

46 – SHREWSBURY TOWNSHIP

PLANNING TEAM AND PARTICIPATION

Name	Title	Participation
Erich Jackson	OEM Coordinator	Primary point of contact, Attended Municipal Meeting
Lester J. Jennings	Mayor	Reviewed appendix

COMMUNITY PROFILE

Overview

As an original township within Monmouth County, Shrewsbury Township once covered nearly 1,000 square miles, and dates to an origin in 1693. Over 70 new municipalities were then created within Shrewsbury's boundaries, leaving the township, with 0.1 square mile, the smallest municipality in Monmouth County.

Shrewsbury Township is built out and is almost entirely comprised of residential land uses. It is bordered by Tinton Falls and Shrewsbury Borough municipalities. The township is landlocked and sits in central Monmouth County between small waterways, including Parkers Creek Branch, before its emptying in the Shrewsbury Bay. Commercial land uses are accessible near the eastern border of the borough with Tinton Falls. In central Shrewsbury, Shrewsbury Township Recreational Department is home to public recreation areas.

Land Use, Development, & Growth

Shrewsbury Township is a small community consisting primarily of residential land and apartments. It did not experience any significant land use changes between 2015 and 2020; the share of the Township's urban or developed land hovered at roughly 95 percent of the total Township, covering an area of nearly 60 acres, while forested land and

Land Use Type	Total Acres (2015)	Total Acres (2020)	Percent Change
Agriculture	-	-	-
Barren Land	-	-	-
Forest	2.3	2.3	>0%
Urban	59.8	59.8	>0%
Water	0.0	0.0	-
Wetlands	0.6	0.6	>0%

Source: NJDEP Land Use/Land Cover data, 2015-2020

Recent Major Development and Infrastructure from 2020 to Present

None since 2020.

Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years

None since 2020.

Demographics & Vulnerable Populations

This plan analyzed census-derived data on population trends and population age distributions to help illustrate potential vulnerability within the township. A population increase or decrease can illustrate potential hazard vulnerability through development pressures on the built environment, or through physical and social impacts of marked population loss. A community with a large share of population under age five may indicate vulnerabilities in hazard response, resource allocation, and evacuation – FEMA identifies that the pediatric population is disproportionately affected during disasters, and requires special consideration in categories of anatomy and physiology, psychological, and education vulnerabilities (FEMA, 2022, NLM, 2022). Individuals over age 65 are a growing share of the country's population and often represent the greatest share of deaths from extreme weather events and other natural disasters. A larger share of population over

65 may indicate local vulnerabilities to hazard events both before and after a disaster occurs – these populations may have mobility needs, uneven access to resources, and limited social networks that makes pre-disaster engagement challenging (FEMA, 2023).

The Township of Shrewsbury has a total population estimated at 1,269. Of Shrewsbury Township residents, an estimated 2.6% are under age 5 and nearly 11% (10.95%) are estimated to be over age 65. The Township saw population growth of 13.6% estimated between the ACS survey periods of 2013-2017 and 2018-2022. Though no recent or upcoming large-scale development is noted by the community, a population growth of over 13% between five-year survey periods also highlights potential local vulnerabilities related to shifts in the built environment and a risk of densification causing additional hazard impacts.

The entirety of this Township is a block group which has been identified as potentially vulnerable due to overburden, meeting criteria for Minority population vulnerabilities. There are no parts of the Township which have been identified under CDRZ or CEJST definitions.

Demographics Summary	
Total Population (2018-2022 ACS 5-year Estimates)	1,269
Population Change since 2017	13.6%
Percent of Population Age < 5	2.6%
Percent of Population > 65	11.0%

Source: 2018-2022 ACS 5-Year Estimates, 2013-2017 ACS 5-Year Estimates

HAZARD IDENTIFICATION

One of the first steps in developing a risk assessment is for participating municipalities to review and prioritize the hazards that can affect them. This was done based on how often a hazard has occurred, how significant effects have been in the past, the difficulty and cost of recovering from such events. Jurisdictions ranked the list of hazards as either high, medium, low, or no concern. The following include the Borough's hazard ranking. The full risk assessment for each hazard is located in Section 4.0.

Hazard Ranking

High	Medium	Low
Natural Hazards		
	Extreme Temperatures	Lightning
	Extreme Wind	Drought
	Hurricane/Tropical Storm/Nor'easter	Flood
	Tornado	Earthquake
	Winter Storm	Wildfire
Human-made Hazards		
	Cyber Attack	Civil Unrest
	Economic Disruption	Power Failure
	Terrorism	Pandemic

Note: Coastal Erosion, Dam Failure, Landslide, Storm Surge and Wave Action are ranked as N/A.

