 7.0	Carried Forward	New and Existing	All Hazards	6,7,13	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	High	Low – High (for 5 year update)	Municipal Budget, FEMA HMA and HLS grant programs	Short-Long Term DOF	Medium	Capability, PR	Ongoing; Township continues to support.
FL32	Elevation Certificates	Obtain and archive elevation certificates	Carried Forward	New and Existing	Flood, Severe Storm	8	NFIP Floodplain Administrator	Medium	Low	Municipal Budget, FEMA planning grants	On-going	High	Capability, PR	Ongoing. Engineering Department collects elevation certificates as part of CRS program.
FL33	Floodplain Administrators	Promote the participation of Floodplain Administrators within the planning process and other activities.	Carried Forward	N/A	Flood	All	Municipality with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget	On-going	High	Capability, PR	Ongoing; Township Floodplain Manager participates in activities.



Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative or Carried Forward	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
FL34	Storm Ready	Enhance the County/community resilience to severe storms (incl. severe winter storms) by joining the NOAA "Storm Ready" program and supporting communities in joining the program.	Carried Forward	N/A	Severe Storm	12	Municipality with support from County, NJOEM and FEMA	Medium	Low	Municipal Budget	Short Term DOF	Medium	Capability, PE	Not initiated; staffing/resources.
FL35	Backup Owner Fees	Implement permit fee waivers for installation of backup power for private property.	Carried Forward	N/A	Severe Storm	2,3,5	Municipal Council	Medium	Low	Municipal Budget	Short	High	Action/Project, PR	Not initiated; resources.
FL36	Backup Power Outreach	Provide public education and outreach on proper installation and/or use of backup power	Carried Forward	N/A	Severe Storm	13	Municipal Clerk	Medium	Low	Municipal Budget	Short	High	Action/Project, PR	Not initiated; staffing/resources.
FL37	Tree Programs	Implement, review, and enforce municipal policies and programs to prevent trees from threatening lives and impacting power availability/interruption.	Carried Forward	N/A	Severe Storm	2,3,5,8	Municipal Code Enforcement	Medium	Low	Municipal Budget	Short	High	Action/Project, PR	Ongoing. Routine Public Works trimming and zoning enforcement of private properties

Notes:

\* 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:

- ARC American Red Cross
- DPW Department of Public Works
- FEMA Federal Emergency Management Agency
- HMA Hazard Mitigation Assistance
- HMP Hazard Mitigation Proposal
- N/A Not applicable
- NFIP National Flood Insurance Program
- NJOEM New Jersey Office of Emergency Management
- NOAA National Oceanic and Atmospheric Administration
- SCPD Somerset County Planning Department
- USACE U.S Army Corp of Engineers
- USGS U.S. Geological Survey

Potential FEMA HMA Funding Sources:

- FMA = Flood Mitigation Assistance Grant Program
- HMGP = Hazard Mitigation Grant Program
- PDM = Pre-Disaster Mitigation Grant Program
- RFC = Repetitive Flood Claims Grant Program
- SRL = Severe Repetitive Loss Grant Program

Timeline:

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

Notes (for Mitigation Type):

- 1. PR = Prevention: 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.
- 2. PP = Property Protection: These actions include public activities to reduce

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:



Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative or Carried Forward	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status

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 reapportionment 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.

- 3. PE = Public Education and Awareness: 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.
- 4. NR = Natural Resource Protection: 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.
- 5. SP = Structural Projects: 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.
- 6. ES = Emergency Services: 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.
- 7. Initiative= Initiatives are comprised of EVERYTHING your community wants to do or is doing in order to meet its mitigation goals. Initiatives include Capabilities, Actions and Projects.
- 8. Capability= Regulatory, administrative, technical, and fiscal staffing, tools and/or resources. Capabilities can be existing, or in need of further development/expansion.
- 8. Action/Project= Specific activities or projects that your community plans to undertake or is currently completing in order to achieve its long term mitigation goals. Actions/Projects can include, but are not limited to: structural projects, infrastructure projects, natural systems protection projects, or education and awareness programs.

### 9.9.8 PRIORITIZATION OF MITIGATION INITIATIVES

The table below summarizes the priority levels for each mitigation initiative, listed by number.

