

Office of the New Jersey State Climatologist

We assist decision makers,
and so much more

Dr. David A. Robinson
Distinguished Professor,
Department of Geography &
New Jersey State Climatologist
Rutgers University

<http://njclimate.org>

ONJSC
at Rutgers University

Office of the New Jersey State Climatologist · Rutgers University · 51 Joyce Kilmer Avenue · Lucy Stone Hall B224 · Piscataway, NJ 08854

RUTGERS
New Jersey Agricultural
Experiment Station

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Home

NJ
Current Conditions
Current Forecasts
Climate Information
Climatologies

US
Current Conditions
Current Forecasts
Climate Information

Other
Coastal Observations
El Niño/La Niña
Hurricanes
Ida Overview
Sandy Overview
Weather Where You Live
2022 NJ State
Climate Summary

ONJSC
Outreach
About ONJSC
Research
Staff

Partners

Contact Us

Latest from the NJWxNet

Latest temperatures across NJ appear in the above map. Click on the map or here, the Rutgers New Jersey Weather Network, for much more information.

Interested in becoming a volunteer weather observer? Click here to learn more about the CoCoRaHS Network!

Featured Products

- [Winter 2022–2023 Snow Event Totals](#)
- [Monthly Statewide/Divisional/County \(1895–Present\)](#)
- [Monthly Station](#)
- [Monthly Maps](#)
- [Tornadoes in New Jersey: 1950 to Present](#)

Latest News

- [State of the Climate: New Jersey 2022](#)
- [In Sandy's Wake: Revelation and Resilience After the Superstorm](#)

Locals Trust Locals

- *Trusted relationships with state and local communities have developed over many years of service*
- *Climate information must be put into context for each client*
- *State Climate Offices are experts at doing this because they know the local climate, economy and geography*

Understanding NJ Weather & Climate Extremes



Examples of Activities Over the Course of a Year

Within Rutgers

Cooperate with colleagues on integrated coastal environmental monitoring, solar and offshore wind energy efforts, integrated solar and agriculture project, etc.
Provide climate data to colleagues (extension, faculty, students)
Presentations at meetings/workshops, guest lectures

Assisting State Government

Collaborate with, prepare reports for, and contribute to efforts of numerous state agencies:

- NJ Department of Environmental Protection
- NJ Department of Transportation
- NJ Office of Emergency Management
- NJ Board of Public Utilities
- NJ Highlands Commission

Assisting Federal Government

Collaborate with, prepare reports for, and contribute to efforts of numerous federal agencies:

Federal Emergency Management Agency

National Drought Monitor

US Department of Agriculture

US Forest Service

NOAA Eastern Region Climate Team

NOAA Northeast Regional Climate Center

Outreach/Communication

Maintain websites and social media accounts

Provide more than 200 media interviews annually

Respond to over 200 data/information requests annually

Post monthly, seasonal and annual NJ weather/climate reports

Presentations to several dozen schools, libraries, NGOs, etc. annually

Data gathering/archiving/dissemination activities

Maintain Rutgers New Jersey Weather Network. Currently 67 active stations.

(approximately one half billion observations recorded in 2022)

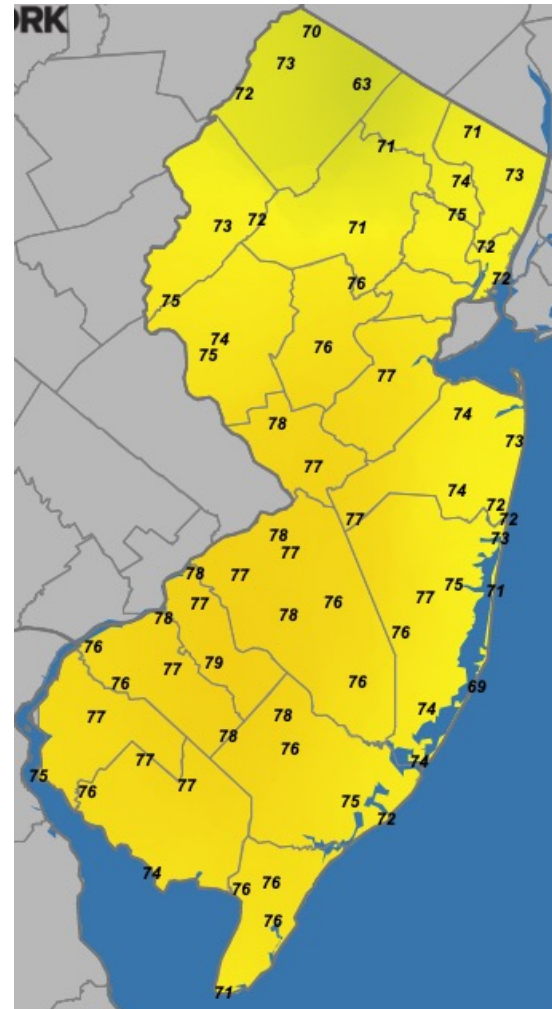
Contribute daily NJWxNet observations to the Network for Environment and Weather Applications (NEWA) agricultural program

