Continuing Education Units | CEU's

To verify your attendance at this session **Scan in** at the BEGINNING and **Scan out** at the END

For your PRINTED CERTIFICATE OF ATTENDANCE, follow the directions found in the "CEU Procedures" section of the printed Conference Program Book



Other questions, please consult the League Staff at the Information Booth on Level 2



Climate Ready Communities

November 17, 2022

New Jersey League of Municipalities Conference



Panel Speakers



Mayor Jason Cilento



Meghan Leavey



Tanya Rohrbach



Anne Heasly



Planning for Climate Change Dunellen Borough

Mayor Jason Cilento





The Borough of Dunellen and Climate



Borough of Dunellen, Middlesex County* Population 7,637

FEMA Recovery Costs

\$215K
Debris removal
and transport

\$388K

Culvert cleaning

\$261K

Railroad Ave / Knights of Columbus

Resilience Costs

\$3.9M

Railroad culvert replacement



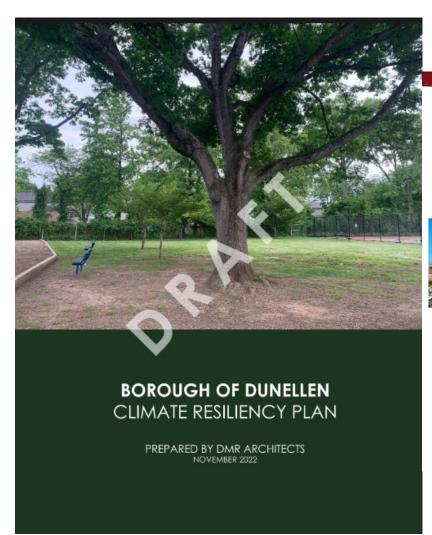
Slide *Courtesy* of:



* Source: William Robins, Administrator/Borough Clerk

mellen Planning Initiates: Inclusive of Climate Resiliency

- Master Plan Re-Examination
- Climate Vulnerability
 Assessment/Resiliency
 Plan
- Active Transportation
 Planning Study
- Complete & Green
 Streets for All Policy



Borough of Dunellen Planning Initiatives



Master Plan Re-Examination Climate Vulnerability Assessment Active Transportation Planning Study

Complete & Green on Streets for All dy Policy

Attend the Community Open House!

Date: Wednesday, September 14, 2022

Time: 6:30 - 8:30 PM

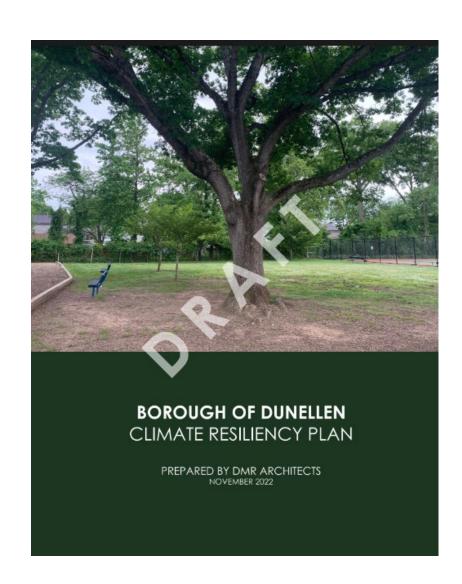
Location: Lincoln Middle School Cafeteria 400 Dunellen Avenue, Dunellen, NJ 08812

Open house format so you can attend as your schedule permits!



Climate Resiliency Requirements

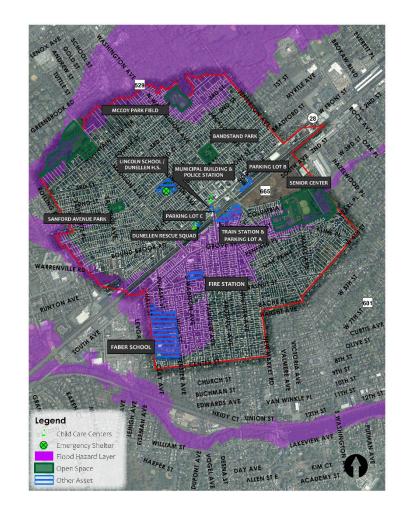
- Analyzes current and future threats to, and vulnerabilities of, the municipality associated with climate-change related natural hazards.
- 2. Includes a build-out analysis of future residential, commercial, industrial and other developments in the municipality, and an assessment of the threats and vulnerabilities identified above related to that development;
- 3. Identifies critical facilities, utilities, roadway, and other infrastructure that is necessary for evacuation purposes and sustaining quality of life during a natural disaster, to be maintained at all time in an operational state;
- 4. Analyze the potential impact of natural hazards on relevant components and elements of the master plan;
- 5. Provides strategies and design standards that may be implemented to reduce or avoid risks associated with natural hazards;
- 6. Includes a specific policy statement on the consistency, coordination, and integration of the climate-change related hazard vulnerability assessment with certain other plans adopted by the municipality; and
- 7. Relies on the most recent natural hazard projections and best available science provided by the NJ DEP





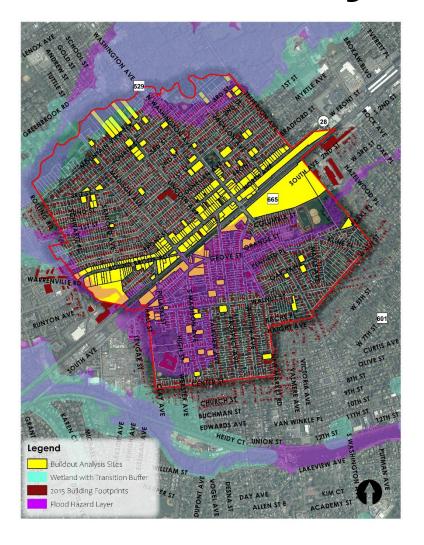
What to Expect in the Process! Vulnerability Assessment

