



Division of Water Supply & Geoscience



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Trish Ingelido, Director Director's Office

NJ Geological & Water **Survey Element**

Bureau of Water Allocation & Well Permitting

Bureau of Water Resources & Geoscience

Water Systems Operations Element

Bureau of Safe Drinking Water

Bureau of Water System

https://www.nj.gov/dep/watersupply/



Drinking Water Customers (residential and commercial/industrial) Your Utility & Its Water Quality Learn about Water Quality Child Care Certification

Physical Connection Permits Water Conservation & Protection Drinking Water Watch Water Quality Complaints



Lead Service Line Replacement Resources Updated

Forms associated with LSL Inventories, Plans, and Guidance

have been updated and are available here and here. Please be

What's New

The draft 2024 New Jersey Statewide Water Supply Plan has been published. You can read the complete Plan, and learn how to offer written or oral feedback here.

2023 Capacity Development Implementation Report

The Water Allocation Availability Screening (WAAS) Tool helps

impediments and/or issues. This tool hosted in the NJ Geology

identify water supply areas of concern to assess probable

Bureau of Water Allocation & Well Permitting

water availability and potential permitting process

Information App. This tool is available here. Click the "hammer" icon on the upper right of the toolbar to start the

Report

- WAAS Tool

April 2024



Well Permits & Information Residential Wells General Information Private Well Testing Act

Dewatering

Drought

Drinking Water Systems

Construction Permits

Emergencies & Security Loans & Capacity Development

Sampling & Regulatory Forms

Water Quality Accountability Act

Well Drillers & Pump Installers NJ Advisory Board Licensing & Exams

Training & Certification

Drinking Water Watch

Harmful Algal Blooms

Covid-19 Information



NJ Geological and Water Survey Mapping, research, interpretation and scientific information regarding the state's geology and water resources.

Water Utilization

2022 Annual Report of Violations

· 2022 Annual Report of Violations

Water Allocation & Registrations Agricultural Certifications & Registrations

Trenton Water Works Direct Operational Oversight

Out of Service Facilities Forms Update DWSG has revised the Facility Out of Service form, which is

available here. A new form for reporting wells out of service after a GWR triggering event is also available here.

Laws & Regulations Boards & Committees Water & Wastewater System Operator Licensing New Jersey Water Supply Plan

Office of Science Publications including drinking water reports

Division Organization

Useful Links



Licensed Operator Program Update

In-Person Licensing Examination Update (12/29/2022)

New Jersey Water Supply Plan Website

NJDEP is currently in the process of updating the New Jersey Statewide Water Supply Plan. To learn more and get involved in assisting NJDEP as it develops this key document, click

Updated Operations & Maintenance Resources

- O&M Manual Checklist
- O&M Procedure Template

Third Party Representative Designation Updates- June

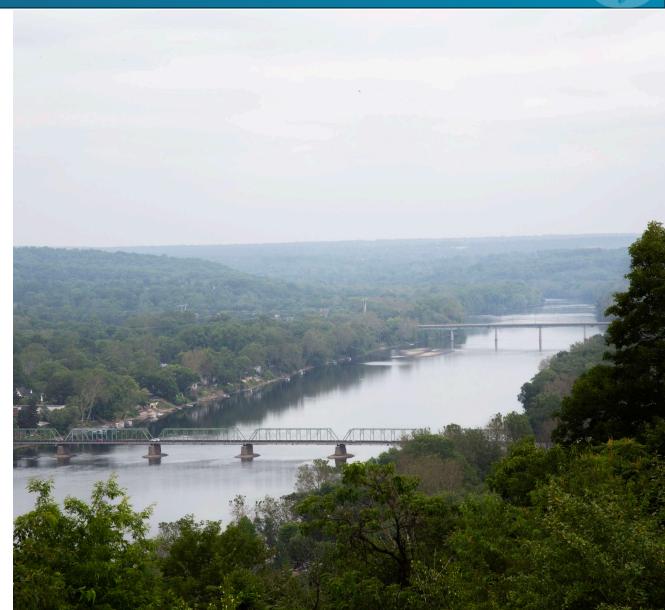


What We'll Cover Today



- Water Supply Planning in NJ
- 2024 Plan Overview
- Highlights
- Findings and Recommendations

