



Gloucester County, New Jersey Hazard Mitigation Plan – 2022 Update

Planning Partnership Risk Assessment Meeting | June 30, 2021

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Agenda

- Welcome and Opening Remarks
- Project Status – where we are in the process
- Risk Assessment Overview – draft results to date
- SWOO (Strengths, Weaknesses, Obstacles and Opportunities)
- Development of Problem Statements
- In-Kind Tracking
- Next Steps



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Gloucester County HMP - In-Kind Tracker

- Gloucester County received FEMA funding to update the Hazard Mitigation Plan (HMP). To help meet the required 25% match, the County will use in-kind services.
- Please use this form to document your time spent working on the HMP. This includes attending meeting, conference calls, working on your municipal annex, reviewing sections of the plan, etc.
- If you have any questions, please reach out to Heather Aggar (heather.aggar@tetrachat.com | 973.630.0046) or Heather Aggar (973.630.8357).

[illegible]

✓ April/May 2021	Kick-Off Meetings
✓ April-June 2021	Data Collection
✓ June 23, 2021	Risk Assessment Presentation to Steering Committee
☐ June 30, 2021	Risk Assessment Presentation to Planning Partnership – TODAY!
☐ April-June 2021	Update Hazard Profiles – <i>in progress</i>
☐ June-July 2021	Develop Problem Statements with Municipalities and County
☐ July/August 2021	Mitigation Strategy Workshop (date TBD)
☐ July-September 2021	Plan Development
☐ September 2021	Review Draft Plan
☐ October 2021	Plan Submitted to FEMA and NJOEM

Municipal Participation Status

- To date, we have received Letters of Intent to Participate (LOIP) from 14 out of 25 (see list to the right)
- Next Step for Annex Completion includes confirmation of Risk Ranking Assessment, status updates on previous mitigation projects from the 2016 HMP, identifying new projects for the 2021 Update and filling in the annexes.
- Upcoming steps include problem statement brainstorming and mitigation project identification.

Status (6/28/2021)	
Gloucester County	Following up with individual departments as needed
Clayton (B)	Received all worksheets; annex in progress
Deptford (Twp)	Received nearly all worksheets; annex in progress
East Greenwich (Twp)	Received all worksheets; annex in progress
Elk (Twp)	Received all worksheets; annex in progress
Franklin (Twp)	No LOIP; no worksheets
Glassboro (B)	No worksheets to date but Tetra Tech spoke to the Borough on 6/9
Greenwich (Twp)	No LOIP; no worksheets
Harrison (Twp)	Only received one worksheet to date
Logan (Twp)	No worksheets to date
Mantua (Twp)	No LOIP; Tt will be meeting with them to go over worksheets
Monroe (Twp)	Received all worksheets; annex in progress
National Park (B)	No LOIP; no worksheets
Newfield (B)	No LOIP; no worksheets
Paulsboro (B)	No LOIP; no worksheets
Pitman (B)	Received all worksheets; annex in progress
South Harrison (Twp)	No LOIP; no worksheets
Swedesboro (B)	No worksheets to date
Washington (Twp)	No LOIP; no worksheets
Wenonah (B)	Received all worksheets; annex in progress
West Deptford (Twp)	Received all worksheets; annex in progress
Westville (B)	Received all worksheets; annex in progress
Woodbury (C)	No LOIP; no worksheets
Woodbury Heights (B)	No LOIP; no worksheets
Woolwich (Twp)	No worksheets to date
Rowan University	No LOIP; no worksheets

Public Outreach and Engagement

- Stakeholder and neighboring county surveys were distributed
- To date, we have received over 50 responses to the public survey
- We are currently developing a Story Map – stay tuned!
- Public Engagement – County and municipalities were sent different tools they can use to help – please continue to share!
 - HMP website
<https://www.gloucestercountynjhmp2021.com>
 - Social Media announcements – Facebook and Twitter
 - Let Tt know when you post about the HMP so we can include in the HMP



Gloucester County Hazard Mitigation Plan 2021 Update

Is your family storm ready? Have ideas for making Gloucester County more resistant to future disasters? We want to hear from you! We are updating the County's Hazard Mitigation Plan and are looking for your feedback to inform our planning process. Take our survey today.

Gloucester County Hazard Mitigation Plan 2021 Update

Gloucester County and participating municipalities are updating the countywide hazard mitigation plan. The goal of this plan is to identify projects that can reduce damages from future hazards and make the County more resilient.

As part of the planning process, we are looking for your input on what hazards affect you most and what the County can do to reduce future impacts.

Live or work in Gloucester County? Take our survey!

<https://www.surveymonkey.com/r/GCHMPPublicSurvey>

Gloucester County Hazard Mitigation Plan 2021 Update

YOUR INPUT IS NEEDED TO HELP REDUCE LOSSES FROM DISASTERS

VISIT THE HAZARD MITIGATION WEBSITE TO LEARN MORE
<https://www.gloucestercountyhmp2021.com/>

Gloucester Office of Emergency Management

May 12 at 5:55 AM

The Office of Emergency Management is working with Gloucester County OIR, our neighboring municipalities, and TechTech to update our Hazard Mitigation Plan. Please take the survey using the link below to help us to coordinate activities and make plans to reduce the risk of injury or property damage during a disaster.

<https://www.surveymonkey.com/r/GCHMPPublicSurvey>

Westville Environmental Commission

May 27 at 11:53 AM

The Gloucester County Office of Emergency Management has put together an interactive website where the general public can take part in a survey and stay informed of the HMP's progress. "This survey is designed to gather information from around Gloucester County to help us better coordinate activities and reduce the risk of injury or property damage."

<https://www.gloucestercountyhmp2021.com/>

WE NEED YOUR INPUT ON DISASTERS!

HAZARD MITIGATION PUBLIC SURVEY

CLICK HERE TO TAKE THE PUBLIC SURVEY AND HELP US UPDATE THE GLOUCESTER COUNTY HMP

[GLOUCESTERCOUNTYHMP2021.COM](https://www.gloucestercountyhmp2021.com/)
Home - Gloucester County Hazard Mitigation Plan Update
Gloucester County is updating their 2016 Hazard Mitigation Plan. The County and all 24 municipalities...

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Risk Assessment Overview

TETRA TECH

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What is Risk?