Hazard Ranking Explanation

With Shrewsbury Township's location, size, and landscape, the Township identifies no hazards as hazards of 'high' concern. The absence of adjacent coasts or main waterways eliminates concerns related to coastal erosion, flooding, or sea level rise hazards. Additionally, the built-out nature of the Township minimizes the risk of wildfires. Hazards of 'medium' concern include widespread storm events such as Hurricane/Tropical Storm/Nor'easter, Tornado, Winter Storm, and

extreme temperatures. These medium-priority hazards are monitored closely to ensure the safety and resilience of the community.

Significant Hazard Events Since Last Plan Update

Since the last plan update, no significant hazard events have been noted in Shrewsbury Township. This stability in hazard events indicates that the existing mitigation strategies and infrastructure have been effective in managing risks. However, continuous monitoring and updating of hazard mitigation plans are essential to address any emerging threats and ensure the ongoing safety of the Township.

Climate Change Impacts on Extent and Magnitude of Hazards

Climate change is expected to significantly impact the risks and hazards faced by Shrewsbury Township, NJ. Rising temperatures and shifting precipitation patterns will likely increase the frequency and intensity of extreme weather events such as hurricanes, Nor'easters, and heavy rainfall. This will exacerbate existing flooding issues, particularly in areas adjacent to small waterways like Parkers Creek Branch. The increased flooding risk will necessitate more robust flood management and mitigation strategies to protect residential properties and critical infrastructure.

Additionally, rising temperatures and prolonged heatwaves will pose challenges to the community, especially for vulnerable populations such as the elderly and young children. The built-out nature of the Township minimizes wildfire risk, but extreme temperatures can still strain public health resources and infrastructure. Shrewsbury Township will need to invest in infrastructure upgrades, such as improved drainage systems and cooling centers, to mitigate these risks and enhance community resilience.

RISK ASSESSMENT

National Flood Insurance Program (NFIP) statistics

Shrewsbury Township	
Initial FIRM Date	9/25/2009
Effective FIRM Date	No SFHA
Number of Policies In-Force:	0
Total Losses:	0
Total Payments:	\$0
Number of RL Properties:	0
Number of Mitigated RL Properties:	0
RL – Total Losses:	0
RL – Total Paid:	\$0
Number of SRL Properties:	0
Number of Mitigated SRL Properties:	0
SRL – Total Losses:	0
SRL – Total Paid:	\$0

Source: FEMA Policy and Loss Data, August 2024

Vulnerability of the Built Environment

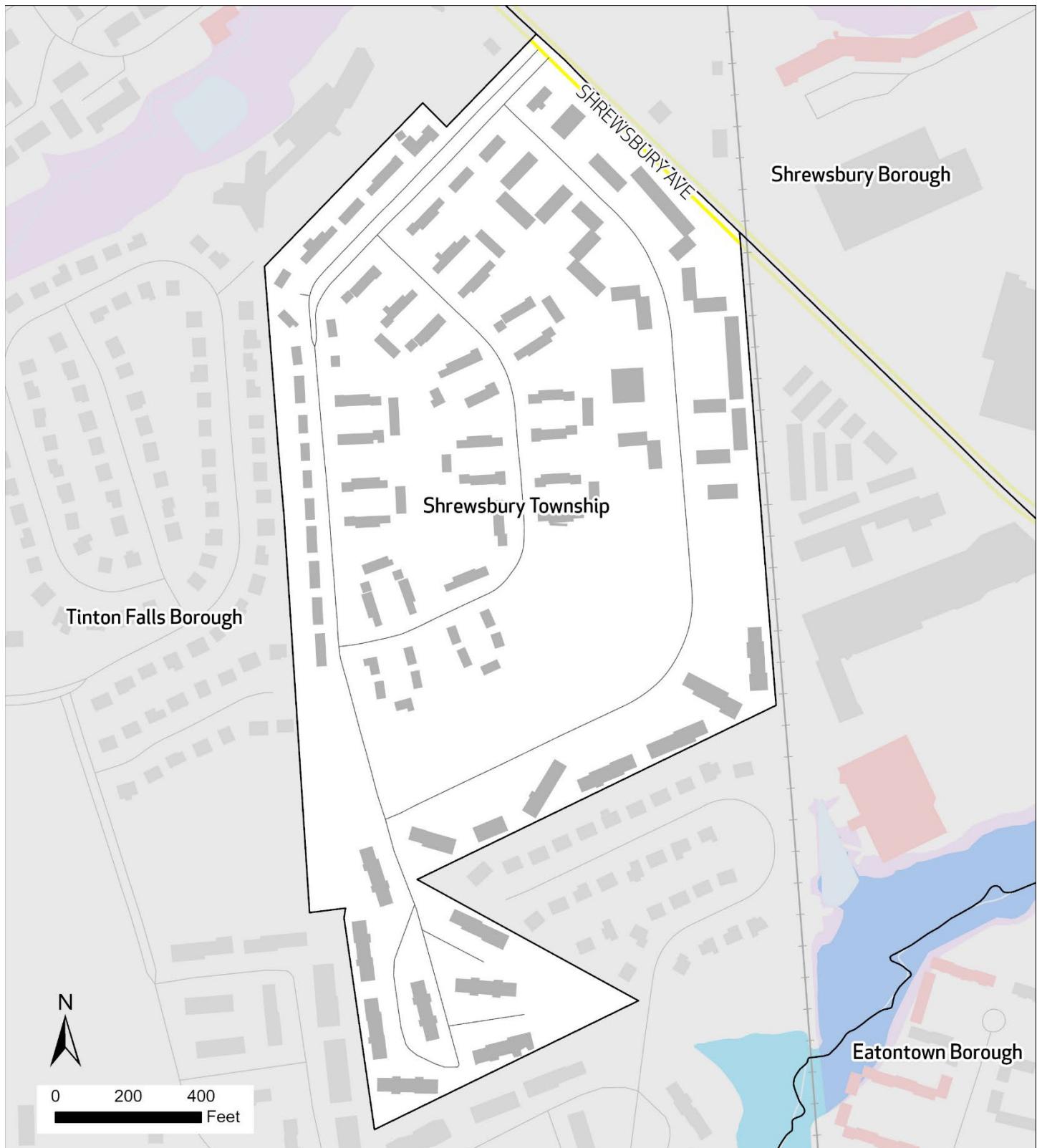
Shrewsbury Township contains no floodplain identified as part of the Special Flood Hazard Area (SFHA). Zero percent of the total area of Shrewsbury Township lies within the 1% or 0.2% annual chance flood zone as defined by FEMA.