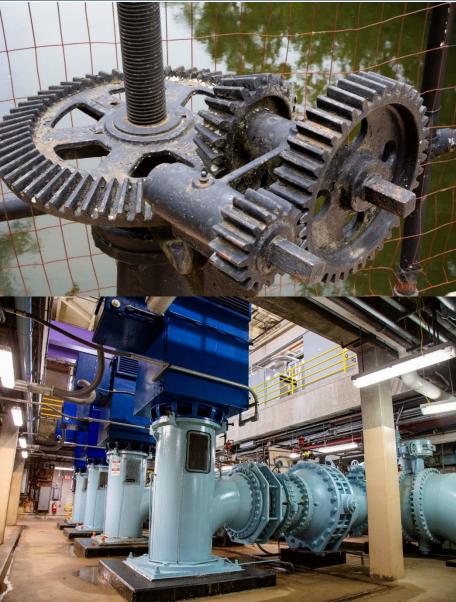
Draft plan released 2/26/24
Public comment period ended 4/26/24
Final Plan release ~ 9/24





Water Supply Planning in NJ





- 1981 Water Supply Management Act
 - Develop and periodically update a WSP
 - Historically focused on quantity
- 1982, 1996 and 2017 Plans
 - Numerous regional and statewide plans prior to 1982
- Fundamental Questions:
 - How much do we currently have and use?
 - How much will we need in the future?
 - What are the critical issues impacting supply?
 - What do we need to do to ensure adequate supply w/o unacceptable impacts?



2024 NJ Statewide Water Supply Plan

- 5-Year plan with 2050 planning horizon
- Addresses major comments on 2017 WSP
 - Lack of climate change evaluations
 - Limited public engagement and policy recommendations
- Major additions:
 - 5 more years of data
 - Climate change impacts to water availability
 - Statewide safe drinking water assessment
 - Environmental Justice/Overburdened Community water supply impacts
 - Detailed policy recommendations





Public Engagement To Date

- Water Supply Advisory Council
 - 10 public meetings since 2022
- Invited Stakeholders
 - 5 meetings with ~130 participants
- Website and email (live 9/2022)
 - https://dep.nj.gov/water-supply-plan/
 - watersupplyplan@dep.nj.gov
- Draft Plan released 2/26/2024
- Public meetings during 60-day comment period (per law)
 - In-person meeting
 - DEP Public Hearing Room
 - 401 East State Street, Trenton
 - March 15, 2024 10AM
 - Virtual meeting
 - Microsoft Teams
 - April 9, 2024 7PM
- Numerous legislatively required briefings plus others
- 60-day public comment period ended April 26, 2024



State of New Jersey Department of Environmental Protection 2024 NEW JERSEY STATEWIDE WATER SUPPLY PLAN

