

NJ Community Collaborative Rain, Hail and Snow Network

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NJ State Climatologist &
Co-CoCoRaHS Coordinator

NJ Agricultural Experiment Station
School of Environmental & Biological Sciences
Rutgers University

March 10, 2009



“Because every drop counts!”

Office of the NJ State Climatologist

Our mission:
Monitor
Understand
Inform

ONJSC
at Rutgers University

Office of the New Jersey State Climatologist · Rutgers University · 54 Joyce Kilmer Avenue · Eley Stone Hall B224 · Piscataway, NJ 08854

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Latest from the NJWxNet

Frequently Updated Climate Data

- [Monthly and Annual Statewide \(1895-Present\)](#)
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- [Winter 2008-2009 Snow Event Totals](#)

Latest News

Damage from high winds on February 12th in Hopewell, NJ

A Record Dry Driest Month and an Average Winter: February 2009 and Winter Overview

Dr. David A. Robinson
NJ State Climatologist
March 4, 2009

A preliminary assessment of precipitation averaged across the Garden State finds February 2009 to be the driest February since records commenced in 1895. An impressive "performance", given that climatologically, February is the driest month of the year. It

CoCoRaHS Welcomes New Jersey

<http://climate.rutgers.edu/stateclim>

What Is CoCoRaHS??

“CoCoRaHS is a grassroots, non-profit, community-based, high-density precipitation network



made up of volunteers of all backgrounds and ages . . .



. . . who take daily measurements of “just precipitation” right in their own backyards”



CoCoRaHS

Snow Net.

Just Precipitation!



**Once trained, our
volunteers collect data
using low-cost
measurement tools**




4-inch diameter
high-capacity rain gauges



Snow-measuring ruler and
snow board



Volunteers report their daily observations on our interactive website: www.cocorahs.org



COMMUNITY COLLABORATIVE RAIN, HAIL & SNOW NETWORK
"Because every drop counts"

[Home](#) | [States](#) | [View Data](#) | [Maps](#) [My Data Entry](#) | [Login](#)

Welcome to CoCoRaHS! "Volunteers working together to measure precipitation across the nation."

Main Menu

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- [About Us](#)
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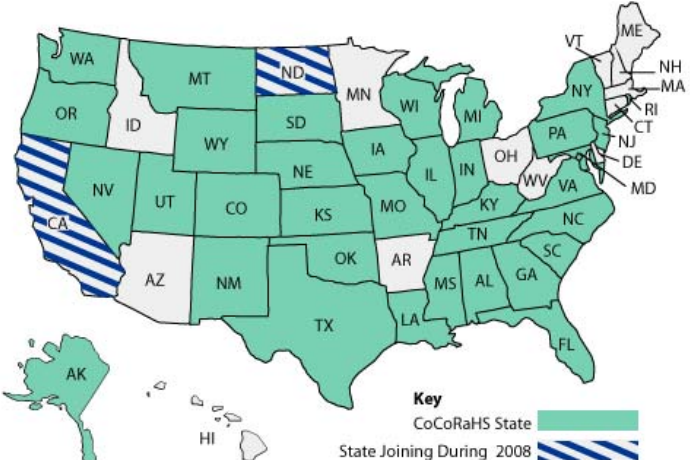
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Key
 CoCoRaHS State
 State Joining During 2008






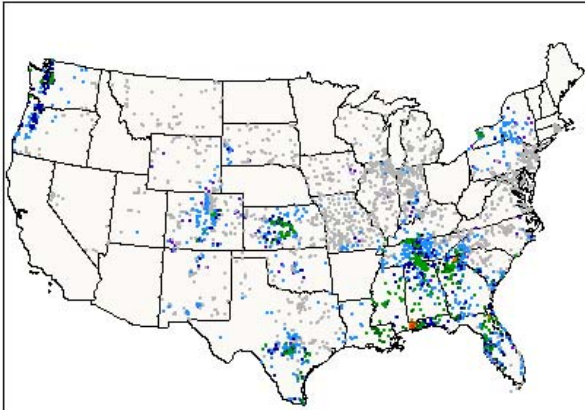
Things to know about...


