



9.5 Township of Dennis

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

9.5.1 Hazard Mitigation Plan Point of Contact

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

Primary Point of Contact	Alternate Point of Contact
John Berg, OEM Coordinator 571 Petersburg Road, Dennisville Phone: (609) 231-8129 Email: grandpopjb@gmail.com	Jack Gibson, Engineer 571 Petersburg Road, Dennisville Phone: (609) 602-2035 Email: black.jack@comcast.net

9.5.2 Municipal Profile

The Township of Dennis is located within the northern section of Cape May County, New Jersey. It is bounded on the north by the Borough of Woodbine and Township of Upper, on the east by portions of the Township of Upper, the City of Sea Isle City and the Atlantic Ocean, on the south by the Township of Middle, and on the west by Cumberland County, New Jersey and the Delaware Bay. It is part of the Ocean City Metropolitan Statistical Area. The township included the Dennis Creek community, the East and West Creek regions, the Southern portion of the Cedar Swamp, and the Seashore region between Townsend Inlet and Ludlam’s Bay. Today Dennis Township includes the communities of Belleplain, Clermont, Dennisville, Eldora, Ocean View, South Dennis and South Seaville.

According to the U.S. Census Bureau, the township has a total area of 64.3 square miles, with 60.8 square miles of it land and 3.5 square miles of it (5.5-percent) water. As of July 1, 2014 there was estimated to be 6,319 people residing in the township.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in Section 9.5.8 of this annex, which illustrates the hazard areas along with the location of potential new development.

Table 9.5-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Address	Block / Lot	Known Hazard Zone(s)	Description/Status of Development
Recent Development from 2010 to Present						
No major development in last 5 years.						
Known or Anticipated Development in the Next Five (5) Years						
No anticipated development at this time.						

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

9.5.3 Natural Hazard Event History Specific to the Municipality

Cape May County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. For the purpose of this plan update, events that have occurred in the County from 2010 to present were summarized to indicate the range and impact of hazard





events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.5-2. Hazard Event History

Date(s) of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
May 12, 2008	Coastal Flood	No	N/A	Debris in road
February 5-6, 2010	Severe Winter Storm and Snowstorm (blizzard)	DR-1889	Yes	Yes; however, the Township has not provided specific damages/losses for this event.
October 29, 2011	Severe Storm	DR-4048	Yes	Yes; however, the Township has not provided specific damages/losses for this event.

9.5.4 Hazard Vulnerabilities and Ranking

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

Hazard Risk/Vulnerability Risk Ranking

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

Table 9.5-3. 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
Climate Change & Sea Level Rise	RCV in +3 feet: \$4,580,227	Frequent	33	High
Coastal Erosion	RCV in CEHA: \$0	Frequent	18	Medium
Flood	1% Annual Chance: \$43,041,552	Frequent	18	Medium
Hurricanes & Tropical Storms	Category 1 SLOSH: \$71,397,618 Category 2 SLOSH: \$561,844,055 Category 3 SLOSH: \$1,514,256,154 Category 4 SLOSH: \$2,584,623,289	Frequent	51	High
Nor'Easter	Damage estimate not available	Frequent	48	High
Severe Weather	100-Year MRP: \$8,544,707 500-year MRP: \$63,891,370 Annualized: \$643,064	Frequent	48	High
Severe Winter Weather	1% GBS: \$45,613,613 5% GBS: \$228,068,064	Frequent	51	High
Tsunami	Damage estimate not available	Rare	6	Low
Wildfire	Estimated Value Exposed to Extreme, Very High and High: \$99,933,969	Frequent	36	High

Notes: GBS = General building stock; MRP = Mean return period.





- a. The general building stock valuation is based on the custom inventory generated for the County utilizing improved value.
- b. High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 20-30+
Low = Total hazard risk ranking below 20
- c. Refer to Section 5.1 for further details on the loss methodology. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the estimated value of contents. Loss estimates for the flood and earthquake hazards represent both structure and contents. Potential flood loss estimates were generated using Hazus-MH and the 2015 FEMA DFIRM for the 1-percent annual chance event. For the wildfire hazard, the improved value and estimated contents of buildings located within the identified hazard zones is provided.

National Flood Insurance Program (NFIP) Summary

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

Table 9.5-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 1% Flood Boundary (3)
Dennis Township	79	9	\$897,289	0	0	33

Source: FEMA, 2015

- Note (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA and are current as of July 31, 2015 and are summarized by Community Name. Please note the total number of repetitive loss properties excludes the severe repetitive loss properties. The number of claims represents claims closed by 7/31/2015.
- Note (2) Total building and content losses from the claims file provided by FEMA Region 2.
- Note (3) The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file.
- Note (4) FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.
- Note (5) A zero percentage denotes less than 1/100th percentage and not zero damages or vulnerability as may be the case.

Critical Facilities

Table 9.5-5. Number of Critical Facilities Located in the 1-Percent Annual Chance Flood Zone

Municipality	Facility Types																	
	Airport	Communication	County Office	EMS	Emergency Operation Center	Ferry	Fire Station	Library	Marina	Military	Municipal Hall	Place of Interest	Police Station	School	Senior Facility	Wastewater Pump	Wastewater Treatment	Well
Dennis Township	0	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1

Source: Cape May County

Note: EMS – Emergency Medical Services

Other Vulnerabilities Identified by Municipality

The Township has not identified additional vulnerable areas within the municipality.