			CLIMATE IMPACT						
ASSET HAME	ASSET CATEGORY	INCREASED TEMP	SEA LEVEL HISE	PRECIPITATION	OCEAN ACIDIFICATION	DROUGHT/WATER SUPPLY	DESCRIPTION OF IMPACTS	ADAPTIVE CAPACITY (HIGH, MEDIUM, LOW)	VILNERABILITY (HIGH, MEDIUM LOW)
Green Brook	Natural Feature	5	0	5	0	3	Increased chance of flooding, precipitation, impacting natural features	medium	13
Bonyguff Brook	Natural Feature	5	۰	5	0	3	Increased chance of fooding, precipitation, impacting natural features	medium	13
Municipal Hall	Cultural Asset	3	0	3	0	3	Increased chance of fooding, precipitation, impacting government operations	medium	9
Schools	Cultural Asset	3	٥	3	0	3	Increased chance of flooding, precipitation, impacting education facilities	medium	
Senior Center	Cultural Asset	3	0	3	0	3	Increased chance of flooding, precipitation, impacting older population	medium	9
North Avenue	Critical Infrastructure	3	0	3	0	3	Increased chance of fooding, precipitation, impacting transportation network	medium	9
Dunellen Population	Cultural Asset	3	0	3	0	3	Increased chance of fooding, precipitation, impacting all population	medium	9
Police Station	Cultural Asset	3	0	3		3	increased chance of fooding, precipitation, impacting safety and response resources	medium	9
Fire Station	Cultural Asset	3	0	3	0	3	Increased chance of flooding, precipitation, impacting safety and response resources	medium	9
OB/I Management Center	Cultural Asset	3	۰	3	V.	3	Increased chance of flooding, precipitation, impacting safety and response resources	medium	9
Washington Park	Natural Feature	3	0	3		3	Increased chance of fooding, precipitation, impacting natural features	medium	9
Gavornik Park	Natural Feature	3	0	3		3	Increased chance of flooding, precipitation, impacting natural features	medium	
Columbia Park	Natural Feature	3	0	3		3	Increased chance of flooding, precipitation, impacting natural features	medium	P
McCoy Park	Natural Feature	3	0	3	0	3	Increased chance of fooding, precipitation, impacting natural features	medium	9
Morecraft Park	Natural Feature	3	0	3	0	3	Increased chance of fooding, precipitation, impacting natural features	medium	P
Railton Vally Train Line	Offical Infrastructure	3	0	3	0	0	Increased chance of fooding, precipitation, impacting transportation network	medium	
NJ Transit Bus Line	Critical Infrastructure	3	0	3	0	0	Increased chance of flooding, precipitation, impacting transportation network	medium	á
Train Station	Critical Infrastructure	3	۰	3	٥	0	increased chance of flooding, precipitation, impacting transportation network	medium	
Leadership of Dunellen	Cultural Asset	0	0	0	0	0	Leadenhip to provide insight and protective measures to decrease the impact of natural climate change		0





What to Expect in the Process! Build-Out Analysis





What to Expect in the Process! Additional Key Components

- Analysis to Borough's Master Plan
- Utilities and Infrastructure
- Identify Realistic Projects, Goals and Policies to implement
- Public Presentation and Input



Municipal Climate Resilience Planning

Meghan Leavey, PP, AICP, GISP

Lead Planner, Bureau of Climate Resilience Planning Resilient NJ Program Coordinator



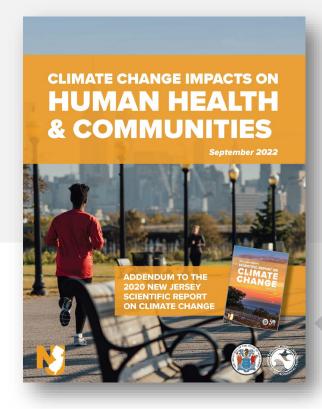
SCIENTIFIC REPORT

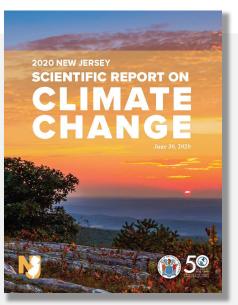
on Climate Change

nj.gov/dep/climatechange/data.html

Overview

 Comprehensive effort to synthesize the latest and most reliable scientific information on the current and predicted future impacts of climate change.



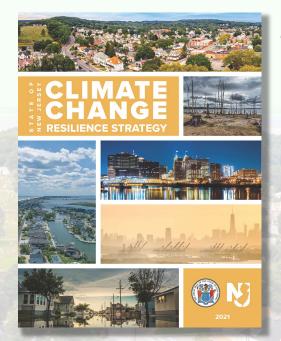


Released June 30, 2020



Climate Change Impacts on Human Health & Communities Addendum released in September 2022.

