



https://dep.nj.gov/climatechange/





Governor Phil Murphy • Lt. Governor Tahesha Way

NJ.gov | Services | Agencies | FAQs | Translate | Search Q



f |<u>X</u> |<u>O</u>

## Climate Change



Climate Science 🔻

Curbing Our Emissions 🔻

Preparing for Climate Impacts •

Resources •

All Topic

Contac

## Climate Change in New Jersey: Impacts & Effects

Some effects on our state are greater than the average for the country or world. Learn more



### **TEMPERATURE**

in NJ has increased 3.9°F since 1895.

Learn more about heat.

Heat-related hospitalizations in NJ increased 156% from 2004 to 2013.

Learn more about human health.



#### ANNUAL PRECIPITATION

in NJ is expected to increase from 6% to 9% by 2100.

Learn more about precipitation.



## SEA-LEVEL RISE

could meet or exceed 1.4 feet by 2050. There is a 50% chance.

Learn more about sea-level rise.



### TROPICAL STORMS

have the potential to increase in intensity due to the warmer atmosphere and oceans that will occur with climate change.

Learn more about storms.



### **EXTREME RAIN**

in the Northeast increased by 55% between 1958 and 2016.

Learn more about extreme rain.



## **BIRD SPECIES**

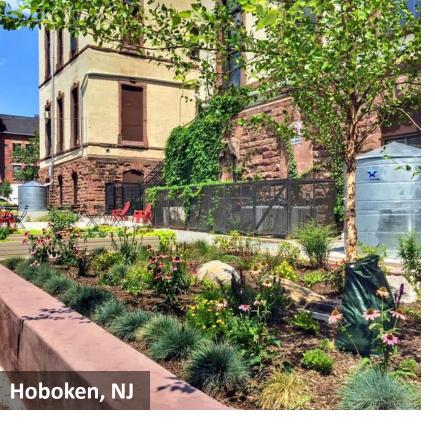
are vulnerable to climate change. 29% of all NJ birds will be affected.

Learn more about birds and wildlife.

# WATER INFRASTRUCTURE NEEDS AND CHALLENGES

New Jersey's water infrastructure faces significant challenges due to climate change impacts, exposing water systems and communities to risks, such as disruption in level of service, environmental contamination, and localized flooding.









The New Jersey Water Bank is a critical resource for addressing these needs, funding a variety of projects related to resilience.

- CSO Infrastructure (Grey and Green)
- Stormwater Management
- Climate Resilience for Treatment Works
- Land Preservation
- Energy and Water Efficiency
- Climate Resilience for Drinking Water Infrastructure
- Asset Management Plans
- Planning and Design Loans

# **FUNDING PACKAGE BENEFITS**

PRINCIPAL FORGIVENESS

LOW INTEREST LOANS

AFFORDABILITY CRITERIA

The New Jersey Water Bank is a critical resource for addressing these needs, funding a variety of projects related to resilience.

- CSO Infrastructure (Grey and Green)
- Stormwater Management
- Climate Resilience for Treatment Works
- Land Preservation
- Energy and Water Efficiency
- Climate Resilience for Drinking Water Infrastructure
- Asset Management Plans
- Planning and Design Loans



# INCORPORATING RESILIENCE INTO THE NEW JERSEY WATER BANK

PROJECT RANKING

Projects implementing climate resilience measures will receive additional priority points if the resilience components represent a significant amount of the overall project activities.

100 for Clean Water 150 for Drinking Water





# INCORPORATING RESILIENCE INTO THE NEW JERSEY WATER BANK

PROJECT RANKING

AFFORDABILITY CRITERIA

Check to see who qualifies in our WIIP website Intended Use Plans.

https://dep.nj.gov/wiip/intended-use-planand-project-priority-lists/





# INCORPORATING RESILIENCE INTO THE NEW JERSEY WATER BANK

PROJECT RANKING

AFFORDABILITY CRITERIA

Lead service line replacement, small systems, rural communities, and disadvantaged communities (DACs)!

Opportunities for principal forgiveness planning and design loans.

