

SOMERSET COUNTY



SOMERSET COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

FINAL PLAN UPDATE JULY 2019

www.co.somerset.nj.us/hmp

Section 9.14: Township of Montgomery Annex

Prepared by the Somerset County Mitigation Planning Committee



9.14 Township of Montgomery

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

9.14.1 HAZARD MITIGATION PLAN POINTS OF CONTACT

Hazard Mitigation Plan Points of Contact					
Primary Point of Contact	Alternate Point of Contact				
Name: Sean Devlin, Municipal Hazard Mitigation Officer Address: 2261 Van Horne Road - Route 206 North Belle Mead, New Jersey 08502 Phone Number: 908-359-8211 Fax Number: E-mail Address: sdevlin@police.motgomery.nj.us	Name: John Ferrara Address: 2261 Van Horne Road - Route 206 North Belle Mead, New Jersey 08502 Phone Number: 908-359-8211 Fax Number: E-mail Address: jferrara@police.montgomery.nj.us				

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	Lori Savron	slsacron@twp.montgomery.nj.us	(908) 359-8211	9/3/2017	Yes
Emergency Manager	Sean Devlin	sdevlin@police.montomgery.nj.us	(908) 359-8211	9/3/2017	Yes
Floodplain Manager/ Floodplain Administrator	Gail Smith	gsmith@twp.montgomery.nj.us	(908) 359-8211	9/3/2017	Yes
Public Works Director / City Engineer	Art villano	avillano@twp.montgomery.nj.us	908-359-8211	9/3/2017	Yes
Building Code Official					
Fiscal/Budget Officer	Mike Pitts	mpitts@twp.montgomery.nj.us	908-359-8211	9/3/2017	Yes
Manager/Administrator	Donato Nieman	dnieman@twp.montgomery.nj.us	908-359-8211	9/3/2017	Yes
Elected Officials	Ed Trzaska	etrzaska@twp.montgomery.nj.us	908-359-8211	9/3/2017	Yes
Other 1:	Jack Ferrara	jferrara@police.montomgery.nj.us	908-359-8211	9/3/2017	Yes

9.14.2 PROFILE

9.14.2.1 Population

The population of Montgomery Township is estimated to be 22,254, based on information gathered during the 2010 U.S. Census. Census population estimates as of July 2017 indicated a total population of 23,584.

9.14.2.2 Location

Montgomery Township is the most southern municipality within Somerset County. The Millstone River runs between Montgomery Township and Franklin Township at the eastern border, Mercer County borders to the south and west, and Hillsborough lies to the north.

9.14.2.3 Brief History

Established in 1702 by Dutch and English Settlers, Montgomery Township continues to combine a unique convenience of location with the lifestyle features sought by residents and businesses. Located in the



southern portion of Somerset County – six miles from Princeton University and roughly half way between New York City and Philadelphia – the Township is a 32 square mile community interspersed with historic sites. It has an agricultural heritage that can still be seen today, although much surbanization has occurred.

Montgomery is a thriving community with a rich history, excellent schools, diverse recreation opportunities and a collective commitment to preserving open land and protecting natural resources. The community has successfully merged rural and suburban lifestyles in a cosmopolitan region.

9.14.2.4 GOVERNING Body Format

The governing body of Montgomery Township consists of a mayor, deputy mayor, and three council members. The Township also contains departments of administration, engineering, finance, health, planning/zoning/code, public safety, public works, and recreation.

9.14.2.5 GROWTH/Development Trends

The following table summarizes major residential/commercial development and major infrastructure development that are identified for the next five (5) years in the Township.

	Potential New Development by Jurisdiction								
Property Name	Type (Residential or Commercial)	Number of Structures	Address	Block and Lot	Known Hazard Zone	Description /Status			
Western Pest	Commercial	Not provided	Not provided	35002/9	Not provided	Office - Estimated year for added assessment 2018; tear down existing and build new			
Land Rover/Jaguar	Commercial	Not provided	Not provided	34001/60,61, 62	Not provided	Auto Dealership - Estimated year for added assessment 2018			
Madison Marquette's Montgomery Promenade	Commercial	Not provided	Not provided	34001/45,56, 57,77,78,79, 80	Not provided	Retail - Estimated year for added assessment 2020			
Goddard School	Commercial	Not provided	Not provided	28006/67	Not provided	Day Care Facility - Estimated year for added assessment 2020			
The Grove at Montgomery	Commercial	Not provided	Not provided	6001/1	Not provided	Retail - Estimated year for added assessment 2018			
Montgomery Place	Commercial	Not provided	Not provided	5023/2 and a portion of former 206 bypass reservation	Not provided	Retail - Estimated year for added assessment: 2018- CVS, operations building, and 1 retail building; 2019-2020 remainder of retail			
Continuing Care Community	Commercial	Not provided	Not provided	portion of 4001/33& 33.01	Not provided	Continuing Care - Estimated year for added assessment post-2019; development map proposes change in land use			

Potential New Development by Jurisdiction							
Property Name	Type (Residential or Commercial)	Number of Structures	Address	Block and Lot	Known Hazard Zone	Description /Status	
Village Walk at Montgomery	Commercial	Not provided	Not provided	28005/65,66, 68,68	Not provided	Retail - Estimated year for added assessment 2020; tear down existing and build new	
Audi Service Center	Commercial	Not provided	Not provided	34001/34	Not provided	Automobile Service Center - Estimated year for added assessment 2020	
Baker Chrysler	Commercial	Not provided	Not provided	34001/57	Not provided	Auto Dealership - Estimated year for added assessment 2020	
Research Park	Commercial	Not provided	Not provided	35001/14	Not provided	Office - Estimated year for added assessment post- 2020; project on hold	
Land Rover/Jaguar	Commercial	Not provided	Not provided	35002/13	Not provided	Auto Dealership - Estimated year for added assessment post-2020; project on hold	

The Township will enforce its flood-plain management ordinance and other local ordinances and regulations to protect new development and substantial improvements in the floodplain.