Rain


Hail


Snow

Daily Precipitation
(inches x.xx)
USA
8/25/2008



0.0
Trace
0.00 - 0.35
0.36 - 0.71
0.72 - 1.76
1.77 - 4.23
4.24 - 6.35
6.36 - 7.05

weatherwise

Read the
"CoCoRaHS Article"
 and find out more about
 Weatherwise Magazine

CoCoRaHS WELCOMES

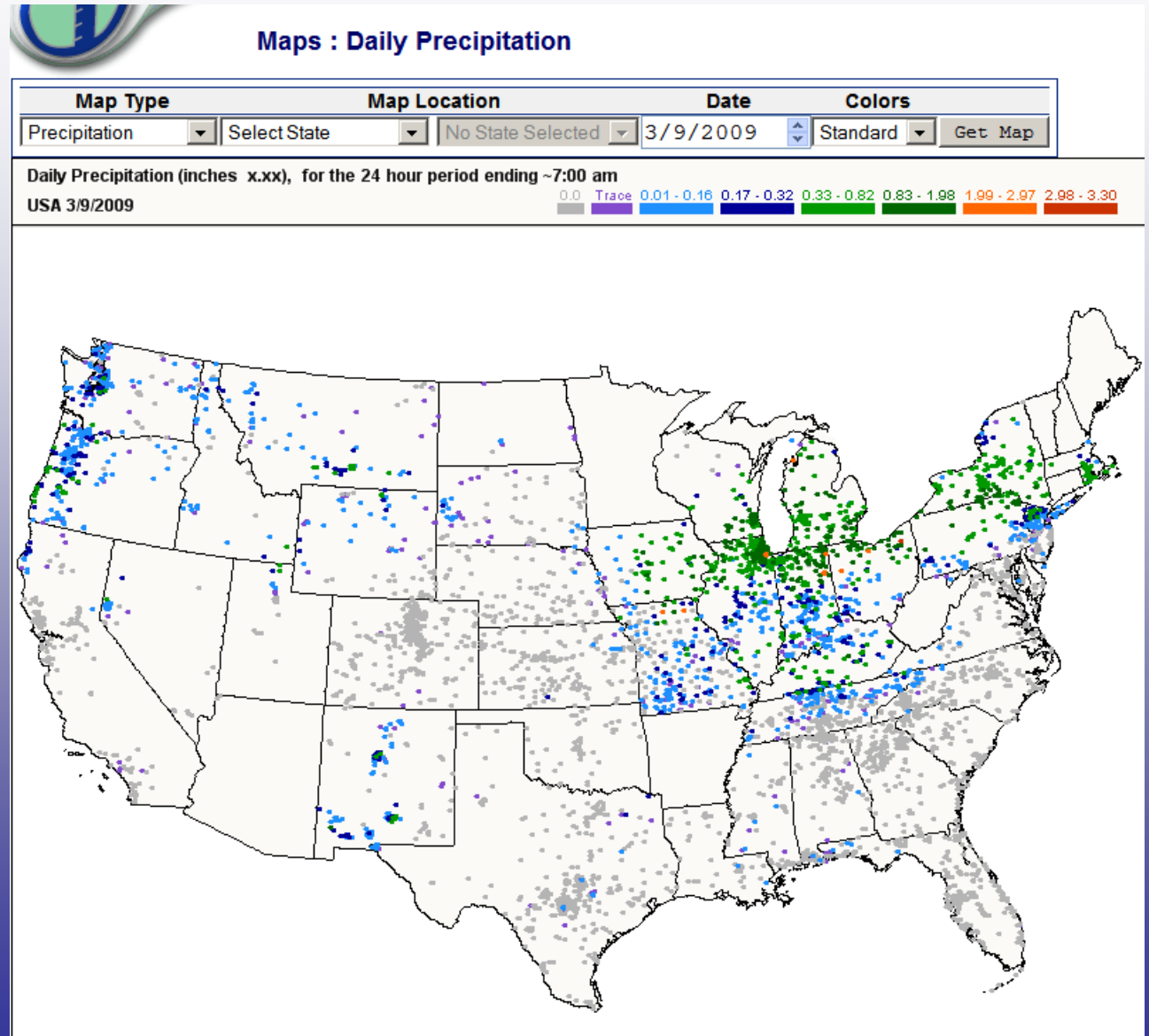
Purchase an official
 CoCoRaHS 4" Rain Gauge

"The official CoCoRaHS"



FIND OUT MORE ABOUT
NOAA PRODUCTS

CoCoRaHS around the country

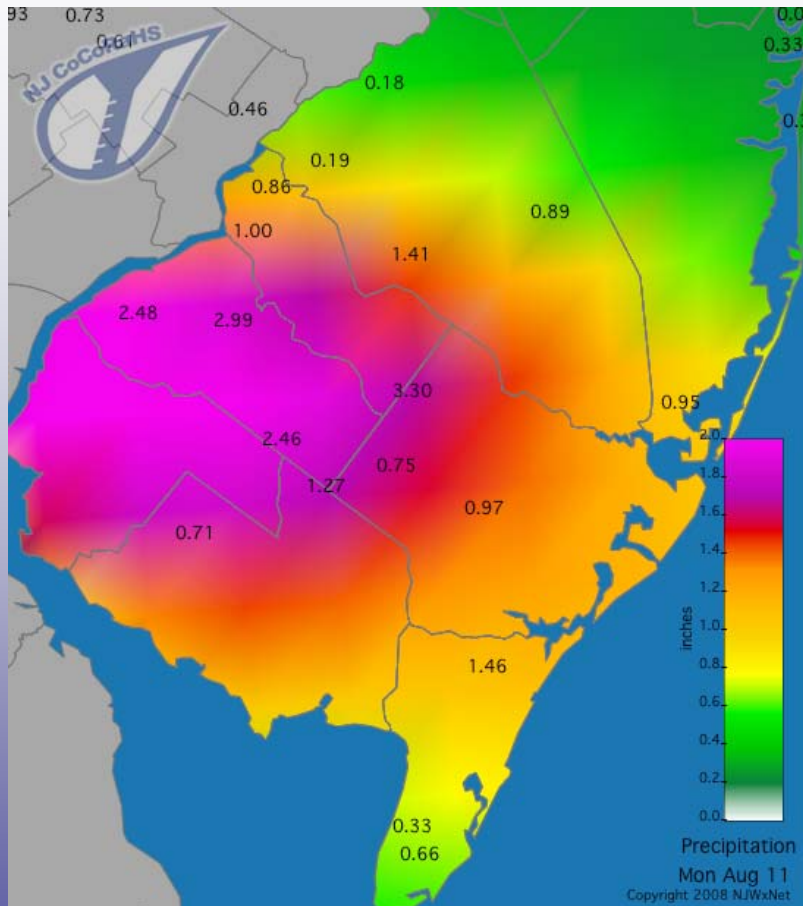


Over 12,000 volunteers

CoCoRaHS's main focus is to provide:



precipitation data . . .



