

Appendix D

STAPLEE Analysis of Mitigation Actions

Section 6 identified specific actions to achieve identified goals, an appropriate responsible party for each action, a schedule for accomplishment, suggested funding sources and priority rankings. The tables contained within this appendix provide the detailed basis for this initial prioritization of the actions.

In drafting this initial prioritization, the Sussex County Office of Emergency Management (SC OEM), consultant, and participating municipalities worked cooperatively to determine which STAPLEE criteria each action did or was likely to meet. The criteria that were considered “met” are identified with a “+”, and the criteria that were not considered met are identified with a “0”. The methodology also allows for a “-” designation when impacts are expected to be negative, but none of the projects below required it at this time. The participants in this process have defined High, Medium, and Low priorities to be assigned as follows:

- **High:** Meets five of the seven STAPLEE criteria
- **Medium:** Meets four of the seven STAPLEE criteria
- **Low:** Meets three of the seven STAPLEE criteria

This prioritization is considered preliminary and will be revisited in the future by the SC OEM and the participating municipalities as funding becomes available. The process by which these priorities will be revisited is described in Section 6.6.

Table D.1
Prioritization of Sussex County Hazard Mitigation Goals, Objectives, and General Actions

Action	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
1.A.1: Develop <i>All Hazards</i> public education and outreach program for hazard mitigation and preparedness.	+	+	+	0	+	+	+	6	High
1.A.2: Initiate a public awareness program on local cable TV for hazard safety.	+	0	+	+	0	0	+	4	Medium
1.A.3: Conduct yearly workshops related to the Federal Emergency Management Agency (FEMA) hazard mitigation grant programs, including Flood Mitigation Assistance (FMA) program, Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program, Severe Repetitive Loss (SRL) program, and Repetitive Flood Claim (RFC) program, with a focus on those aspects available to private firms and property owners (coordinated with Action 1.B.1, below).	+	+	+	+	+	0	+	6	High
1.A.4: Educate the public through New Jersey Office of Emergency Management (NJOEM) and New Jersey Forest Fire Service outreach programs and hazard mitigation workshops.	+	+	+	+	+	+	+	7	High

Action	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
1.B.1: Conduct yearly workshops related to FEMA hazard mitigation grant programs, including FMA, HMGP, PDM, SRL, and RFC (coordinated with Action 1.A.4, above).	+	+	+	0	+	0	+	5	High
1.C.1: Reach out to municipal Floodplain Administrators, departments of planning, public works, engineering, etc. regarding the importance of hazard mitigation planning and provision of municipal plans and data for planning purposes.	+	+	0	+	+	0	+	5	High
2.A.1: Develop and maintain relationships with organizations that can provide technical information and/or assistance in the areas of hazard identification and risk assessment.	+	+	+	+	0	0	+	5	High
2.A.2: Undertake site-specific studies to better characterize flood risks to areas with extensive flood loss histories (see also municipal actions in Table 6.3.3-1 for additional detail).	+	+	0	+	0	0	+	4	Medium
2.A.3: Use best possible flood data, including Digital Flood Insurance Rate Map and Map Mod data, if available, in next plan update. Track implementation of Risk MAP initiative to ensure Sussex County and municipalities gain full advantage of opportunities under this program.	+	+	+	0	+	0	+	5	High
2.A.4: Bi-annually update and verify status of repetitive loss and severe repetitive loss lists from the National Flood Insurance Program (NFIP).	+	+	0	0	+	0	+	4	Medium
2.A.5: Inventory critical facilities to identify those in geographic areas that may be prone to high ground motion during earthquakes (due to proximity to faults or to soil characteristics), and those with structures that may be at risk during an earthquake.	+	+	0	+	+	0	+	5	High
2.A.6: Coordinate with state efforts to prioritize critical facilities and conduct more detailed earthquake risk assessments, taking into account the relative importance of the facility and the level of seismic hazard.	+	+	0	+	+	0	+	5	High
2.A.7: Work with New Jersey Geological Survey (NJGS) to determine soil and shake characteristics at specific sites that the county has identified as priority critical facilities with potential vulnerabilities to earthquake forces, and then work with engineers to develop appropriate projects.	+	+	+	0	+	0	+	5	High
2.A.8: Coordinate with NJGS and other county, state and federal agencies to better identify specific sites in Sussex County that may be exposed to the effects of geo-hazards such as landslides, sinkholes, and subsidence.	+	0	0	+	+	+	+	5	High
2.A.9: Using a prioritized list of state, county, and local facilities, coordinate with state effort to survey wind vulnerabilities, based on criteria such as age of the facility, value of operations, proximity to the coast, etc.	+	0	0	+	+	0	+	4	Medium