9.14.3 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 from 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	The runoff from waves of heavy precipitation caused minor to moderate flooding along the Millstone River that lasted through the night of the 31st and into the late afternoon of April 1st. The flooding forced the closure of sections of Millstone River Road in Montgomery Township. Event precipitation totals included 2.99 inches in Montgomery.		
Flood	N/A	N/A	April 1, 2014	The runoff from waves of heavy precipitation caused minor to moderate flooding along the Millstone River that lasted through the night of the 31st and into the late afternoon of April 1st. The flooding forced the closure of sections of Millstone River Road in Montgomery Township. Event precipitation totals included 2.99 inches in Montgomery.		
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	Very heavy rain caused considerable poor drainage flooding in Somerset County as well as major river flooding. Event precipitation totals included 4.52 inches in Montgomery Township. Two million dollars in damages were reported countywide.		
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	Thunderstorms with very heavy rain caused flash flooding of roadways and smaller streams in central Somerset County Event precipitation totals included 2.35 inches in Montgomery Township.			
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	The runoff from heavy rain, especially in the headwater region of the Millstone River caused minor flooding along the Millstone River at nearby Griggstown where the river crested at 11.76 feet. Event precipitation totals included 1.40 inches in Montgomery Township.			
Earthquake, Magnitude 1.9, 13 km SE of Twin Rivers, NJ (Millstone Twp)	N/A	N/A	December 13, 2014	No local damage reported			
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	Heavy rain caused poor drainage flooding as well as flooding along waterways in Somerset County. The Millstone River at nearby Griggstown had moderate flooding and crested at 12.91 feet. Event precipitation totals included 1.92 inches in Montgomery Township.			
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			

Natural Hazard Event History (2014 to present)							
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment			
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	The combination of rain and snowmelt caused moderate flooding along the Millstone River from the morning of the 11th through the afternoon of the 13th. At nearby Griggstown, the Millstone crested at 12.45 feet. Event precipitation totals included 0.34 inches in Montgomery Township.			
Flood	N/A	N/A	March 14, 2015	Runoff from additional rainfall combined with snowmelt caused minor flooding along the Millstone River from the afternoon of the 14th through the morning of the 16th. Minor flooding occurred along the Millstone River at nearby Griggstown, which crested at 11.80 feet. Event precipitation totals included 0.93 inches in Montgomery Township.			
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			
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			

Natural Hazard Event History (2014 to present)							
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment			
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			
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	No local damage reported			
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	Stationary clusters of thunderstorms in the central part of the state caused heavy rain, severe flash flooding, and power outages. Heavy rain was reported in Belle Mead (in Montgomery Township).			
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			
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			

	Natural Hazard Event History (2014 to present)							
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment				
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 Bellmar, 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				
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	Severe thunderstorms caused minor street flooding in Belle Mead (in Montgomery Township).				
Flood	N/A	N/A	August 22, 2017	No local damage reported				
Heavy Rain	N/A	N/A	August 23, 2017	Severe thunderstorms formed ahead of a cold front. Almost two and half inches of rain fell in Belle Mead (in Montgomery Township).				
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.				



		al Hazard Even	t History (2014 to p	resent)
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	The runoff from waves of heavy precipitation caused minor to moderate flooding along the Millstone River that lasted through the night of the 31st and into the late afternoon of April 1st. The flooding forced the closure of sections Millstone River Road in Montgomery Township. Event precipitation totals included 2.99 inches in Montgomery.
Flood	N/A	N/A	A pril 1, 2014	The runoff from waves of heavy precipitation caused minor to moderate flooding along the Millstone River that lasted through the night of the 31st and into the late afternoon of April 1st. The flooding forced the closure of sections Millstone River Road in Montgomery Township. Event precipitation totals included 2.99 inches in Montgomery.
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	Very heavy rain caused considerable poor drainage flooding in Somerset County as well as major river flooding. Event precipitation totals included 4.52 inches in Montgomery Township. Two million dellars in damages were report countywide.
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
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

Note:
DR = Major Disaster Declaration
EM = Emergency Declaration
N/A = Not applicable



9.14.4 NATURAL HAZARD RISK/VULNERABILITY RISK RANKING

The table below summarizes the vulnerability risk rankings of potential hazards of the Township of Montgomery (updated in 2018).

Natural Hazard Risk/Vulnerability Risk Ranking							
Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b			
Flood	1% Annual Chance: \$29,600,000	Frequent	18	Medium			
	0.2% Annual Chance: \$55,200,000						
	100-Year MRP: \$4,206,986						
Severe Storm	500-Year MRP: \$16,039,959	Frequent	39	High			
3 10	Annualized Loss: \$147,605						
Severe	1% of GBS: \$33,090,790	Frequent	27	Medium			
Winter Storm	5% of GBS: \$165,453,950	Frequent	21	Mediam			
	500-Year MRP: \$4,871,940						
Earthquake	2,500-Year MRP: \$73,212,214	Occasional	12	Low			
	Annualized Loss: \$74,422						
Drought	Not available	Occasional	20	Medium			
Extreme Temperature	Not available	Frequent	18	Medium			
Wildfire	Not available	Occasional	32	High			

Note

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
- b. The valuation of general building stock and loss estimates was based on custom inventory for 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
- d. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.
- e. Loss estimates for the flood and earthquake hazards represent both structure and contents.
- f. The HAZUS-MH earthquake model results are reported by Census Tract.