Daily precipitation maps:
Rainfall, Hail and Snowfall

Date	Time	Station Number	Station Name	Total Precip .ins	New Snow .in	Total Snow .in	State	County	View
8/11/2008	6:00 AM	NJ-GL-7	Washington Twp 1.5 N	3.76	0.0	NA	NJ	Gloucester	
8/11/2008	8:00 AM	NJ-AT-5	Hammonton 3.3 WSW	3.30	0.0	NA	NJ	Atlantic	
8/11/2008	7:00 AM	NJ-GL-4	Mantua Twp 1.5 E	2.99	0.0	NA	NJ	Gloucester	
8/11/2008	7:00 AM	NJ-GL-1	Pitman 0.1 W	2.84	0.0	NA	NJ	Gloucester	
8/11/2008	7:00 AM	NJ-GL-2	Swedesboro 2.4 N	2.48	0.0	NA	NJ	Gloucester	
8/11/2008	7:00 AM	NJ-GL-6	Franklin Twp 2.7 W	2.46	0.0	NA	NJ	Gloucester	
8/11/2008	7:00 AM	NJ-CM-6	Upper Twp 0.4 SSW	1.46	0.0	NA	NJ	Cape May	
8/11/2008	7:00 AM	NJ-CD-2	Vineland 3.5 NW	1.46	0.0	NA	NJ	Cumberland	
8/11/2008	7:00 AM	NJ-BT-5	Medford Twp 2.4 SSE	1.41	0.0	NA	NJ	Burlington	
8/11/2008	6:00 AM	NJ-GL-5	Franklin Twp 4.4 SE	1.27	0.0	NA	NJ	Gloucester	
8/11/2008	8:00 AM	NJ-CN-3	Audubon 0.5 W	1.00	0.0	NA	NJ	Camden	
8/11/2008	8:00 AM	NJ-AT-3	Hamilton Twp 2.1 SE	0.97	0.0	NA	NJ	Atlantic	
8/11/2008	7:00 AM	NJ-OC-4	Little Egg Harbor Twp 0.4 SSW	0.95	0.0	NA	NJ	Ocean	
8/11/2008	8:00 AM	NJ-AT-2	Folsom 3.2 SE	0.94	0.0	NA	NJ	Atlantic	
8/11/2008	7:00 AM	NJ-BT-2	Woodland Twp 2.7 NW	0.89	0.0	NA	NJ	Burlington	
8/11/2008	7:00 AM	NJ-CN-1	Merchantville 0.5 ESE	0.86	0.0	NA	NJ	Camden	
8/11/2008	7:00 AM	NJ-AT-1	Buena Vista Twp 2.6 NNE	0.75	0.0	NA	NJ	Atlantic	
8/11/2008	6:45 AM	NJ-CD-1	Bridgeton 3.3 N	0.71	0.0	NA	NJ	Cumberland	
8/11/2008	7:00 AM	NJ-CM-4	Lower Twp 2.2 NE	0.66	0.0	NA	NJ	Cape May	
8/11/2008	7:00 AM	NJ-HN-2	Stockton 4.4 NW	0.38	0.0	NA	NJ	Hunterdon	
8/11/2008	7:00 AM	NJ-OC-7	Lavallette 0.4 S	0.38	0.0	NA	NJ	Ocean	
8/11/2008	6:00 AM	NJ-HN-10	Flemington 2.3 E	0.37	0.0	NA	NJ	Hunterdon	
8/11/2008	7:00 AM	NJ-HN-9	Franklin Twp 0.4 W	0.36	0.0	NA	NJ	Hunterdon	

Daily data
in table form

... as well as educational opportunities



THE GAUGE
The CoCoRaHS Network Newsletter

Volume 1, Issue 1 October 2001

www.cocorahs.org

THE GAUGE
CoCoRaHS Network
C/O National Science Foundation
4201 Longwood Avenue
Reston, VA 20191
Phone: (703) 411-1115

INSIDER
Home Page - Sign Up!

Inside This Issue:

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The CoCoRaHS Network is funded by the National Science Foundation and CoCoRaHS Chapter Sponsors.

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"Because every drop counts!"

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Hail Pad Examples

Rain Drops



Soft Hail Stones



Small Hail Stones



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TRAINING SLIDE-SHOW



COMMUNITY COLLABORATIVE RAIN, HAIL & SNOW NETWORK
"Because every drop counts!"

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My Data Entry : View Daily Precipitation Report

Message of the Day:

Don't forget to remove the funnel and inner tube from your rain gauge if freezing weather is expected.

We realize that many of you have had to reenter your login information to get into our system recently. Apparently the server configuration changed which caused a change in our cookies, which caused your saved login information to be lost. We apologize for the inconvenience and would like to thank everyone for the patience.

Now would be a good time to print out and save your login information in case this ever happens again. You can always save your user name and password sent to your e-mail address by clicking on the "Find your login info" link on the Login page.

Thanks

Confirmation:

- The Daily Precipitation Report was saved.