Risk is defined as a function of :

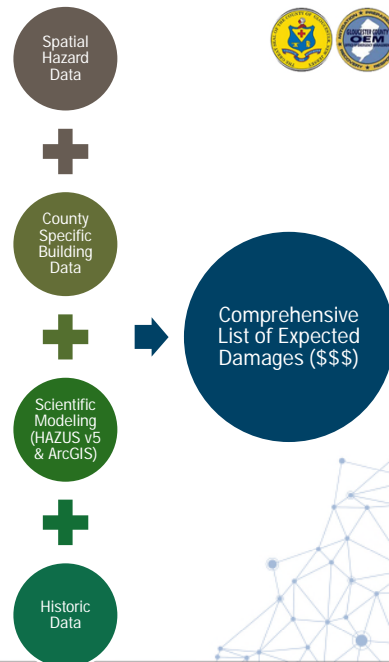
- ✓ **Hazard**
 - *Source of potential danger or adverse condition*
- ✓ **Exposure**
 - *Manmade or natural features that are exposed to the hazard*
- ✓ **Vulnerability**
 - *Damage susceptibility of the exposed features*
- ✓ **Adaptive Capacity (or capability)**
 - *Plans/policies*
 - *Response/recovery*
 - *Financial resources*




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Purpose of the Risk Assessment

- To get a better understanding of the risks you face
- Initial results based on available data
- Quantitative data (population/structures exposed, structural damages within hazard zones) used when available
- Qualitative community input (such as unmapped flood areas) integrated to adjust results
- Local community input to adjust relative rankings




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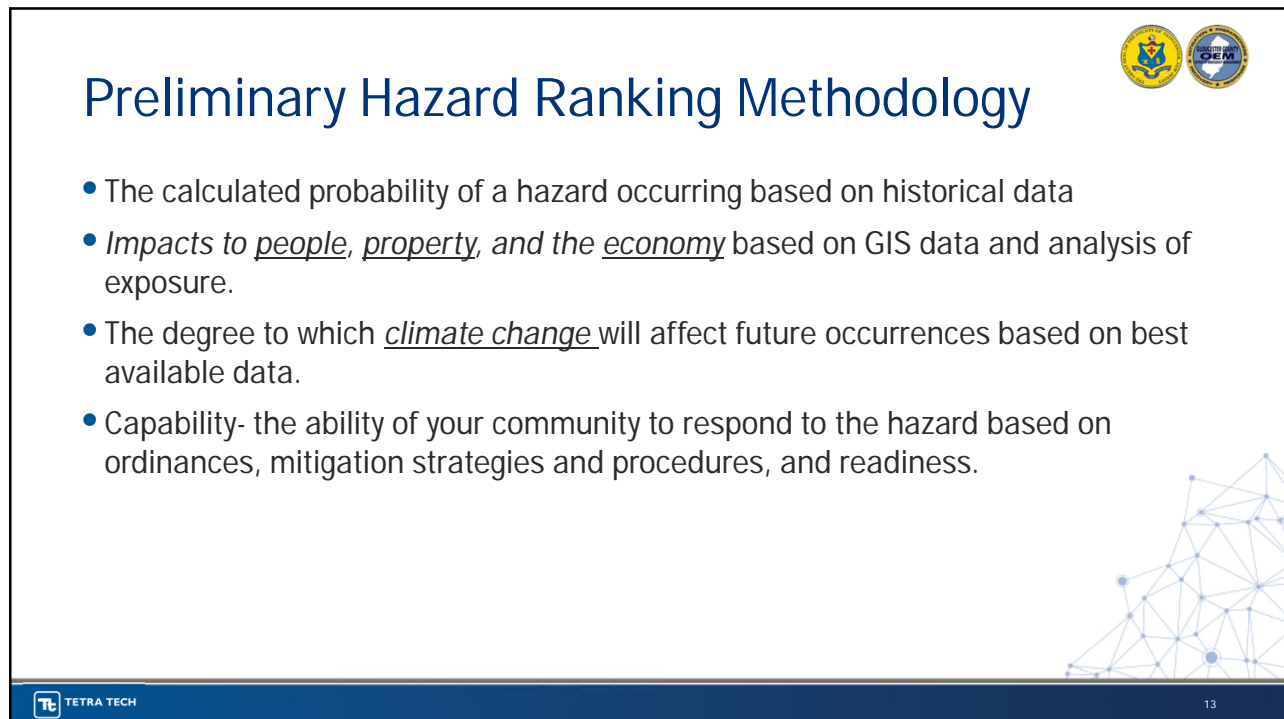


Preliminary Hazard Ranking



How are the rankings calculated?




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Preliminary Hazard Ranking Methodology

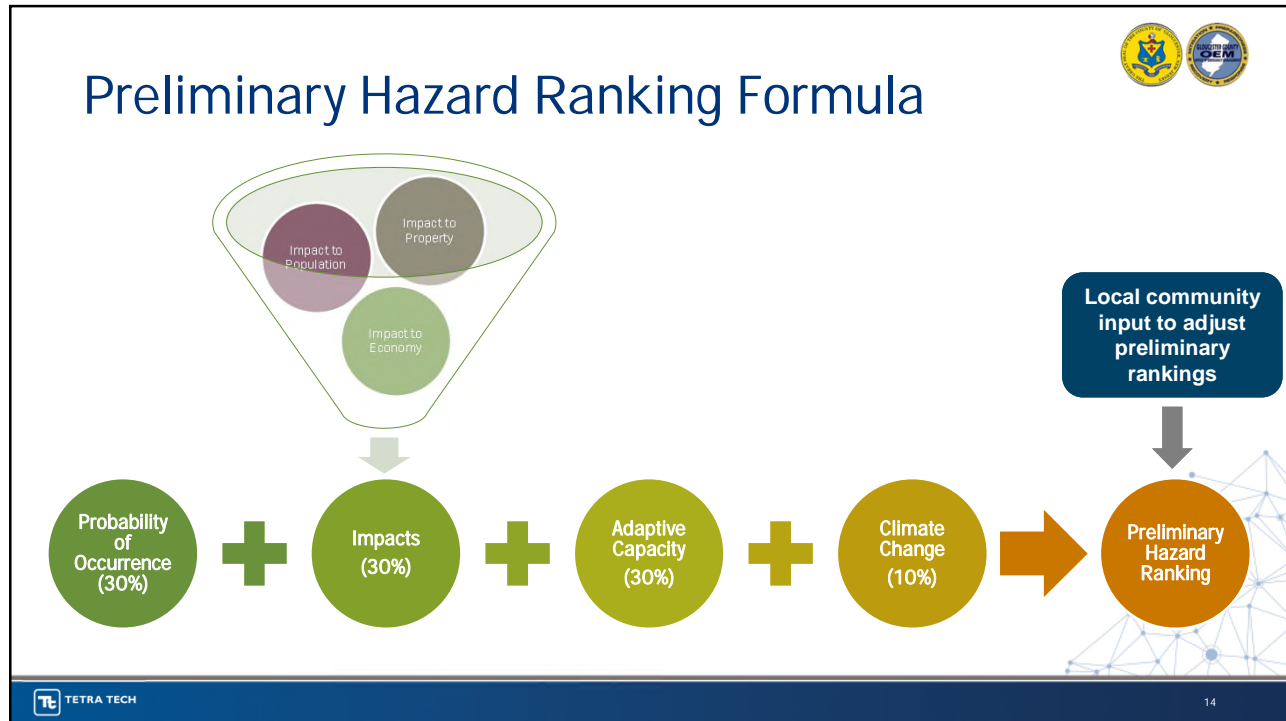



- The calculated probability of a hazard occurring based on historical data
- *Impacts to people, property, and the economy* based on GIS data and analysis of exposure.
- The degree to which *climate change* will affect future occurrences based on best available data.
- Capability- the ability of your community to respond to the hazard based on ordinances, mitigation strategies and procedures, and readiness.