9.14.5 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.

9.14.5.1 Legal and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Township of Montgomery. The Township reviewed its responses from the 2014 HMP and has indicated that all prior feedback is still applicable.

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	Township Engineer & Construction Official	Township of Montgomery Code Chapter 16 International Building Code – New Jersey Edition, NJAC 5:24-3.14; 2/20/07			
2) Zoning Ordinance	Y	Township Planner	Township of Montgomery Code Chapter 16			
3) Subdivision Ordinance	Y	Township Planner	Township of Montgomery Code Chapter 16			
4) NFIP Flood Damage Prevention Ordinance	Υ	-	Township of Montgomery Code Chapter 16; Flood Damage Prevention Ordinance; 9/20/07			
4a) Cumulative Substantial Damages	-	-	-			
4b) Freeboard	-	-	-			
5) Growth Management	Y	Township Planner	Township of Montgomery Code Chapter 16			
6) Floodplain Management / Basin Plan	Y	Township Engineer & Planner	Township of Montgomery Code Chapter 16			
7) Stormwater Management Plan/Ordinance	Y	Township Engineer & Planner	Municipal Stormwater Management Plan; 8/10/05			
8) Comprehensive Plan / Master Plan/ General Plan	Y	Township Planner	Township of Montgomery Code Chapter 16 & Twp. Master Plan			
9) Capital Improvements Plan	Υ		40.4 NJ State Statute			
10) Site Plan Review Requirements	Y	Township Engineer & Planner	Township of Montgomery Code Chapter 16			
11) Open Space Plan	Y	Township Planner	Township of Montgomery Code			

	Legal and Re	gulatory Capability	
Regulatory Tools (Codes, Ordinances, Plans)	Do you have this? (Y or N)	Enforcement Authority	Code Citation (Section, Paragraph, Page Number, Date of Adoption)
12) Stream Corridor Management Plan	N		
13) Watershed Management or Protection Plan	N	-	-
14) Economic Development Plan	Y	Township Planner	Township of Montgomery Code Chapter 2; 7/21/2005
15) Comprehensive Emergency Management Plan	Y	OEM	Township of Montgomery Code
16) Emergency Response Plan	Y	OEM	Township of Montgomery Code Chapter 2; 7/21/2005
17) Post-Disaster Recovery Plan	Y	OEM	OEM plan
18) Post-Disaster Recovery Ordinance	N	-	-
19) Real Estate Disclosure Requirement	N	-	-
20) Other (Special Purpose Ordinances such as critical or sensitive areas)	Y	-	N.J.S.A. 45:15-16.41(a)

9.14.5.2 Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to Montgomery. The Township reviewed its responses from the 2014 HMP and has indicated that all prior feedback is still applicable.

Administrative a	nd Techi	nical Capability
Staff / Personnel Resources	Available (Y or N)	Department / Agency / Position
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Υ	Township Engineer & Planner
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Township Engineer & Construction Official
Planners or engineers with an understanding of natural hazards	Υ	Township Engineer & Planner
4) NFIP Floodplain Administrator	Υ	Gail Smith, Township Engineer
5) Surveyor(s)	Υ	Township Engineering Aides
6) Personnel skilled or trained in GIS applications	Υ	GIS Department
7) Scientist familiar with natural hazards	N	
8) Emergency Manager	Υ	Township OEM Coordinator & Deputy OEM Coordinator
9) Grant Writer(s)	Υ	Township Planner
10) Staff with expertise or training in benefit/cost analysis	Y	-

9.14.5.3 Fiscal Capability

The table below summarizes financial resources available to Montgomery Township. The Township reviewed its responses from the 2014 HMP and has indicated that all prior feedback is still applicable.

Fiscal Capabili	ty
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	Υ
7) Incur debt through special tax bonds	Y
8) Incur debt through private activity bonds	N
9) Withhold public expenditures in hazard-prone areas	N
10) State mitigation grant programs	Y
11) Other	-

9.14.5.4 Overall Capabilities

The Township of Montgomery's 2018 assessment of its overall capabilities to implement hazard mitigation strategies in each of the above categories, in addition to its their local 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
High	High	High	High	High
How these capabi	lities can be expand	d and/or improved	to reduce risk	
Increase staff and	funding resources.			

9.14.5.5 Community Classifications

The table below summarizes classifications for community programs available to Montgomery. The Township reviewed its responses from the 2014 HMP and has indicated that all prior feedback is still applicable.

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

Notes:

- = Unavailable

N/A = Not applicable

NP = Not participating

The classifications listed above relate to the 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/

^{*} CRS Ranking as of October 2017

9.14.6 MITIGATION STRATEGY

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

9.14.6.1 Past Mitigation Actions/Status

The status of all 2014 HMP initiatives was evaluated by the Township of Montgomery 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.