Daily Precipitation Report

Station Number: CO-LR-810 Station Name: Park Creek 2.8 SW

Observation Date: 1/27/2006 7:30 AM

Submitted: 1/27/2006 9:43 AM

Total Precip Amount: 0.00 inches

Things to know about...

Rain

- Overview
- Weather Radar
- Measuring Rain

Hail

- Overview
- Hail Facts
- Hail Figures
- CoCoRaHS & Hail
- Hail Pad Examples
- Measuring Hail

Snow

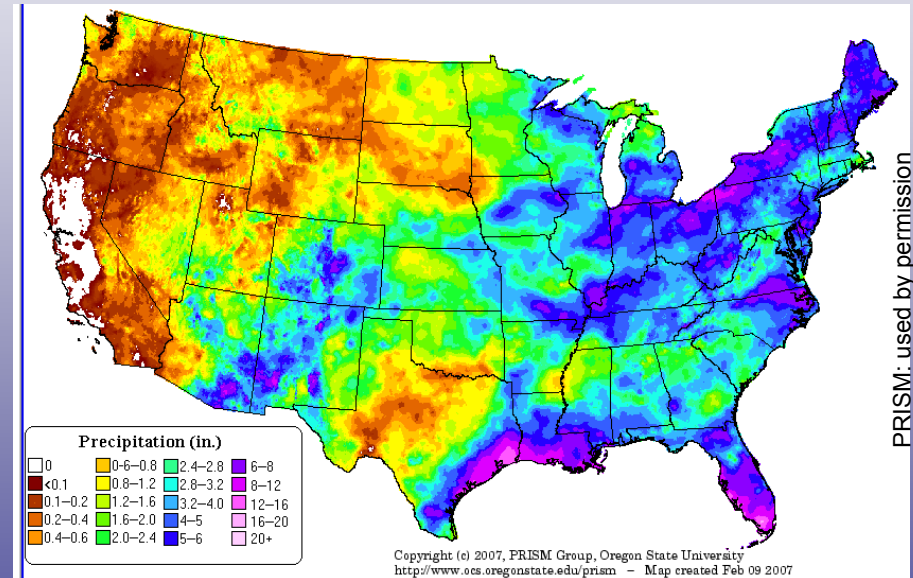
- Overview
- Measuring Snow

"HELPING TO PROVIDE THE PUBLIC WITH A BETTER UNDERSTANDING OF WEATHER"

Why CoCoRaHS ??



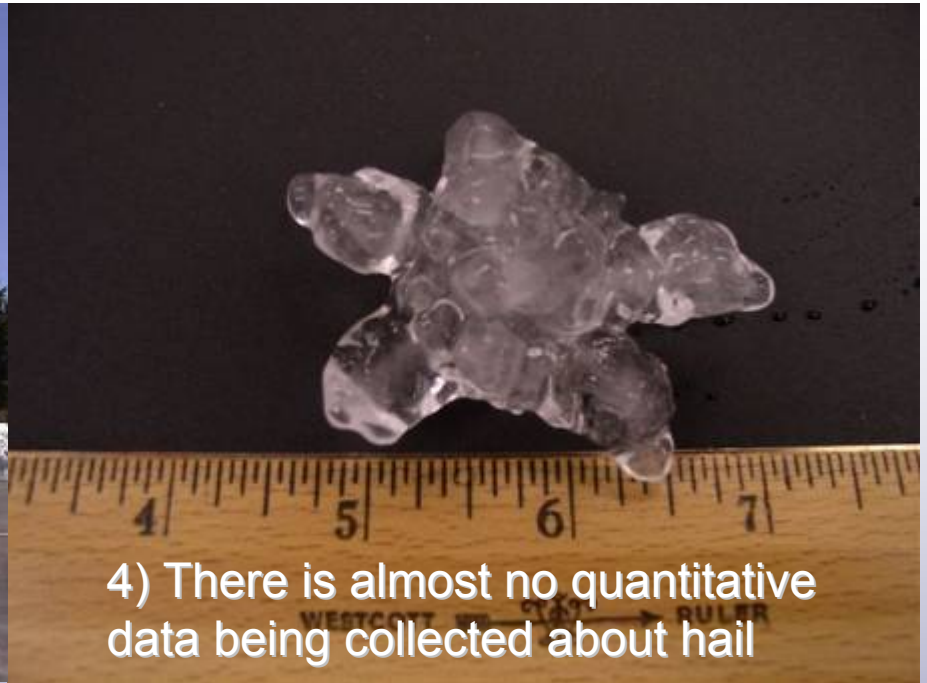
1) Precipitation is important and highly variable



2) Data sources are few and rain gauges are far apart



3) Measurements from many sources are not always accurate (especially snow)



4) There is almost no quantitative data being collected about hail

5) Storm reports can save lives

STORM TOLL
Deaths - 5 confirmed
Injuries - 40
Missing - 16
Rescued - 160
Damages - Tens of millions of dollars at Colorado State University, \$1.5 million to \$2 million to city roads and bridges; \$1 million to city parks and trails; no estimate for private property.