9.5.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability



- Education/Outreach and Community classification
- Self-Assessment of Capability
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

Planning and Regulatory Capability

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

Table 9.5-6. Planning and Regulatory Tools

Tool/Program (code, ordinance, plan)	Do you have this? (Yes/No)	Authority (local, county, state, federal)	Dept./Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan	Yes,12/2012	Local	Planning/ Zoning	Master Plan – Land Use Plan Chapter 165 / 195
Capital Improvements Plan	Yes,5/2015	Local	Administration	
Floodplain Management/Basin Plan	Yes,7/2013	Local	Construction	Chapter 105
Stormwater Management Plan	Yes,4/2006	Local	Construction	Chapter 163
Open Space Plan	Yes,12/2012	Local	Land Use	Chapter 185
Stream Corridor Management Plan	Yes,12/2012	Local	Land Use	Chapter 163
Watershed Management or Protection Plan	Yes,12/2012	Local	Land Use	Chapter 163
Economic Development Plan	No			
Comprehensive Emergency Management Plan	Yes,6/2013	Local	OEM	
Emergency Response Plan	Yes,6/2013	Local	OEM	
Post-Disaster Recovery Plan	Yes,6/2013	Local	OEM	
Transportation Plan	Yes,6/2013	Local	OEM	
Strategic Recovery Planning Report	Yes,6/2013	Local	OEM	
Other Plans:	Yes	Local	Environmental Commission	Natural Resources Inventory (Revised May 2010); Community Forestry Master Plan (2009-2014)
Regulatory Capability				
Building Code	Yes	State & Local	Construction	State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.)
Zoning Ordinance	Yes,7/2013	Local	Land Use	Chapter 185
Subdivision Ordinance	Yes,7/2013	Local	Land Use	Chapter 165
NFIP Flood Damage Prevention Ordinance	Yes,7/2013	Federal, State, Local	Construction	Chapter 105
NFIP: Cumulative Substantial Damages	No	N/A	N/A	N/A
NFIP: Freeboard	Yes	State, Local	Construction	Chapter 105
Growth Management Ordinances	Yes,7/2013	Local	Land Use	Chapter 185
Site Plan Review Requirements	Yes,7/2013	Local	Land Use	Chapter 165
Stormwater Management Ordinance	Yes,4/2006	Local	Land Use	Chapter 163
Municipal Separate Storm Sewer System (MS4)	Yes,7/2009	Local	Code Enforcement	Chapter 162A
Natural Hazard Ordinance	No	N/A	N/A	N/A
Post-Disaster Recovery Ordinance	No			



Table 9.5-6. Planning and Regulatory Tools

Tool/Program (code, ordinance, plan)	Do you have this? (Yes/No)	Authority (local, county, state, federal)	Dept./Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Real Estate Disclosure Requirement	Yes	County		Board of Health Ordinance
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]	No			

Administrative and Technical Capability

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

Table 9.5-7. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/Agency/Position
Administrative Capability		
Planning Board	Yes	Land Use/ Planning
Mitigation Planning Committee	Yes	OEM
Environmental Board/Commission	Yes	Environmental Commission
Open Space Board/Committee	No	
Economic Development Commission/Committee	No	
Maintenance Programs to Reduce Risk	Yes	Public Works
Mutual Aid Agreements	Yes	Township Committee
Technical/Staffing Capability		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	Planning Board Engineer Andy Previtti
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Township Engineer Jack Gibson
Planners or engineers with an understanding of natural hazards	Yes	Township Engineer Jack Gibson
NFIP Floodplain Administrator	Yes	Construction Official
Surveyor(s)	Yes	Charles Adamson
Personnel skilled or trained in GIS and/or Hazus-MH applications	No	
Scientist familiar with natural hazards	No	
Emergency Manager	Yes	John Berg
Grant Writer(s)	Yes	Consultants
Staff with expertise or training in benefit/cost analysis	No	
Professionals trained in conducting damage assessments	Yes	OEM/ Construction Official

Fiscal Capability

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

Table 9.5-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community Development Block Grants (CDBG, CDBG-DR)	Yes Grant Consultants
Capital Improvements Project Funding	Yes Township Committee



Table 9.5-8. Fiscal Capabilities

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

Education/Outreach and Community Classifications

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

Table 9.5-9. Education/Outreach and Community Classifications

Program	Do you have/participate in this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	NP	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	No	NP	N/A
Public Protection (ISO Fire Protection Classes 1 to 10)	No	NP	N/A
Storm Ready	No	NP	N/A
Firewise	No	NP	N/A
Disaster/Safety Programs in/for Schools	Yes		
Organizations with Mitigation Focus (advocacy group, non-government)	No	N/A	N/A
Public Education Program/Outreach (through website, social media)	Yes		
Public-Private Partnerships	No	N/A	N/A

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

Criteria for classification credits are outlined in the following documents:





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

Self-Assessment of Capability

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

Table 9.5-10. Self-Assessment of Capability

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

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

William R. Callahan, Construction Official

Flood Vulnerability Summary

The Township does not maintain a list of properties that have been flood damaged. The roof of one single-family, residential structure was damaged during Hurricane Sandy. The Township does currently have the ability to make Substantial Damage estimates. Currently, the Township is unaware of any property owners that are interested in or in the process of mitigating their properties from flood damages.