About 77.7 percent of Shrewsbury Borough is considered developed. Of the developed parcels of the town, none fall within either the 1% or the 0.2% annual chance flood zone. This illustrates that the municipality faces minimal flood risk.

	Percentage in the 1% Floodplain	Percentage in the 0.2% Floodplain	5 Feet of Sea Level Rise
Developed Parcels	NA	NA	NA
Exposed Land Area	NA	NA	NA

The township did not identify any critical facilities during the planning process, however, none of the facilities in the town lie within the floodplain or the area projected to be inundated under sea level rise.

	Number in the 1% Floodplain	Number in the 0.2% Floodplain	Number within 5 feet of Sea Level Rise
Community Lifelines and Critical Facilities	NA	NA	NA



Flood Risk

Shrewsbury Township

- County Routes
- Local Roads
- Municipal Boundaries
- Building Footprints
- Building Footprints within Floodplain
- Water

Source: FEMA NJDEP, NJOIT, NJTransit



NJ Inland Design Flood Elevation
Shrewsbury Township

FEMA Flood Zone

- Current Base Flood Elevation (1%)
- NJ Inland Design Flood Elevation
- FEMA BFE (1%) plus 3 Feet

County Routes
Local Roads

Municipal Boundaries
Water
Building Footprints
Building Footprints within IDFE

Source: FEMA, Rutgers University, NJDEP, NJOIT, NJTransit



Wildland Urban Interface (WUI) Classification

Shrewsbury Township

- Intermix
- High or Medium Density Housing
- Low or Very Low Density Housing
- No Housing

- County Routes
- Local Roads
- Rail Lines

- Municipal Boundaries
- Building Footprint
- Water

Source: USFS, NJDEP, NJOIT, NJTransit

CAPABILITY ASSESSMENT

Planning & Regulatory Capabilities

Shrewsbury Township has the following additional Planning & Regulatory capabilities:

Plan and Regulation	Yes	No	Date of last update	How does this capability support hazard mitigation?
Master Plan		X		
Capital Improvement Plan		X		
Local Emergency Operations Plan/Continuity of Operations Plan		X		
Floodplain Development Ordinance		X		
Floodplain Management Plan		X		
Stormwater Management Ordinance	X			Stormwater best practices has remained a focus of the Township since 2008, when it first adopted a Municipal Stormwater Management Plan and a Stormwater Control Ordinance.
Stormwater Management Plan		X		
Watershed Management Plan		X		
Sheltering Plan		X		
Evacuation Plan		X		
Substantial Damage/Improved Structures Response		X		
Repetitive Loss Plan		X		
Disaster Debris Management Plan		X		
Tracking elevation certificates and/or Letter of Map Change		X		
Post-Disaster Recovery Plan		X		
Current/recent redevelopment plans or studies		X		
Community Wildfire Protection Plan		X		
Climate Adaptation Plan		X		
Other Plans that discusses hazard mitigation		X		
Other ordinance and regulation that mitigate the impacts of natural hazards		X		

