

## New Jersey: Report from the field

Dave Robinson & Mat Gerbush  
NJ Co-Coordinators

June 10, 2024



Weston Canal & School House intersection  
Somerset, NJ  
2 September 2021

# Daily Reminder: if requested

**CoCoRaHS Reminder: Wednesday, June 5, 2024**



CoCoRaHS Reminder <[cocorahsReminder@email.rutgers.edu](mailto:cocorahsReminder@email.rutgers.edu)>  
To:  [cocorahsReminder@email.rutgers.edu](mailto:cocorahsReminder@email.rutgers.edu)

Today at 5:00 AM



<http://www.cocorahs.org/Admin/MyDataEntry/DailyPrecipReport.aspx>

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This automatic daily [CoCoRaHS](#) e-mail reminder is a service of the [Office of the New Jersey State Climatologist](#) at [Rutgers University](#).

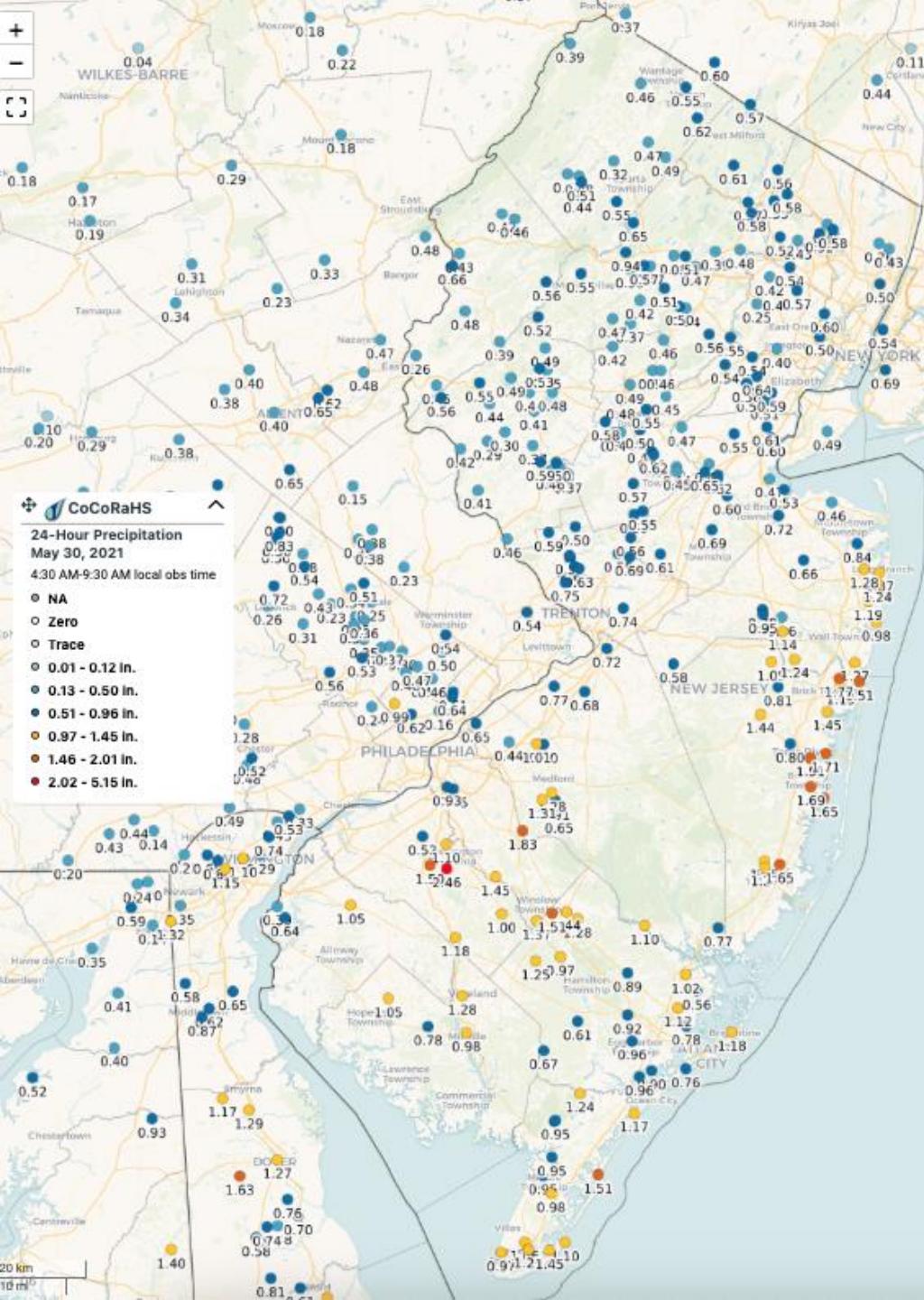
Do not reply to this e-mail, as it is an unmonitored mailbox.