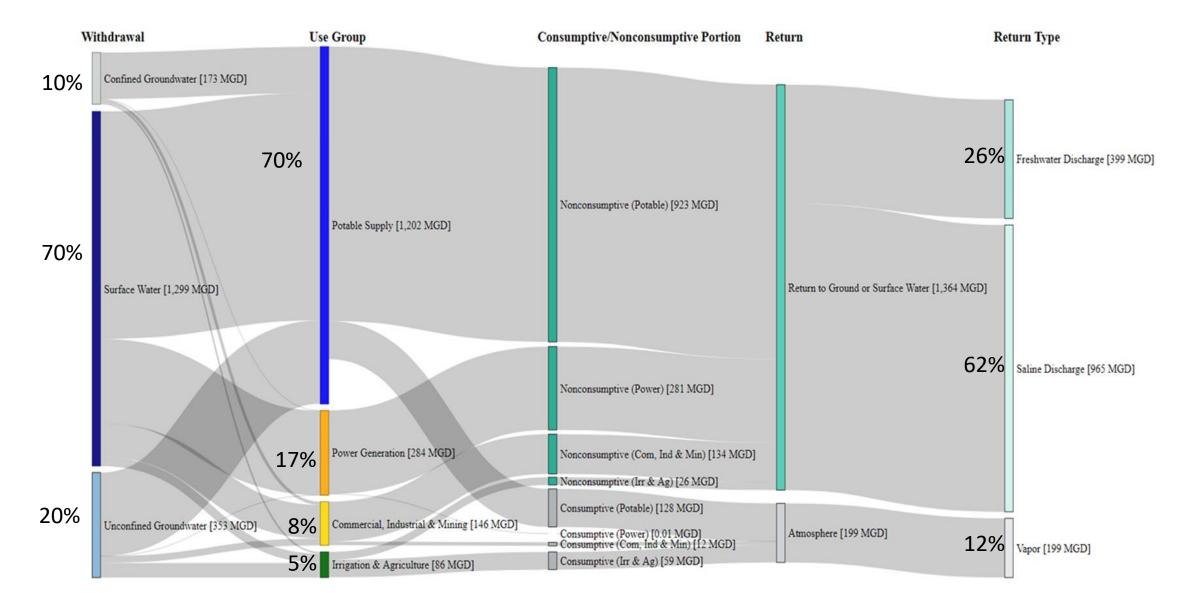




Draft for Public Comment



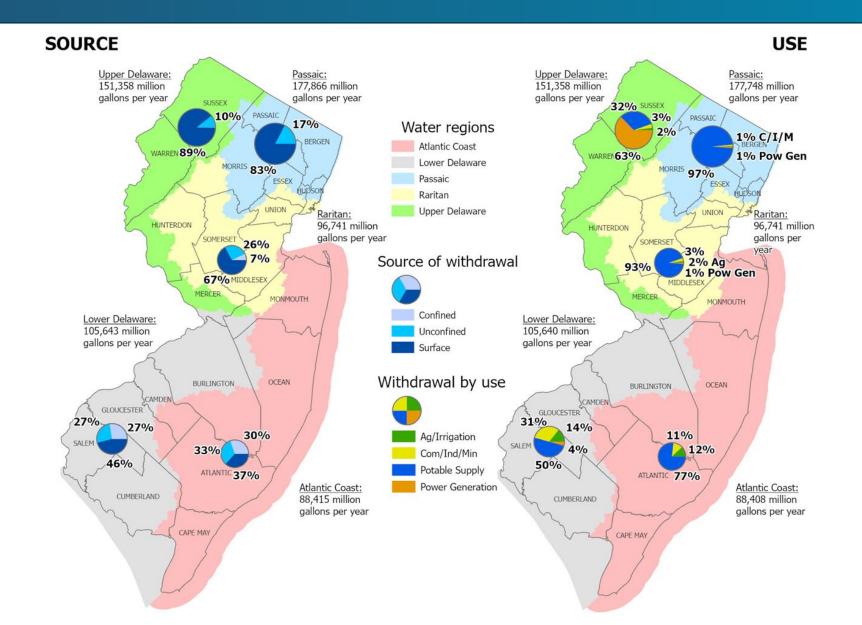
Current Water Use: Statewide Transfers





Average annual source of water withdrawal, by water region, 2016 - 2020 (millions of gallons).

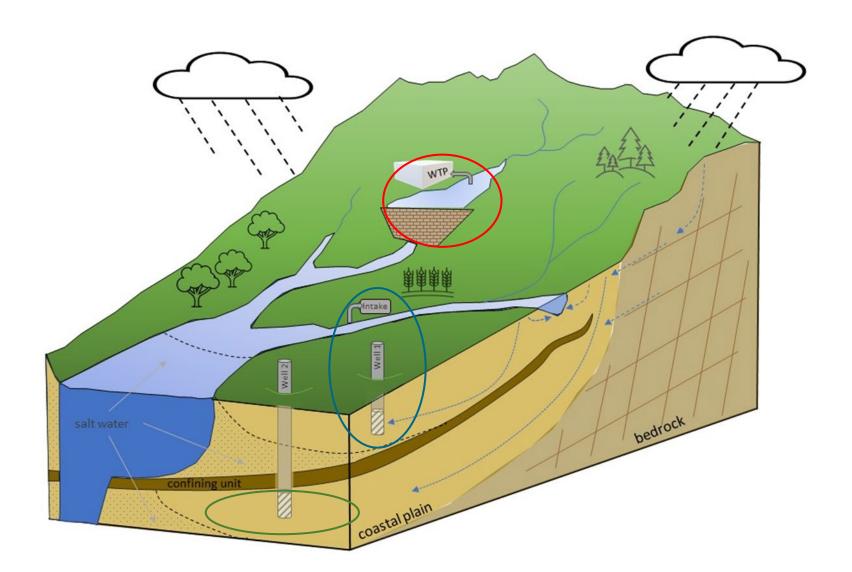
Average annual use of water, by water region, 2016-2020 (millions of gallons).