						St	atus			Rele		
2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Status Details	nt - Carry I Mitigation	No Longer Relevant - Omit from Updated Mitigation Strategy	Relevance Details
MG1	Private Property Flood Mitigation: Conduct a study to identify potential.	High	Flood	Township Engineer; Traffic Police, DPW	х						х	Study completed. Limited signage at key areas of concern
MG2	Install FMP-proposed Electronic Warning Signage.	High	Flood	Township Engineer; Traffic Police, DPW		×			Signage location as to prevent traffic from traveling into other flooded areas. Budget issues	х		No changes from 2009 Plan
MG3	Work with State of New Jersey to Enhance Route 206 as flood evacuation route.	High	Flood	OEM Coordinator				х	New bridge is being constructed	х		New bridge being constructed Rt. 206 at the Cruser Brook
MG4	Revision of Flood Damage Prevention Ordinance to incorporate recommended changes in FMP Appendix and to give the Township for first option in the purchase of flood damaged property.	High	Flood	Township Engineer; Township Attorney		Х			Township Engineer consulting with Township Attorney to review the matter.	Х		No changes from 2009 Plan
MG5	Identify the Bedens Brook Corridor as a "Potential Future Greenway" in the Township Master Plan Conservation Plan to encourage future open space acquisition in flood-prone areas.	High	Flood	Planning Director and Open Space Coordinator	х						х	Project completed.



						St	atus				vanc	
2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Status Details	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	Relevance Details
MG6	Identify and train responsible local officials for implementation of Flood Damage Prevention ordinance.	High	Flood	Construction Official	х						х	Project completed.
MG7	Identify and incorporate the FEMA Flood Insurance Study Flood Zone boundaries (and future amendments) as an overlay zone in the Township Zoning ordinance.	High	Flood	Township Engineer; Planning Director	х				Activity in the Flood Zone and Stream Corridor is regulated.		х	Project completed.
MG8	Incorporate Disaster Mitigation Planning in Master Plan.	High	All	Planning Director		Х			Staffing availability needed to complete.	х		No changes from 2009 Plan.
MG9	Request that the State place Montgomery Township on its priority list for redevelopment of the hydrology and hydraulics (so as to reflect current conditions) so as to update the Township Flood Insurance Study	Medium	Flood	Township Engineer				х	Staffing to address the matter.	Х		No change from prior Plan.
MG10	Identification of funding sources for private property flood mitigation	High	Na	OEM Coordinator; Grants Coordinator; Planning Director				х	Staffing needed to address the matter.	х		No change from prior Plan.



						St	atus				vanc e	
2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Status Details	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	Relevance Details
MG11	Conduct a property owner survey for private property flood mitigation	Medium	Na	Public Information Officer				x	Staffing needed to address the matter.	х		No change from prior Plan.
MG12	Implement private property flood mitigation measures	High	Flood	Township Administrator				х	Lack of residences affected.		х	No interest in completing.
MG13	Develop Property Owner Information Sheet for streambank erosion.	High	Flood	Township Engineer				×	Limited resources (staff, time, funding); required focus on higher priority initiatives during the last plan maintenance cycle.	х		No changes from prior Plan.
MG14	Identify emergency funding sources for Flood events and incorporate into Township Emergency Response Plan.	High	All	OEM Coordinator Grants Coordinator				Х	Limited resources (staff, time, funding); required focus on higher priority initiatives during the last plan maintenance cycle.	х		No changes from prior Plan.
MG15	Apply for NJOEM funding to implement various facets of the Township FMP.	High	All	OEM Coordinator				Х	Limited resources (staff, time, funding); required focus on higher priority initiatives during the last plan maintenance cycle.	×		No changes from prior Plan.



						Sta	atus				vanc e	
2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Status Details	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	Relevance Details
MG16	Pursue funding sources to educate public about flood hazards.	High	All	Grants Coordinator				x	Staffing to address the matter.		х	No interest in completing.
MG17 (MG2)	Coordinate annual follow-up for FMA plan.	High	Flood	Township Engineer	х						х	Project Completed
MG18 (MG4)	Where appropriate, support retrofitting and/or purchasing structures located in hazard prone areas, including but not limited to the elevation the Stage II treatment plant on County Route 605, which is in need of flood proofing. The plant was severely damaged from Hurricane Irene. The buildings and equipment need to be elevated, relocated or retrofitted to prevent future damage.	High	Floods	TWP; Township Engineering, DPW, Emergency Management		Х			Have begun Engineering design for a Flood Wall at Stage II Sewer Treatment Plant.	Х		No changes from prior Plan.
MG19 (MG5)	Provide backup power as part of retrofits at vital critical facilities, including the Police, OEM, and Municipal government building, at the municipal complex.	High	All	Township Office Emergency Management				Х	Backup power will be provided at new Municipal Building.		х	New Municipal Complex to be constructed.



						St	atus				vanc e	
2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Status Details	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	Relevance Details
MG20 (MG8)	Endeavor to lower CRS Classification by pursuing CRS credit-eligible activities.	High	Flooding	TWP Administrator/ Floodplain Manager				х	Joining CRS was investigated and determined to be Not cost effective for the three to five thousand dollar savings for only 29 policy holders (2016).		х	Study Completed
MG21	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		×			Staffing restrictions	х		E-mail and newsletters have been used to educate the public.



		Status					vanc e					
2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Status Details	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	Relevance Details
MG22	Incorporate ordinances and/or zoning restrictions to control and mitigate future development in hazard areas, specifically as identified in Section 9.14.11.	Medium	All Hazards	Municipality with support from County, NJOEM and FEMA	х						х	Project Completed
MG23	Improve communication systems.	Medium	All Hazards	Municipality with support from County, NJOEM and FEMA	х						х	Project Completed
MG24	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		Х			High water markers in place along roadways. Limited resources (staff, time, funding).	х		No changes from prior Plan

						Sta	atus				vanc e	
2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Status Details	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	Relevance Details
MG25	Participate in local, county and/or state level projects and programs to develop improved structure and facility inventories and hazard datasets to support enhanced risk assessment efforts. Such programs may include developing a detailed inventory of critical facilities based upon FEMA's Comprehensive Data Management System (CDMS) which could be used for various planning and emergency management purposes including: Support the performance of enhanced risk and vulnerability assessments for hazards of concern. Support state, county and local planning efforts including mitigation (including updates to the State HMP), comprehensive emergency management, debris management, and land use. Improved structural and facility inventories could incorporate flood, wind and seismic-specific parameters (e.g. first floor elevations, roof types, structure types based on FEMA-154 "Rapid Visual Screening of Buildings for Potential Seismic Hazards" methodologies). It is recognized that these programs will need to be initiated and supported at the County and/or State level, and will require training, tools and funding provided at the county, state and/or federal level.	Medium	All Hazards	Hazard Mitigation Plan Coordinator				x	Staffing resources limited.	X		No changes from prior Plan.