Wednesday
FORT COLLINS COLORADOAN

City death toll at 5; damage in millions

July 30th 1997

CSU's book losses speak volumes

Rainfall breaks 20-year record

A collage of images illustrating the impact of the storm. It includes a newspaper clipping from the Fort Collins Coloradoan dated Wednesday, July 30th, 1997, with the headline 'City death toll at 5; damage in millions'. The clipping lists a storm toll: 5 confirmed deaths, 40 injuries, 16 missing, and 160 rescued. It also mentions damages of tens of millions of dollars at Colorado State University and millions for city infrastructure. Other images in the collage show a flooded street at night with a car, a building on fire at night, and a person in a boat in floodwaters.

Why are CoCoRaHS and precipitation observations important to New Jersey?



New Jersey factoids



- 7417 sq. miles
- 88% water boundary
- 8.7 million residents
- Most densely populated
- 200,000 deer
- Most densely populated?

Augmentation of the hourly, automated NJ Weather & Climate Network

The screenshot shows the NJ Weather & Climate Network website. At the top left is the logo for NJ Weather Climate & Network, and at the top right is the Rutgers New Jersey Agricultural Experiment Station logo. The main content area is divided into several sections:

- NJWXNET**: Home, myWxnet
- TABULAR DATA**: Network Hourly, Network Daily, Station Hourly, Station Daily
- MAPS & IMAGERY**: NJ Statewide (Current Maps, Daily Maps, Animated), NJ Regional (Current Maps, Animated), Mid-Atlantic (Current, Animated)
- CHARTS & GRAPHS**: 24 Hour Charts, Climatologies
- METADATA**: Station Locations, Webcam Locations
- FAST LINKS**: NWS NJ Forecast, NWS US Forecast, State Climate Office, Center Envi. Prediction, Ag. Expert. Station, School Envi. Bio. Sci., Contact Us

The central feature is the **Current Conditions** section, which includes a color-coded temperature map of New Jersey. The map shows temperatures ranging from approximately 40°F in the north to 60°F in the south. A color scale on the right indicates temperatures from -40 to 120 degrees Fahrenheit. Below the map is a caption: "The image above is the latest color-filled interpolated temperature map generated by the NWSnet. To view more maps, click [here](#). For a mid-Atlantic temperature map, click [here](#)."

To the right of the map are two tables:

- NJ Hot Spots**:

City, State	Temp
Maurice Township 2, NJ	62
Cape May	61
Courthouse, NJ	61
Woodbine, NJ	61
Dennis Twp., NJ	60
Lower Township, NJ	60
- NJ Cool Spots**:

City, State	Temp
High Pt. Monument, NJ	39
High Point, NJ	41
Harvey Cedars, NJ	42
Haworth, NJ	43
Sea Girt, NJ	43

Below these tables is a note: "most current information as of Mon Mar 09 03:00 PM EDT Copyright 2004 NWSnet".

Other sections include **Customize** (with a ZIP code input field and a "GO" button), **Feedback** (with a form for user input and a "Send Feedback Now" link), **Latest News** (with a link to "Join the NJ CoCoRaHS Program"), and **Interactive Products** (with a link to "One of the great new features of this latest version of the New Jersey Weather and Climate network is our new location-specific 'myWxnet' page." and a small image of a weather interface).

<http://climate.rutgers.edu/njwxnet>

Monitoring our precious water resources!



Hackensack River, April 2007



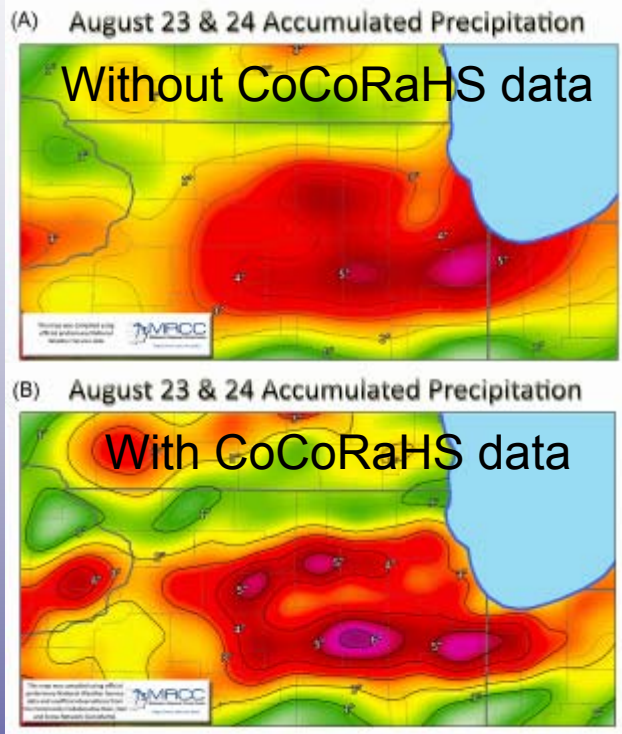
Spruce Run Reservoir, March 2002

Precipitation is very important



Friedrich Toms

Data sources are few in some places and rain gauges can even be far apart in New Jersey

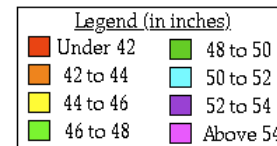


“With more observers it’s like taking a photo with more pixels . . . the end result is a much clearer picture”