For **QUESTIONS** or **COMMENTS** regarding the New Jersey CoCoRaHS network, please contact Mathieu Gerbush at  
[njcocorahs@geography.rutgers.edu](mailto:njcocorahs@geography.rutgers.edu).

To edit your subscription to this mailing list or to **UNSUBSCRIBE**, please visit <https://email.rutgers.edu/mailman/listinfo/cocorahsReminder>.

Typical reporting coverage  
following a statewide event

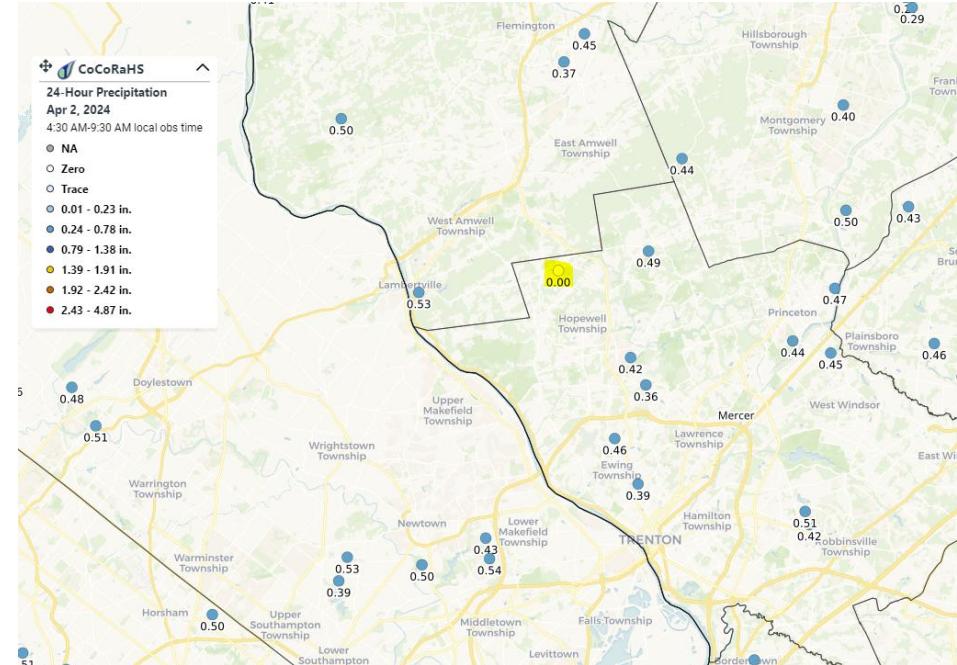
May 30, 2024



# Quality control efforts

1. Daily manual QC via maps and tables. Observers are contacted to confirm questionable reports. During widespread frozen events, several dozen volunteers are routinely contacted to confirm/clarify report entries.
2. Retrospective QC (prior months) performed using CoCoRaHS Error Check Assistant (CECA; thanks to Tony Bergantino, Wyoming State Climate Office!). CECA identifies possible errors and is especially helpful in catching errors from late-entered reports (much higher error rate!).