Action	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
2.A.10: Conduct wind risk assessments on a limited number of high-priority facilities that appear to be vulnerable to high winds. Assessments will use standard FEMA guidelines, procedures, and software, including the wind hazard database.	+	+	+	0	+	+	+	6	High
2.A.11: Coordinate with state efforts to inventory or survey of prioritized areas to determine if there is a need for additional study or data collection related to wildfire and/or urban-interface fires. Focus of inventory/study will be on identifying areas where there exist vulnerable populations or built environment and/or areas where fuel loads and other conditions suggest potential for wildfire risk.	+	0	0	+	+	+	+	5	High
2.A.12: Coordinate with state efforts to maintain current information about fuel loads and conditions that may affect potential for fires.	+	0	0	+	+	+	+	5	High
2.A.13: For areas with significant risk from wildfires or urban interface fires, perform detailed studies to objectively determine (a) potential for wildfires, including likely magnitude, & (b) vulnerabilities of surrounding populations, built environment, and functions.	+	0	0	+	+	0	+	4	Medium
2.A.14: Coordinate with state efforts to conduct wildfire risk assessments for areas and assets that are determined to have the most hazard (fuel load, etc.) potential, and the most vulnerable structures, populations, or operations.	+	0	0	+	+	+	+	5	High
2.A.15: Maintain effective coordination and information sharing related to hazardous material sites with NJOEM and the Right to Know Network.	+	0	0	+	+	0	+	4	Medium
2.A.16: Complete data collection for Geographic Information System (GIS) analysis and mapping of potential areas of impact related to hazardous material sites.	+	+	+	+	+	+	+	7	High
2.A.17: Integrate data about hazardous materials with most current available information about other risk factors, e.g. population, climate, other site-specific characteristics.	+	0	+	0	+	+	+	5	High
2.A.18: Complete a detailed analysis of past losses related to winter storms to determine if additional study is indicated.	+	+	0	+	+	+	+	6	High
2.A.19: Undertake a survey of critical facilities to identify and prioritize those that may have structural characteristics that make them vulnerable to excessive snow and ice loads.	+	+	0	+	+	+	+	6	High
2.A.20: Work with appropriate agencies to identify specific areas that are vulnerable to storm effects, then inventory assets and populations in these areas as the basis for a risk calculation.	+	+	0	+	+	0	+	5	High
2.A.21: Work with New Jersey Department of Environmental Protection to more fully understand the dam hazard rankings and methodology behind them, particularly regarding high-hazard sites.	+	+	+	0	+	+	+	6	High

Action	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
2.A.22: Undertake more detailed engineering studies of dams that may pose risks to the county, based on additional data collected from state or federal agencies.	+	+	0	+	+	0	+	5	High
2.A.23: Conduct detailed risk assessments for dams that appear to have vulnerabilities, and where there is potential for significant damage or loss of life.	+	+	0	+	+	0	+	5	High
2.A.24: Consolidate and incorporate relevant local data related to hazards, extent, probability, exposure, risk, history, etc.	+	+	0	+	+	0	+	5	High
2.A.25: Work with ongoing county, state, and federal efforts to develop and maintain hazard-specific geospatial data necessary to perform full risk assessments for all relevant hazards in Sussex County.	+	0	+	+	+	+	+	6	High
2.A.26: Conduct detailed risk assessments for levees which appear to have vulnerabilities, and where there is potential for significant damage or loss of life.	+	+	0	+	+	0	+	5	High
2.A.27: Work with NJDEP and other agencies to compile better information about levees in the State, including inventories, engineering data, and any other studies (in particular those that may discuss or catalog past levee failures).	+	+	0	+	+	0	+	5	High
2.A.28: Conduct a detailed study to identify and map erosion hazard zones.	+	+	0	+	+	0	+	5	High
2.A.29: Undertake more detailed engineering studies of levees that may pose risks to the county, based on additional data collected from local, state or federal agencies.	+	+	0	+	+	0	+	5	High
2.A.30: Coordinate with state efforts to undertake detailed vulnerability assessments and develop mitigation options for critical facilities in A and AE zones.	+	0	+	+	+	+	+	6	High
2.B.1: Participate in the Emergency Preparedness Conference and workshops.	+	+	+	+	+	+	+	7	High
2.C.1: Develop a database inventory of critical facilities countywide (county-, local-, and privately-owned), including fire and police stations, medical facilities, and major public buildings important for emergency response and recovery, and critical lifeline transportation and utility nodes such as bridges, water treatment plants, wastewater treatment plants, high voltage electric substations, and hazardous materials facilities.	+	+	0	0	+	+	+	5	High
2.C.2: Prioritize critical facilities and complete Phase 1 site surveys to identify vulnerabilities.	+	+	+	+	+	0	+	6	High
3.A.1: Continue working with the state, as well as local jurisdictions, to encourage local cooperation in making Repetitive Loss (RL) (and SRL) property mitigation a high priority, and offering municipalities technical support in carrying out the requirements of FEMA mitigation programs as well as current information related to RL and SRL properties.	+	+	+	+	+	+	+	7	High

Action	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
3.A.2: Provide grants information, planning tools, training, and technical assistance to increase the number of public and private sector hazard mitigation projects.	+	+	+	+	+	+	+	7	High
3.A.3: Conduct direct outreach and education to municipal OEMs and other potential participants in Plan maintenance and future Plan updates.	+	+	+	+	+	+	+	7	High
3.A.4: Work with NJOEM and FEMA to incorporate "recommended revisions" per NJOEM and FEMA Region II review of this Plan into future Plan updates.	+	+	+	+	+	+	+	7	High
3.B.1: Conduct community outreach, workshops, and training to increase NFIP participation (coordinate with outreach actions listed under Objectives 1.A and 1.B).	+	+	+	+	+	0	+	6	High
3.B.2: Encourage municipalities to participate in the Community Rating Survey (CRS) program, including potentially setting up CRS site visits and/or workshops for interested municipalities.	+	+	+	+	+	+	+	7	High
3.B.3: Encourage municipalities to include identification and prioritization of actions related to future participation in and compliance with the NFIP.	+	+	+	0	+	+	+	6	High
3.C.1: Encourage enforcement of floodplain management as it relates to new and existing construction by integrating hazard mitigation practices with zoning, subdivision ordinances, comprehensive planning, and other land use tools at the municipal level.	+	+	0	+	+	0	+	5	High
3.C.2: Coordinate with state efforts to encourage the New Jersey League of Municipalities to become more involved in mitigation activities, and in particular to support the activities described in Action 3.C.1 and 3.D.1.	+	+	+	0	+	+	+	6	High
3.D.1: Encourage enforcement of floodplain management as it relates to new and existing construction by integrating hazard mitigation practices with zoning, subdivision ordinances, comprehensive planning, other land use tools, and environmental and other regulatory mechanisms via state requirements, reviews, and regulations. Coordinate with the State Planning Commission to integrate the State Development and Redevelopment Plan and the State Hazard Mitigation Plan Update.	+	+	0	0	+	+	+	5	High
3.E.1: Develop a simple GIS platform, or build upon an existing platform, to maintain and analyze critical facilities inventories and information about hazards.	+	+	0	+	+	0	+	5	High
3.F.1: Explore potential for possible regionalization or consolidation of hazard mitigation planning, administration, and/or implementation at the county level.	+	+	+	0	+	+	+	6	High
3.F.2: Increase understanding of the capabilities of municipal mitigation programs by continuing to encourage local coordinators to participate in the Municipal Capabilities Assessment Survey.	+	0	0	+	+	0	+	4	Medium