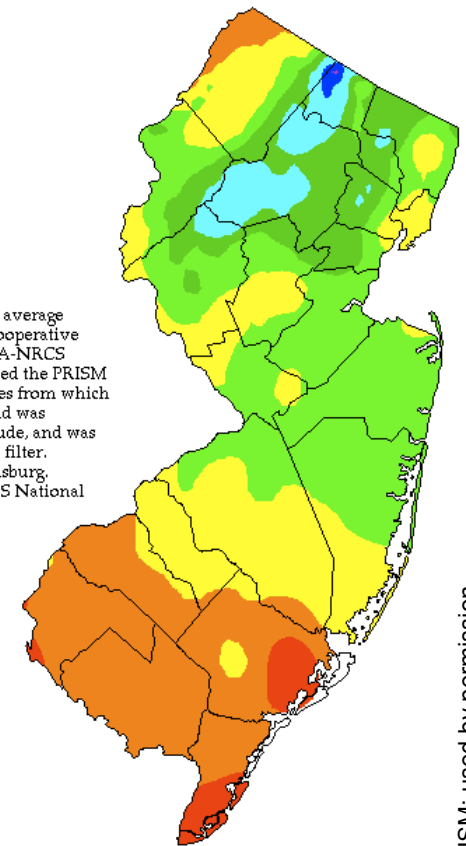
Average Annual Precipitation

New Jersey

This map is a plot of 1961-1990 annual average precipitation contours from NOAA Cooperative stations and (where appropriate) USDA-NRCS SNOTEL stations. Christopher Daly used the PRISM model to generate the gridded estimates from which this map was derived; the modeled grid was approximately 4x4 km latitude/longitude, and was resampled to 2x2 km using a Gaussian filter. Mapping was performed by Jenny Weisburg. Funding was provided by USDA-NRCS National Water and Climate Center.



Period: 1961-1990



12/8/97

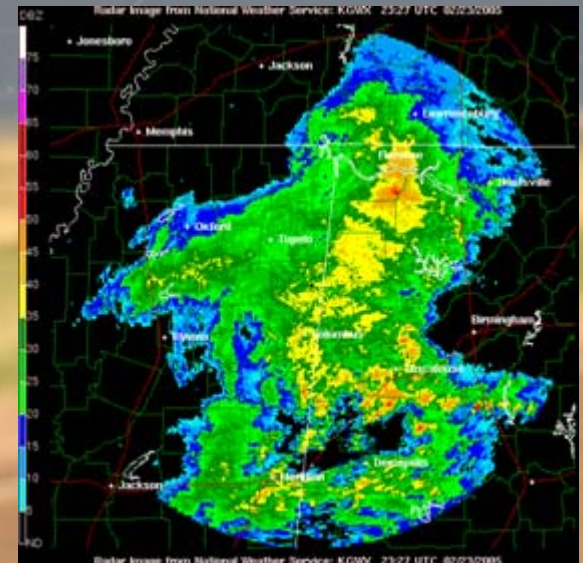
PRISM: used by permission

Measurements from many sources are not always accurate (especially snow)



CoCoRaHS data are used by many

- National Weather Service
- Other Meteorologists
- Hydrologists
- Emergency Managers
- City Utilities
 - Water supply
 - Water conservation
 - Storm water
- Insurance adjusters
- USDA—Crop production
- Engineers
- Scientists studying storms
- Mosquito control
- Farm Service Agency
- Ranchers and Farmers
- Outdoor & Recreation
- Teachers and Students
 - Geoscience education tool
 - Taking measurements
 - Analyzing data
 - Organizing results
 - Conducting research
 - Helping the community



Who Sponsors CoCoRaHS?

New Jersey Agricultural Experiment Station (Rutgers Univ.)

The National Oceanic and Atmospheric Administration

Colorado State University and other universities

USDA, BLM, Cooperative Extension

US Bureau of Reclamation

National Weather Service Local Offices

Individual Contributors

As well as many others

SECTION ONE:

Observer Information

In this section we will:

a) Explain what we will need from you before you become an observer

b) Explain what you will need before you can participate

CoCoRaHS

a) What *we will need from you*
before you can participate as an
observer:

CoCoRaHS

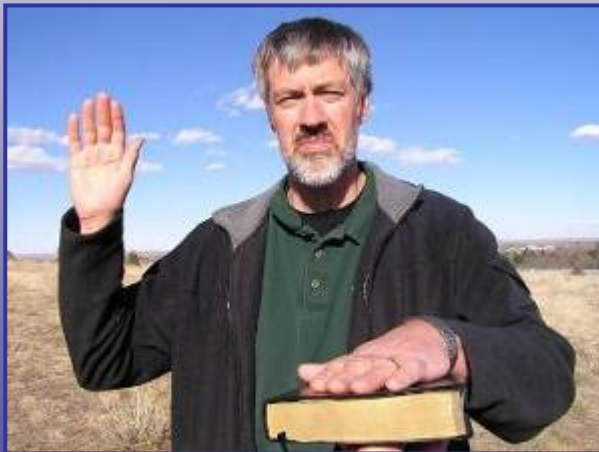
& Snow Network



A completed application form (on-line or paper)



Your location – so we can produce accurate maps. Just having your address may not be good enough. We have to pinpoint it just as close as we can.