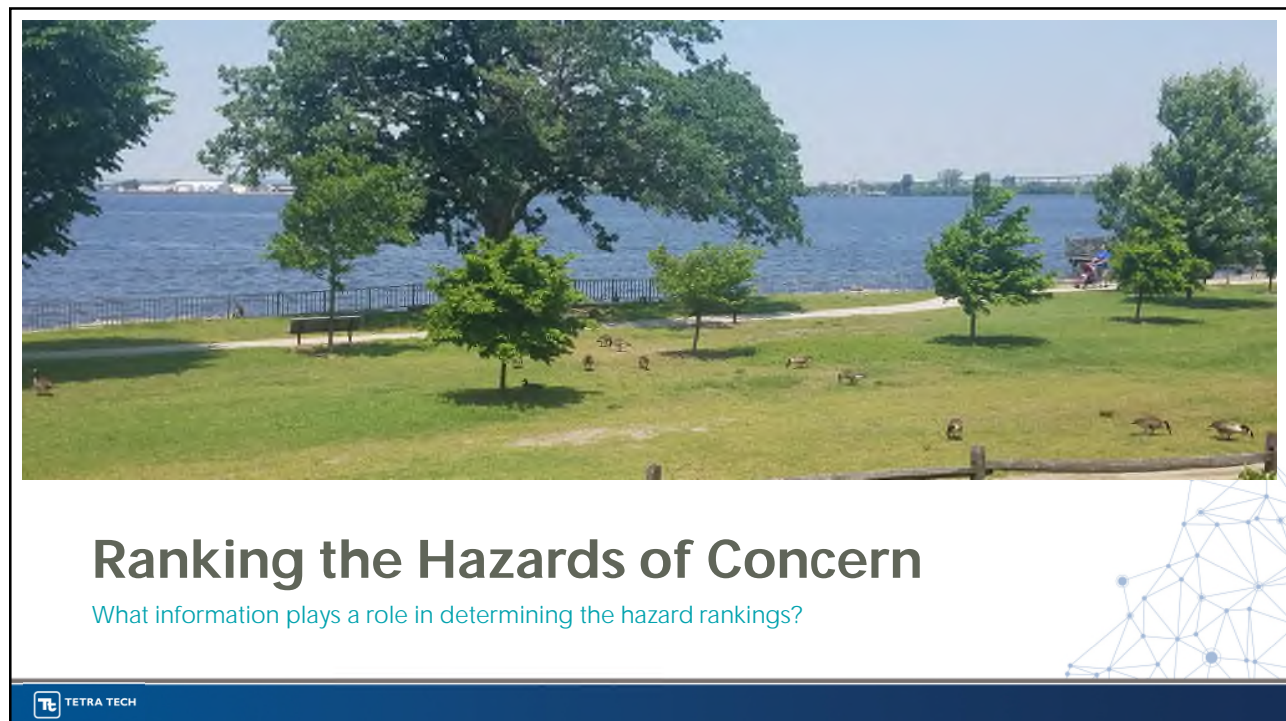


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Hazard Ranking Input

Impact on Population – Function of population exposed

- ✓ Low – 14% or less population exposed
- ✓ Medium – 15%-29% population exposed
- ✓ High – 30%+ population exposed

Impact on property – Function of structures exposed

- ✓ Low – 14% or less structures exposed
- ✓ Medium – 15%-29% structures exposed
- ✓ High – 30%+ structures exposed

Impact on economy – Function of damages to building stock

- ✓ Low – 9% or less loss estimate of total replacement cost
- ✓ Medium – 10%-19% loss estimate of total replacement cost
- ✓ High – 19%+ loss estimate of total replacement cost

Capability – Function of level of planning, policies, enforcement

- ✓ Low – outdated policies; limited to no deployable resources; limited capabilities to respond; long recovery
- ✓ Medium – minimum requirements; mitigation strategies identified but not implemented; moderate county capabilities
- ✓ High – exceed requirements; mitigation/protective measures in place; county/jurisdiction has ability to recover quickly because resources are readily available, and capabilities are high

Climate Change – Function of climate predictions

- ✓ Low - No local data is available; modeling projects are uncertain on whether there is increased future risk; confidence level is low (inconclusive evidence)
- ✓ Medium - Studies and modeling projections indicate a potential for exacerbated conditions due to climate change
- ✓ High - Studies and modeling projections indicate exacerbated conditions/increased future risk due to climate change




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Preliminary Hazard Ranking

2021 Hazard Ranking																
Gloucester County Municipality	Coastal Erosion	Dam/ Levee	Disease Outbreak	Drought	Earthquake	Ext Temp	Flood	Geologic	Hazmat	Hurricane	Invasive	Nor'Easter	Severe Storm	Severe Winter Storm	Wildfire	Utility
Clayton (B)	Low	Low	Low	Medium	Low	Medium	Low	Low	Medium	Low	Low	Medium	High	Medium	Low	Medium
Depford (Twp)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
East Greenwich (Twp)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
Elk (Twp)	Low	Medium	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
Franklin (Twp)	Low	Medium	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Medium	Medium
Glassboro (B)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
Greenwich (Twp)	Low	Medium	Low	Medium	Low	Medium	Medium	Low	High	High	Low	Medium	High	Medium	Low	Medium
Harrison (Twp)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
Logan (Twp)	Low	Medium	Low	Low	Low	Low	Low	Low	High	Medium	Low	Medium	High	Medium	Low	Medium
Mantua (Twp)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
Monroe (Twp)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Medium	Medium
National Park (B)	Low	Medium	Low	Medium	Low	Medium	Low	Low	High	High	Low	Medium	High	Medium	Low	Medium
Newfield (B)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Medium	Medium
Paulsboro (B)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	High	Low	Medium	High	Medium	Low	Medium
Pitman (B)	Low	Medium	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
South Harrison (Twp)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
Swedesboro (B)	Low	Low	Low	Low	Low	Low	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
Washington (Twp)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
Wenonah (B)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
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Westville (B)	Low	Medium	Low	Medium	Low	Medium	Low	Low	High	High	Low	Medium	High	Medium	Low	Medium
Woodbury (C)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
Woodbury Heights (B)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
Woolwich (Twp)	Low	Low	Low	Medium	Low	Medium	Low	Low	High	Low	Low	Medium	High	Medium	Low	Medium
Gloucester County	Low	Medium	Medium	Medium	Low	Medium	Medium	Low	High	Medium	Medium	Medium	High	Medium	Medium	Medium

TETRA TECH

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Preliminary Ranking Overview



Preliminary Ranking	Low, Medium, High
Inputs	<ul style="list-style-type: none"> Frequency – unlikely to frequent Population – % population exposed to hazard area Property – % building stock exposed to hazard area Economy – % damage (Replacement Cost Value) for buildings exposed to hazard area Adaptative Capacity – low to high Climate Change – low to high
Adjustments	<ul style="list-style-type: none"> Considered frequency of hazard event Considered overall impact to population, property, and/or economy
Comments	<ul style="list-style-type: none"> Each municipality will review the ranking and adjust accordingly Every high ranked hazard will need a mitigation action



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Hazard Ranking Input Categories

