



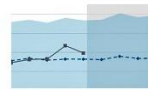
## Enhanced data-visualization tools help New Jersey communities plan for climate change

Planners in New Jersey have a new set of decision-support tools to help prepare their communities for climate change. The tools are part of a suite of data-visualization and mapping applications known as [NJADAPT](#) developed at Rutgers University under the umbrella of the [NJ Climate Change Resource Center](#).

Additions to NJADAPT include “a Climate Dashboard of projected climate trends and statistics by season; improved Climate Snapshots about the people, places and assets at risk by municipality, county, and statewide; and NJ HazAdapt, which was developed with the NJ Office of Emergency Management to aid in county and local hazard mitigation plans,” explains Lucas Marxen, associate director of the Rutgers Office of Research Analytics and a key member of the NJADAPT team.

Enhancements to NJADAPT also include a primer on coastal flooding and an overview of a climate planning tool designed to analyze coastal flooding vulnerability.

"A main function of the NJ Climate Change Resource Center is to provide useable science to help New Jersey communities and decision makers plan for the cascading impacts of warmer temperatures, more intense precipitation, and sea level rise," notes Marjorie Kaplan, Resource Center co-director. "Expanding NJADAPT gives communities more tools to use to prepare for the climate-related impacts we're already experiencing and will continue to see in the future."



**Climate Dashboard**

New Jersey climate trends in moderate and high emissions scenarios

The Climate Dashboard visualizes climate change trends and statistics for the whole of New Jersey. It compares projected conditions to future projections and can be displayed as maps or interactive charts. The projected changes are summarized in seasonal intervals (winter, spring, summer, fall) for six climate measurements in moderate (consistent with today's global policies) and high (continued growth of emissions by 2100) emissions scenarios.

[Go to Climate Dashboard](#)



**NJ FloodMapper**

An interactive flood exposure mapping tool

NJ FloodMapper is an interactive mapping tool that allows users to conduct flood exposure analysis based on the best available science for sea-level rise and various other parameters, including total water levels, hurricane surge, FEMA flood zones, and Hurricane Sandy surge. Additional map layers depict infrastructure, environmental hazards, marsh and open space, social vulnerability, flood insurance payments for property loss, and land use.

[Go to NJ FloodMapper](#)



**Climate Snapshots**

Climate risks summarized by municipality, county and statewide

Adapting to climate change requires an understanding of potential hazards and exposure. These Climate Snapshots provide easy access to information about the people, places, and assets at risk from climate impacts in each of New Jersey's municipalities, counties, and the state as a whole. Snapshots include reports on built infrastructure, critical assets, natural and working lands, public health, vulnerable populations, and forestry.

[Go to Climate Snapshots](#)



**NJ HazAdapt**

Data for hazard planners

Developed with the NJ Office of Emergency Management, this tool provides municipal and county hazard planners with easy access to data and resources that will assist with development of hazard mitigation plans. State and local users can assess flooding impacts on key FEMA release areas, socially vulnerable populations, and individual land parcels. The tool includes heat hazard data to understand the impacts of heat waves and the urban heat island effect.

[Go to NJ HazAdapt](#)



**Climate Planning Tool**

A guide to using coastal flooding data

This tool assists state and local officials, consultants, hazard planners, and others to understand the impacts of climate change on coastal flooding in New Jersey. Backed by data on sea level rise, hurricanes, and tidal floods, the tool explains how to use data to analyze different flooding scenarios. The tool is presented in two stopmaps: the first is a primer on flooding, the second is a step-by-step outline of a coastal flood vulnerability analysis.

[View Primer](#) | [View Assessment Steps](#)



**NJ Forest Adapt**

Forest management tool

This mapping tool enables users to visualize data over multiple timeslices and climate change scenarios. Users can explore changes in plant hardiness and heat zones, species distribution, heating and cooling degree days, and precipitation. Additional map layers include forest carbon density, canopy cover, impervious surfaces, forest types, pest and disease, wildlife fuel hazard, and more.

[Go to NJ Forest Adapt](#)

[Go to NJADAPT](#)

## Infographic: New Jersey Climate Change by the Numbers

A decade after Sandy, New Jersey continues to grow warmer, wetter, and more prone to flooding.

How have conditions changed? What can we expect in the coming years? What's at stake for the Garden State?

See our infographic for the numbers behind the story.

[Go to infographic](#)



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