Your commitment to collect accurate scientific data

Your willingness to receive CoCoRaHS e-mails

(spam blocking off)



nicocorahs@climate.rutgers.edu
info@cocorahs.org
cocorahsqc@msn.com
nolan@atmos.colostate.edu

**b) What you will need before
you can participate as an observer**

CoCoRaHS

& Snow Network



#1

A sincere desire to help study and learn about storms



#2

Training

(in person or on-line)



#3

A unique station number and name
(we will assign you one)



Station Number : CO-LR-368

Station Name : FCL 3.4 SW

CoCoRaHS

Snow Net



#4

A CoCoRaHS “4-inch” rain gauge installed in a good location

#5

A username and password to enter data

The screenshot shows the CoCoRaHS website's login interface. At the top, the logo and text "COMMUNITY COLLABORATIVE RAIN, HAIL & SNOW NETWORK" are visible. Below the navigation bar, there is a "Login" section with a "Log In:" label. It contains two input fields: "UserName" with the text "username" and "Password" with "*****". There is a "Save Login" checkbox and a "Log In" button. Below the login fields, there are two links: "Find your login info." and "Apply to be a Cocorahs observer." The left sidebar contains a "Main Menu" with links for Home, About Us, Join CoCoRaHS, and Contact Us, and a "Resources" section with links for FAQ/Help, Education, Volunteer Coordinators, Mail List, Contributions/Donor, Help Needed, and Broken Links.

#6

Computer with an internet connection



The ability to gather accurate data and transmit it in a timely fashion

CoCoRaHS

Snow Net

SECTION TWO:

Setting Up Your Equipment and Observing Precipitation

In this section we will:

- a) Show how/where to place your rain gauge***
- b) Explain how to measure rainfall***
- c) Describe how to measure snow***

CoCoRaHS

The logo for CoCoRaHS (Coastal Community Observers of Rain and Snow) is located in the bottom right corner. It features the text "CoCoRaHS" in a bold, blue, sans-serif font, slanted upwards. Below the text is a stylized graphic of a rain gauge, also in blue, with a white interior and a grey rim. The background of the slide is a gradient from light blue at the top to dark blue at the bottom.

I have an automated weather station with a rain gauge. Can I use that instead of the CoCoRaHS gauge?

Answer: In order to accurately compare CoCoRaHS reports, all observers must use the 4 inch CoCoRaHS gauge. Automated rain gauges tend to underestimate a heavy rainfall and do not accurately measure water equivalent of snow. You are welcome to place the automated gauge beside the 4 inch gauge to compare measurements, but report what falls in the 4 inch gauge



a) Placement of your rain gauge



**Location! Location!
Location!**

CoCoRaHS

Places not to place your gauge



Under trees or
any structure

Although convenient, the deck is
still too close to the house



The #1 all time worst place to
put your rain gauge is to
leave it in the box!

Height above the ground

In open areas place the gauge top approx. 2 feet off the ground

This is to improve gauge catch by reducing wind speed



In developed areas place the gauge top approx. 5 feet off the ground

This is to improve gauge catch by reducing the impact of nearby obstacles



Level and Bevel

Make sure your gauge is level and place the gauge top approx. 5 feet off the ground



Bevel the top of the post to reduce rain splashing into the gauge

b) Measuring Rainfall



CoCoRaHS

& Snow Network

When should we read our gauges?



7:00AM is preferred

Between 5:00AM and 9:00AM is OK

Other times are accepted, but they will not appear on CoCoRaHS Maps

Reading your rain gauge

- Reading the rain gauge is easy but accuracy & consistency are important
- Here are the most common situations you may encounter when reading your gauge



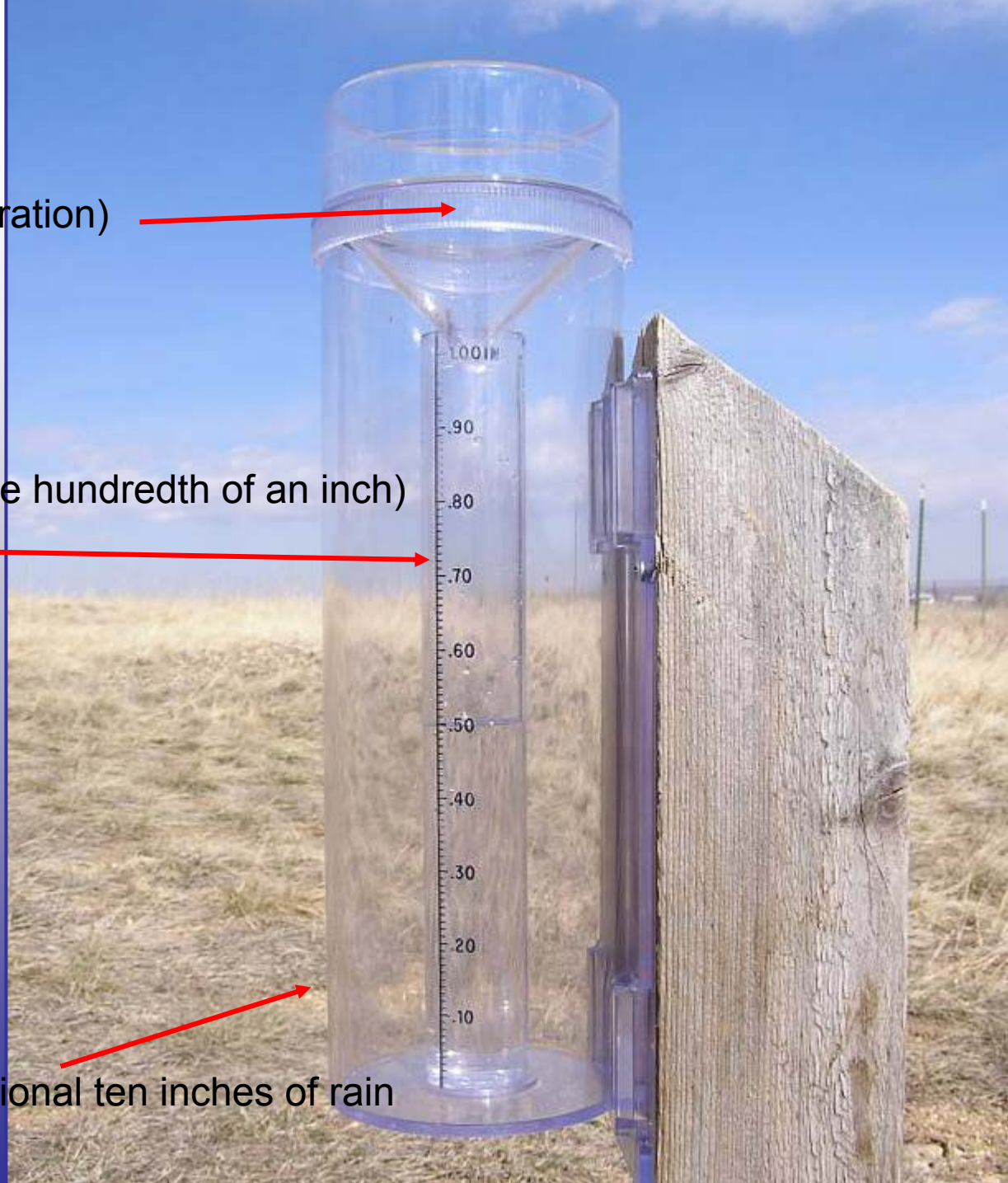
Funnel (helps prevent evaporation)