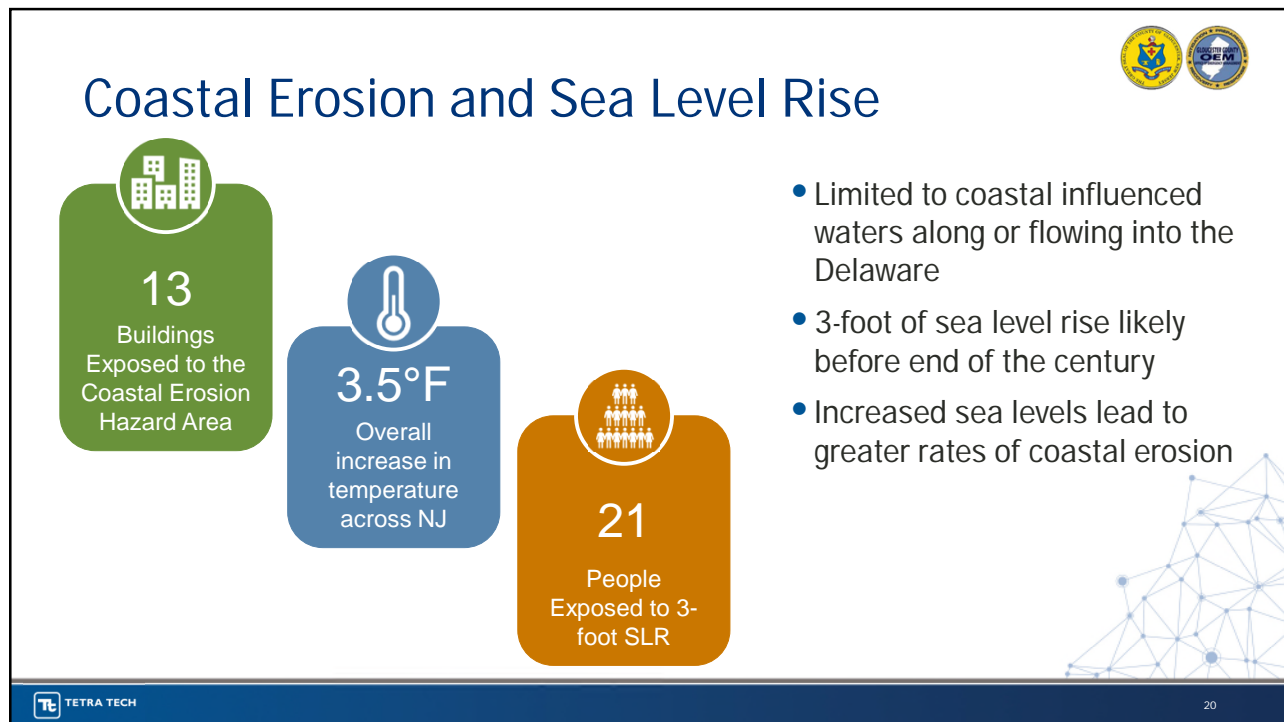


Category		Level / Category	Degree of Risk / Benchmark Values
Probability of Occurrence		Unlikely	A hazard event is not likely to occur or is unlikely to occur with less than a 1% annual chance probability.
		Rare	Between 1 and 10% annual probability of a hazard event occurring.
		Occasional	Between 10 and 100% annual probability of a hazard event occurring.
		Frequent	100% annual probability; a hazard event may occur multiple times per year.
Impact	Population	Low	14% or less of your population is exposed to a hazard with potential for measurable life safety impact, due to its extent and location.
		Medium	15% to 29% of your population is exposed to a hazard with potential for measurable life safety impact, due to its extent and location.
		High	30% or more of your population is exposed to a hazard with potential for measurable life safety impact, due to its extent and location.
	Property	Low	Property exposure is 14% or less of the total number of structures for your community.
		Medium	Property exposure is 15% to 29% of the total number of structures for your community.
		High	Property exposure is 30% or more of the total number of structures for your community.
	Economy	Low	Loss estimate is 9% or less of the total replacement cost for your community.
		Medium	Loss estimate is 10% to 19% of the total replacement cost for your community.
		High	Loss estimate is 20% or more of the total replacement cost for your community.
Capabilities		Weak (low)	Weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.
		Moderate (medium)	Plans, policies, codes/ordinances in place and meet minimum requirements; mitigation strategies identified but not implemented on a widespread scale; county/jurisdiction can recover but needs outside resources; moderate county/jurisdiction capabilities.
		Strong (high)	Plans, policies, codes/ordinances in place and exceed minimum requirements; mitigation/protective measures in place; county/jurisdiction has ability to recover quickly because resources are readily available, and capabilities are high.
Climate Change		Low	No local data is available; modeling projections are uncertain on whether there is increased future risk; confidence level is low (inconclusive evidence).
		Medium	Studies and modeling projections indicate a potential for exacerbated conditions due to climate change; confidence level is medium to high (suggestive to moderate evidence).
		High	Studies and modeling projections indicate exacerbated conditions/increased future risk due to climate change; very high confidence level (strong evidence, well documented and acceptable methods).

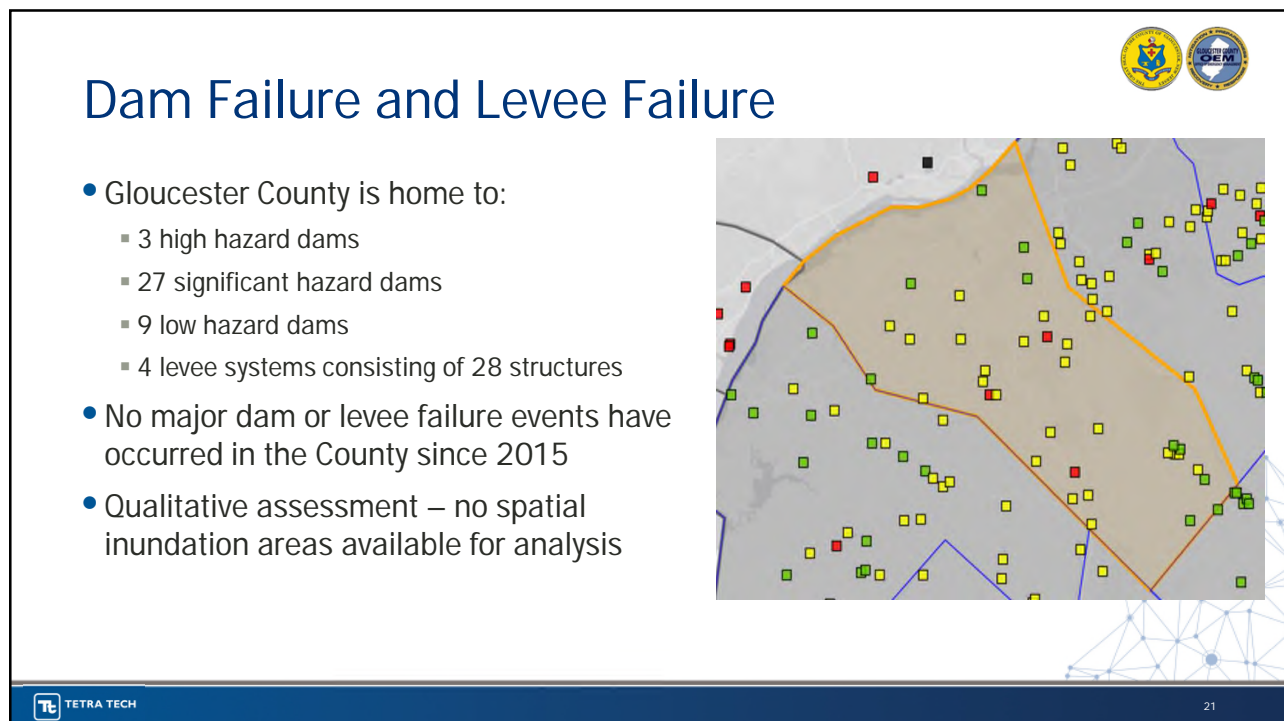


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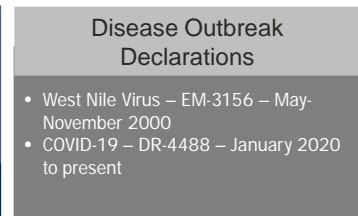