Action	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
3.G.1: Provide regular summaries to neighboring communities re: plan monitoring and update procedures (as outlined in Section 7) and post updates on Sussex County's website for public access to the plan update process.	+	+	+	0	+	+	+	6	High
4.A.1: Coordinate with state efforts to develop and implement a detailed severe repetitive loss mitigation strategy that will qualify the county and municipalities for 90:10 cost share under the FEMA SRL program.	+	+	+	+	+	+	+	7	High
4.A.2: Continue working with local and regional jurisdictions to encourage and support their efforts to mitigate RL (and SRL) properties, either individually through the use of cluster solutions and/or basin projects, as appropriate, and offer technical support in carrying out the requirements of FEMA mitigation programs. (see Table 6.3.3-1 for further detail).	+	+	+	+	+	0	+	6	High
4.A.3: Implement mitigation projects and programs intended to reduce risk to critical facilities (see Table 6.3.3-1 for further detail).	+	+	0	+	+	0	+	5	High
4.A.4: Implement other mitigation projects and programs as appropriate at the municipal level (see Table 6.3.3-1 for further detail).	+	+	+	+	+	0	+	6	High
4.A.5: Promote acquisition and elevation of repetitive loss and severe repetitive loss structures (see Table 6.3.3-1 for further detail).	+	+	+	+	+	0	+	6	High
4.A.6: Work with NJGS and other County, State and federal agencies to better identify specific sites in the County that may be exposed to the effects of geo-hazards such as landslides, sinkholes and subsidence.	+	+	0	+	+	0	+	5	High
4.B.1: Ensure full and effective enforcement of building codes, floodplain management, zoning, and other risk-reducing regulations.	+	+	+	0	+	0	+	5	High
4.B.2: Integrate hazard mitigation priorities into Capital Improvement Plans, transportation planning, and other capital planning.	+	+	+	0	+	0	+	5	High
4.B.3: Integrate hazard mitigation Plan and priorities into floodplain management, zoning, subdivision regulation, and other local regulations as appropriate.	+	+	+	0	+	+	+	6	High

¹ See the municipality actions below for a ranking.

Note: Projects were ranked with a -,0,+ rating per STAPLEE category. "-" indicates a negative impact, "0" indicates negligible impact, and "+" indicates a positive impact.

**Table G.2
Municipality Specific Mitigation Actions**

Mitigation Action, Program, or Project	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
SUSSEX COUNTY DEPARTMENT OF ENGINEERING									
County Engineering 1: Hydrology study for flow impact at Vernon Crossing Bridge in support of potential new bridge.	+	+	+	+	+	0	+	6	High
County Engineering 2: Hydrology study of Neldon's Brook located at County Road 622 and Bridge S-25.	+	+	+	+	+	0	+	6	High
SUSSEX COUNTY FACILITIES									
County Facilities 1: Retrofit roof to meet current standards for snow load on County Department of Public Works building located on Route 206.	+	+	+	+	+	0	+	6	High
County Facilities 2: Retrofit roof to meet current standards for snow load of original section of County Public Safety Training Academy located on Morris Turnpike.	+	+	+	+	+	0	+	6	High
County Facilities 3: Retrofit roof to meet current standards for snow load of the original Homestead Healthcare Facility building located on Morris Turnpike.	+	+	+	+	+	0	+	6	High
ANDOVER BOROUGH									
Andover Borough 1: Retrofit roof to meet current standards for snow load on Andover Borough Fire Department building located on Route 206.	+	+	+	+	+	0	+	6	High
Andover Borough 2: Install 300 yards of berm on Kymer Brooke to protect Andover Borough Fire Department located on Route 206.	+	0	+	0	+	0	+	4	Medium
Andover Borough 3: Install retention basin on Washer Farm.	+	0	+	+	+	+	0	5	High
Andover Borough 4: Storm-water runoff management to re-direct runoff from Route 206 near Whitehall Road to a retention basin.	+	0	+	+	+	+	0	5	High
Andover Borough 5: Emergency generator for municipal water system facility located on Lenape Road.	+	0	+	0	+	0	+	4	Medium
Andover Borough 6: Retrofit roof to meet current standards for snow load on municipal building located on Main Street.	+	+	+	+	+	0	+	6	High
Andover Borough 7: Implement Fire Wise Program throughout the Borough.	+	+	+	+	+	0	+	6	High
Andover Borough 8: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
ANDOVER TOWNSHIP									
Andover Township 1: Elevation of flood prone property located on Stickles Pond Road.	+	+	0	+	+	0	+	5	High
Andover Township 2: Elevation of flood prone property located on Limecrest Road.	+	+	0	+	+	0	+	5	High
Andover Township 3: Implementation of Fire Wise community program.	+	+	+	+	+	0	+	6	High