TECHNICAL ASSISTANCE





https://dep.nj.gov/wpcontent/uploads/wiip/srfapplicants-guide.pdf







AFFORDABILITY CRITERIA

# New Jersey Water Bank Applicant Guidance

For New Jersey's Clean Water and Drinking Water State Revolving Funds











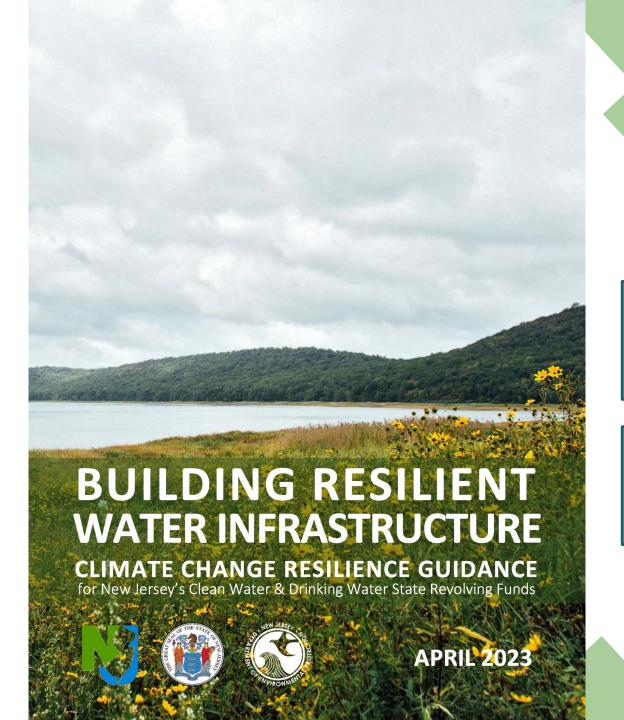
ENHANCED EDUCATIONAL MATERIALS





PROJECT RANKING

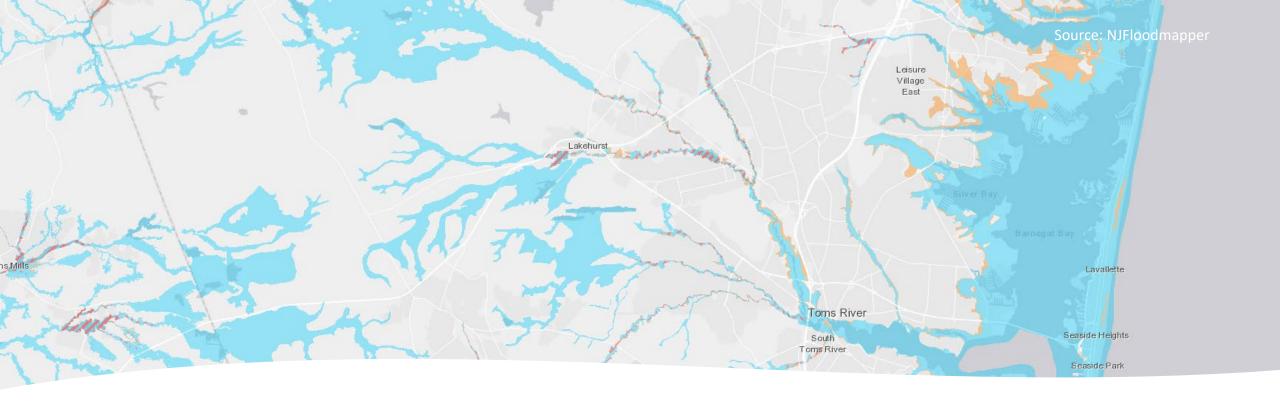
AFFORDABILITY CRITERIA



TECHNICAL ASSISTANCE

ENHANCED EDUCATIONAL MATERIALS





# PURPOSE OF THE GUIDANCE

To incorporate resilience considerations into the planning and design process where projects are exposed and vulnerable to climate change impacts, to ensure that water systems can maintain level of service during weather events, constitute sound public investment, and reduce risks of environmental contamination and localized flooding







# **VULNERABILITY**



Project scope



Type of Infrastructure



Sensitivity of Assets



Adaptive Capacity of Assets





# RESILIENT PLANNING & DESIGN

- Use the analysis to explore how each alternative might avoid, minimize, or mitigate identified climate impacts.
- New construction and substantial alterations need to consider planning horizons to 2100. These projects are held to a higher level of scrutiny during review.



## **GUIDANCE DOCUMENTS**

1

Building Resilient Water
Infrastructure: Climate Change
Resilience Guidance

2

Resilience Requirements
Supplemental Guide and Checklist

To learn more, visit the <a href="https://dep.nj.gov/WIIP">https://dep.nj.gov/WIIP</a>