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Disease Outbreak and Pandemic

**new*

- West Nile Virus
- Eastern Equine Encephalitis
- St. Louis Encephalitis
- Lyme Disease
- Influenza
- Ebola
- COVID-19



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Drought

Since 2012, the County has experienced 6 droughts as a combination of excessive heat and drought conditions

Potential impacts:

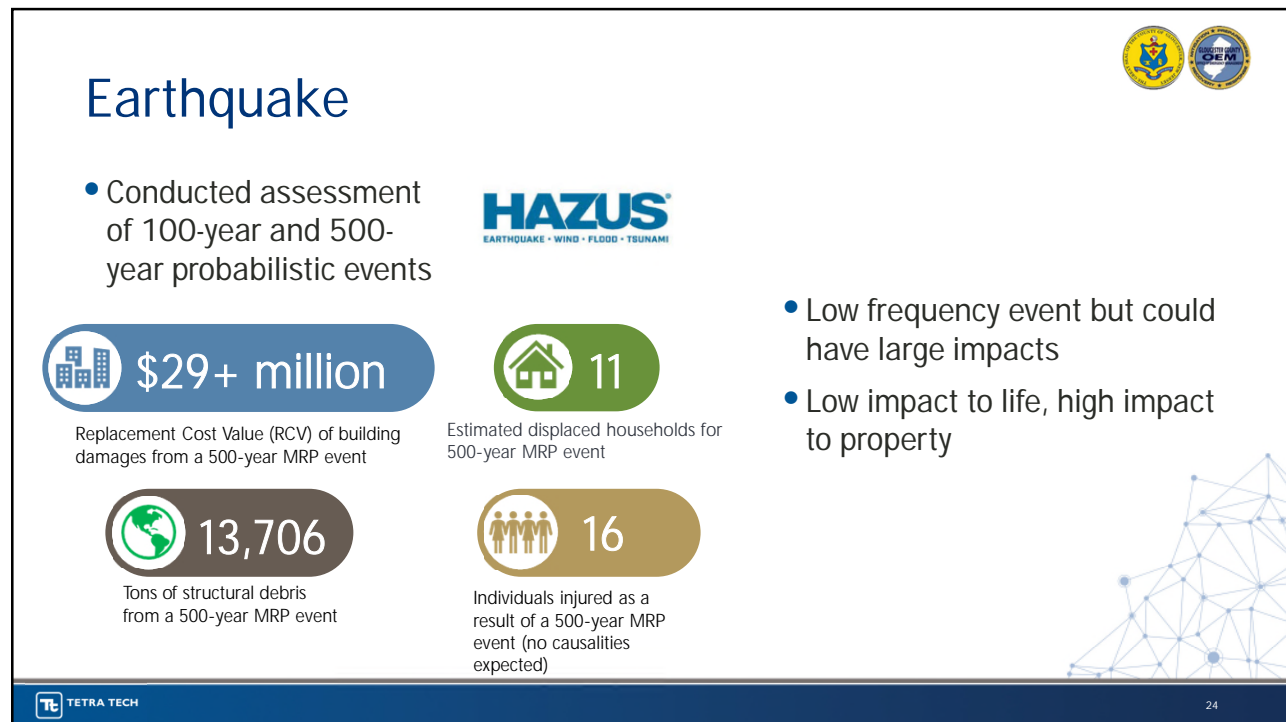
1. Increased wildfire risk
2. Impacts to agriculture/farms
3. Drinking water supply (groundwater and surface water)



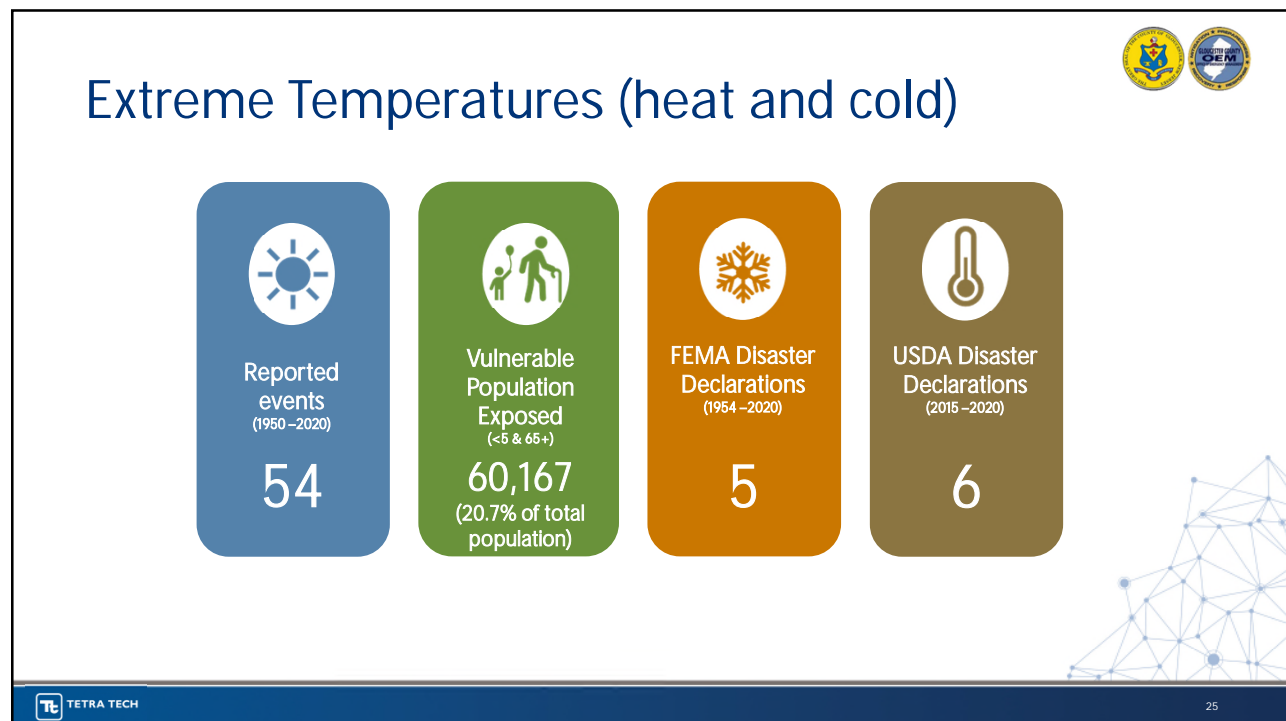
Total market value of
products sold (2017)