Prioritization of Mitigation Initiatives							
Initiative #	# of Objectives Met	Benefits	Costs	Do benefits equal or exceed costs? (Yes or No)	Is project Grant eligible? (Yes or No)	Can project be funded under existing programs/budgets? (Yes or No)	Priority (High, Med., Low)
FL1	3	M	M	N	Y	N	M
FL2	3	M	H	Y	Y	N	L
FL3	2	M	M	Y	Y	N	M
FL4	2	M	M	N	Y	Y	M
FL5	2	M	L	Y	Y	Y	M
FL6	2	M	L	Y	N	Y	M
FL7	2	M	L	Y	N	Y	M
FL8	4	H	L	Y	N	Y	M
FL9	5	H	L	Y	N	Y	M
FL10	2	H	L	Y	N	Y	M
FL11	3	H	M	Y	N	N	M
FL12	2	M	L	Y	N	Y	M
FL13	2	L	M	Y	N	N	M
FL14	2	H	M	Y	N	N	M
FL15	4	H	H	Y	Y	N	M
FL16	1	M	M	Y	N	Y	M
FL17	2	H	M	Y	N	Y	M
FL18	3	M	M	Y	N	Y	M
FL19	2	M	M	Y	N	Y	M
FL20	3	M	M	Y	N	Y	M
FL21	1	M	M	Y	N	Y	M
FL22	1	M	M	N	N	N	M
FL23	3	H	L	Y	N	Y	M
FL24	1	M	L	Y	N	Y	M
FL25	2	M	M	Y	Y	Y	H
FL26	3	M	M	Y	N	Y	M
FL27	1	M	M	Y	N	Y	M
FL28	3	L	L	Y	N	Y	H
FL 29	2	M	M	Y	N	Y	M

FL30	2	M	M	Y	N	Y	M
FL31	3	M	M	Y	N	Y	H
FL32	1	H	L-M	Y	N	Y	H
FL33	13	M	M	Y	N	Y	M
FL34	1	M	L	Y	N	Y	M
FL35	3	M	L	Y	N	Y	H
FL36	1	M	L	Y	N	Y	H
FL37	4	M	L	Y	N	Y	H

## Notes:

H = High

L = Low

M = Medium

N = No

Y = Yes

### 9.9.8.1 Explanation of Priorities

Explanations of priority classifications used to assess the mitigation initiatives described in this annex are presented below:

High Priority = A project that meets multiple objectives (i.e., multiple hazards), where potential benefits exceed the costs. High-priority projects have funding secured or are on-going projects that meet eligibility requirements for the Hazard Mitigation Grant Program (HMGP) or Pre-Disaster Mitigation (PDM) Grant Program. High-priority projects can be completed in the short term (1 to 5 years).

Medium Priority = A project that meets goals and objectives, where the potential benefits outweigh the costs. Funding for medium-priority projects has not been secured but these projects are eligible for grants under HMGP, PDM, or other grant programs. These projects can be completed in the short term, once funding is completed. Medium-priority projects will become high-priority projects once funding is secured.

Low Priority = A project that will mitigate the risk of a hazard, where the potential benefits do not exceed the costs or have benefits that are difficult to quantify. Funding for low-priority projects has not been secured and these projects are not eligible for HMGP or PDM grant funding. The timeline for completion is considered long term (1 to 10 years). Low-priority projects may be eligible other sources of grant funding from other programs. A low-priority project could become a high-priority project once funding is secured as long as it could be completed in the short term.