Mitigation Action, Program, or Project	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
Andover Township 4: Upgrade of roof to current snow load and high wind standards of Long Pond School located on Limecrest Road.	+	+	0	+	+	0	+	5	High
Andover Township 5: Upgrade of roof to current snow load and high wind standards of Florence Burd School located on Newton-Sparta Road.	+	+	0	+	+	0	+	5	High
Andover Township 6: Inundation study for Hidden Valley Lake Dam located on Bonnie Glen Court.	+	+	+	+	+	0	+	6	High
Andover Township 7: Inundation study for Lake Lenape Dam located on Old Creamery Road.	+	+	+	+	+	0	+	6	High
Andover Township 8: Storm-water water retention basin addition to Hemlock Avenue and Old Creamery Road.	+	0	+	+	+	+	0	5	High
Andover Township 9: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
BRANCHVILLE BOROUGH									
Branchville Borough 1: Implementation of Fire Wise Program throughout the Borough.	+	+	+	+	+	0	+	6	High
Branchville Borough 2: Raise embankments along 40 feet of the Culver Brook near Milk Street.	+	0	+	0	+	0	+	4	Medium
Branchville Borough 3: Raise embankments along 70 feet of the Dry Brook near Township Baseball Field.	+	0	+	0	+	0	+	4	Medium
Branchville Borough 4: Armoring and bank stabilization for Small Pond Dam located on Wantage Avenue.	+	0	+	0	+	0	+	4	Medium
Branchville Borough 5: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
BYRAM TOWNSHIP									
Byram Township 1: Acquisition/ Elevation, of one Repetitive Loss property on Lackawanna Drive.	+	+	0	+	+	0	+	5	High
Byram Township 2: Retrofit roof to meet current high wind standards on Byram Township Lackawanna Fire Department building located on Lackawanna Drive.	+	+	+	+	+	0	+	6	High
Byram Township 3: Retrofit roof to meet current snow load standards on Byram Township Fire Department Cranberry Lake building located on Route 206.	+	+	+	+	+	0	+	6	High
Byram Township 4: Backup generator for shelter at Byram Township Fire Department Cranberry Lake located on Route 206.	+	0	+	0	+	0	+	4	Medium
Byram Township 5: Retro fit roof to meet current snow load and high wind standards on Byram Civic Center located on Mansfield Drive.	+	+	+	+	+	0	+	6	High
Byram Township 6: Retro fit roof to meet current snow load standards on Byram Municipal Building located on Mansfield Drive.	+	+	+	+	+	0	+	6	High
Byram Township 7: Flood proofing two pump stations located on Mansfield Drive.	+	+	0	+	+	0	+	5	High

Mitigation Action, Program, or Project	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
Byram Township 8: Harden Lee Hill Road Emergency Medical Services Station located on Lee Hill Road to FEMA 361 Standards.	+	+	+	+	+	0	+	6	High
Byram Township 9: Retro fit roof to meet current snow load standards on Intermediate School located on Mansfield Drive.	+	+	0	+	+	0	+	5	High
Byram Township 10: Upgrade and improve culverts on Little Paint Way.	+	0	+	+	+	+	0	5	High
Byram Township 11: Lackawanna Dam inundation study.	+	+	+	+	+	0	+	6	High
Byram Township 12: Forrest Lakes Dam analysis and inundation study.	+	+	+	+	+	0	+	6	High
Byram Township 13: Implementation of Fire Wise program in township.	+	+	+	+	+	0	+	6	High
Byram Township 14: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
FRANKFORD TOWNSHIP									
Frankford Township 1: Backup generator for Frankford Township Volunteer Fire Department 1 located on US Highway 206. Facility is used as a shelter and backup Emergency Operations Center.	+	0	+	0	+	0	+	4	Medium
Frankford Township 2: Upgrade and improvement of culverts on access road to Culver Lake Fire Tower located on the top of Sunrise Mountain.	+	0	+	+	+	+	0	5	High
Frankford Township 3: Backup generator for Culver Lake Fire Tower located on the top of Sunrise Mountain.	+	0	+	0	+	0	+	4	Medium
Frankford Township 4: Backup generator for Municipal Offices and Court located on US Highway 206. Facility is primary Emergency Operations Center.	+	0	+	0	+	0	+	4	Medium
Frankford Township 5: Provide backup generator for the Administration Building at the Sussex County Fair Site located on Plains Road. This facility also serves as an EMS site and a Primary Point of Distribution for both medical and commodities supplies.	+	0	+	0	+	0	+	4	Medium
Frankford Township 6: Provide an all hazard public education outreach program on mitigation related issues.	+	+	+	+	+	0	+	6	High
Frankford Township 7: Mountain Snowmelt and Rain Runoff Analysis for the area of Upper North Shore to Lower North Shore at the water edge of Culver Lake, from Sunkin Road to New Street.	+	+	+	+	+	0	+	6	High
Frankford Township 8: Installation of a storm warning system for severe weather affecting the Sussex County Fairgrounds on Plains Road.	+	+	+	+	+	0	+	6	High
Frankford Township 9: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
FRANKLIN BOROUGH									