False Zero: Surrounding stations all have precipitation Incorrect/Multi-Day: Precip observed at station but all surrounding stations are 0.00"										
Error	Station	Precip	Obs Date	Entry Date	Nearby Stns	Map	QC Status	Stations Used		
Anomalously low At least 0.25" under surrounding	NJ-CM-45	0.60" 1.984 $\sigma$ low	02-Apr-2024	02-Apr-2024	Count=5 Avg=1.30 $\sigma=0.352$	<a href="#">Station</a>		NJ-CM-29 2.7mi 1.58" NJ-CM-34 3.6mi 1.80" NJ-CM-30 4.9mi 1.27" NJ-CM-53 7.7mi 0.94" NJ-CM-46 9.7mi 0.90"		
False Zero?	NJ-MC-27	0.00" 7.665 $\sigma$ low	02-Apr-2024	06-Apr-2024	Count=5 Avg=0.45 $\sigma=0.058$	<a href="#">Station</a>		NJ-MC-46 3.6mi 0.49" NJ-MC-62 4.4mi 0.42" NJ-HN-42 5.6mi 0.53" NJ-MC-49 5.7mi 0.36" NJ-SM-106 6.6mi 0.44"		
Anomalously low At least 0.25" under surrounding	NJ-BG-30	0.72" 6.430 $\sigma$ low	03-Apr-2024	03-Apr-2024	Count=5 Avg=1.36 $\sigma=0.099$	<a href="#">Station</a>		NJ-BG-23 0.7mi 1.33" NJ-PS-40 2.6mi 1.26" NJ-PS-22 3.3mi 1.25" NJ-MS-106 5.9mi 1.44" NJ-MS-12 6.2mi 1.50"		
Anomalously low At least 0.25" under surrounding	NJ-CM-45	0.20" 4.509 $\sigma$ low	03-Apr-2024	03-Apr-2024	Count=5 Avg=0.65 $\sigma=0.100$	<a href="#">Station</a>		NJ-CM-29 2.7mi 0.63" NJ-CM-34 3.6mi 0.60" NJ-CM-30 4.9mi 0.53" NJ-CM-64 7.2mi 0.83" NJ-CM-53 7.7mi 0.66"		
Anomalously low At least 0.25" under surrounding	NJ-MS-123	1.11" 3.193 $\sigma$ low	03-Apr-2024	03-Apr-2024	Count=5 Avg=1.57 $\sigma=0.145$	<a href="#">Station</a>		NJ-MS-82 2.7mi 1.54" NJ-MS-51 4.5mi 1.75" NJ-MS-42 4.5mi 1.73" NJ-MS-23 5.1mi 1.40" NJ-SM-104 5.9mi 1.44"		
Anomalously low	NJ-BG-30	0.90"	04-Apr-2024	04-Apr-2024	Count=5 Avg=1.54 $\sigma=0.145$	<a href="#">Station</a>		NJ-BG-23 0.7mi 1.54"		