From 2017 Census of Agriculture

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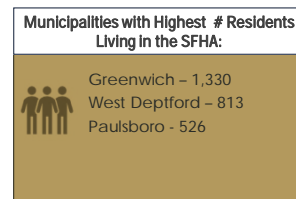
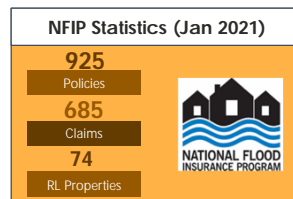
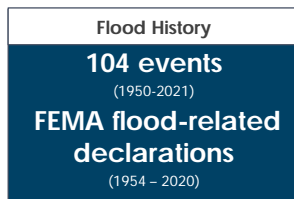
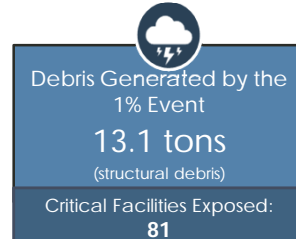
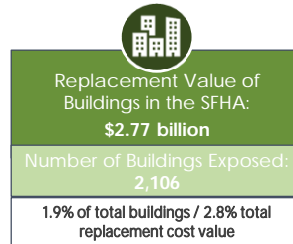
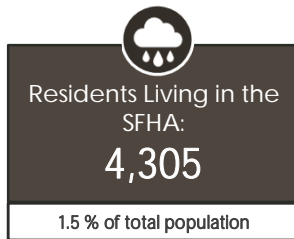


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Flood

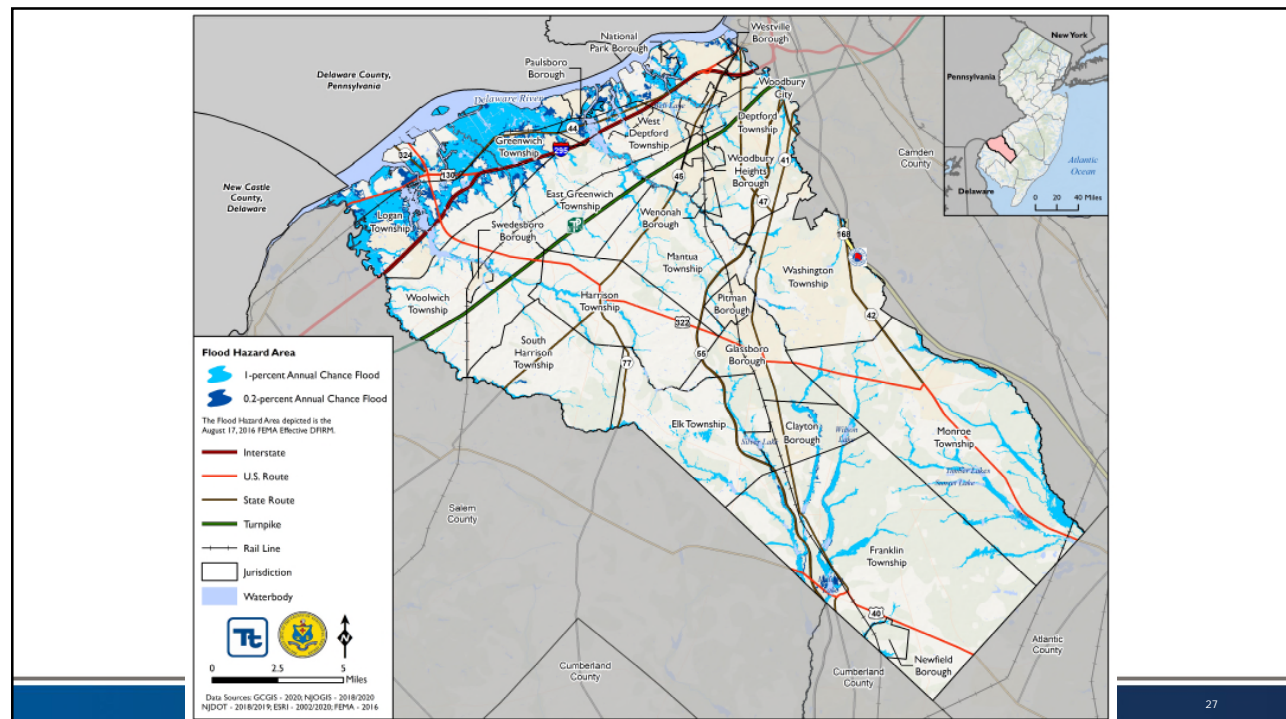


SFHA = Special Flood Hazard Area (1% Annual Chance Flood Event), Hazus flood model estimates



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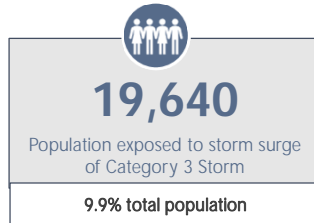
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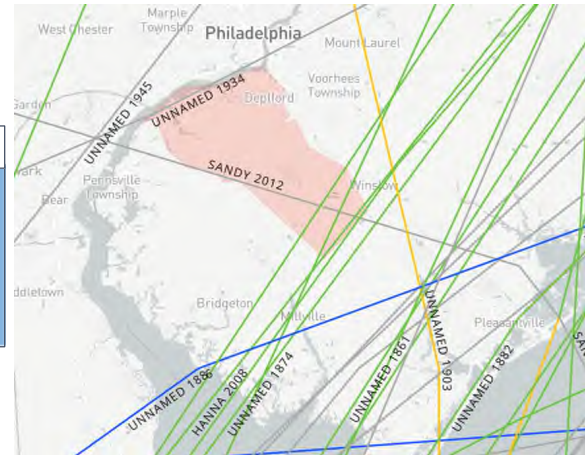
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Hurricane and Tropical Storm



Hurricane History	
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Federally Declared Hurricane Disaster Events FEMA, since 1953	Reported Tropical Storm Events NOAA, since 1996



Hurricane Tracks through August 2020

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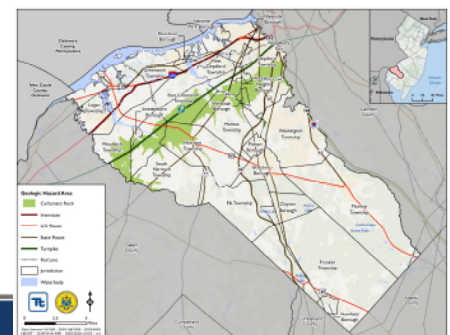
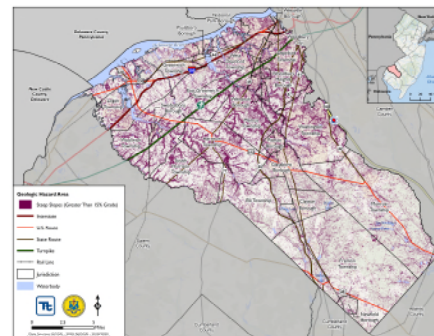
Geological Hazards

• Landslides

- Historic landslides have occurred in the State with one FEMA disaster declarations involving a mudslide (2011), but Gloucester was not affected
- 6,620 residents, or 2.3% of the County population live within the Steep Slope Hazard Area

• Subsidence/sinkholes

- Typically occur in areas within bands of carbonate bedrock
- 32,985 residents, or 11.3% of the County population live in Carbonate Rock Hazard Area



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Invasive and Nuisance Species

- Emerald Ash Borer
 - Infests and kills North American ash trees
 - Trees die within 2-4 years of becoming infested
- Spotted Lanternfly
 - The insect is rapidly spreading throughout the northeast after first identified in 2014.
 - Could devastate agricultural areas
- Canada Geese
 - NJ has both resident and migratory geese
 - Geese feces damage property and pose a serious health threat due to presence of disease-causing organisms
 - Lead to agricultural damage