Mitigation Action, Program, or Project	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
Franklin Borough 1: Retrofit roof to meet current snow load standards on Franklin Fire Department building located on Buckwheat Road.	+	+	+	+	+	0	+	6	High
Franklin Borough 2: Back-up generator for the Municipal Building located on Main Street.	+	0	+	0	+	0	+	4	Medium
Franklin Borough 3: Construction of retention pond and culverts to eliminate storm water run-off flooding on Route 23 between Franklin Avenue and Rutherford Avenue.	+	0	+	+	+	+	0	5	High
Franklin Borough 4: Storm-water management system upgrade and improvement along Newton Street off County Route 631.	+	0	+	+	+	+	0	5	High
Franklin Borough 5: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
FREDON TOWNSHIP									
Fredon Township 1: Harden Fredon Town Hall/Department of Public Works located on 94S to FEMA 361 Standards.	+	+	+	+	+	0	+	6	High
Fredon Township 2: Retrofit roof to meet current high wind standards on school located on Route 94S.	+	+	0	+	+	0	+	5	High
Fredon Township 3: Retrofit impact resistant windows and shutters to school located on Route 94S.	+	+	0	+	+	0	+	5	High
Fredon Township 4: Emergency generator for school shelter located on Route 94S.	+	0	+	0	+	0	+	4	Medium
Fredon Township 5: Implement Fire Wise prevention program throughout municipality.	+	+	+	+	+	0	+	6	High
Fredon Township 6: Inundation Study for twin dams located on Warner Road and Paulinskill Lake Road.	+	+	+	+	+	0	+	6	High
Fredon Township 7: Emergency generator for shelter at Civic Center.	+	0	+	0	+	0	+	4	Medium
Fredon Township 8: Inundation study for Whittemore Pond Dam.	+	+	+	+	+	0	+	6	High
Fredon Township 9: Upgrade and improve storm-water culverts at intersection of Pond Place and Slate Ridge.	+	+	0	+	+	0	+	5	High
Fredon Township 10: Install storm water runoff retention basin located at Newton Memorial Hospital.	+	0	+	+	+	+	0	5	High
Fredon Township 11: Retrofit roof to meet current snow-load standards on Civic Center/Emergency Services Center on 94S.	+	+	+	+	+	0	+	6	High
Fredon Township 12: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
GREEN TOWNSHIP									
Green Township 1: Retrofit roof to meet current high wind standards on Green Hills School located on Mackerly Road.	+	+	0	+	+	0	+	5	High
Green Township 2: Implement Fire Wise Program throughout the township.	+	+	+	+	+	0	+	6	High

Mitigation Action, Program, or Project	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
Green Township 3: Stream bank stabilization and augmentation of the Pequest River.	+	0	+	0	+	0	+	4	Medium
Green Township 4: Retrofit impact resistant windows and shutters on municipal building located on Kennedy Road.	+	+	+	+	+	0	+	6	High
Green Township 5: Retrofit an external -frame to mitigate straight line winds to post office building located on Municipal Road.	+	+	+	+	+	0	+	6	High
Green Township 6: Retrofit roof to meet current high wind standards for two buildings located on the Trinca Airport located on Airport Road.	+	+	+	+	+	0	+	6	High
Green Township 7: Storm-water runoff management system implemented for 350 homes in the Lake Tranquility development.	+	0	+	+	+	+	0	5	High
Green Township 8: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
HAMBURG BOROUGH									
Hamburg Borough 1: Backup generator for shelter at Hamburg Elementary School located on Linwood Avenue.	+	0	+	0	+	0	+	4	Medium
Hamburg Borough 2: Retrofit roof to meet current snow load standards on Hamburg Elementary School located on Linwood Avenue.	+	+	0	+	+	0	+	5	High
Hamburg Borough 3: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
HAMPTON TOWNSHIP									
Hampton Township 1: Retrofit roof to meet current snow load standards on Department of Public Works facility located on Rumsey Way.	+	+	+	+	+	0	+	6	High
Hampton Township 2: Implement Fire Wise program throughout Township.	+	+	+	+	+	0	+	6	High
Hampton Township 3: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
HARDYSTON TOWNSHIP									
Hardyston Township 1: Implement Fire Wise Program throughout Township.	+	+	+	+	+	0	+	6	High
Hardyston Township 2: Flood proofing of the Fire Company #1 and First Aid squad buildings located on Colson Terrace.	+	+	0	+	+	0	+	5	High
Hardyston Township 3: Storm-water management study to correct storm drainage system located on Colson Terrace.	+	0	+	+	+	+	0	5	High
Hardyston Township 4: Retrofit roof to meet current snow load standards at the Elementary School.	+	+	0	+	+	0	+	5	High
Hardyston Township 5: Retrofit Elementary School gymnasium windows with impact resistant glass and shutters.	+	+	0	+	+	0	+	5	High