Natural Resource Availability





One water cycle, but divided into three resources:

- Reservoir Systems
 - Reservoir models
 - 785 mgd available
- Unconfined Aquifers & Surface Water
 - Stream Low Flow Margin Method
 - 387 mgd net loss available
- Confined Aquifers
 - Groundwater models
 - 619 mgd available

Availability methods and models account for interconnectedness of water



Climate Change Findings

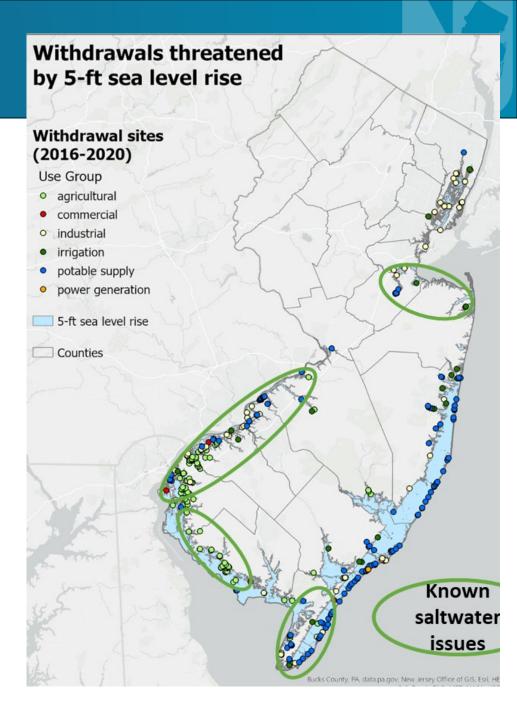
Statewide water supply risks from climate change are manageable but only if the state continues to take actions to mitigate threats.

The greatest concerns are associated with saltwater intrusion in near ocean-bay unconfined aquifers and estuaries.

Local problems do/will occur, and **resilient infrastructure** will be critical to withstand extreme events.

Assessments include:

- Sea level rise and saltwater intrusion/inundation
 - 2 ft ~2050 and 5 ft ~2100
- Groundwater recharge
- Streamflow trends and reservoir safe yields
- Still to do
 - water quality
 - drought
 - downscaling and seasonal impacts