Resources

The Flood Damage Prevention Ordinance (FDPO) identifies the Construction Official as the NFIP Floodplain Administrator. The floodplain administrator is the sole person assuming responsibilities for floodplain administration including, permit review, issuance of permits, inspections and issuance of Certificates of Occupancy. There are no currently identified barriers to running an effective floodplain management program in the Township. Currently there are no formal education or outreach programs regarding flood hazards.

The floodplain administrator is adequately trained for floodplain management responsibilities, although additional training would be welcome.



Compliance History

The Township is currently in good standing with the NFIP; however, it is unknown as to when the most recent Community Assistance Visit was conducted.

As of August 31, 2015 there are 75 policies in force, insuring over \$20.1 million of property with total annual insurance premiums of \$76,199. Since 1978, 8 claims have been paid totaling \$897,288 (12 claims total have been submitted; however, 3 claims were closed without pay and 1 claim is still open).

Regulatory

The Township of Dennis's floodplain regulations meet the minimum State and FEMA requirements. The Township has other local ordinances, plans and programs in place to support the floodplain management program.

Community Rating System

The Township of Dennis does not participate in the Community Rating System (CRS) program, but would consider attending a CRS seminar if offered locally.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

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

Planning

Land Use Planning: The Township of Dennis has a Master Plan that was most recently updated and adopted in 2012. The Master Plan considers areas of natural hazard risk.

Stormwater Management: The Township is a MS4 Regulated Community and has stormwater management plan that identifies projects, actions or initiatives to mitigate stormwater flooding.

Natural Resources Inventory: The Natural Resources Inventory was prepared to assist the Township in recognizing and understanding the unique resources present. It provides a tool to identify and protect these resources. The plan includes important information regarding water, biological and cultural resources. The plan specifically addresses coastal resources, floodplains and open space. It does not refer to the hazard mitigation plan, but was intended to support land use decision-making in the Township.

Community Forestry Management Plan: The program has three goals including to maximize public safety relative to public trees, training, and public education and awareness. The plan outlines a plan for a tree inventory to be maintained by the Public Works Department that included trees that require maintenance and high risk trees. The plan also includes an objective to create a tree care disaster plan.

Continuity of Operations: The Township has a COOP that will serve to protect the local government and operations from natural hazard disruptions.

Comprehensive Emergency Management Plan: The Township's CEMP refers to the hazard mitigation plan.



Regulatory and Enforcement (Ordinances)

The Township has multiple chapters pertaining to the mitigation of hazards. These ordinances include the Building code, Zoning ordinance, NFIP Flood Damage Prevention Ordinance, Stormwater Management Ordinance and others. The Consolidated Land Use Board utilizes the Township’s Natural Resource Inventory to guide decisions with respect to natural hazard risk management. Additionally, developers in the Township are required to take additional actions to mitigate natural hazard risk.

Operational and Administration

Land Use Planning: The Consolidated Land Use Board reviews applications to determine compliance with natural risk reduction. The Township’s Environmental Commission also has functions related to managing natural hazard risk. The Environmental Commission represents the public and its long-term interests as local environmental advocates and advises the Township Council and the planning and zoning boards about environmental impacts of proposed developments and advocates for open-space preservation.

Stormwater Management: Stormwater Management functions in the community are performed by John Gibson, the Township Engineer.

Floodplain Management: William Callahan, the Township Construction Official, performs the NFIP Floodplain Management functions.

Technical Resources: The Township contracts with firms for benefit-cost analysis needs and grant application support. Township staff receive training and education in support of natural hazard risk reduction.

Funding

Operating Budget: The Township’s operating budget does not contain line items for mitigation projects/activities.

Capital Improvements Budget: The Township’s capital improvements budget contains mitigation-related projects.

Grants: The Township has received grant funding to purchase generators for fire houses.

Other Funds: No other funding mechanisms have been identified that can be used to fiscally support hazard mitigation projects.

Education and Outreach

The Township’s website posts information regarding important information and public notices and includes links to important hurricane and other disaster risk information.

9.5.6 Mitigation Strategy and Prioritization

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

Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2010 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.