						St	atus				vanc e	
2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Status Details	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	Relevance Details
MG26	Support ongoing updates of Comprehensive Emergency Management Plan, including participation in the Quadrennial rewrite of township Emergency Operations Plan.	High	All Hazards	Municipality with support from County Emergency Management		x			Staffing limitations.	х		No changes from prior Plan.
MG27	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations.	High	All Hazards	Municipality with support from County, NJOEM, FEMA and surrounding communities		Х			Staffing resources limited.	х		No changes from prior Plan.
MG28	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		Х			Staffing limitations.	х		No changes from prior Plan.
MG29	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		Х			Staffing limitations.	х		No changes from prior Plan.



						St	atus			Relev		
2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Status Details		No Longer Relevant - Omit from Updated Mitigation Strategy	Relevance Details
MG30	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,					Staffing limitations	х		No changes from prior Plan.
MG31	Purchase, relocate, or elevate structures located in hazard-prone areas (in addition to those listed above) to protect structures from future damage, with repetitive loss and severe repetitive loss property as priority. Phase 1: Identify appropriate candidates based on cost-effectiveness. Phase 2: Where determined to be a viable option, work with property owners toward implementation of the determined action based on available funding from FEMA and local match availability	Medium	Flood,	Municipality (via Municipal Engineer/ NFIP Floodplain Administrator) with support from County Planning, NJOEM, FEMA		X			Staffing and funding resources limited.	х		No changes from prior Plan.
MG32	Maintain compliance with and good- standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP-related continued compliance actions identified as Initiatives below.	High	Flood, Severe	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from NJOEM, FEMA			х			x		No changes from prior Plan.



						Sta	atus				vanc	
2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Status Details	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	Relevance Details
MG33	Obtain and archive elevation certificates.	High	Flood, Severe Storm	NFIP Floodplain Administrator	х						х	Project Completed
MG34	Promote the participation of Floodplain Administrators within the planning process and other activities.	Medium	Flood	Municipality with support from County, NJOEM and FEMA	х						х	Project Completed
MG35	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				Х	Staff availability to implement the program.		х	Resources no longer offered.

9.14.6.2 Hazard Vulnerabilities Identified

Township officials have reported that the <u>municipal-owned Sstagete IItwo</u> wastewater treatment <u>facility (WWTF)</u> sewage treatment plant has <u>been impacted by</u> repetitive loses due to flooding, and the generator at the municipal complex is underpowered.

It is estimated that in Montgomery Township, 133 residents live within the 1% annual chance flood area (NFIP Special Flood Hazard Area). \$1,779,497,000 (32.9%) of the municipality's general building stock replacement cost value (structure and contents) is located within the 1% annual chance flood area.

There are 151 NFIP policies in the community and there are 22 policies located within the 1% annual chance flood area. FEMA has identified 7 Repetitive Loss (RL) properties including 2 Severe Repetitive Loss (SRL) properties in the municipality.

HAZUS-MH estimates that for a 1% annual chance flood, \$29,600,000 (0.55%) of the municipality's general building stock replacement cost value (structure and contents) will be damaged, 561 households may be displaced, 203 people may seek short-term sheltering, and an estimated 764 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 Summ	nary				
Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Polices in 1% Boundary (3)	# Polices in 0.2% - Boundary (3)	# Policies Outside the 0.2% Flood Hazard (3)
Montgomery (T)	135	100	\$2,040,712	7	2	22	7	106

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 Township of Montgomery).
- (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 Montgomery are provided below.

			Critica	al Facility	Damage E	stimate				
			Ехро	sure		ntial Loss f Flood Eve			ntial Loss f % Flood Ev	
Name	Municipality	Туре	1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100- Percent	Percent Structure Damage	Percent Content Damage	Days to 100- Percent
Montgomery Well 1	Montgomery (T)	Potable Water	х	х	-	-	-	-	-	-
3M Well Number 4	Montgomery (T)	Potable Water		х	-	-	-	-	-	-
Stage II WWTP	Montgomery (T)	ww	х	х	-	-	-	-	-	-
Seminole Road	Montgomery (T)	ww	х	х	-	-	-	-	-	-
Stage II WWTP	Montgomery (T)	ww	х	х	-	-	-	-	-	-

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 T = Township

WWTP = Wastewater Treatment Plant

WW = Wastewater

(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.

9.14.7 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. The Township of Montgomery has carried forward all but one of its 2014 HMP initiatives, and has identified no changes in local priorities since the last version of the plan in 2014. 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. Please note that the Township has opted to carry forward legacy initiative numbers from the 2014 and 2009 plans, respectively, for internal municipal tracking purposes, formatted as: "2019# [2014# (2009#)]".