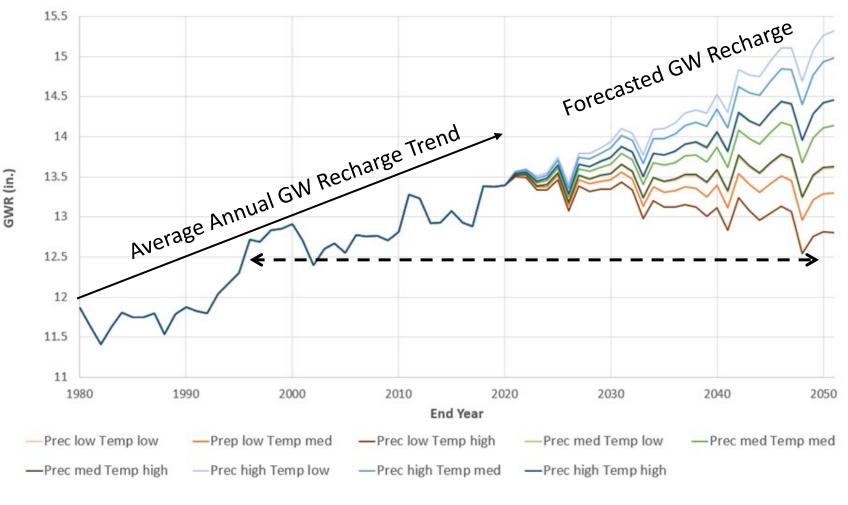




Climate Change and Impacts to Groundwater Recharge



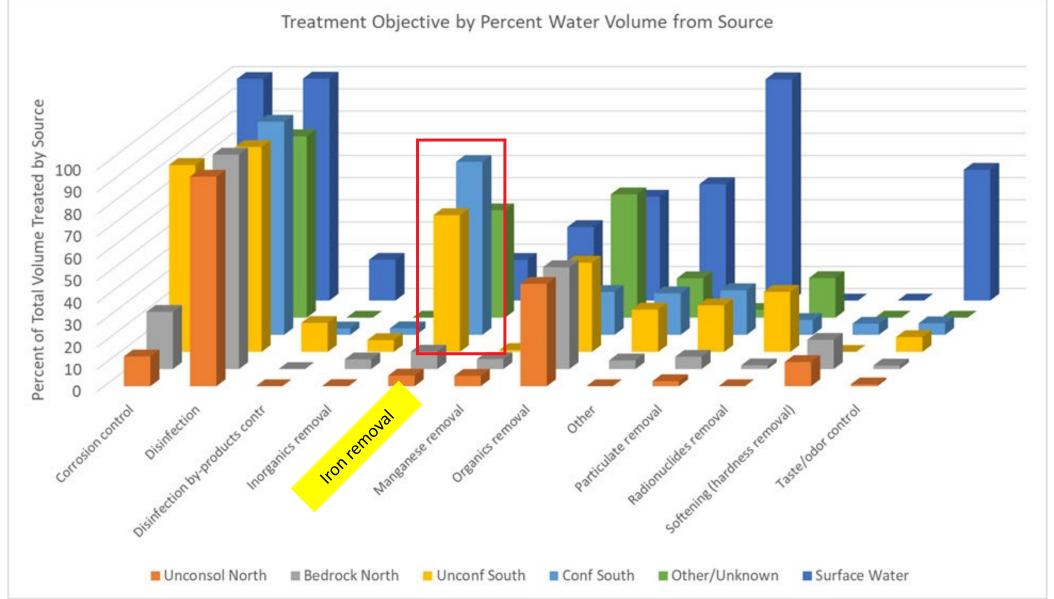






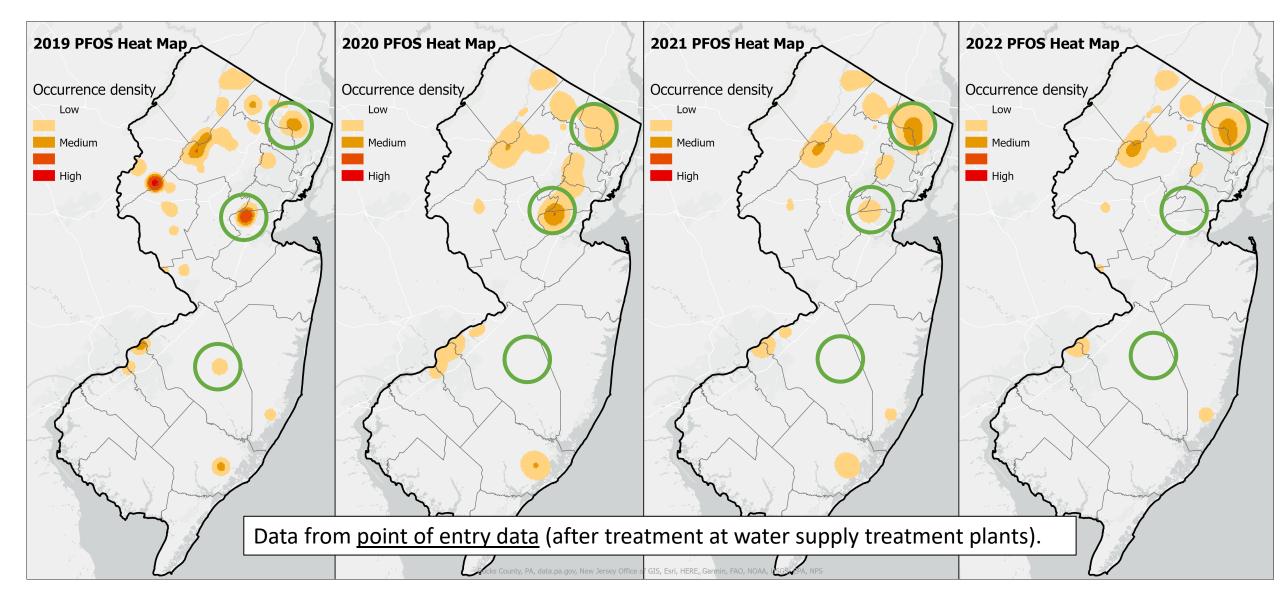
Safe Drinking Water Assessment







New & Emerging Contaminants- PFOS



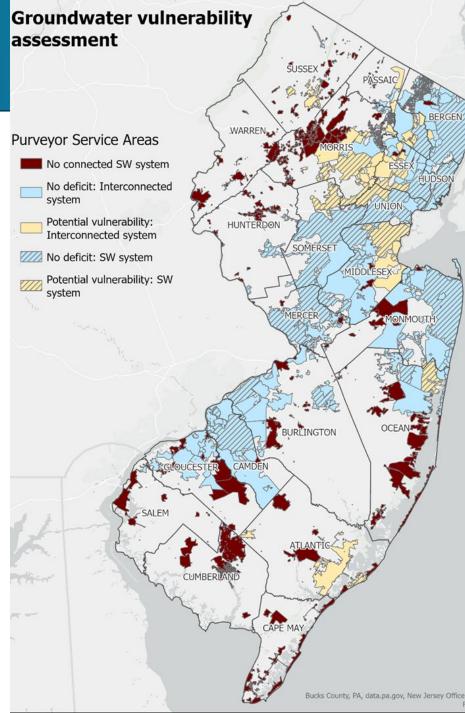


Impacts of New and Emerging Contamination

- Long-term treatment costs
- Water source changes
- Unintended consequences

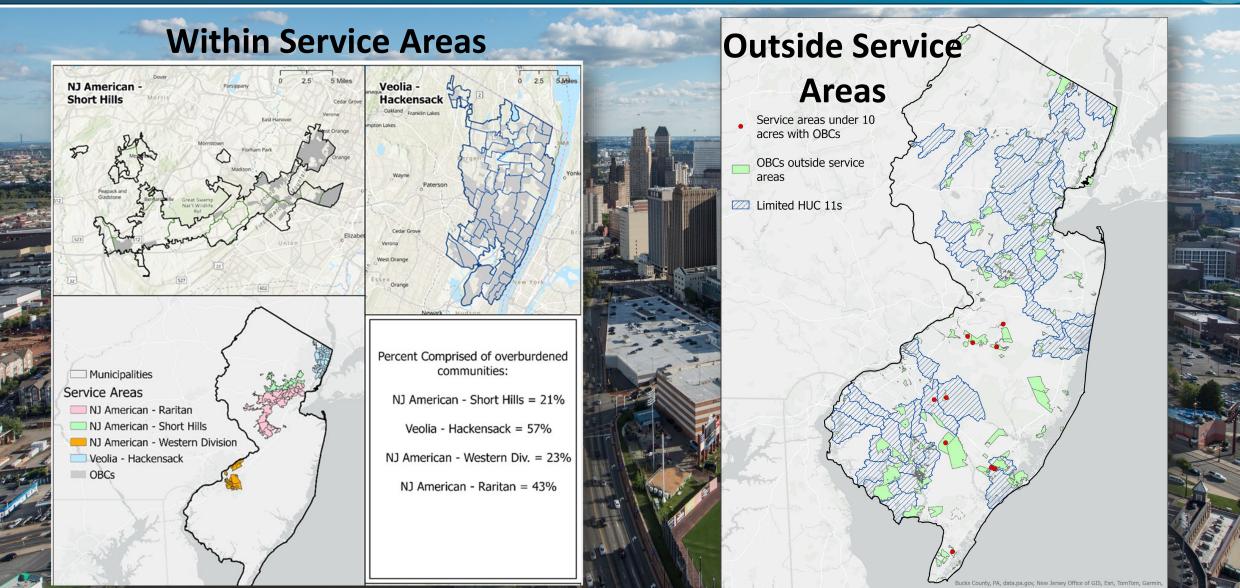








Overburdened Communities





Overall Plan Findings



The draft plan concludes that, under normal conditions and in most regions, New Jersey has adequate volumes of source water supply and is well-positioned to address water supply challenges <u>as long as</u> the state continues to take actions to mitigate the threats of climate change, aging infrastructure and emerging contaminants.

The availability of surface water, unconfined groundwater, and confined aquifers, the use of which varies geographically, was modeled to investigate potential shortages. Although not evenly distributed throughout the state, total natural water resource availability (including reservoirs) remains about the same as the 2017 New Jersey Statewide Water Supply Plan determined. However, current and forecasted use did change, and a few regions showed potential shortages.



Action Areas



To meet the draft plan requirements and ensure that New Jerseyans continue to have ample, reliable, and safe supplies of water now and in the future, the following action areas are covered in the draft plan:

- Hydrologic Data, Monitoring, Models, and Assessments
- Regional and Statewide Water Supply Planning and Protection
- Climate Change Water Availability Research and Modeling
- Climate Change Infrastructure Resilience Recommendations
- Water Policy Modernization
- Asset Management and Resilience
- Policies and Priorities for Efficient Water Use
- Public Outreach

Details can be found in Chapter 8



Thanks



- Department Leads:
 - NJGWS Water Supply Modeling and Planning
 - Division of Water Supply and Geoscience
 - Water Resource Management
- Water Supply Advisory Council
- Rutgers, The State University
- More info
 - email: watersupplyplan@dep.nj.gov
 - website: www.dep.nj.gov/watersupplyplan
 - New Jersey Water Withdrawal Data Summary Viewer https://experience.arcgis.com/experience/9da78182503e467989c280bfdf741d3a