Table 9.5-11. Past Mitigation Initiative Status

Description	Status	Review Comments
TD-2 (CMC-2): Consider participation in the incentive-based program CRS.	The Township has participated in informational events (meetings/workshops) to learn more about the CRS program and has decided not to formally participate at this time.	Discontinue in 2016 HMP Update.
TD-3: Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	Ongoing. The Township has participated in the implementation and monitoring of the plan over the past 5 years and is participating in the plan update.	This initiative is being removed from the updated mitigation strategy as it refers to activities that are a now an ongoing and normal part of municipal operations.
TD-4: Strive to maintain compliance with, and good-standing in the National Flood Insurance program.	Ongoing. The City is currently in good standing with the NFIP and will continue to adhere to NFIP requirements for maintaining good standing.	This initiative is being removed from the updated mitigation strategy as it refers to activities that are a now an ongoing and normal part of municipal operations.
TD-5: Continue to develop, enhance, and implement existing emergency plans.	In progress. The Township continually works to improve existing emergency plans.	Include in 2016 HMP Update.
TD-6: Create/enhance/ maintain mutual aid agreements with neighboring communities.	In progress.	Include in 2016 HMP Update.
TD-7: Support County-wide initiatives identified in Section 9.1 of the County Annex. Support county-wide initiatives identified in the Cape May County Hazard Mitigation Plan	The Township has supported County-wide mitigation initiatives over the course of the performance period of the plan and will continue to do so after the plan update.	Include in 2016 HMP Update.
TD-8: Purchase generator for the two Ocean View Fire Stations. These facilities not only serve Dennis Township but are car storage for Sea Isle City.	In progress. Funding secured by FEMA Grant. Awaiting Contractor for start date	Include in 2016 HMP Update.
TD-9: Purchase generators for both Academy Lane and Hagon Road Schools which are both designated 'Shelters of Last Resort'	No progress. Funding still being pursued	Include in 2016 HMP Update. School designated as shelter of last resort. Need generator to accomplish.
TD-10: A water well is needed at Ocean Fire Station #1 to increase response capabilities	No progress due to lack of funding.	Include in 2016 HMP Update. Well still necessary for increasing capability to fight fires.
TD-11: A water well is needed at Dennisville Fire House to increase response capabilities	No progress due to lack of funding.	Include in 2016 HMP Update. Well still necessary for increasing capability to fight fires.
TD-12: Place utility wires underground because they are highly vulnerable to winds and utility coverage for the Township is frequently impacted.	In progress. Atlantic City Electric has installed new transmission lines and poles.	A modified version of this initiative is being included in the 2016 HMP update, specifically identifying the development/adoption of regulations requiring new development to have underground utility wires.
TD-13: Install a water line down Route 9 to supply water to Middle Township	In progress. Negotiations with water company ongoing	Include in 2016 HMP Update.
TD-14(CMC-16): Identify and rectify the cause of flooding at the intersection of SR-47 and the newly completed bridge over Dennis Creek. Both improved drainage	Complete.	



Table 9.5-11. Past Mitigation Initiative Status

Description	Status	Review Comments
design and elevation in and near the intersection may be needed.		
TD-15 (CMC-24): Elevate Sea Isle Blvd roadway and ramps which will require elevation of the Garden State Parkway bridge overpass (intersection of Sea Isle Blvd [CR-601] and Garden State Parkway)	In progress. In planning stages.	Include in 2016 HMP Update. Adopt a final plan; secure funding.
TD-16: Purchase and permanently install variable message boards to advise of traffic, alternate routes/detours due to accidents/flooding/wildfire events/other hazardous conditions along the following Routes through the Township which serve as major evacuation routes: 550 347 47 83	In progress. Have had several discussions with state DOT to secure signs.	Include in 2016 HMP Update. Come to agreement with state DOT to acquire signs.
TD-17: Investigate solutions to mitigate flooding at the intersection of Routes 47 and 83	In progress. Reconfigured intersection and Installed retention pond	Include in 2016 HMP Update. Flooding still occurring. Additional solutions needed.
TD-18: Increase the capacity of the culvert on Main Street (Fort Bridge) County Road from Route 9 to S. Seawall section of the Township/Corson Tavern Road to mitigate flooding	No progress. County led project.	Discontinue.
TD-19: Investigate elevating Stipsen Island Road which is vulnerable to flooding	No progress.	Discontinue.
TD-20: Identify proper locations for and install water draw (siphon) stations to increase fire-fighting capacity and capabilities). The Township relies on private wells; there is no public water distribution.	In progress. Installed one at Hansen	Include in 2016 HMP Update. Continue installing at other locations.
TD-21: Elevate Sea Isle Boulevard (CR-601) from the Parkway to the Sea Isle bridge. This project is currently in the State Transportation Improvement Plan (TIP) for construction over the next two years, and is currently in the preliminary engineering phase.	In progress. 30% Completed. Estimated Completion 2020.	Include in 2016 HMP Update. Finish project
Conduct an engineering study to understand flooding issues and evaluate possible solutions: TD-22 (CMC-42) - at low areas along Woodbine-Ocean View Road (CR550) in Dennis Township TD-23 (CMC-45) low areas along Court House-South Dennis Road (CR657) near Beaver Dam Road in Dennis Township TD-24 (CMC-47) along Fidler Road (CR638) in Dennis Township TD-25 (CMC-56) along Corsons Tavern Road (CR628) in Dennis Township	No progress due to lack of funding	Include in 2016 HMP Update.
TD-26: Become a National Fire Protection Association (NFPA) "Firewise" community. Participation in the NFPA	No progress due to lack of funding	Include in 2016 HMP Update.



Table 9.5-11. Past Mitigation Initiative Status

Description	Status	Review Comments
<p>“Firewise” program shall be supported by countywide and regional resources including the Cape May County Fire Chiefs Association and the New Jersey State Forest Fire Service (Firewise Community Liaison) by providing information on the “Firewise” program, facilitating public outreach and awareness programs, and supporting community fire risk reduction activities as appropriate (see County Initiative CMC-69).</p>		
<p>TD-27: Through attendance at the regular meetings of the Cape May County Fire Chiefs Association, and in partnership with the New Jersey Division of Fire Safety and the New Jersey State Forest Fire Service, expand and enhance public awareness and education programs that support wildfire mitigation at the property owner level; and expand local wildfire preparedness and response capabilities through participation in seminars and training, and the implementation of recommendations and initiatives offered by these agencies, as resources permit.</p>	<p>No progress due to lack of funding</p>	<p>Include in 2016 HMP Update.</p>

Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The Township has not identified any completed mitigation projects/activities that were not identified in the previous mitigation strategy of the 2010 Plan.