					Pro	posed Haz	ard Mitigation In	itiatives						
2019 Initiative Number	Initiative Name	Initiative	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
MG1 [(MG2)]	Traffic Flow Study	Install FMP-proposed Electronic Warning Signage.	Carried Forward	New	Flood	11	Township Engineer; Traffic Police, DPW	Medium	Low	Municipal Budget	Short	High	Action/ Project, PR PE ES	Initiated but not completed. Signage location as to prevent traffic from traveling into other flooded areas. Budget issues.
MG2 [(MG3)]	Flood Evacuation Route	Work with State of New Jersey to Enhance Route 206 as flood evacuation route.	Carried Forward	New	Flood	8	OEM Coordinator	Medium	Low	НМА	Short	High	Action/ Project, PP	Not initiated; new bridge is being constructed.
MG3 [(MG4)]	Flood Damage Prevention Ordinance	Revision of Flood Damage Prevention Ordinance to incorporate recommended changes in FMP Appendix and to give the Township for first option in the purchase of flood damaged property.	Carried Forward	New	Flood	8,9	Township Engineer; Township Attorney	Medium	Low	Municipal Budget	Short	High	Capability, PR	Initiated but not completed. Township Engineer consulting with Township Attorney to review the matter.
MG4 [(MG8)]	Disaster Mitigation Planning	Incorporate Disaster Mitigation Planning in Master Plan.	Carried Forward	New	All	8,9	Planning Director	Medium	Low	Municipal Budget	Short	High	Capability PR	Initiated but not completed. Staffing availability needed to complete.
MG5 [(MG9)]	State Priority List for Redevelopment of the Hydrology and Hydraulics	Request that the State place Montgomery Township on its priority list for redevelopment of the hydrology and hydraulics (so as to reflect current conditions) so as to update the Township Flood Insurance Study.	Carried Forward	New	Flood	1	Township Engineer	High	Low	NA	Short	Medium	Action/ Project, PR	Not initiated; staffing to address the matter.
MG6 [(MG10)]	Private Property Flood Mitigation Funding Sources	Identification of funding sources for private property flood mitigation.	Carried Forward	New and Existing	Flood, Severe Storm	4	OEM Coordinator; Grants Coordinator; Planning Director	High	Low	Na	Short	High	Capability, PR	Not initiated; staffing to address the matter.

					Pro	posed Haz	ard Mitigation In	itiatives						
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
MG7 [(MG11)]	Property Owner Survey	Conduct a property owner survey for private property flood mitigation.	Carried Forward	N/A	N/A	5,13	Public Information Officer	Low	low	Na	Short	Medium	Action/ Project, PR	Not initiated; staffing to address the matter.
MG8 [(MG13)]	Stream Bank Erosion	Develop Property Owner Information Sheet for streambank erosion.	Carried Forward	N/A	Flood	5,13	Township Engineer	Medium	Low	Municipal Budget	Medium	High	Capability, PR PE	Not initiated; limited resources (staff, time funding); required focus on higher priority initiatives during the last plan maintenance cycle.
MG9 [(MG14)]	Emergency Funding Sources	Identify emergency funding sources for flood events and incorporate into Township Emergency Response Plan.	Carried Forward	New	All	All	OEM Coordinator Grants Coordinator	High	Low	Municipal Budget	Short	High	Action/ Project, PR ES	Not initiated; limited resources (staff, time, funding); required focus on higher priority initiatives during the last plan maintenance cycle.
MG10 [(MG15)]	NJOEM Funding	Apply for NJOEM funding to implement various facets of the Township FMP.	Carried Forward	New	All	All	OEM Coordinator	High	Medium	Municipal Budget	Short	High	Capability, PR	Not initiated; limited resources (staff, time, funding); required focus on higher priority initiatives during the last plan maintenance cycle.
MG11 [MG18 (MG4)]	County Route 605	Where appropriate, support retrofitting and/or purchasing structures located in hazard prone areas, including but not limited to the elevation the Stage II treatment plant on County Route 605, which is in need of flood proofing. The plant was severely damaged from Hurricane Irene. The buildings and equipment need to be elevated, relocated or retrofitted to prevent future damage.	Carried Forward	Existing	Floods	4	TWP; Township Engineering , DPW, Emergency Manageme nt	High	\$500,000 High	HMGP PDM FMA	DOF	High	Action/ Project, PP	Initiated but not completed. Have begun Engineering design for a Flood Wall at Stage II Sewer Treatment Plant.



					Pro	posed Haza	ard Mitigation In	itiatives						
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
MG12 [(MG21)]	Community and Public Education	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.	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	Initiated but not completed; staffing restrictions.
MG13 [(MG24)]	Flood Mitigation Archive Database	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).	Carried Forward	N/A	All Hazards	1	Municipality with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	Capability, PR	Initiated but not completed; high water markers in place along roadways. Limited resources (staff, time, funding).

					Pro	posed Haza	ard Mitigation In	itiatives						
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
MG14 [(MG25)]	Local/County/St ate Projects and Programs to develop improved structure and facility inventories	Participate in local, county and/or state level projects and programs to develop improved structure and facility inventories and hazard datasets to support enhanced risk assessment efforts. Such programs may include developing a detailed inventory of critical facilities based upon FEMA's Comprehensive Data Management System (CDMS) which could be used for various planning and emergency management purposes including: Support the performance of enhanced risk and vulnerability assessments for hazards of concern. Support state, county and local planning efforts including mitigation (including updates to the State HMP), comprehensive emergency management, debris management, and land use. Improved structural and facility inventories could incorporate flood, wind and seismic-specific parameters (e.g. first floor elevations, roof types, structure types based on FEMA-154 "Rapid Visual Screening of Buildings for Potential Seismic Hazards" methodologies). It is recognized that these programs will need to be initiated and supported at the County and/or State level, and will require training, tools and funding provided at the county, state and/or federal level.	Carried Forward	N/A	All Hazards	1	Hazard Mitigation Plan Coordinator	Medium- High	Medium- High	FEMA Mitigation Grant Programs with local match	Long Term DOF	Medium	Capability, PR	Not initiated; staffing resources limited.
MG15 [(MG26)]	Comprehensive Emergency Management Plan	Support ongoing updates of Comprehensive Emergency Management Plan, including participation in the Quadrennial rewrite of township Emergency Operations Plan.	Carried Forward	New and Existing	All Hazards	8,9	Municipality with support from County Emergency Managemen t	Low	Low	Municipal Budget	On-going	High	Capability, PR	Initiated but not completed; staffing limitations.