Was prioritization of initiatives based on the above definitions? Yes

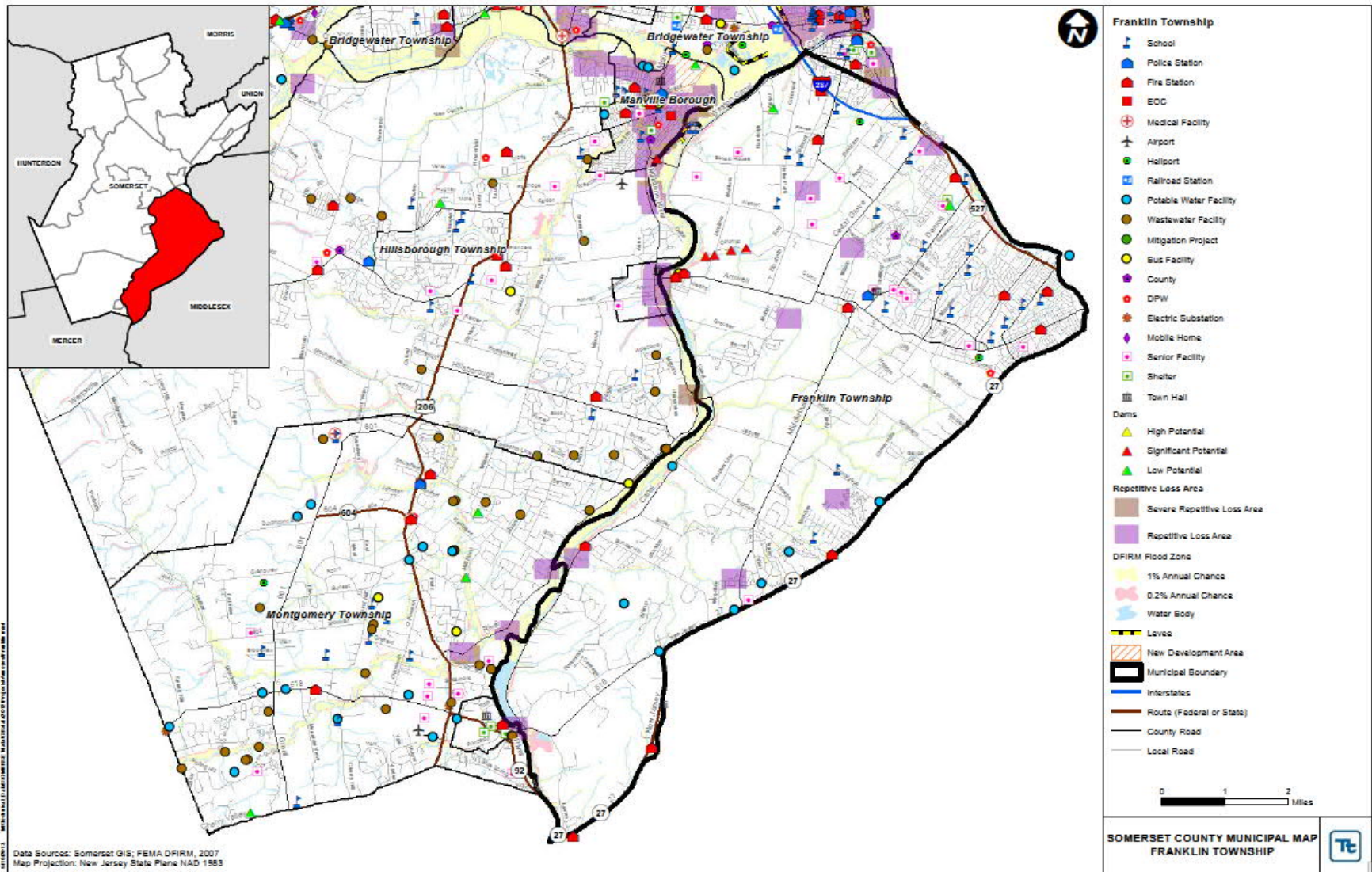
Was prioritization of initiatives based on parameters other than those stated above? Not applicable

### 9.9.9 FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY

The Township of Franklin has no additional risk vulnerabilities that need to be addressed at this time.

### 9.9.10 HAZARD AREA EXTENT AND LOCATION

A hazard area extent and location map illustrating the probable areas impacted within Franklin Township is provided on the following page. This map is based on the best data available at the time of the preparation of this plan, and is 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 Franklin Township has significant exposure. The planning area maps are provided in the hazard profiles within Section 5.4 of this plan.





### 9.9.11 STATUS OF INCORPORATION OF MITIGATION PLANNING INTO EXISTING AND FUTURE PLANNING MECHANISMS

It is the intention of Franklin Township to incorporate mitigation planning as an integral component of daily municipal operations. The following table contains a list of planning mechanisms that have been utilized during prior plan maintenance cycles, and those that will be incorporated into municipal procedures during the upcoming plan maintenance cycle (2019-2024).