Administrative and Technical Capabilities

Shrewsbury Township has the following Administrative and Technical capabilities:

Position	Yes	No	Explanation
Floodplain Administrator		X	
Grant Writer		X	
Staff trained to support mitigation		X	
Existing mutual aid or technical assistance agreements to support hazard mitigation projects		X	
Non-governmental organizations/other partners that work with the municipality on mitigation projects		X	
Organizations that work with socially vulnerable or underserved populations		X	

Education and Outreach Capabilities

Shrewsbury Township has the following Education and Outreach capabilities:

Education & Outreach Capability	Yes	No	Explanation
Communicate natural and human-based hazards to the public	X		The Township's website provides information on solutions to stormwater pollution.
StormReady		X	
Firewise USA		X	
Severe Weather Awareness Week		X	
Community Rating System (CRS)		X	

Financial Capabilities

Within the last five years, Shrewsbury Township has used the following financial capabilities to implement hazard mitigation activities:

Financial Capability	Yes	No	Explanation
FEMA BRIC		X	
FEMA FMA		X	
FEMA Public Assistance		X	
FEMA HMG		X	
Non-FEMA Federal Funding Programs		X	
Other FEMA resources		X	
NJ Infrastructure Bank		X	
Other state municipal assistance or grant programs		X	
Evaluation process on the prioritization of risk reduction projects against other local activities		X	
Other ongoing efforts to build additional financial capabilities		X	

Additional Capability Assessment Information:

MITIGATION STRATEGY

Overview and Progress Since Last Plan Update

The Township of Shrewsbury would like to prioritize improvements to their critical facilities, including a generator for the municipal building, air conditioning for gymnasium to use as a cooling station, and lighting to assist with safety and security concerns for the park and recreation.

Completed or Removed Actions

Action	Name	Description	Hazards Addressed	Priority	Responsible Party	Potential Funding	Cost Estimate	Timeline	Action Status	Notes
There are no completed or withdrawn 2021 actions at the time of this update.										

New and Ongoing Actions

Action	Name	Description	Hazards Addressed	Priority	Responsible Party	Potential Funding	Cost Estimate	Timeline	Action Status	Notes
Action 46-1	Purchase and Install a Generator for the Township Municipal Building and Make Necessary Improvements to EOC	The Township Municipal Building needs an emergency generator and EOC needs improvements to the telecom and electrical systems to remain operable during power outages.	All Hazards	Medium	Township Engineer and Township Clerk	FEMA HMA	\$300,000	1 year	Ongoing	Currently having a discussion with Mayor Jennings about the funding and purchase of a Generac Generator for Municipal building knowing that it would not cost 300k
Action 46-2	Implement BMPs from the Stormwater Management Plan	Ongoing implementation of the practices identified in the current Stormwater Management Plan.	Flood, Nor'easter, Hurricane and Tropical Storm	Medium	Mayor and Committee	Municipal budget	\$300,000	1 year	Ongoing	This is Ongoing
Action 46-3	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe	Acquire, elevate, or relocate structures that repetitively flood. Currently there are no properties on NFIP's RL/SRL property list, however if a property becomes a RL/SRL property, then work with	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	High	Engineer	FEMA HMA	TBD	5 + years	Ongoing	This is Ongoing.

Action	Name	Description	Hazards Addressed	Priority	Responsible Party	Potential Funding	Cost Estimate	Timeline	Action Status	Notes
	Repetitive Loss (SRL) properties	residents to mitigate the repetitive flooding.								
Action 46-4	Purchase and Install Surveillance Cameras and additional lighting at DPW, Parks, and Municipal Building	Install surveillance cameras at both the DPW & Township Municipal Building.	Terrorism	Medium	Township	Homeland Security grants	TBD	1 year	Ongoing	Cameras are already in place. New system has been purchased and delivered. Awaiting installation at this time.
Action 46-5	Coordinate with State Police on Emergency Response Time	Create a plan with the State Police on quicker response time. The Township is open to allowing the State Police to have a staging area within the Township.	All Hazards	Medium	Township, State Police, City of Long Branch	Homeland Security grants, Monmouth County budget, municipal budget	TBD	2 years	Ongoing	This is Ongoing
Action 46-6	Purchase and Install Generator for Pump Station	Purchase and maintain generators to continue critical community services during utility interruptions and storm events.	All Hazards	High	Township	FEMA HMA	TBD	1 year	Ongoing	Pump station has been toured during routine maintenance. There is a Generac on site and all in good operational readiness.
Action 46-7	Purchase a generac system for the Gymnasium to serve as a cooling center	Purchase a generac system for Gymnasium to use as a cooling station for the town.	Extreme Heat	High	Township	FEMA HMA	\$15,000	5 years	New	