Mitigation Action, Program, or Project	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
Hardyston Township 6: Retrofit South West side of municipal building with impact resistant windows and shutters.	+	+	+	+	+	0	+	6	High
Hardyston Township 7: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
HOPATCONG BOROUGH									
Hopatcong Township 1: Retrofit roof, windows and doors to meet current high wind standards on Hudson Maxim School located on River Styx Road.	+	+	0	+	+	0	+	5	High
Hopatcong Township 2: Retrofit roof to meet current snow load standards on Hopatcong Municipal Facility located on River Styx Road.	+	+	+	+	+	0	+	6	High
Hopatcong Township 3: Harden shelter Hopatcong High School to FEMA 361 Standards.	+	+	0	+	+	0	+	5	High
Hopatcong Township 4: Backup generator for Hopatcong Fire Company #4 located on Jefferson Trail. Serves as a shelter/reception center.	+	0	+	0	+	0	+	4	Medium
Hopatcong Township 5: Backup generator for Hopatcong Fire Department #3 located on Hopatching Road. Serves as a shelter/reception center.	+	0	+	0	+	0	+	4	Medium
Hopatcong Township 6: Storm-water management system upgrade and improvement to alleviate flooding between Durban Ave and Wills Ave.	+	0	+	+	+	+	0	5	High
Hopatcong Township 7: Harden shelter at Civic Center located on Lakeside Blvd to FEMA 361 Standards.	+	+	+	+	+	0	+	6	High
Hopatcong Township 8: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
LAFAYETTE TOWNSHIP									
Lafayette Township 1: Retrofit roof to meet current snow load standards on the Lafayette Fire Company building located on Route 15 North.	+	+	+	+	+	0	+	6	High
Lafayette Township 2: Retrofit roof to meet current snow load standards on Lafayette Department of Public Works Garage and Emergency Medical Services located on Morris Farm Road.	+	+	+	+	+	0	+	6	High
Lafayette Township 3: Retrofit roof to meet current snow load standards of Lafayette Township Elementary School located on Beaver Run Road.	+	+	0	+	+	0	+	5	High
Lafayette Township 4: Retrofit Lafayette Township Elementary School with impact resistant windows and shutters. Located on Beaver Run Road.	+	+	0	+	+	0	+	5	High
Lafayette Township 5: Retrofit Lafayette Federated Church (shelter) with impact resistant windows and shutters. Located on Route 15.	+	+	+	+	+	0	+	6	High
Lafayette Township 6: Implement Fire Wise Program throughout the Township.	+	+	+	+	+	0	+	6	High

Mitigation Action, Program, or Project	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
Lafayette Township 7: Construct a storm-water runoff management system for Dennis Road and Pelletstown Road.	+	+	0	+	+	0	+	5	High
Lafayette Township 8: Culvert upgrade and improvement along Decker Road and Snover Road.	+	+	0	+	+	0	+	5	High
Lafayette Township 9: Storm-water management system upgrade and improvement along Beaver Run Road.	+	0	+	+	+	+	0	5	High
Lafayette Township 10: Storm-water management system upgrade and improvement along Meadows Road.	+	0	+	+	+	+	0	5	High
Lafayette Township 11: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
MONTAGUE TOWNSHIP									
Montague Township 1: Acquisition/ Elevation of two Repetitive Loss properties on River Road.	+	+	0	+	+	0	+	5	High
Montague Township 2: Retrofit roof to current standards for snow load on Montague Fire Department building located on Clove Road.	+	+	+	+	+	0	+	6	High
Montague Township 3: Retrofit roof to current standards for high winds on Montague Fire Department building located on Clove Road.	+	+	+	+	+	0	+	6	High
Montague Township 4: Retrofit roof to current standards for high winds on Montague Elementary School (shelter) located on Route 206.	+	+	0	+	+	0	+	5	High
Montague Township 5: Retrofit roof to current standards for snow load on Montague Elementary School (shelter) located on Route 206.	+	+	0	+	+	0	+	5	High
Montague Township 6: Backup generator for Montague Elementary School (shelter) located on Route 206.	+	0	+	0	+	0	+	4	Medium
Montague Township 7: Retrofit roof to current standards for snow load on Montague Department of Public Works building located on Weider Road.	+	+	+	+	+	0	+	6	High
Montague Township 8: Retrofit roof to current standards for high winds on Montague Department of Public Works building located on Weider Road.	+	+	+	+	+	0	+	6	High
Montague Township 9: Retrofit municipal building with impact resistant windows and shutters located on Clove Road.	+	+	+	+	+	0	+	6	High
Montague Township 10: Implementation of the Fire Wise Program throughout the township.	+	+	+	+	+	0	+	6	High
Montague Township 11: Warning system installation along flood areas on River Road.	+	+	+	+	+	0	+	6	High
Montague Township 12: Elevate river banks for a half mile along the Delaware and Benekill Rivers.	+	0	+	0	+	0	+	4	Medium
Montague Township 13: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
NEWTON TOWN									