**New Jersey  
CoCoRaHS  
*Certificate of Appreciation***



**RUTGERS**  
UNIVERSITY

*is hereby granted to:*

***Raymond C. Martin Jr***  
***NJ-MC-70***

*For Outstanding Service in 2023 as a Volunteer Weather Observer*

David A. Robinson

Dr. David A. Robinson  
NJ State Climatologist  
NJ CoCoRaHS Co-Coordinator

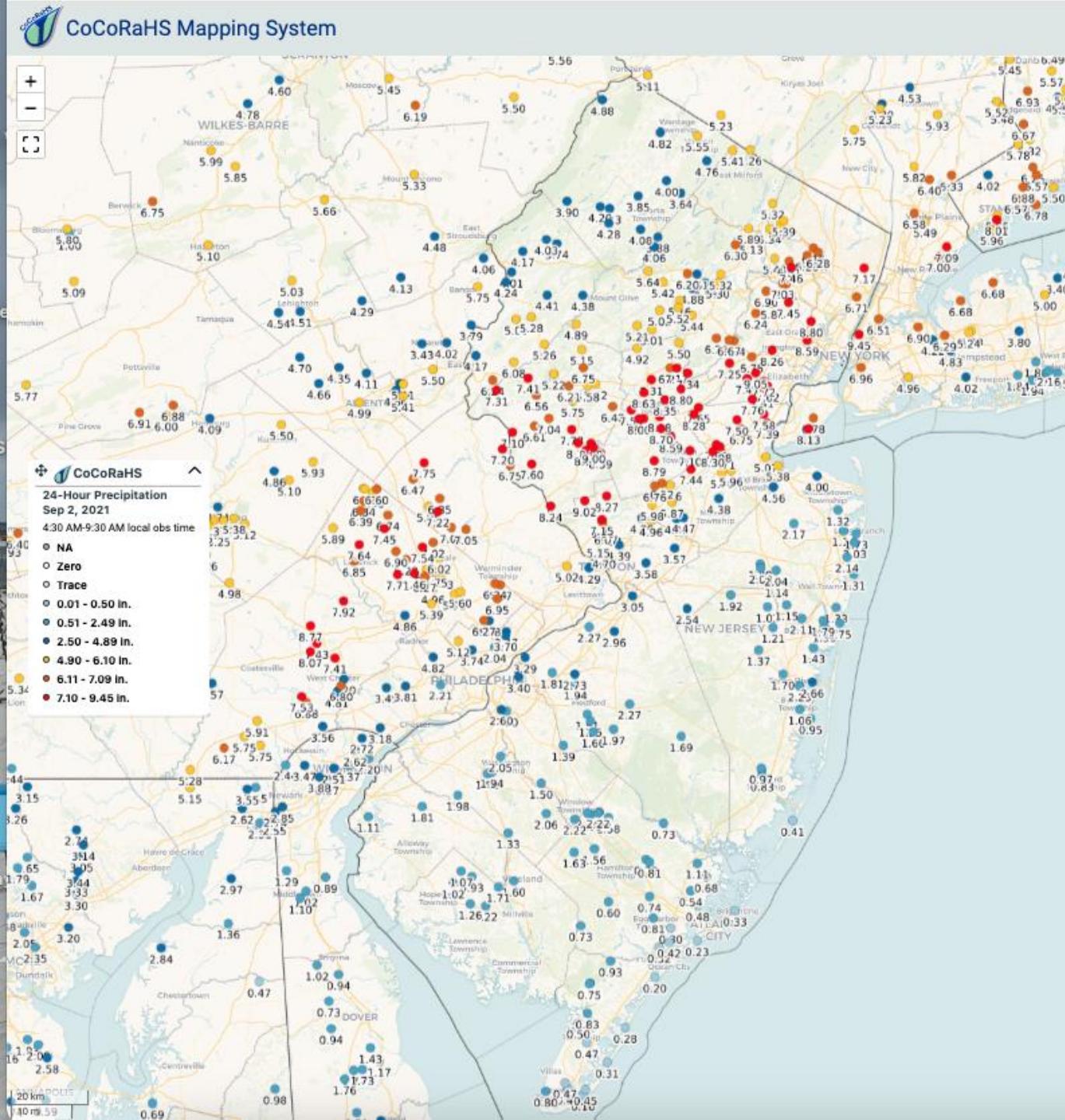
Mathieu R. Gerbush

Mr. Mathieu R. Gerbush  
NJ Assistant State Climatologist  
NJ CoCoRaHS Co-Coordinator