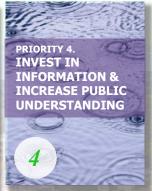










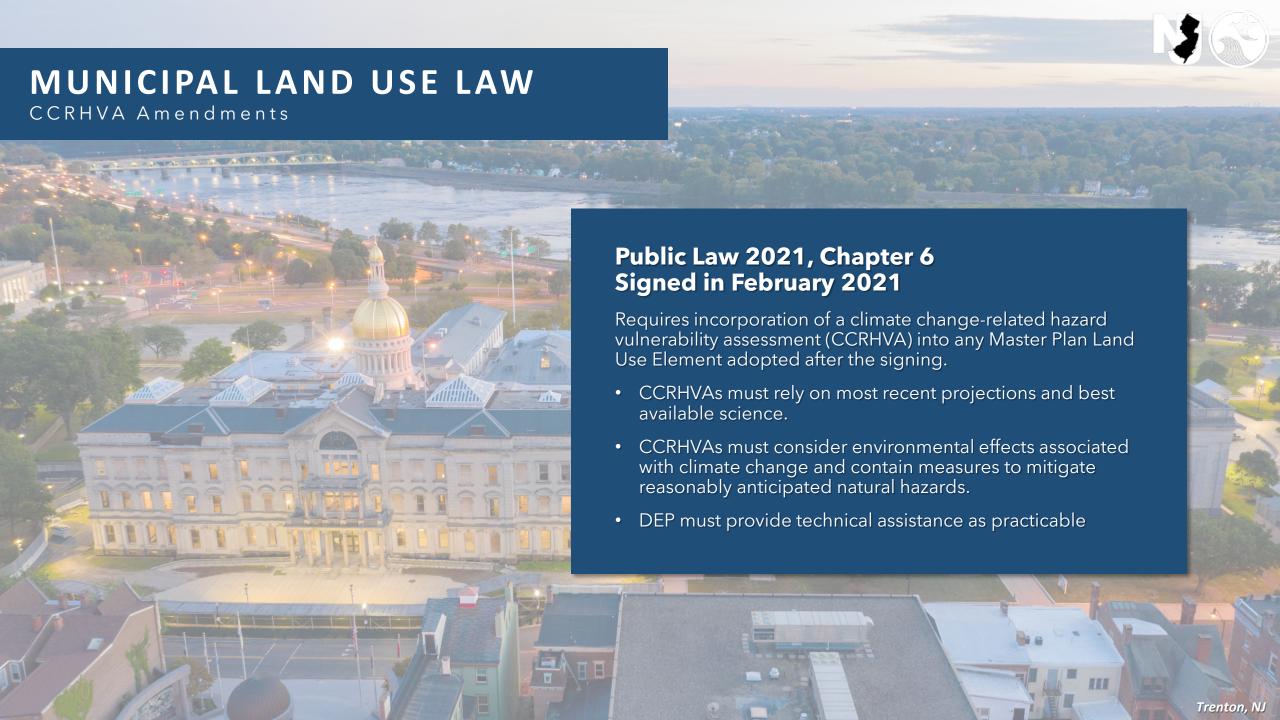




PRIORITY 6.
COASTAL
RESILIENCE
PLAN

- Integrate resilience into local and regional planning
- Increase technical assistance programs to address community resilience
- Protect valued natural lands and resources
- Incorporate natural and nature-based solutions for resilience
- Engage local governments and other partners to develop resilience solutions
- Incorporate equity and inclusion in resilience decision-making
- Incentivize and support community resilience planning
- Support movement to safer areas











OVERVIEW

1. INITIATE & ENGAGE V

2. UNDERSTAND YOUR VULNERABILITY

3. DEVELOP A STRATEGY V

4. TRACK YOUR PROGRESS V



OVERVIEW





- Introduction
- How to Use this Guide

Climate Change in NJ

• Overviews of Climate Threats in NJ

NJ Planning Requirements

- Municipal Land Use Planning
- Plan Endorsement
- Hazard Mitigation Planning

Equitable Community Resilience Adaptation Toolkit

Resilience Library

• Links to every resource found throughout the Toolkit pages

Site Map

• Overviews of Climate Threats in NJ

Acknowledgments

I. INITIATE & ENGAGE





II. UNDERSTAND YOUR VULNERABILITY





CLIMATE CHANGE RELATED HAZARD VULNERABILITY ASSESSMENT

Required Elements

- Analysis of current and future threats to, and vulnerabilities of, the municipality associated with climate change-related natural hazards
- Build-out analysis of future residential, commercial, industrial, and other development in the municipality, and an assessment of the threats and vulnerabilities identified above related to that development
- Identification of critical facilities, utilities, roadways, and other infrastructure that is necessary for evacuation purposes and sustaining quality of life during a natural disaster, to be maintained, at all times, in an operational state

- Analysis of the potential impact of natural hazards on relevant components and elements of the master plan
- ☐ Identification of strategies and design standards that may be implemented to reduce or avoid risks associated with natural hazards
- ☐ A specific policy statement on the consistency, coordination, and integration of the climate-change related hazard vulnerability assessment with certain other plans adopted by the municipality
- Reliance on the most recent natural hazard projections and best available science provided by the New Jersey DEP



II. UNDERSTAND YOUR VULNERABILITY



OVERVIEW ~

1. INITIATE & ENGAGE V

2. UNDERSTAND YOUR VULNERABILITY ~

3. DEVELOP A STRATEGY V

4. TRACK YOUR PROGRESS V

HELPFUL TOOLS & DATA

Depending on the time and resources, a Planning Team may have to rely on tools and data gathered from other sources.

There are existing maps, data, and tools available to assist communities with understanding their current capabilities and exposure to climate risks.



IDENTIFYING CLIMATE RELATED HAZARDS

- NJ Adapt: a suite of online tools designed to provide data to planners and others addressing climate change in New Jersey.
- Stockton University New Jersey Beach Profile Network Profile Viewer: shoreline change mapping tool (shorter, more recent timescale)
- NOAA Digital Coast: Federal climate data mapping clearinghouse

ASSESSING SOCIAL AND ECONOMIC VULNERABILITY

- CDC Social Vulnerability Index
- NJ Adapt Municipal Snapshots: These snapshots provide access to information about people, places, and assets that are at risk from climate impacts in each of New Jersey's Climate Ready Estuaries: The Climate Ready Estuaries program works with the National municipalities.

 Estuary Programs and the coastal management community to assess climate change
- U.S. Climate Resilience Toolkit People & Communities
- New Jersey Environmental Justice Mapping Tool

ASSESSING ECOYSTEM VULNERABILITY

EPA EnviroAtlas: Data on ecosystem services including Climate Stabilization and Natural Hazard Mitigation

Climate Ready Estuaries: The Climate Ready Estuaries program works with the National Estuary Programs and the coastal management community to assess climate change vulnerabilities, develop and implement adaptation strategies, and engage and educate stakeholders. CRE shares NEP examples to help other coastal managers and provides technical guidance and assistance about climate change adaptation.