Proposed Hazard Mitigation Initiatives for the Plan Update

The Township participated in a mitigation action workshop in February 2016 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

Table 9.5-12 summarizes the comprehensive-range of specific mitigation initiatives the Township would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

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

Table 9.5-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.5-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (Note 1)	Hazard(s) Mitigated (Note 2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
TD-1a	Where appropriate, support retrofitting of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for retrofitting based on cost-effectiveness versus relocation. Where retrofitting is determined to be a viable option, consider implementation of that action based on available funding.											
	See above.	Existing	Coastal Storm, Flood, Severe Weather	1, 2, 4, 6	Township (likely through NFIP Floodplain Administrator); State OEM, County OEM	High - Reduced risk of property damage from flooding	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Long-term DOF	M-H	SIP, EAP	PP, NR
TD-1b	Where appropriate, support acquisition and/or relocation of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for acquisition/relocation based on cost-effectiveness versus retrofitting. Where acquisition/relocation is determined to be a viable option, consider implementation of that action based on available funding.											
	See above.	Existing	Coastal Storm, Flood, Severe Weather	1, 2, 4, 6	Township (likely through NFIP Floodplain Administrator); State OEM, County OEM	High - Eliminate risk of property damage from flooding	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Long-term DOF	M-H	SIP, EAP	PP, NR
TD-2 (former TD-5)	Continue to develop, enhance, and implement existing emergency plans.	New & Existing	All Hazards	1, 3, 4, 6	Municipal Emergency Manager with support from County OEM and NJOEM	Improved emergency management capabilities; life-safety	Low - Medium	Local Budget	Ongoing	M	LPR, EM	ES
TD-3 (former TD-6)	Create/enhance/maintain mutual aid agreements with neighboring communities.	New & Existing	All Hazards	1, 3, 4, 6	Township OEM	Improved EM capabilities (response, recovery)	Low - Medium	Local Budget	Ongoing	M	EM	ES
TD-4 (former TD-7)	Support County-wide initiatives identified in Section 9.1 of the County Annex.	New & Existing	All Hazards	1 through 6	Local departments (as applicable for specific initiative)	High	Low - High	Existing programs and grant funding	Ongoing – Long-term depending on initiative	M-H (dependent)	All	All



Table 9.5-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (Note 1)	Hazard(s) Mitigated (Note 2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	Support county-wide initiatives identified in the Cape May County Hazard Mitigation Plan.							where applicable				
TD- 5 (former TD-8)	Purchase generator for the two Ocean View Fire Stations. These facilities not only serve Dennis Township but provide car storage for Sea Isle City.	Existing	All Hazards resulting in loss of electricity	1, 3, 4	Fire Department	High – Maintain critical facilities and services; public health/safety	Low	Existing programs and grant funding where applicable	In progress. Funding secured by FEMA Grant. Awaiting Contractor for start date.	M	EM	ES
TD- 6 (former TD-9)	Purchase generators for both Academy Lane and Hagon Road Schools which are both designated ‘Shelters of Last Resort’	Existing	All Hazards resulting in loss of electricity	1, 3, 4	School Administration	High – Maintain critical facilities and services; public health/safety	Low	Existing programs and grant funding where applicable	Funding still being pursued	M	EM	ES
TD- 7 (former TD-10)	A water well is needed at Ocean Fire Station #1 to increase response capabilities	Existing	Wildfire	1, 3, 4	Fire Department	Improved EM capabilities; potential life safety	Medium - High	Existing programs and grant funding where applicable	DOF	M	EM	ES
TD- 8 (former TD-11)	A water well is needed at Dennisville Fire House to increase response capabilities	Existing	Wildfire	1, 3, 4	Fire Department	Improved EM capabilities; potential life safety	Medium - High	Existing programs and grant funding where applicable	Long Term DOF	M	EM	ES
TD- 9 (former TD-12)	Develop and adopt local regulations requiring new development to have underground utility wires.	New	All Hazards resulting in loss of electricity	1, 3, 4	Township administration; developers and private property owners	Improved local regulatory capability to reduce vulnerability to power outages	High	Existing budget and programs	Short Term	M	LPR	PR