Oversee the NJ Community Collaborative Rain, Hail and Snow Network

Maintain NJ Snow Event Totals database and website

Rutgers New Jersey Weather Network

njweather.org



NJWxNet stations measure:

- Air temperature
- Wind speed and direction
- Dew point/Relative humidity
- Precipitation
- Barometric pressure
- Solar radiation
- Soil temperature
- Soil moisture
- Snow depth

Solar power

Cellular communications

Ability for expansion built into station design



Pittstown, NJ
Rutgers Snyder Research and Extension Farm

Product development

In cooperation with the US
Forest Service

Employing data from:
Rutgers NJWxNet
NIFC RAWS

Updated every 5 minutes

NJ Fire Danger Monitoring Console

Most recent information collected as of May 2, 2017, 3:01 pm

Site	Air Temp	RH	Wind Sp	Peak Gust	Wind Dir	10hr Fuel Moisture	10hr Fuel Temp	24hr Precip
Ancora Hospital	75	46	10	25	WSW	13	86	
Berkeley Twp.	76	41	17	29	WSW		79	0.12
Coyle Field	78	42	11	26	W	12	90	
Cream Ridge	73	42	9	26	WNW	10	80	0.00
Forsythe	78	43	11	23	WSW			
Fort Dix I	75	40	8	20	WSW	11		0.16
Hammonton	74	37	13	26	WNW			0.09
Howell	75	41	4	22	NNW			0.06
Jackson	76	45	7	21	WNW	13	84	
Lakehurst		40	21	36	W			0.08
Oswego Lake	75	42	17	26	WSW		80	0.16
Piney Hollow	73	43	11	21	WSW			0.10
Silas Little	74	34	25	31	W	11	92	0.07
South Brunswick	74	49	11	28	W	11	83	
Upper Deerfield	75	33	24	31	WSW			0.04
Woodbine	76	40	22	26	WSW			0.06

Legend:

Relative Humidity	< 40%	< 30%	< 20%
Wind Speed/Gust	> 15	> 20	> 25
Fuel Moisture	< 20	< 15	< 10

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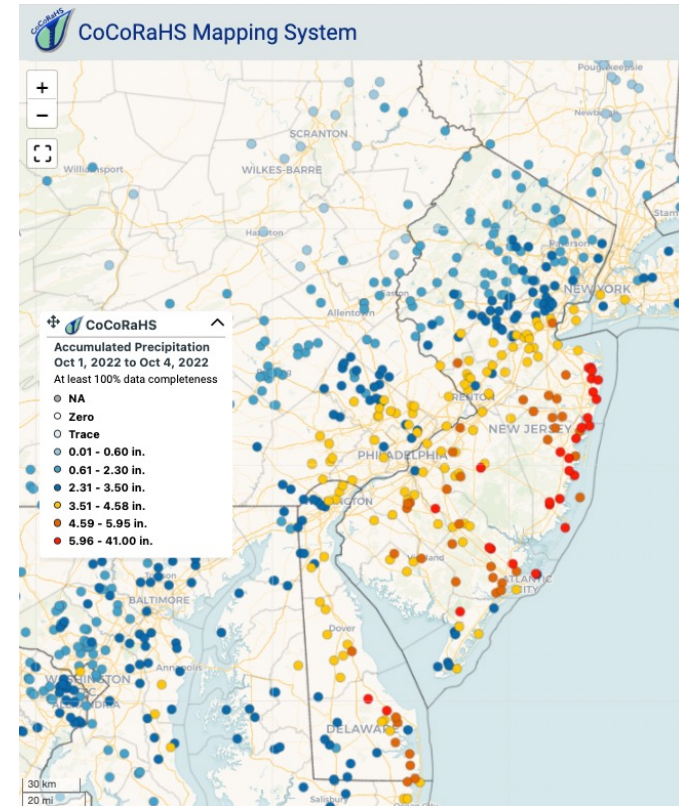
Community Collaborative Rain, Hail and Snow Network (CoCoRaHS)



Daily observations by
trained volunteers of all ages



cocorahs.org



7AM 30 Sep 2022– 7AM 4 Oct 2022

Product development

Snowstorm maps/tables

Employing data from:

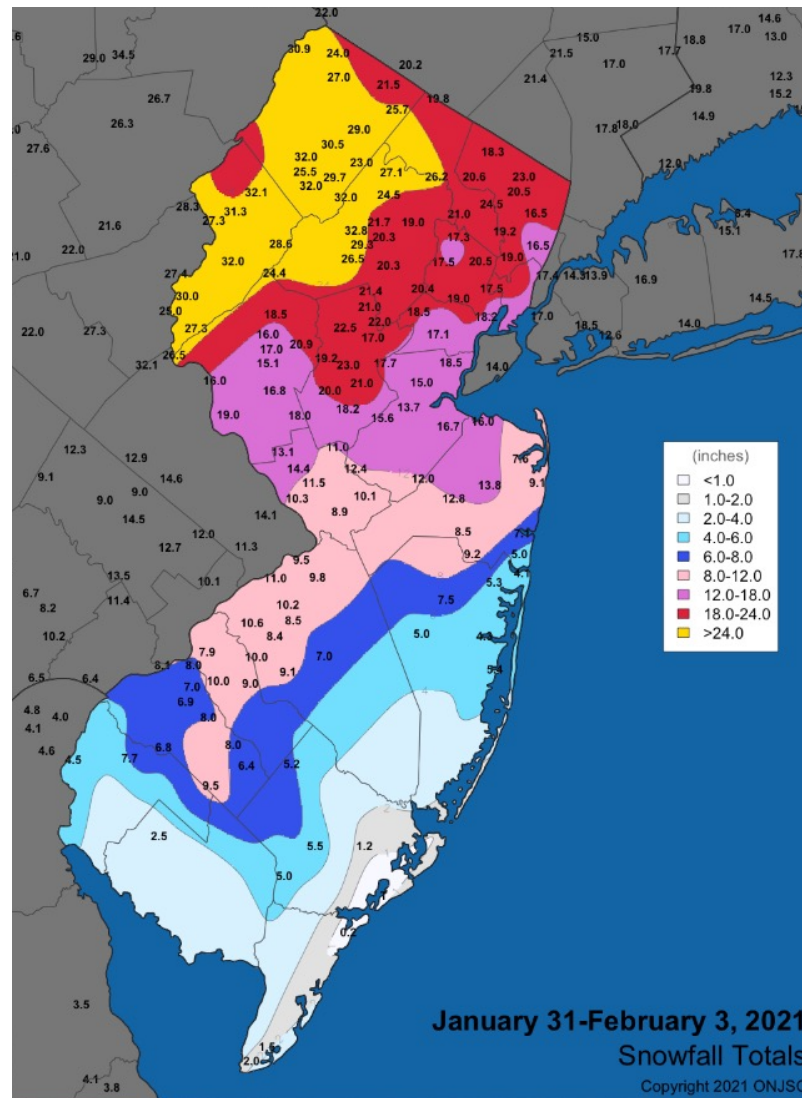
CoCoRaHS

NWS Coop

NWS Spotter

ONJSC Spotter

Major quality control
effort by ONJSC



ONJSC Staff (source of support)

Dave Robinson, NJ State Climatologist (20% NJ Agricultural Experiment Station (NJAES))

Mat Gerbush, NJ Assistant State Climatologist (100% NJAES)

Chad Shmukler, Unit Computing Manager (grant funds)

Jay Read, Unit Computing Specialist (grant funds)

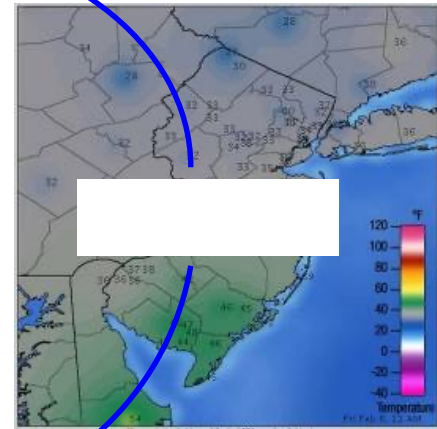
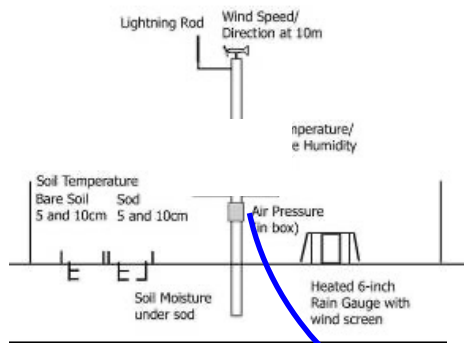
Dave Fittante, Senior Field Technician (part time; grant funds)

Sharon DiAmore , Assistant Field Tech (part time; grant funds)

Chitral Samala, Intern (Rutgers meteorology major, part time; grant funds)

The ONJSC: Keeping an eye on NJ's weather and climate for user communities

DECISION MAKERS



To move from large-scale understanding of science to local scale decision making; therein lies the need for federal-state partnerships



Summing up

Knowledge through climate services

- baseline knowledge
- local expertise
- data/information
- collaboration
- outreach/communication



State climate offices always
willing to assist and collaborate

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njclimate.org