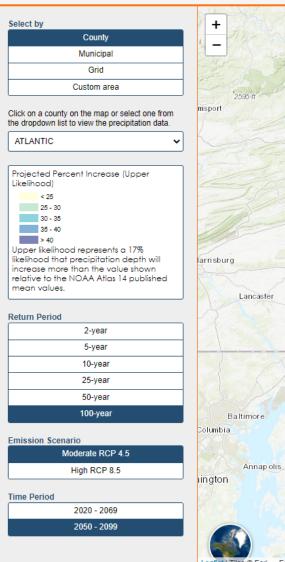
EXTREME PRECIPITATION PROJECTION

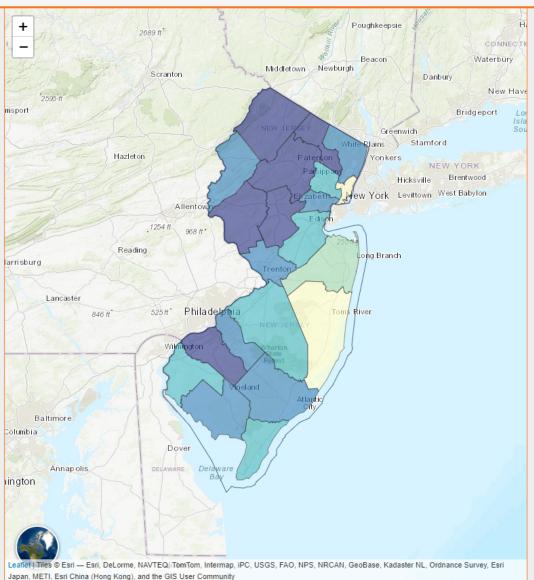
TOOL





njprojected precipitation changes.com





User Guide Precipitation Projection About the Data

Background:

This site provides an interactive tool for users to identify regional and local estimates of projected changes in extreme rainfall amounts (measured in inches) within a 24-hour duration for various return periods between current estimates* and a future time period under either of two future emission scenarios.

Users can select their choice of rainfall return period, i.e., the 2-year, 10-year, 100-year storm, etc., the future greenhouse gas emission scenario determined by Representative Concentration Pathway (RCP) 4.5 or RCP 8.5, and future time period. Projections can be summarized by county, municipality, 0.1 degree grid cell, or for a custom area by drawing a polygon on the map area or uploading a GIS shapefile saved as a zip file. Projections for municipalities and custom areas are calculated based on the weighted average of projected change factors within the area that intersect 0.1 degree grid cells applied to the rainfall data from the current NOAA Atlas 14* dataset

Return Period Options:

A storm return period is determined statistically, through a process called frequency analysis, and is used to estimate the probability that a given amount of rainfall from a precipitation event will occur. The return period is based on the probability that the given amount of rainfall will be equaled or exceeded in any given year. For example, based on historical data, it could be determined that there is a 1 in 100 (1%) chance that 8.5 inches of rain will fall in a certain area in a 24-hour period in any given year. Thus, a rainfall total of 8.5 inches in any 24-hour period is said to have a 100-year return period and may also be referred to as the 1% storm.

- 2-year Storm -- Precipitation depth (inches) associated with a 24-hour storm that has a 50% chance of occurring in any given year.
- 5-year Storm -- Precipitation depth (inches) associated with a 24-hour storm with a 20% chance of occurring in any given year.
- 10-year Storm -- Precipitation depth (inches) associated with a 24-hour storm with a 10% chance of occurring in any given year.
- 25-year Storm -- Precipitation depth (inches) associated with a 24-hour storm with a 4% chance of occurring in any given year.
- 50-year Storm -- Precipitation depth (inches) associated with a 24-hour storm with a 2% chance of occurring in any given year
- 100-year Storm -- Precipitation depth (inches) associated with a 24-hour storm with a 1% chance of occurring in any
 given year.

Emission Scenario Options:

Representative Concentration Pathways (RCP) project changes to the atmospheric energy (heat) balance associated with



SEA-LEVEL RISE GUIDANCE FOR NEW JERSEY







JUNE 2021

NJFLOODMAPPER

njfloodmapper.org

Total Water Level: 1 Ft. + Add

Summary Panel

Tide Gauge: Atlantic City, NJ

Emission Scenario: Moderate emissions

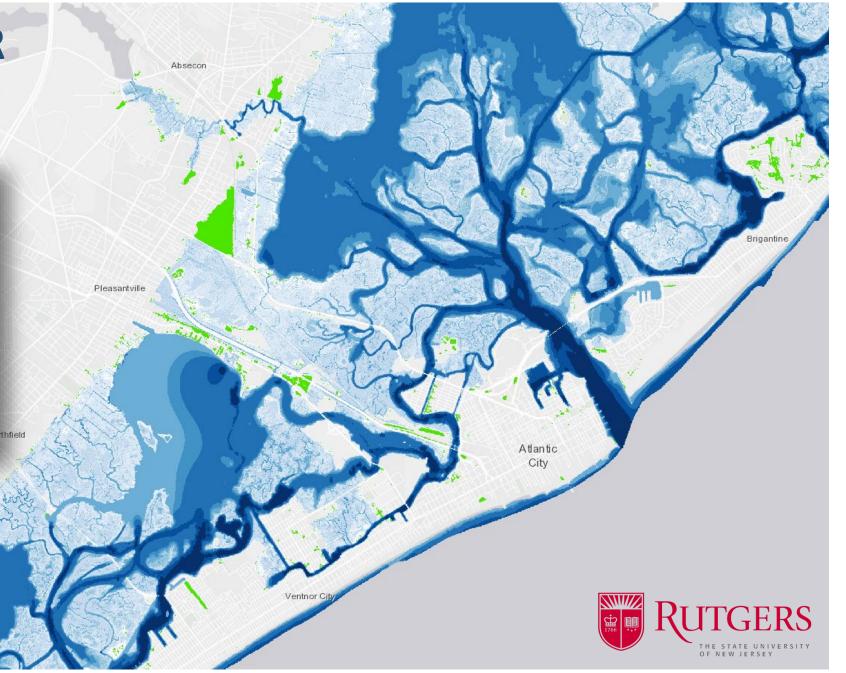
Timeframe: 2050 Planning Horizon

SLR Estimate: At least an 83% Chance of Exceeding - 0.9 ft.

Flood Event: Permanent Inundation - 0 ft. above MHHW

Total Water Level Estimate: 0.9 ft.

Total Water Level Estimated Mapped (nearest ft.): 1 ft.