Table 9.5-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (Note 1)	Hazard(s) Mitigated (Note 2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
TD- 10 (former TD-13)	Install a water line down Route 9 to supply water to Middle Township	Existing	Wildfire	1, 3, 4, 6	Township DPW	Local water supply resiliency; potential life-safety	Medium - High	Existing programs and grant funding where applicable	In progress. Negotiations with water company ongoing	M	SIP	PP
TD- 11 (former TD-15 (CMC-24)	Elevate Sea Isle Blvd roadway and ramps which will require elevation of the Garden State Parkway bridge overpass (intersection of Sea Isle Blvd [CR-601] and Garden State Parkway)	Existing	Flood, Coastal Storm, Severe Weather	1, 3, 4, 6	County Engineering with NJTPA	Reduced vulnerability of critical transportation infrastructure; life-safety (evacuation)	High	County, State, and HMA grants where applicable	In progress. Adopt a final plan; secure funding.	M	SIP, EM	PP, ES
TD- 12 (former TD-16)	Purchase and permanently install variable message boards to advise of traffic, alternate routes/detours due to accidents / flooding / wildfire events/other hazardous conditions along the following Routes through the Township which serve as major evacuation routes:											
	See above	NA	All Hazards (except Coastal Erosion)	1, 4, 6	Township OEM and DPW	Public Safety; Evacuation	Medium to High	Municipal, and HMA grants where applicable	In progress. Come to agreement with state DOT to acquire signs.	M	EM	ES
TD- 13 (former TD-17)	Continue to investigate solutions to mitigate flooding at the intersection of Routes 47 and 83. Despite the recent reconfiguration of the intersection and the installation of a retention pond, flooding here is still a problem.											
	See above.	NA	Flood, Coastal Storm, Severe Weather	1, 4, 6	Cape May County; State DOT	Reduced flood vulnerability of critical transportation infrastructure; potential life-safety	Medium	Municipal, and HMA grants where applicable	In progress.	M	SIP	PP
TD-14 (former TD-20)	Identify proper locations for and install water draw (siphon) stations to	New & Existing	Wildfire	1, 3, 4	Fire Department; Cape May County	Improved fire-fighting capabilities;	High	Municipal, and HMA grants where applicable	In progress. Continue installing at	M	EM	ES



Table 9.5-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (Note 1)	Hazard(s) Mitigated (Note 2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	increase fire-fighting capacity and capabilities). The Township relies on private wells; there is no public water distribution.					potential life-safety			other locations.			
TD-15 (former TD-21 (CMC-24)	Elevate Sea Isle Boulevard (CR-601) from the Parkway to the Sea Isle bridge. This project is currently in the State Transportation Improvement Plan (TIP) for construction over the next two years, and is currently in the preliminary engineering phase.	Existing	Coastal Storms, Flooding, Severe Weather	1, 3, 4	County Engineering with municipal support	Reduced vulnerability of critical transportation infrastructure to flooding; potential life-safety (evacuation)	TBD	State and Federal Funding	In progress (30% complete). Estimated Completion 2020.	High	SIP	PP
TD- 16 (former TD-22 through 25; (CMC-42, 45, 47, 56)	Continue to support County-led efforts to conduct an engineering study to understand flooding issues and evaluate possible solutions: <ul style="list-style-type: none"> at low areas along Woodbine-Ocean View Road (CR550) in Dennis Township low areas along Court House-South Dennis Road (CR657) near Beaver Dam Road in Dennis Township along Fidler Road (CR638) in Dennis Township along Corsons Tavern Road (CR628) in Dennis Township 											
	See above.	Existing	Severe Weather, Flooding	1, 3, 4, 6	County Engineering with municipal support	Reduced vulnerability of critical transportation infrastructure to flooding; potential life-safety (evacuation)	Medium	County and Local Funding	Dependent on County schedule	High	SIP	PP
TD- 17 (former TD-26)	Become a National Fire Protection Association (NFPA) "Firewise" community. Participation in the NFPA "Firewise" program shall be supported by countywide and regional resources including the Cape May County Fire Chiefs Association and the New Jersey State Forest Fire Service (Firewise Community Liaison) by providing information on the "Firewise" program, facilitating public outreach and awareness programs, and supporting community fire risk reduction activities as appropriate (see County Initiative CMC-69).											
	See above.	N/A	Wildfire	1, 2, 4, 6	Local Fire Chiefs working with County Fire Coordinator	Improved local capabilities to manage wildfire risk	L-M	Existing Budgets	Short-term	H	EM, EAP	ES, PI



Table 9.5-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (Note 1)	Hazard(s) Mitigated (Note 2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
TD-18 (former TD-27)	Through attendance at the regular meetings of the Cape May County Fire Chiefs Association, and in partnership with the New Jersey Division of Fire Safety and the New Jersey State Forest Fire Service, expand and enhance public awareness and education programs that support wildfire mitigation at the property owner level; and expand local wildfire preparedness and response capabilities through participation in seminars and training, and the implementation of recommendations and initiatives offered by these agencies, as resources permit.											
	See above.	N/A	Wildfire	1, 2, 4, 6	Local Fire Chiefs	Improved local capabilities to manage wildfire risk	L-M	Existing Budgets	Short-term	H	EM, EAP	ES, PI
TD-19	Continue to provide and augment environmental assessment regulations to identify and protect sensitive environmental resources.	N/A	All Hazards	1, 3, 6	Environmental Commission	Medium	Low	Municipal Budget	On-going	Medium	LPR	PR
TD-20	Consider establishment of a Shade Tree Commission.	N/A	Hurricane / Tropical Storm, Severe Weather, Severe Winter Weather, Nor' Easter	1, 2, 4	DPW	Medium	Low	Municipal Budget	On-going	Medium	LPR	PR
TD-21	Continue/Implement a tree maintenance program.	N/A	Hurricane / Tropical Storm, Severe Weather, Severe Winter Weather, Nor' Easter	1, 2, 4	DPW	Medium	Low	Municipal Budget	On-going	Medium	LPR	PR
TD-22	Minimize off-site storm water runoff by encouraging the use of best management practices which protect the character of the natural drainage systems.	N/A	Flood, Severe Weather, Hurricane / Tropical Storm	1, 2, 4	DPW	Medium	Low	Municipal Budget	On-going	Medium	LPR	PR

Notes:





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

(1) 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.