**Sent to those with 7 days or fewer missing (includes counts for multi-day reports)**  
**136 Observers in 2023**

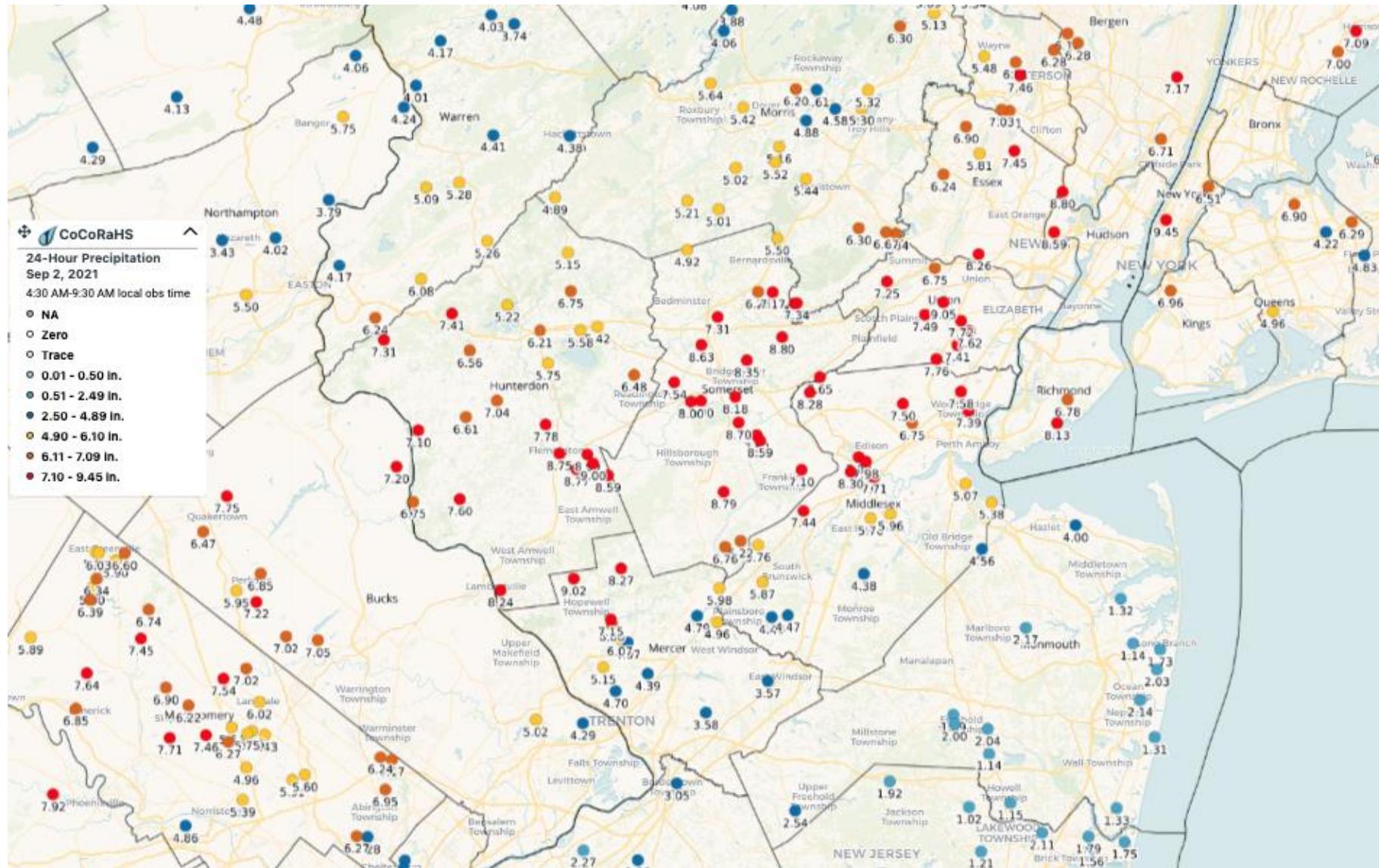
## Examples of the utility of CoCoRaHS observations

1. Support for FEMA disaster declarations: snow removal; landslide
2. Weekly reports to the US Dept. of Agriculture's National Agricultural Statistics Service
3. Snow event reports
4. Flood threats: snow water equivalent
5. Multitude of precipitation requests
6. Supplement Rutgers NJ Weather Network and NWS Coop observations
7. Record annual precipitation for a NJ location:  
2011: 90.65" West Milford (first CoCo station to be so recognized)
8. Drought  
US Drought Monitor  
New Jersey Dept. Environmental Protection drought committee