III. DEVELOP A STRATEGY







IV. TRACK YOUR PROGRESS







Resilient NJ:

Resilience Guidance & Assistance Program



Resilience GAP - "Fill the Resilience

GAP"

- Facilitated by NJDEP and FEMA
- Design, develop, and deliver a comprehensive package of guidance, tools, and trainings for municipal governments to incorporate climate resilience into their regulatory program
- Technical assistance program for support
- Coordinate, organize, and direct NGOs

Develop uniform
guidance and
criteria for
municipal resilience
planning

Guidance should be: In this effort

- Consistent with the most accurate, up-to-date climate science
- Consistent with NJ rules and regulations
- Easily accessible and developed with the intention of building capacity

RESILIENT

REGIONAL PLANNING PROGRAM

Launched in 2020 by DEP

Four regional planning projects

Goal: Produce community-led climate resilience & adaptation action plans

Since expanded to include:

- 3 NGO grants
- 5 municipal planning projects
- \$6M to be awarded to additional regions/communities
- Online toolkit for municipalities



Providing Science and Data



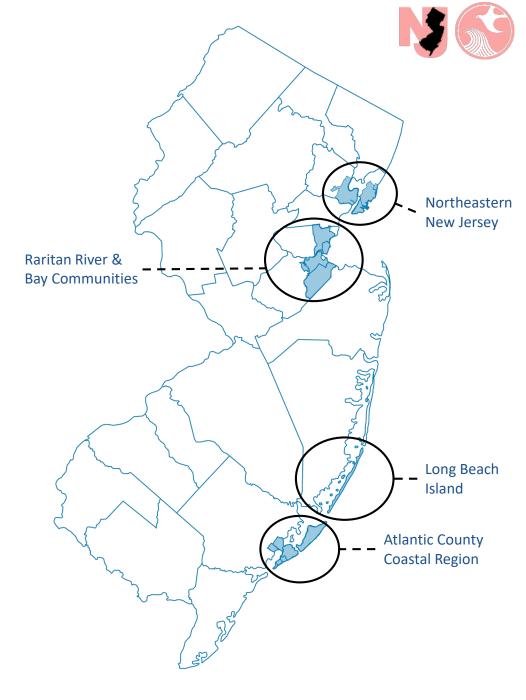
Supporting Engagement



Assessing Vulnerability



Identifying Solutions





MUNICIPAL ASSISTANCE PROGRAM

- Direct resilience planning assistance to individual municipalities in the coastal zone for development of a local climate resilience strategy and/or climate change-related hazard vulnerability assessment
- Inaugural funding award: \$400,000 across five municipalities:
 - Ocean Township (Ocean County)
 - Salem
 - Stafford Township
 - Trenton
 - Upper Township



RESILIENCE ACCELERATOR

- Direct technical assistance and expertise to local communities on specific resilience goals and projects
- Workshops and partnering sessions create space for high-level education and tailored, one-on-one assistance
- Seven riverine communities in first cohort
 - Next cohort to focus on residential coastal communities



Partnership of federal & state agencies













Contact

meghan.leavey@dep.nj.gov



Climate Ready Communities

Tanya Rohrbach, Community Planning Manager New Jersey League of Municipalities Conference

November 17, 2022





Agenda

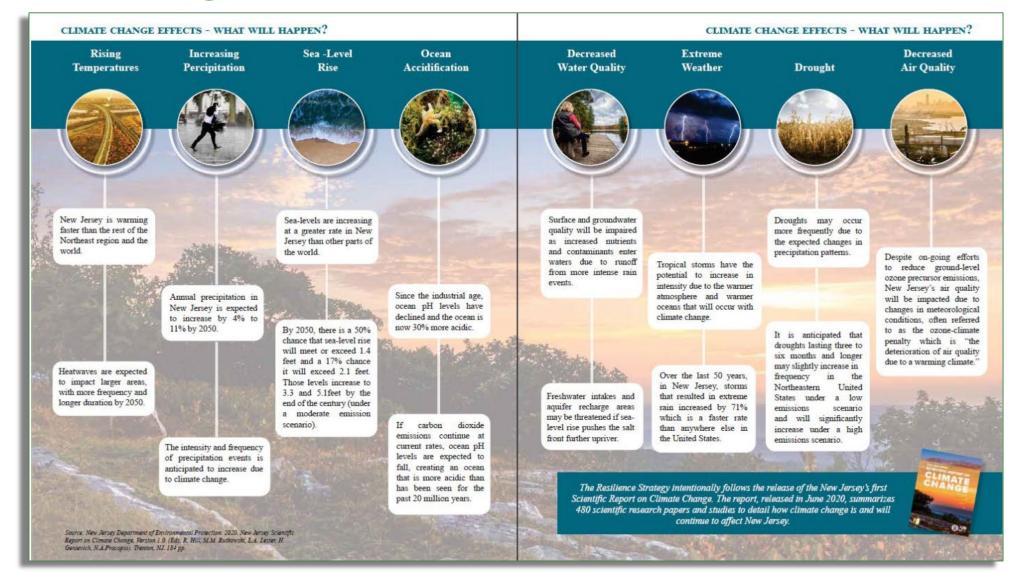
- Regulatory Requirement
- Climate Hazards and Vulnerabilities
- Sustainability and Equity in Climate Planning
- ▶ Climate Planning Process to Conduct a CCRHVA and Be Climate Ready

Regulatory Requirement

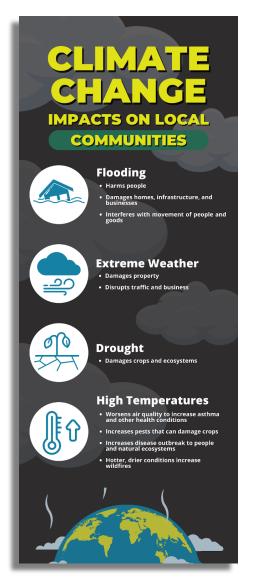
Law P.L. 2021, c6 specifically requires municipalities to:

- 1. Analyze current and future threats to, and vulnerabilities of, the municipality associated with climate change-related natural hazards;
- 2. Include a **build-out analysis** of future residential, commercial, industrial, and other development in the municipality, and an assessment of the threats and vulnerabilities identified above related to that development;
- 3. **Identify critical facilities, utilities, roadways, and other infrastructure** that is necessary for evacuation purposes and sustaining quality of life during a natural disaster, to be maintained at all times in an operational state;
- 4. Analyze the potential impact of natural hazards on relevant components and elements of the master plan;
- 5. Provide **strategies and design standards** that may be implemented to reduce or avoid risks associated with natural hazards;
- 6. Include a specific policy statement on the consistency, coordination, and integration of the climate-change related hazard vulnerability assessment with certain other plans adopted by the municipality; and
- 7. Rely on the most recent **natural hazard projections and best available science** provided by the New Jersey DEP.