(2) While Climate Change and Sea Level rise are not specifically identified as “hazards mitigated” in this table, it is recognized that climate change and sea level rise may exacerbate/amplify the risk of the following identified hazards: Climate Change – Coastal Erosion, Flood Coastal Storms (hurricane, tropical storms, Nor’Easters), Severe Weather, Severe Winter Weather, Wildfire; Sea Level Rise – Coastal Erosion, Flood Coastal Storms (hurricane, tropical storms, Nor’Easters), Tsunami.

Acronyms and Abbreviations:

CAV	Community Assistance Visit
CRS	Community Rating System
DPW	Department of Public Works
FEMA	Federal Emergency Management Agency
FPA	Floodplain Administrator
HMA	Hazard Mitigation Assistance
N/A	Not applicable
NFIP	National Flood Insurance Program
OEM	Office of Emergency Management

Potential FEMA HMA Funding Sources:

FMA	Flood Mitigation Assistance Grant Program
HMGF	Hazard Mitigation Grant Program
PDM	Pre-Disaster Mitigation Grant Program
RFC	Repetitive Flood Claims Grant Program (discontinued)
SRL	Severe Repetitive Loss Grant Program (discontinued)

Timeline:

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

Costs:

Where actual project costs have been reasonably estimated:

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

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

Low	Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.
Medium	Could budget for under existing work plan, but would require a 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.

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP)- These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities
- Emergency Management (EM) – These actions are identified as an emergency management activity; however, they are not necessarily “mitigation”

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.





- *Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.*
- *Natural Resource Protection (NR) - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.*
- *Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.*
- *Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities*



Table 9.5-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
TD-1a	Where appropriate, support retrofitting of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for retrofitting based on cost-effectiveness versus relocation. Where retrofitting is determined to be a viable option, consider implementation of that action based on available funding.	1	1	1	1	1	0	0	0	1	1	1	1	1	0	10	M-H*
TD-1b	Where appropriate, support acquisition and/or relocation of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for acquisition/relocation based on cost-effectiveness versus retrofitting. Where acquisition/relocation is determined to be a viable option, consider implementation of that action based on available funding.	1	1	1	1	0	0	0	0	1	1	1	1	1	0	9	M-H*
TD-2 (former TD-5)	Continue to develop, enhance, and implement existing emergency plans.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
TD-3 (former TD-6)	Create/enhance/ maintain mutual aid agreements with neighboring communities.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
TD-4 (former TD-7)	Support County-wide initiatives identified in Section 9.1 of the County Annex. Support county-wide initiatives identified in the Cape May County Hazard Mitigation Plan.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M-H (dependent)
TD-5 (former TD-8)	Purchase generator for the two Ocean View Fire Stations. These facilities not only serve Dennis Township but provide car storage for Sea Isle City.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
TD-6 (former TD-9)	Purchase generators for both Academy Lane and Hagon Road Schools which are both designated 'Shelters of Last Resort'	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
TD-7 (former TD-10)	A water well is needed at Ocean Fire Station #1 to increase response capabilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
TD-8 (former TD-11)	A water well is needed at Dennisville Fire House to increase response capabilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
TD-9 (former TD-12)	Develop and adopt local regulations requiring new development to have underground utility wires.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M



Table 9.5-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
TD- 10 (former TD-13)	Install a water line down Route 9 to supply water to Middle Township	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
TD- 11 (former TD-15 (CMC-24)	Elevate Sea Isle Blvd roadway and ramps which will require elevation of the Garden State Parkway bridge overpass (intersection of Sea Isle Blvd [CR-601] and Garden State Parkway)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
TD- 12 (former TD-16)	Purchase and permanently install variable message boards to advise of traffic, alternate routes/detours due to accidents / flooding / wildfire events/other hazardous conditions along the following Routes through the Township which serve as major evacuation routes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
TD- 13 (former TD-17)	Continue to investigate solutions to mitigate flooding at the intersection of Routes 47 and 83. Despite the recent reconfiguration of the intersection and the installation of a retention pond, flooding here is still a problem.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
TD-14 (former TD-20)	Identify proper locations for and install water draw (siphon) stations to increase fire-fighting capacity and capabilities). The Township relies on private wells; there is no public water distribution.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
TD-15 (former TD-21 (CMC-24):	Elevate Sea Isle Boulevard (CR-601) from the Parkway to the Sea Isle bridge. This project is currently in the State Transportation Improvement Plan (TIP) for construction over the next two years, and is currently in the preliminary engineering phase.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
TD- 16 (former TD-22 through 25; (CMC-42, 45, 47, 56)	Continue to support County-led efforts to conduct an engineering study to understand flooding issues and evaluate possible solutions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
TD- 17 (former TD-26)	Become a National Fire Protection Association (NFPA) "Firewise" community. Participation in the NFPA "Firewise" program shall be supported by countywide and regional resources including the Cape May County Fire Chiefs Association and the New Jersey State Forest Fire Service (Firewise Community Liaison) by providing information on the "Firewise" program, facilitating public outreach and awareness programs, and supporting community fire risk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High