					Pro	posed Haza	ard Mitigation In	itiatives						
2019 Initiative Number	Initiative Name	Initiative	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
MG16 [(MG27)]	Mutual Aid Agreements	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations.	Carried Forward	N/A	All Hazards	3,7	Municipality with support from County, NJOEM, FEMA and surrounding communities	Medium	Low	Municipal Budget	Short Term	High	Capability, PR, ES	Initiated but not completed; staffing resources limited.
MG17 [(MG28)]	Agreements to provide support with FEMA/NJOEM post disaster	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	Capability, PR, ES	Initiated but not completed; staffing limitations.
MG18 [(MG29)]	Damage 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	Municipality with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget, FEMA HMA and HLS grant programs	Short- Long Term DOF	Medium	Capability, PR	Initiated but not completed; staffing limitations.
MG19 [(MG30)]	Plan Maintenance	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	8,9	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	High	Low – High (for 5 year update)	Municipal Budget, FEMA planning grants	On-going	High	Capability, PR	Initiated but not completed; staffing limitations.

					Pro	posed Haz	ard Mitigation Ini	itiatives						
2019 Initiative Number	Initiative Name	Initiative	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
MG20 [(MG31)]	Flood Mitigation	Purchase, relocate, or elevate structures located in hazard-prone areas (in addition to those listed above) to protect structures from future damage, with repetitive loss and severe repetitive loss property as priority. Phase 1: Identify appropriate candidates based on cost-effectiveness. Phase 2: Where determined to be a viable option, work with property owners toward implementation of the determined action based on available funding from FEMA and local match availability.	Carried Forward	Existing	Flood, Severe Storm	4	Municipality (via Municipal Engineer/NF IP Floodplain Administrato r) with support from County Planning, NJOEM, FEMA	High	High	FEMA Mitigation Grants	Long Term DOF	Medium	Capability, PP	Initiated but not completed; staffing and funding resources limited.
MG21 [(MG32)]	NFIP Compliance	Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP-related continued compliance actions identified as Initiatives below.	Carried Forward	N/A	Flood, Severe Storm	4	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from NJOEM, FEMA	High	Low- Medium	Municipal Budget	Ongoing	High	Capability, PR, PE	Ongoing type of activity.

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

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:



HMP Hazard Mitigation Proposal

Not applicable N/A

NFIP National Flood Insurance Program

New Jersey Office of Emergency Management NJOEM National Oceanic and Atmospheric Administration NOAA

SCPD Somerset County Planning Department

USACE U.S Army Corp of Engineers USGS U.S. Geological Survey

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:

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.

Would require an increase in revenue via an alternative source (i.e., High =

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:

Long-term benefits of the project are difficult to quantify in the short

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.

Project will have an immediate impact on the reduction of risk exposure High =

to life and property.

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 hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm

shutters, and shatter-resistant glass.

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

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.

Initiatives are comprised of EVERYTHING your community 7. Initiative=

wants to do or is doing in order to meet its mitigation goals.

Initiatives include Capabilities, Actions and Projects.

Regulatory, administrative, technical, and fiscal staffing, tools 8. Capability=

and/or resources. Capabilities can be existing, or in need of further

development/expansion.

Specific activities or projects that your community plans to 8. Action/Project=

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.

9.14.8 PRIORITIZATION OF MITIGATION INITIATIVES

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

		Р	rioritizatio	n of Mitigation In	itiatives		
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)
MG1 [(MG2)]	1	М	L	Y	N	Y	Н
MG2 [(MG3)]	1	М	L	Y	Y	Y	Н
MG3 [(MG4)]	2	М	L	Υ	N	Υ	Н
MG4 [(MG8)]	2	М	L	Υ	N	Υ	Н
MG5 [(MG9)]	1	Н	L	Υ	N	N/A	М
MG6 [(MG10)]	1	Н	L	Υ	N	N/A	П
MG7 [(MG11)]	2	L	L	Y	N	N/A	М
MG8 [(MG13)]	2	М	L	Υ	N	Υ	П
MG9 [(MG14)]	13	Н	L	Y	N	Υ	Н
MG10 [(MG15)]	13	Н	М	Y	N	Y	Н
MG11 [MG18 (MG4)]	4	Н	Н	Y	Υ	Y	Н
MG12 [(MG21)]	2	М	М	Υ	Υ	Υ	Н
MG13 [(MG24)]	1	М	М	Υ	N	Υ	М
MG14 [(MG25)]	1	М	М	Y	N	Υ	М
MG15 [(MG26)]	2	L	L	Y	N	Y	Н
MG16 [(MG27)]	2	М	L	Y	N	Y	Н
MG17 [(MG28)]	2	М	М	Y	N	Y	М
MG18 [(MG29)]	1	М	М	Y	N	Y	М
MG19 [(MG30)]	2	М	М	Y	N	Y	Н
MG20 [(MG31)]	1	Н	Н	Y	Υ	N	Н
MG21 [(MG32)]	1	Н	Н	Υ	Υ	N	М