Mitigation Action, Program, or Project	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
Newton Town 1: Retrofit roof to meet current standards for high winds on Halstead School located on Halstead Street.	+	+	0	+	+	0	+	5	High
Newton Town 2: Retrofit oldest portion of building with impact resistant windows of Newton Memorial Hospital located on High Street.	+	+	+	+	+	0	+	6	High
Newton Town 3: Retrofit roof to meet current standards for snow load on two sections of Newton Memorial Hospital located on High Street.	+	+	+	+	+	0	+	6	High
Newton Town 4: Retrofit roof to meet current standards for high winds on Newton High School located on Ryerson Avenue.	+	+	0	+	+	0	+	5	High
Newton Town 5: Retrofit roof to meet current standards for snow load on school located on Miriam Avenue.	+	+	+	+	+	0	+	6	High
Newton Town 6: Retrofit roof section over vehicle bays to meet current standards for snow load of Newton First Aid Squad 65 located on Sussex Street.	+	+	+	+	+	0	+	6	High
Newton Town 7: Implementation of Fire Wise Program throughout township.	+	+	+	+	+	0	+	6	High
Newton Town 8: Install armoring on Dam #4 located on Sussex County College property.	+	0	+	0	+	0	+	4	Medium
Newton Town 9: Install armoring of Dam #2 located on Swartswood Road.	+	0	+	0	+	0	+	4	Medium
Newton Town 10: Conduct inundation study for Morris Lake Dam located on Morris Lake Road.	+	+	+	+	+	0	+	6	High
Newton Town 11: Upgrade capacity of Merriam Avenue School Storm-water Pump Facility.	+	+	0	+	+	0	+	5	High
Newton Town 12: Retrofit roof to meet current standards for high winds on Newton Municipal Building located on Trinity Street.	+	+	+	+	+	0	+	6	High
Newton Town 13: Retrofit roof to meet current standards for snow load on Fire House #1 located on Mill Street.	+	+	+	+	+	0	+	6	High
Newton Town 14: Retrofit roof to meet current standards for snow load of Fire House #2 located on Woodside Avenue.	+	+	+	+	+	0	+	6	High
Newton Town 15: Storm-water management system upgrade and improvement access way to DPW Garage located on Moran Street.	+	0	+	+	+	+	0	5	High
Newton Town 16: Retrofit roof to meet current standards for snow load of one waste water treatment plant located on Townsend Street.	+	+	+	+	+	0	+	6	High
Newton Town 17: Retrofit two buildings with impact resistant windows and shutters at the Sussex County Community College	+	+	0	+	+	0	+	5	High
Newton Town 18: Retrofit two buildings to meet current snow load standards at the Sussex County Community College.	+	+	0	+	+	0	+	5	High
Newton Town 19: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High

Mitigation Action, Program, or Project	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
OGDENSBURG BOROUGH									
Ogdensburg Borough 1: Acquisition / elevation of one Repetitive Loss property located on Richardsville Road.	+	+	0	+	+	0	+	5	High
Ogdensburg Borough 2: Retrofit roof to meet current snow load standards for Ogdensburg Elementary School located 100 Main Street.	+	+	0	+	+	0	+	5	High
Ogdensburg Borough 3: Backup generator for Ogdensburg Elementary School located 100 Main Street. Facility utilized as a shelter.	+	0	+	0	+	0	+	4	Medium
Ogdensburg Borough 4: Dredge Heaters Pond to increase holding capacity.	+	0	+	+	0	0	0	3	Low
Ogdensburg Borough 5: Backup generator for Ogdensburg Fire Department located on Main Street. Facility utilized as a shelter.	+	0	+	0	+	0	+	4	Medium
Ogdensburg Borough 6: Implement Fire Wise Program throughout the Borough.	+	+	+	+	+	0	+	6	High
Ogdensburg Borough 7: Stream bank stabilization (vegetation addition) on Middle Sawmill Brook from RR tracks to Route 517.	+	0	+	0	+	0	+	4	Medium
Ogdensburg Borough 8: Armoring and bank stabilization on Heaters Pond Dam located at Edison Road.	+	0	+	0	+	0	+	4	Medium
Ogdensburg Borough 9: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
SANDYSTON TOWNSHIP									
Sandyston Township 1: Implement Fire Wise Program throughout the Township.	+	+	+	+	+	0	+	6	High
Sandyston Township 2: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
SPARTA TOWNSHIP									
Sparta Township 1: Emergency generator for shelter located within Sparta Ambulance Service building located on Sparta Avenue.	+	0	+	0	+	0	+	4	Medium
Sparta Township 2: Harden Sparta Department of Public Works building located on Prices Lane to FEMA 361 Standards.	+	+	+	+	+	0	+	6	High
Sparta Township 3: Retrofit impact resistant windows and shutters on Germany Flats Pump Facility located on Park Lake Drive.	+	+	+	+	+	0	+	6	High
Sparta Township 4: Stream bank stabilization along Sparta Glen Brook (3500 feet).	+	0	+	0	+	0	+	4	Medium
Sparta Township 5: Stream bank stabilization along Wallkill River at Station Park (1500 feet).	+	0	+	0	+	0	+	4	Medium
Sparta Township 6: Storm-water management system upgrade and improvement along Hopkins Corner Road and Valley Manner Drive.	+	0	+	+	+	+	0	5	High
Sparta Township 7: Implement Fire Wise Program throughout the Township.	+	+	+	+	+	0	+	6	High

Mitigation Action, Program, or Project	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
Sparta Township 8: Retrofit impact resistant windows and shutters on two buildings of the Sussex County Technical School.	+	+	0	+	+	0	+	5	High
Sparta Township 9: Retrofit two buildings to meet current snow load standards at the Sussex County Technical School.	+	+	0	+	+	0	+	5	High
Sparta Township 10: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
STANHOPE BOROUGH									
Stanhope Borough 1: Backup generator for Lenape Valley Regional High School. Facility is utilized as the primary ARC approved Shelter.	+	0	+	0	+	0	+	4	Medium
Stanhope Borough 2: Flood proofing and elevation of utilities for the Compact Building on Furnace Street.	+	+	0	+	+	0	+	5	High
Stanhope Borough 3: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
STILLWATER TOWNSHIP									
Stillwater Township 1: Retrofit doors and windows to meet FEMA hurricane resistant standards on Stillwater Township School located on Stillwater Road. Older section of building will need more extensive reconstruction.	+	+	0	+	+	0	+	5	High
Stillwater Township 2: Retrofit roof to meet current snow load standards on Swartswood Fire Department Fire Company located on County Route 612.	+	+	+	+	+	0	+	6	High
Stillwater Township 3: Retrofit roof to meet current snow load standards the Stillwater Fire Department located on Stillwater Road.	+	+	+	+	+	0	+	6	High
Stillwater Township 4: Stream-bank stabilization along the Paulinskill River at Kohlbocker Road.	+	0	+	0	+	0	+	4	Medium
Stillwater Township 5: Stream-bank stabilization of Neldon's Brook effecting Swartswood Fire Department Fire Company located on County Route 612.	+	0	+	0	+	0	+	4	Medium
Stillwater Township 6: Flood proofing of 2 homes located West End Drive.	+	+	0	+	+	0	+	5	High
Stillwater Township 7: Implement Fire Wise Program throughout the Township.	+	+	+	+	+	0	+	6	High
Stillwater Township 8: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
SUSSEX BOROUGH									
Sussex Borough 1: Stream bank stabilization, rip-wrap instillation surrounding confluence of Clove Brook and Papakating Creek.	+	0	+	0	+	0	+	4	Medium
Sussex Borough 2: Stream bank stabilization of town reservoir and feeder waterway to water treatment plant.	+	0	+	0	+	0	+	4	Medium