Table 9.5-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
	reduction activities as appropriate (see County Initiative CMC-69).																
TD-18 (former TD-27)	Through attendance at the regular meetings of the Cape May County Fire Chiefs Association, and in partnership with the New Jersey Division of Fire Safety and the New Jersey State Forest Fire Service, expand and enhance public awareness and education programs that support wildfire mitigation at the property owner level; and expand local wildfire preparedness and response capabilities through participation in seminars and training, and the implementation of recommendations and initiatives offered by these agencies, as resources permit.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
TD-19	Continue to provide and augment environmental assessment regulations to identify and protect sensitive environmental resources.	1	1	1	1	0	0	1	1	0	1	1	1	0	0	9	Medium
TD-20	Consider establishment of a Shade Tree Commission.	1	1	1	1	0	0	0	1	0	1	1	0	0	0	7	Medium
TD-21	Continue/Implement a tree maintenance program.	1	1	1	1	0	0	0	1	0	1	1	0	0	0	7	Medium
TD-22	Minimize off-site storm water runoff by encouraging the use of best management practices which protect the character of the natural drainage systems.	1	1	1	1	0	0	1	1	0	1	1	1	0	0	9	Medium

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions. Where the community has determined that the original priority ranking for “carry forward” initiatives remains valid, the earlier priority ranking is indicated on the prioritization table, however the 2016 criteria ratings are indicated with a null “-” marking.
 * The municipality recognizes that the mitigation of RL/SRL priorities is a Federal and State priority despite the fact that limited local resources and authority limit the municipality’s ability to implement this project.



9.5.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.5.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Township of Dennis that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Township of Dennis has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.5.9 Additional Comments

None at this time.



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

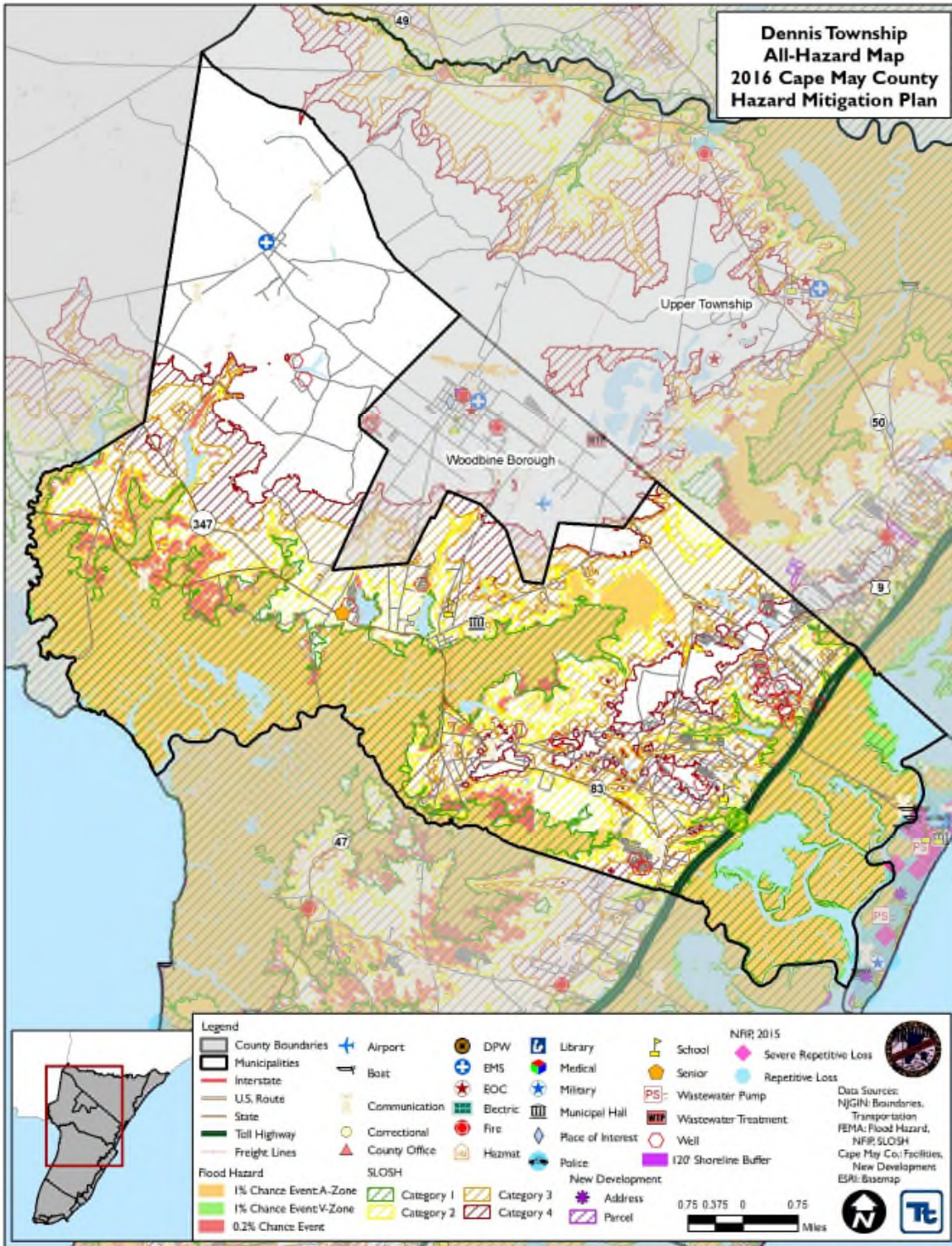




Figure 9.5-2. Township of Dennis Hazard Area Extent and Location Map 1