Climate Change-Related Hazards and Impacts



Climate Change-Related Hazards and Impacts



Impacts have effects across all systems:



Climate Change-Related Hazard Vulnerability

Exposure - The extent people, places, or systems are touched by or in contact with or disturbed by a hazard.

Sensitivity - The extent that they can experience harm from that exposure

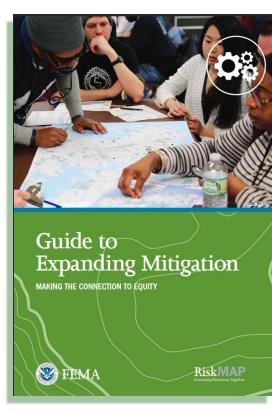
Adaptive Capacity - The extent people or systems can respond to and learn from disturbances to mitigate the causes and the impacts of climate-related hazards



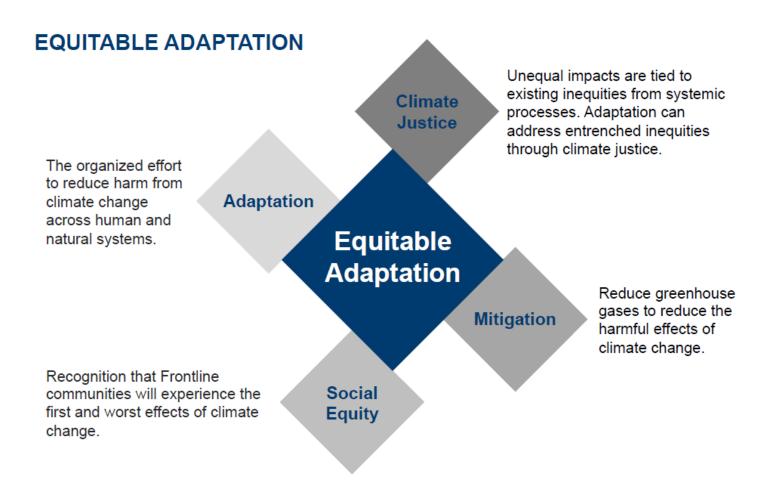
Climate Change-Related Vulnerability - Socially Vulnerable Populations

- Underserved communities with a low socioeconomic status
- Populations of color
- Tribal and First Nation communities
- Gender and gender identity
- Individuals experiencing homelessness or displacement
- Rural communities
- Older and younger populations
- Limited English proficiency
- Service workers and migrant laborers
- Limited cognitive or physical abilities
- Institutionalized populations, such as those in prisons and nursing homes
- Renters
- Transportation dependent or car-less populations



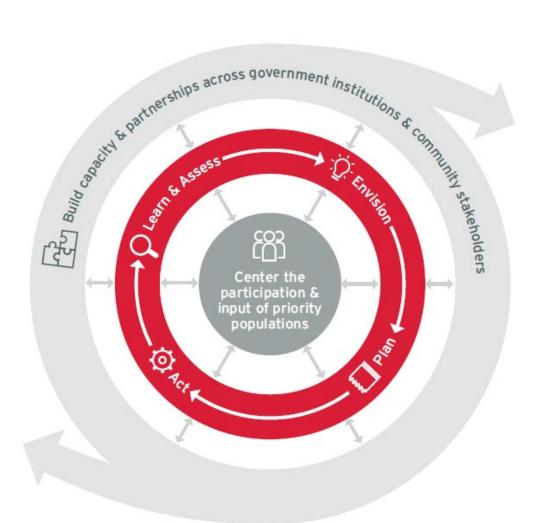


Sustainability = Equitable And Just Solutions



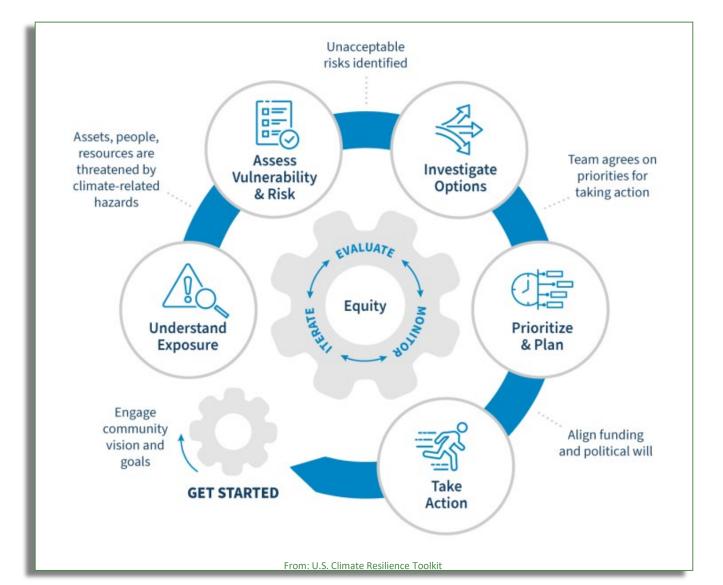
From: San Diego Regional Climate Collaborative at the University of San Diego, (February 2022). An Equity-First Approach to Climate Adaptation.

Equity Throughout and Community-Driven



- From the very beginning, and through all phases of the planning process, center participation of community members.
- Individuals and populations are already implementing strategies that we can learn from.
- Opportunity to address existing disparities.

Climate Change-Related Planning Process



NJ DEP Local Planning for Climate Change Toolkit

00	Overview	
01	Initiate & Engage	
02	Understand Your Vulnerability	
03	Develop a Strategy	
04	Track Your Progress	

Phases of a Climate Change Planning Process

01	Initiate and Contextualize	Steps to designate a lead and initiate the process
02	Explore Data and Resources	Steps to gather data about the community, climate hazards, stakeholders, and partners
03	Activate Community Engagement	Steps to set up a team and a community engagement plan
04	Assess Vulnerability	Steps to characterize existing and potential community features and evaluate the vulnerability of systems supporting the community
05	Develop a Strategy	Steps to prioritize strategies and create a plan
06	Maintain Climate Readiness	Steps for implementing, evaluating, and updating the plan and other local plans, through ongoing practices and policies

THANK YOU!