Ida daily reports  
September 2, 2021

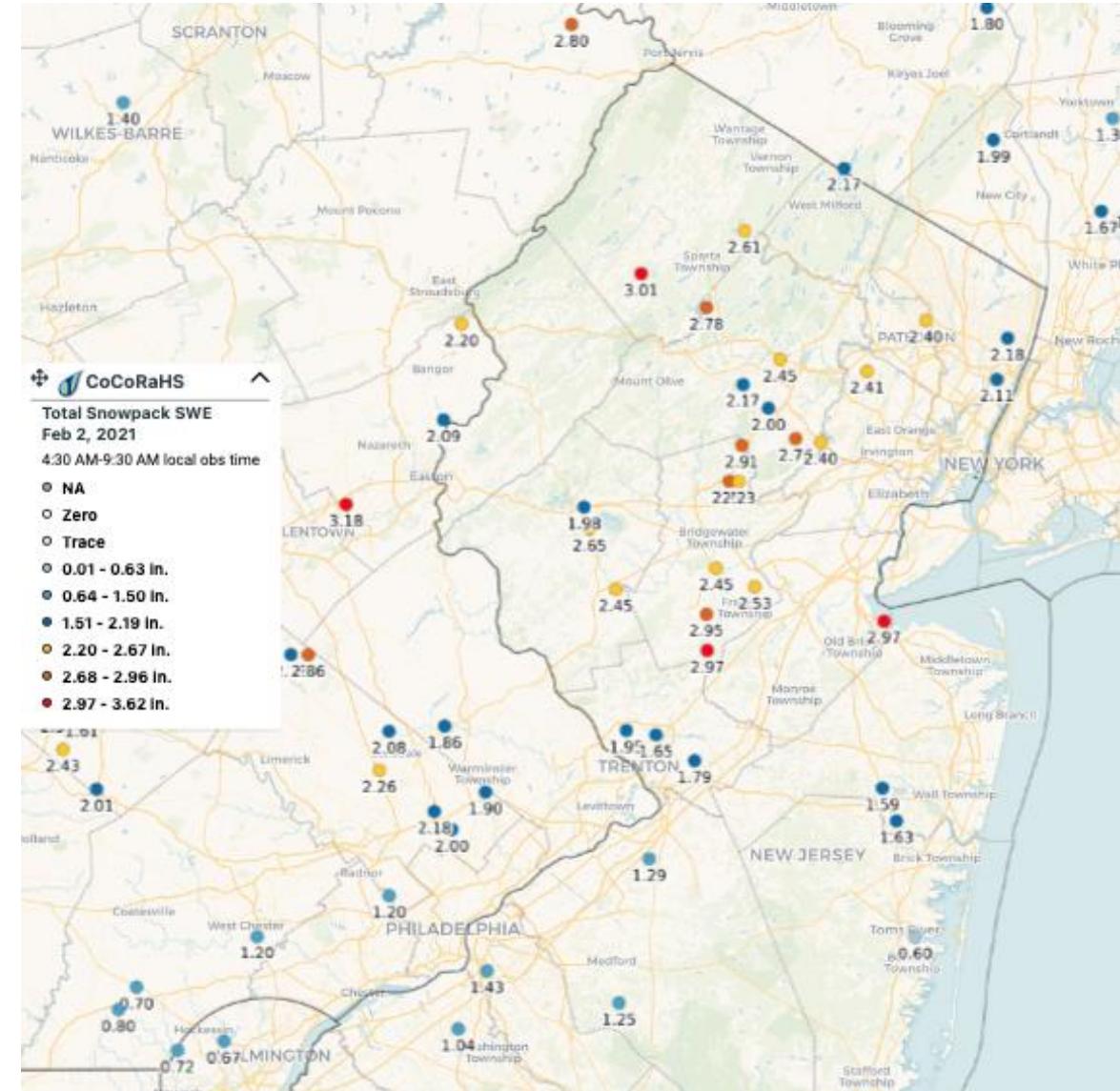
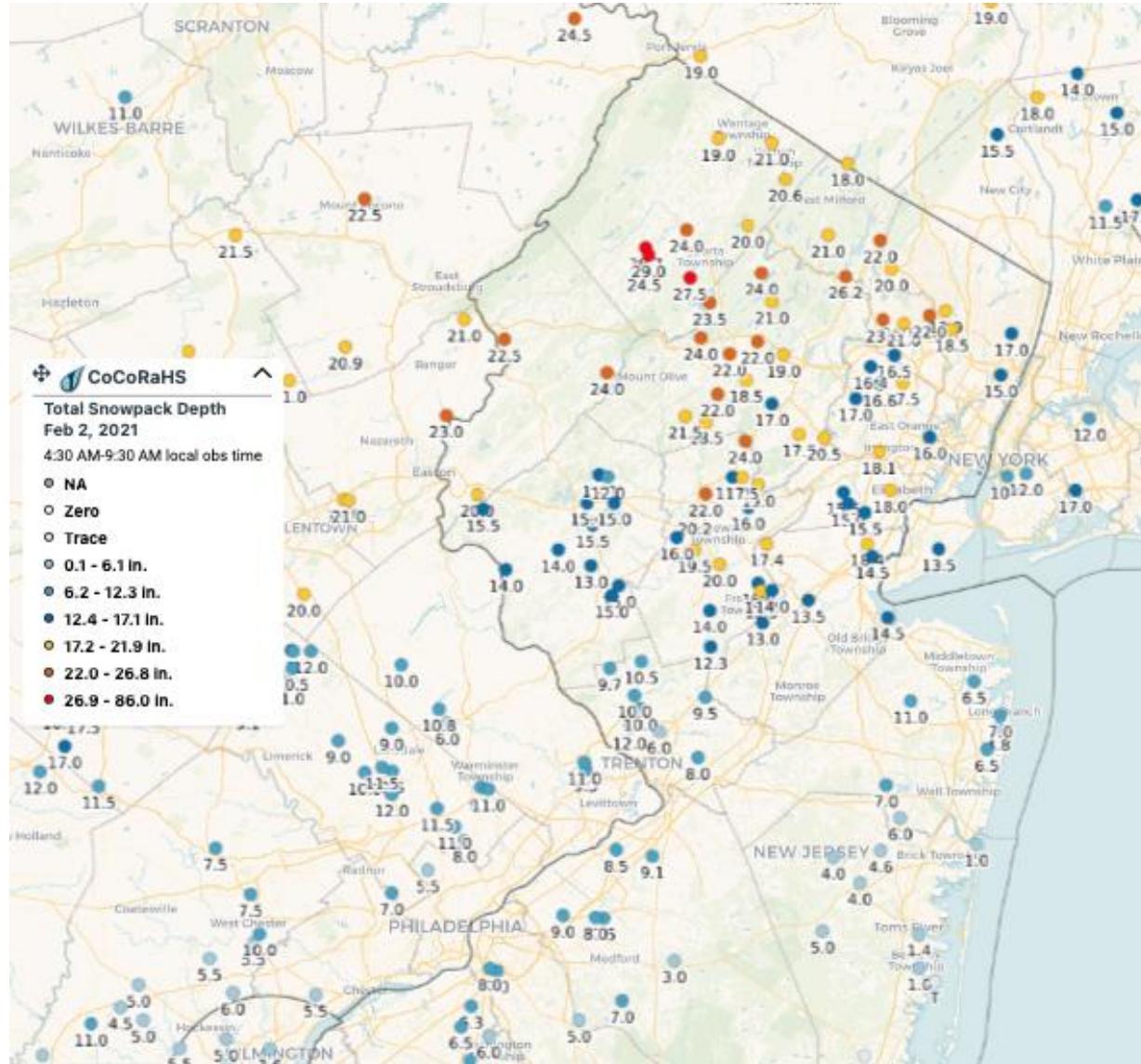
## Zeroing in on Ida's heaviest: two months of rain in less than a day



# Pack Depth: February 2, 2021

# Snow

# Pack SWE: February 2, 2021



Thanks

- to our incredible citizen scientists
- to our student interns
- to CoCo Central