Notes:

H = High

L = Low

M = Medium

N = No

Y = Yes



9.14.8.1 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

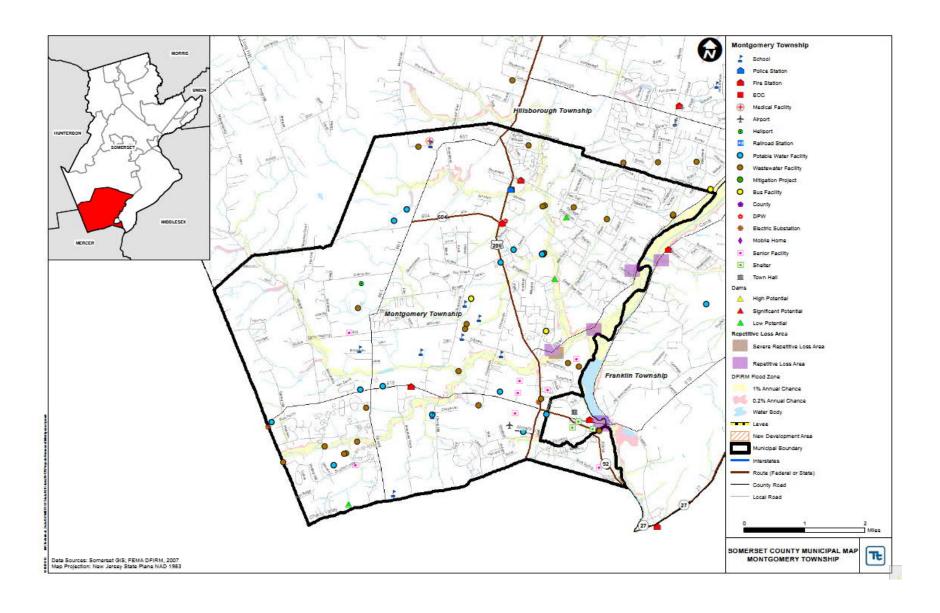
Was prioritization of initiatives based on parameters other than those stated above? Not applicable

9.14.9 FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY

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

9.14.10 HAZARD AREA EXTENT AND LOCATION

A hazard area extent and location map illustrating the probable areas impacted within Montgomery 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 the Township has significant exposure. The planning area maps are provided in the hazard profiles within Section 5.4 of this plan.



9.14.11 STATUS OF INCORPORATION OF MITIGATION PLANNING INTO EXISTING AND FUTURE PLANNING MECHANISMS

It is the intention of Montgomery 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)		
Operating Budget 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	-		
Capital Improvement Budget 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.	-	х	x	-		
Human Resource Manual Employee job descriptions may contain hazard mitigation actions.	-	х	-	x		
Building and Zoning Ordinances 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.	-	х	-	х		
Comprehensive Land Use Plan When applicable, the municipality will incorporate hazard mitigation actions in the development and extent of the regulations.	-	х	-	х		
Grant Applications Data and maps will be used as supporting documentation in grant applications.	-	х	х	-		
Municipal Ordinances When updating municipal ordinances, hazard mitigation will be a priority.	-	х	-	х		
Fire Plan The Hazard Mitigation Plan will be used as a resource for the development of future Fire Plans.	-	х	-	х		
Capital Improvement Planning 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.	-	х	х	-		
Day-to-Day Operations The municipality will incorporate hazard mitigation actions in daily operations and all projects.	-	х	х	-		

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)				
Local School Service Projects 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.	-	х	-	х				
Municipal Budget Adopted annually, the municipality will look at mitigation actions when allocating funding.	-	х	-	х				
Economic Development The local economic development group will take into account information regarding identified hazard areas when assisting new businesses in finding a location.	-	х	-	х				

9.14.12 ADDITIONAL COMMENTS

There are no additional comments at this time.

9.14.12 NFIP ADMINISTRATOR INPUT

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP ¹	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)			Is this person is a Certified Floodplain Manager?	Is floodplai management auxiliary function?			
11-3-16	4-1-81	Township Engineer			[X]Yes []No	[X] Yes []	No [X] Yes [] No		
Provide an explana	Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability, etc.):								
K. (1960-1960-1960-1960-1960-1960-1960-1960-	Permit review, GIS mapping, floodplain determinations Describe barriers to running an effective NFIP program in the community (if applicable):								
Education									
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?		
Unknown	[] Yes [] No	X Yes [] No	[X] Yes []No	[X] Yes [] No	[] Yes* [X] No * Class	[] Yes [] No	[] Yes [X] No		
*Describe any outstanding compliance issues (i.e., current violations):									
None									

Provide an expla	nation of your local	floodplain permittir	g process:					MIIIGAIIUN PLAN	
With limited exc		t is prohibited in the		levelopment appli	cations are heard t	hrough zoning boa	rd or planning b	oard. The	
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?	
[x] Yes [] No	[] Yes [x] No	[x]Yes []No	[] Yes [x] No	[] Yes [] No	[x] Yes [] No	[x] Yes [] No	[x] Yes [] No	[x] Yes [] No	
adopt the new FEMA Advisory your predecessor at the time) actively		actively parti development	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?				
[x] Ye	es [] No	[x] Yes [] No		[x] Ye	[x] Yes [] No		[x] Yes * [] No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:									
Added a requirement for elevation certificates July 11, 2013									
Provide a description of your community assistance and monitoring activities:									
Flood plain determinations are provided for a small fee, all maps are available through the Township GIS interactive map application									
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?									
	[X] Yes [] No								