Tanya Rohrbach
Community Planning Manager
New Jersey Future
trohrbach@njfuture.org

Climate Ready Communities

Anne Heasly | Sustainable Jersey

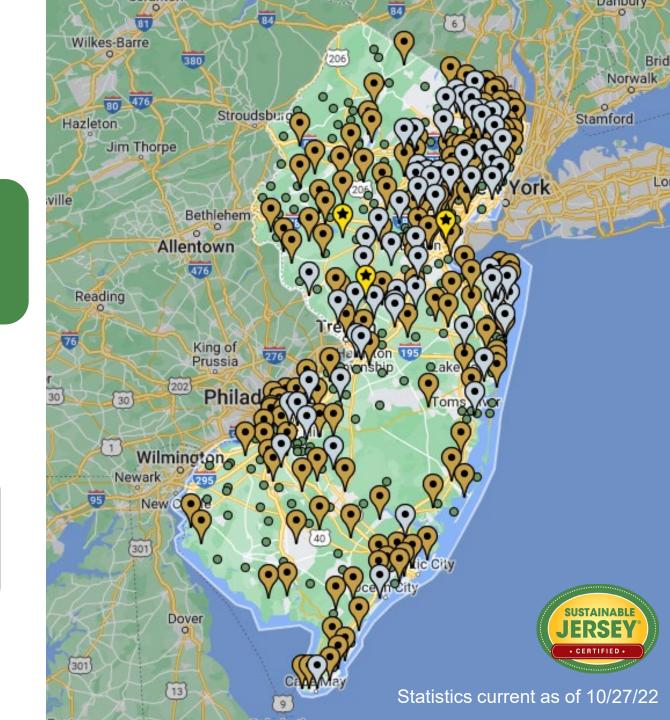
Statistics

2009 Program Started

82% Participating 91% Population

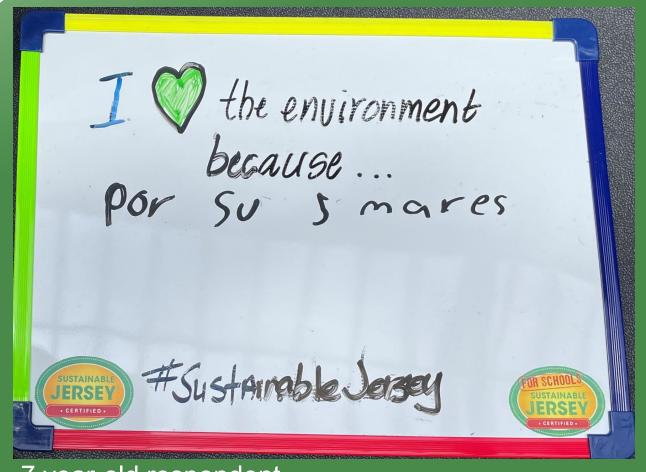


15,606
Actions
Implemented





How can municipalities by climate ready?



7 year-old respondent NJDEP Earth Day 50th Celebration — April 2022



Master Plan

- Official Map
- Land Use Regulations
- Development Policies e.g.
 Open Space Plan
- Capital Improvement Plan

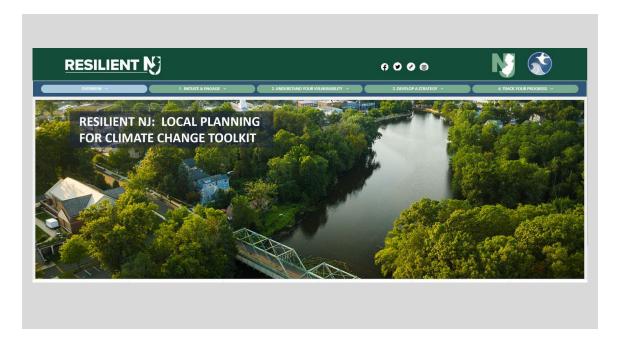
Other Plans

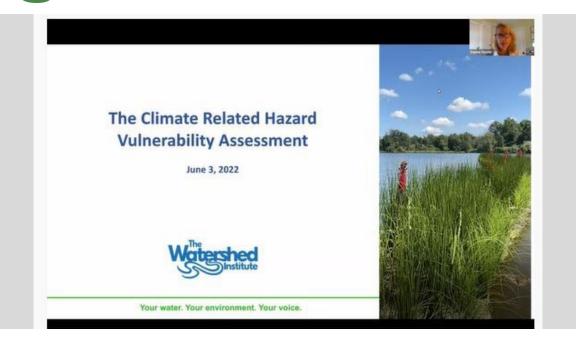
- Floodplain Management Plans
- Redevelopment Plans
- GHG Reduction Community Energy Plans



3 year-old respondent **NJDEP Earth Day 50th Celebration** – April 2022

Tools and Strategies





- Resilient NJ: Local Planning for Climate Change Toolkit (NJDEP)
- <u>Technical Friday June 3, 2022 webinar</u>
 <u>YouTube</u> (Watershed Institute)

Tools and Strategies

Office of Planning Advocacy Department of State, Business Action Center May 2022

Municipal Climate Resilience Planning Guide

INSIDE THIS ISSUE:

- 1. Introduction
- 2. Complying with the MLUL
- a. What the law requires
- b. Local Planning for
- Climate Change Toolkit

 3. Conducting a Vulnerability
- Assessment
- a. Steps to determine vulnerability
- 4. Develop a Resiliency

Intro

This planning guide was developed to assist New Jersey municipalities in complying with recent amendments to the Municipal Land Use Law (MLUL) for creating a climate change hazard vulnerability assessment, policy statement and resilience strategies to manage climate-related risks. Where indicated, the guide expands upon the MLUL requirements outlined herein, by providing best practices towards the development of a robust climate resiliency strategy. It includes both information and links to the New Jersey Department of Environmental Protection's (DEP) Local Planning for Climate



Municipal Climate Resilience Planning
 Guide (Office of Planning Advocacy)