Mitigation Action, Program, or Project	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
Sussex Borough 3: Armoring of Lake Rutherford Dam located in High Point State Park.	+	0	+	0	+	0	+	4	Medium
Sussex Borough 4: Armoring of Colesville Reservoir Dam located Brink Road.	+	0	+	0	+	0	+	4	Medium
Sussex Borough 5: Retrofit impact resistant windows and shutters on Sussex Fire Department building located on Loomis Avenue.	+	+	+	+	+	0	+	6	High
Sussex Borough 6: Retrofit impact resistant windows and shutters on Sussex Middle School located on Loomis Avenue	+	+	0	+	+	0	+	5	High
Sussex Borough 7: Retrofit roof to meet current standards for snow load on original section of Sussex middle School located on Loomis Avenue.	+	+	0	+	+	0	+	5	High
Sussex Borough 8: Backup generator for shelter at Sussex Christian School located on Unionville Avenue.	+	0	+	0	+	0	+	4	Medium
Sussex Borough 9: Backup generator for shelter at Emergency Operations Center located on Main Street.	+	0	+	0	+	0	+	4	Medium
Sussex Borough 10: Backup generator for shelter at Department of Public Works garage located on Brookside Avenue.	+	0	+	0	+	0	+	4	Medium
Sussex Borough 11: Implement Fire Wise Program throughout the Borough.	+	+	+	+	+	0	+	6	High
Sussex Borough 12: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
VERNON TOWNSHIP									
Vernon Township 1: Retrofit roof to meet current snow load standards on Highland Lakes Volunteer Fire Department building located on Canistear Road.	+	+	+	+	+	0	+	6	High
Vernon Township 2: Retrofit roof to meet current snow load standards on Vernon Valley Police Department building located on Church Street.	+	+	+	+	+	0	+	6	High
Vernon Township 3: Retrofit roof to meet current snow load standards on Lounsberry Hollow School located on Sammis Road.	+	+	0	+	+	0	+	5	High
Vernon Township 4: Retrofit roof to meet current snow load standards on High School located on Route 565.	+	+	0	+	+	0	+	5	High
Vernon Township 5: Implement the Fire Wise Program throughout the township.	+	+	+	+	+	0	+	6	High
Vernon Township 6: Retrofit roof to meet current snow load standards on Glen Meadows School located on Sammis Road.	+	+	0	+	+	0	+	5	High
Vernon Township 7: Retrofit roof to meet current high wind standards on Cedar Mountain School located on Sammis Road.	+	+	0	+	+	0	+	5	High
Vernon Township 8: Retrofit roof to meet current snow load standards on Rolling Hill School located on Sammis Road.	+	+	0	+	+	0	+	5	High
Vernon Township 9: Retrofit roof to meet current snow load standards on Walnut Ridge School located on route 517.	+	+	0	+	+	0	+	5	High

Mitigation Action, Program, or Project	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Total	Priority
Vernon Township 10: Storm-water management system upgrade and improvement along Maple Grange Road and Vernon Crossing Road.	+	0	+	+	+	+	0	5	High
Vernon Township 11: Embankment stabilization for Mountain Creek Water Park located on route 94.	+	0	+	0	+	0	+	4	Medium
Vernon Township 12: Storm-water management system along Tenneco Pipeline.	+	0	+	+	+	+	0	5	High
Vernon Township 13: Harden SES Americom building located on route 517 and Edsel Drive to FEMA 361 Standards.	+	+	+	+	+	0	+	6	High
Vernon Township 14: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
WALPACK TOWNSHIP									
Walpack Township 1: Acquisition/ Elevation of one Repetitive Loss property on Old Mine Road.	+	+	0	+	+	0	+	5	High
Walpack Township 2: Implement Fire Wise Program throughout the Township.	+	+	+	+	+	0	+	6	High
Walpack Township 3: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High
WANTAGE TOWNSHIP									
Wantage Township 1: Storm-water drainage improvement and road elevation on Mudtown Road between Route 23 and Skytop Road.	+	0	+	+	+	+	0	5	High
Wantage Township 2: Implement Fire Wise Program throughout the Township.	+	+	+	+	+	0	+	6	High
Wantage Township 3: Conduct "All Hazards" public education and outreach program for hazard mitigation and preparedness.	+	+	+	+	+	+	+	7	High

Note: Projects were ranked with a -,0,+ rating per STAPLEE category. "-" indicates a negative impact, "0" indicates negligible impact, and "+" indicates a positive impact.