Status of Incorporation of Mitigation Planning into Existing and Future Planning Mechanisms				
Planning Mechanisms	Reported Utilization (2009-2014)	Planned Utilization (2014-2019)	Reported Utilization (2014-2019)	Planned Utilization (2019-2024)
<b>Operating Budget</b> When constructing upcoming budgets, hazard mitigation actions will be funded as budget allows. Construction projects will be evaluated to see if they meet the hazard mitigation goals and objectives.	X	X	-	X
<b>Capital Improvement Budget</b> When constructing upcoming budgets, hazard mitigation actions will be funded as budget allows. Construction projects will be evaluated to see if they meet the hazard mitigation goals and objectives.	X	X	-	X
<b>Human Resource Manual</b> Employee job descriptions may contain hazard mitigation actions.	X	X	-	-
<b>Building and Zoning Ordinances</b> Prior to land use, zoning changes, or development permitting, the municipality will review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use.	X	X	-	X
<b>Comprehensive Land Use Plan</b> When applicable, the municipality will incorporate hazard mitigation actions in the development and extent of the regulations.	X	X	-	-
<b>Grant Applications</b> Data and maps will be used as supporting documentation in grant applications.	X	X	-	X
<b>Municipal Ordinances</b> When updating municipal ordinances, hazard mitigation will be a priority.	X	X	-	X
<b>Fire Plan</b> The Hazard Mitigation Plan will be used as a resource for the development of future Fire Plans.	-	X	-	X
<b>Capital Improvement Planning</b> The municipality will establish a protocol to review current and future projects for hazard vulnerability. The municipality will incorporate hazard-resistant construction standards into the design and location of projects.	X	X	-	X

Status of Incorporation of Mitigation Planning into Existing and Future Planning Mechanisms				
Planning Mechanisms	Reported Utilization (2009-2014)	Planned Utilization (2014-2019)	Reported Utilization (2014-2019)	Planned Utilization (2019-2024)
<b>Day-to-Day Operations</b> The municipality will incorporate hazard mitigation actions in daily operations and all projects.	X	X	-	-
<b>Local School Service Projects</b> The municipality will work closely with the local school district and assist with community service projects for the service organizations. Several of the municipality's hazard mitigation actions can be implemented as a joint project with the school district.	-	X	-	-
<b>Municipal Budget</b> Adopted annually, the municipality will look at mitigation actions when allocating funding.	X	X	-	X
<b>Economic Development</b> The local economic development group will take into account information regarding identified hazard areas when assisting new businesses in finding a location.	-	X	-	X

**9.9.12 ADDITIONAL COMMENTS**

There are no additional comments at this time.

**9.9.12 NFIP ADMINISTRATOR INPUT**

The Township provided the following NFIP Administrator information in 2018, for inclusion in the 2019 HMP.

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP <sup>1</sup>	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)		Is this person a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Is your community in good standing with the NFIP?	
10/25/2016	5/15/1980	Senior Engineer/CRS Coordinator		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability, etc.):							
Review of all Planning and Zoning Board applications and all zoning and building permits to ensure compliance with NFIP regulations. Utilize Township GIS to identify properties impacted by flooding. Provide education and outreach through articles published in the Township newsletter. Perform engineering inspection of all new residential and commercial construction. Assist public with flooding and flood zone determination questions.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
5/06/2014	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No * Class <u>0</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							



<b>Provide an explanation of your local floodplain permitting process:</b>								
The Engineering Department reviews all permits for construction that involve an increase in surface area (new dwellings, additions, garages, sheds, etc.) and all soil movement activities in order to confirm that they would not impact the floodplain. If any potential impact is discovered, the Department denies all applications until proper approval is obtained from the NJDEP.								
Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the Initial Hazard Mitigation Plan?			As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2014?		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>* If you answered "yes", that there have been changes to your local program since 2009, please describe:</b>								
Chapter 192 of the Franklin Township Municipal Code, Flood Damage Protection, was repealed and replaced on October 25, 2016 (effective date November 14, 2016) to incorporate changes mandated by the NJDEP and to adopt the Flood Insurance Study and the revised Flood Insurance Rate Maps with an effective date of November 4, 2016.								
<b>Provide a description of your community assistance and monitoring activities:</b>								
The Township Engineering Department provides assistance in the form of site visits and recommendations to residents and businesses to help minimize flooding. After large flooding events the Engineering Department documents damage and flood levels throughout the Township in order to plan for future events.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?				
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				