Local Options/Local Actions

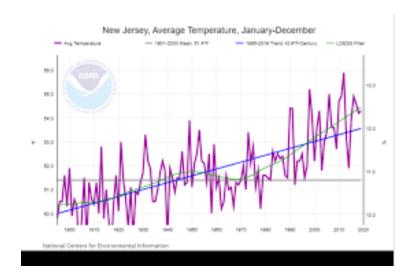
Resilience Strategies Case Studies

PREPARED FOR THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION



 Local Options/Local Actions (New Jersey Future)

Understanding Vulnerability







- Heat Island Assessment
 Action (Sustainable
 Jersey)
- Build Out Analysis Action (Sustainable Jersey)
- Community Equity and Diversity Profile Action (Sustainable Jersey)

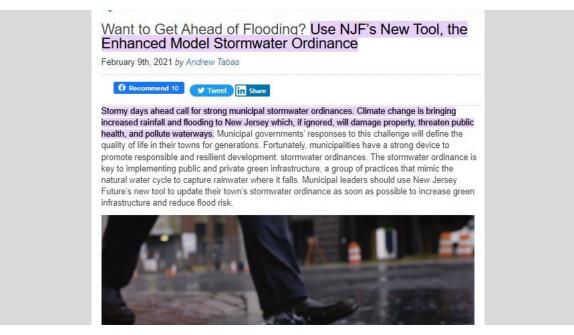
Adaptation: Reduce Impervious Cover

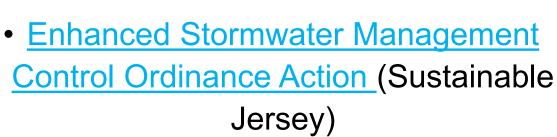




- Green Infrastructure Planning Action (Sustainable Jersey)
- Green Infrastructure Implementation
 Action (Sustainable Jersey)

Adaptation: Reduce Impervious Cover

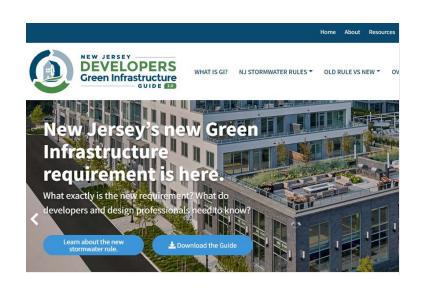






 Complete and Green Streets for All Policy Action (Sustainable Jersey)

Additional Stormwater Resources



New Jersey Developers
 Green Infrastructure
 Guide (New Jersey
 Future)



New Jersey Green
 Infrastructure Municipal
 Toolkit (New Jersey
 Future)

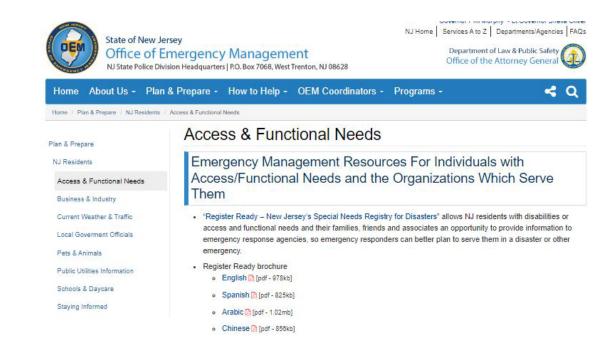


New Jersey Stormwater
 Utility Resource Center
 (New Jersey Future)

Preparedness



Extreme Temperature Event Plan
 Action (Sustainable Jersey)



<u>Vulnerable Population Identification for</u>
 <u>Emergencies Action</u> (Sustainable
 Jersey)

Updated Guidance

Sustainable Jersey Actions

- Actions updated:
 - Resource sections have new information
 - New Brief Guidance Document
- Gold Star

Sustainability and Resiliency:



Guidance on Creating Climate-Ready Communities

PREFACE

This guide presents 10 strategies that municipalities can implement to foster climate-resilient communities. These strategies are Sustainable Jersey "actions" that score points in the <u>municipal certification program</u>. These actions make sense to implement now - and will still be relevant in the future as a new, more comprehensive climate resilience framework is being developed by the New Jersey Department of Environmental Protection. This guide goes beyond the traditional reactive mindset in emergency management and encourages municipalities to prepare for the worst of climate change impacts and adapt as seen necessary by the community as a whole.

Sustainable Jersey has numerous Emergency Management & Resiliency actions to help municipalities prepare for and respond to climate change. They address a variety of climate hazards, including sea level rise, increased precipitation, and extreme heat. These impacts damage infrastructure, overwhelm utility systems, and disrupt vital ecological and agricultural processes, which, as they progress in severity, will only increasingly impact New Jerseyans' everyday lives. Thus, communities are turning to these actions - now more than ever - as climate change progresses in the Garden State and around the world.

Municipalities stand at the forefront of climate change adaptation. New Jersey's Home Rule Act (1917) grants municipal governments authority to enact ordinances and regulations to promote and improve environmental public health. Municipalities are in charge of land use practices, stormwater management, and energy. They also possess the ability to address social inequality and create mechanisms that foster equitable and resilient communities.

CLIMATE CHANGE POLICY ENVIRONMENT IN NEW JERSEY

In 2020, Governor Phil Murphy signed Executive Order No. 100 asking the New Jersey Department of Environmental Protection (NJDEP) to begin a regulatory reform effort to help reduce greenhouse gas and other climate pollutant emissions while making the natural and built environments more resilient to the impacts of climate change.

On February 4, 2021, Governor Murphy signed into law P.L. 2021, c6, amending the Municipal Land Use Law, to require municipalities to incorporate a climate change-related hazard vulnerability assessment into any Master Plan Land Use Element. These assessments will need to analyze current and future threats associated with climate change-related natural hazards, including increased temperatures, drought, flooding, hurricanes and sea-level rise.

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Questions?

Jason F. Cilento, Mayor, Dunellen, jcilento@dunellen-nj.gov Meghan Leavey,
Lead Planner,
Climate Resilience
Planning, NJDEP,
meghan.leavey@dep.nj.gov

Tanya Rohrbach,
Community
Planning Manager,
New Jersey
Future,
trohrbach@nifuture.org

Anne Heasly,
Program Manager
Policy and
Planning,
Sustainable
Jersey,

heaslya@tcnj.edu



Thank You