Invasive and Nuisance Species

- Harmful Algal Blooms
 - Impacts natural systems, recreation, drinking water supply
 - Impacted local waterbodies
- White-Tailed Deer
 - Deer populations have reached problematic numbers in numerous areas of the state.
 - Impacts on human health and safety include the spread of tick-borne diseases (Lyme Disease) and deer-vehicle collisions
 - From 2011-2012, more than 31,192 deer-vehicle collisions occurred in New Jersey



Nor'Easter



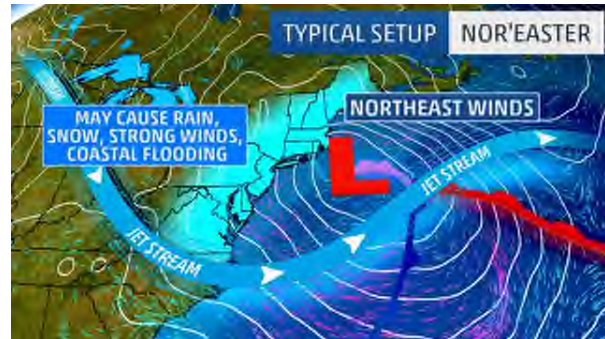
Entire population is vulnerable



Entire building stock is vulnerable



Climate change can increase the frequency of events



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Severe Weather



299,807 tons

Estimated Tree Debris from 500-Year MRP Wind Event



Severe Storm History

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Federally Declared Disaster Events
FEMA, since 1954

500+

Reported Severe Storms
NOAA, since 1950



\$20.18 million

Estimated Potential General Building Stock Loss / Replacement Cost Value for all buildings (500-Year MRP)



Estimated Displaced Households due to 500-Year MRP Wind Event

Gloucester County (total) 73



Posted 1 hour ago

TORNADO WATCH 515 IS IN EFFECT UNTIL 700 PM EST FOR THE FOLLOWING LOCATIONS:
NJ

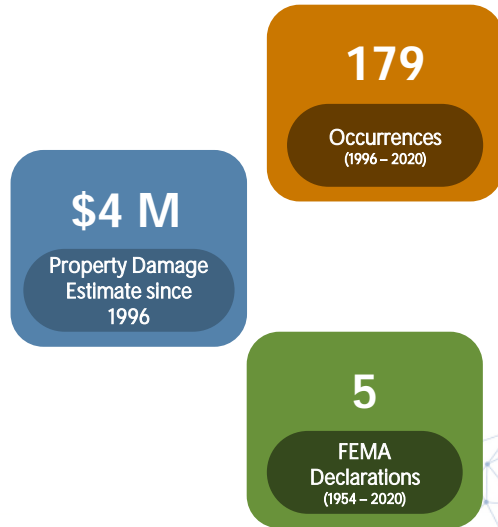
NEW JERSEY COUNTIES INCLUDED ARE:
ATLANTIC BURLINGTON CAMDEN
CAPE MAY CUMBERLAND GLOUCESTER
HUNTERDON MERCER MIDDLESEX
MONMOUTH OCEAN SALEM
SOMERSET



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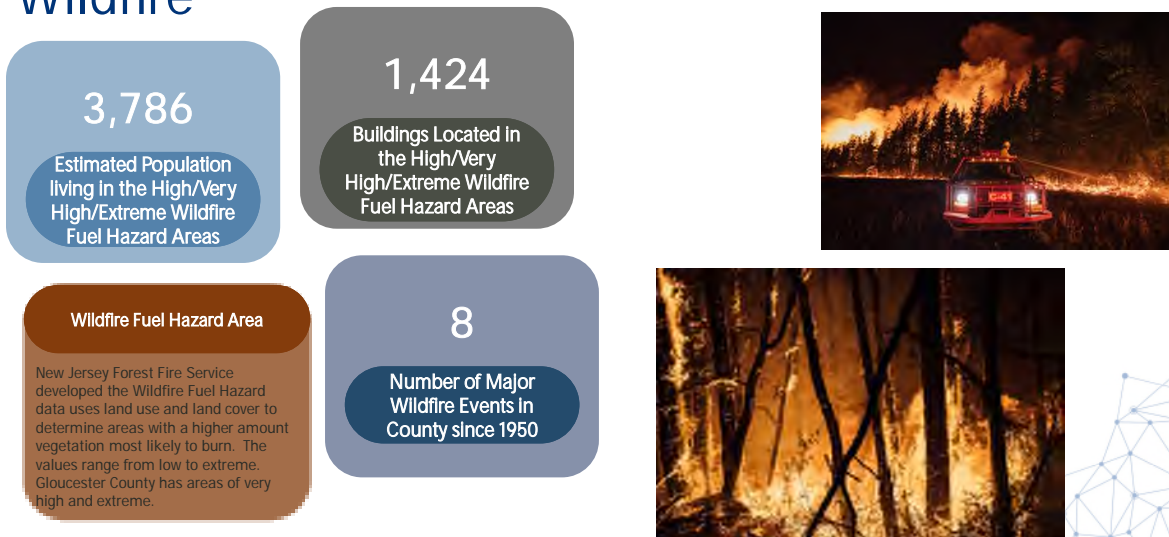
Severe Winter Weather

- The Severe Winter Weather Hazards includes ice, snowstorms, and blizzards
- Occurs annually
- Impacts:
 - Property damage
 - Loss of power
 - Fallen trees/limbs
- Qualitative assessment with 1% and 5% impacts to buildings estimated



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Wildfire



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Utility Failure

- History
 - Primarily caused by other hazards
 - Power failure events common
- Impacts
 - HVAC failure
 - Communications failure
 - Food spoilage
 - Basement flooding
 - Carbon monoxide exposure from generators
 - Individuals' dependent on medical equipment
 - Access to potable water
 - High cost to government and community services



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Strengths, Weaknesses, Opportunities + Obstacles (SWOO) Exercise

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Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)



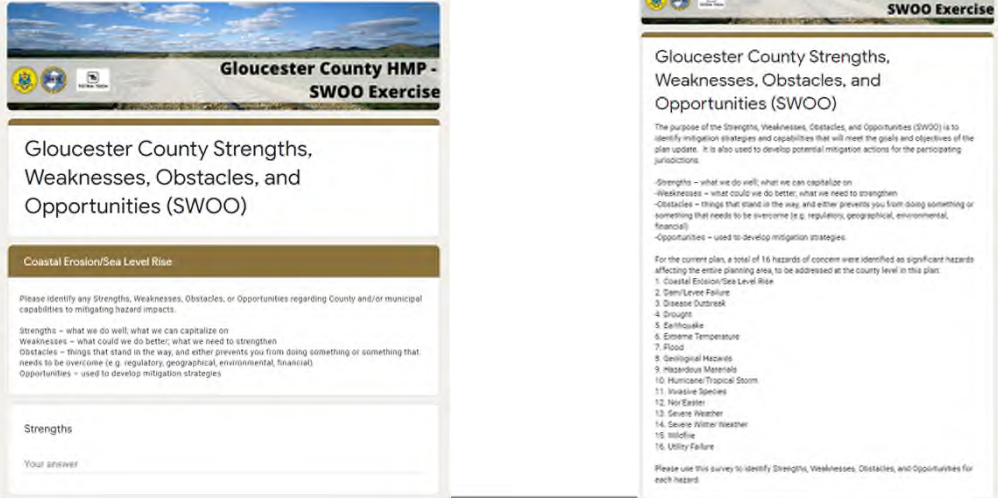
Hazard	
Strengths	Weaknesses
<p>What does the county and its communities do well in terms of:</p> <ul style="list-style-type: none"> ➤ Plans and Regulations <ul style="list-style-type: none"> ➤ Codes, Ordinances, Planning Studies, Comprehensive Plans, Adaptation and Resiliency Plans ➤ Structure and Infrastructure Projects ➤ Natural Systems Protection ➤ Education and Awareness Programs ➤ Preparedness ➤ Others? 	<p>What can the county and its communities do better or what are the gaps in terms of:</p> <ul style="list-style-type: none"> ➤ Plans and Regulations <ul style="list-style-type: none"> ➤ Codes, Ordinances, Planning Studies, Comprehensive Plans, Adaptation and Resiliency Plans ➤ Structure and Infrastructure Projects ➤ Natural Systems Protection ➤ Education and Awareness Programs ➤ Preparedness ➤ Others?

Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)



Hazard	
Obstacles	Opportunities
<p>What is preventing the county and its communities to implement in terms of:</p> <ul style="list-style-type: none"> ➤ Plans and Regulations <ul style="list-style-type: none"> ➤ Codes, Ordinances, Planning Studies, Comprehensive Plans, Adaptation and Resiliency Plans ➤ Structure and Infrastructure Projects ➤ Natural Systems Protection ➤ Education and Awareness Programs ➤ Preparedness ➤ Others? 	<p>What can the county and its communities implement terms of:</p> <ul style="list-style-type: none"> ➤ Plans and Regulations <ul style="list-style-type: none"> ➤ Codes, Ordinances, Planning Studies, Comprehensive Plans, Adaptation and Resiliency Plans ➤ Structure and Infrastructure Projects ➤ Natural Systems Protection ➤ Education and Awareness Programs ➤ Preparedness ➤ Others?

Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)



Gloucester County HMP - SWOO Exercise

Gloucester County Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

The purpose of the Strengths, Weaknesses, Obstacles, and Opportunities (SWOO) is to identify mitigation strategies and capabilities that will meet the goals and objectives of the plan update. It is also used to develop potential mitigation actions for the participating jurisdictions.

Strengths – what we do well, what we can capitalize on
Weaknesses – what could we do better, what we need to strengthen
Obstacles – things that stand in the way, and either prevents you from doing something or something that needs to be overcome (e.g. regulatory, geographical, environmental, financial)
Opportunities – used to develop mitigation strategies

Coastal Erosion/Sea Level Rise

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Your answer

For the current plan, a total of 16 hazards of concern were identified as significant hazards affecting the entire planning area, to be addressed at the county level in this plan:

1. Coastal Erosion/Sea Level Rise
2. Dam/Levee Failure
3. Disease Outbreak
4. Drought
5. Earthquake
6. Extreme Temperature
7. Flood
8. Geomorphological Hazards
9. Hazardous Materials
10. Hurricane/Tropical Storm
11. Invasive Species
12. Ion Radiation
13. Severe Weather
14. Severe Winter Weather
15. Wildfire
16. Utility Failure

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

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Complete the On-line SWOO by July 7th

- <https://forms.gle/2F1ecFNKhJrZ3ygh6>
- Individual jurisdictions will be asked to complete the SWOO as well
- Important – this informs the Mitigation Strategy development
 - We will use the responses to develop a mitigation catalog to help identify actions

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Goals and Objectives

- Based on the input we received, the goals for the 2021 HMP are:
 - Goal 1 – Protect Life
 - Goal 2 – Protect Property
 - Goal 3 - Improve education and outreach efforts regarding potential risk of natural hazards and appropriate mitigation measures that can be used to reduce risk
 - Goal 4 - Improve data collection, use, and sharing to reduce the risk of natural hazards
 - Goal 5 - Improve capabilities and coordination at municipal, county, and state levels to plan and implement hazard mitigation measures
 - Goal 6 - Support Continuity of Operations Pre-, During, and Post-Hazard Events
 - Goal 7 - Address Long-Term Vulnerabilities from High Hazard Dams

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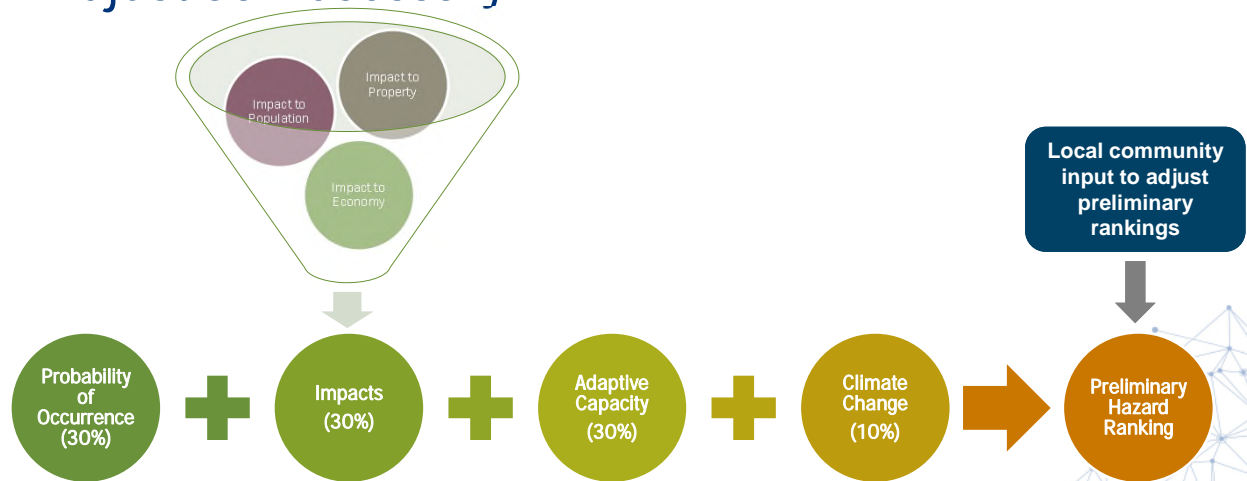


Looking Ahead



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Your Task – Review Results and Adjust as Necessary

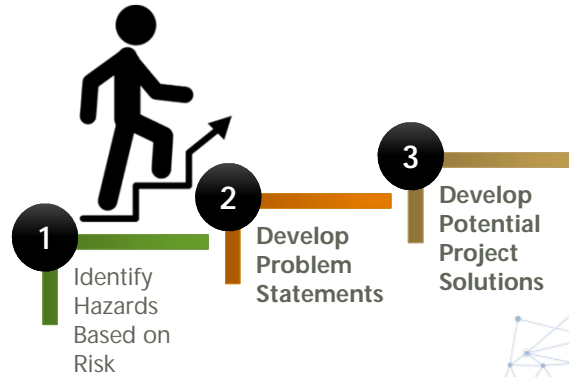


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Next Steps – Problem Statements

- It will send each municipality their ranking to review and provide input; start thinking about problems in your community and best solutions to fix them
- Quality not quantity
- We will work with you to prepare problem statements and solutions before the Mitigation Strategy Workshop (July or August)



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Questions?



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Thank You!