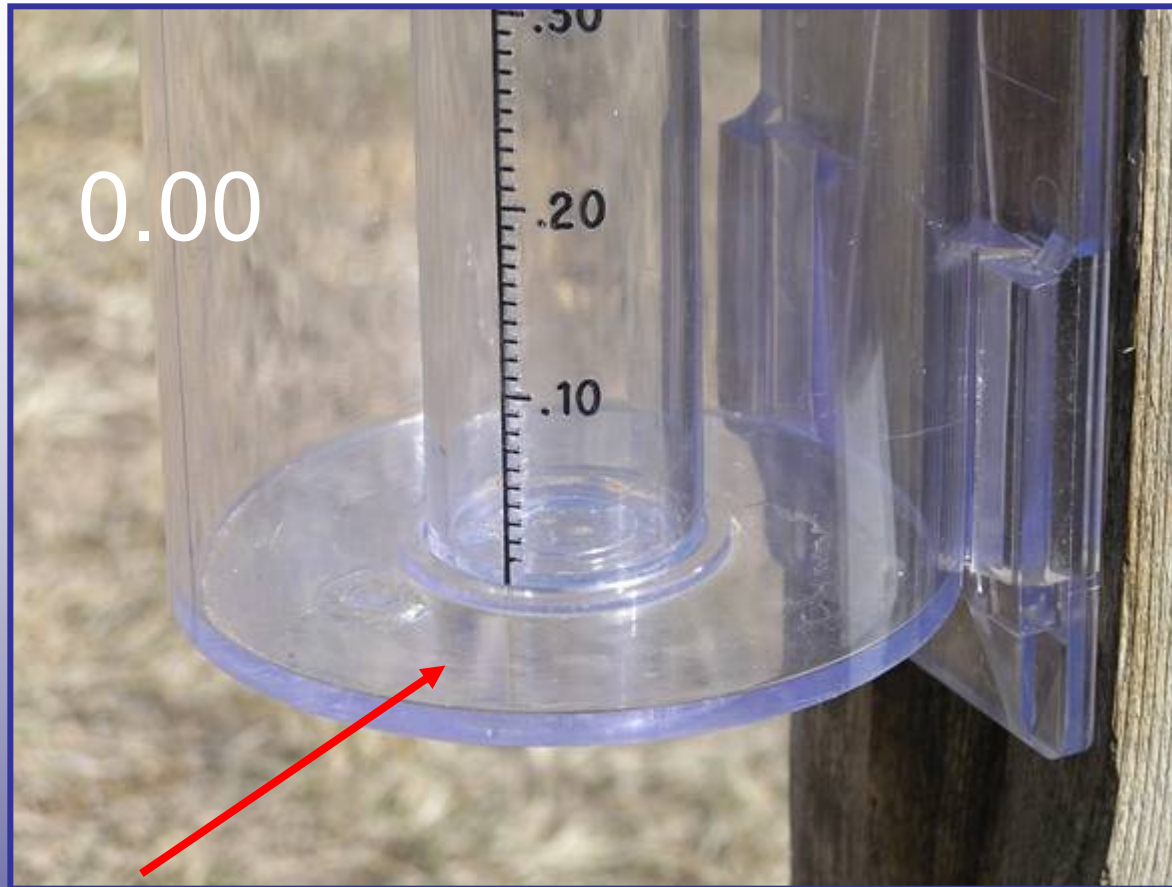
Inner Tube (measures to the hundredth of an inch)
– holds one inch of rain.



Outer Tube – holds an additional ten inches of rain



Your most common observation

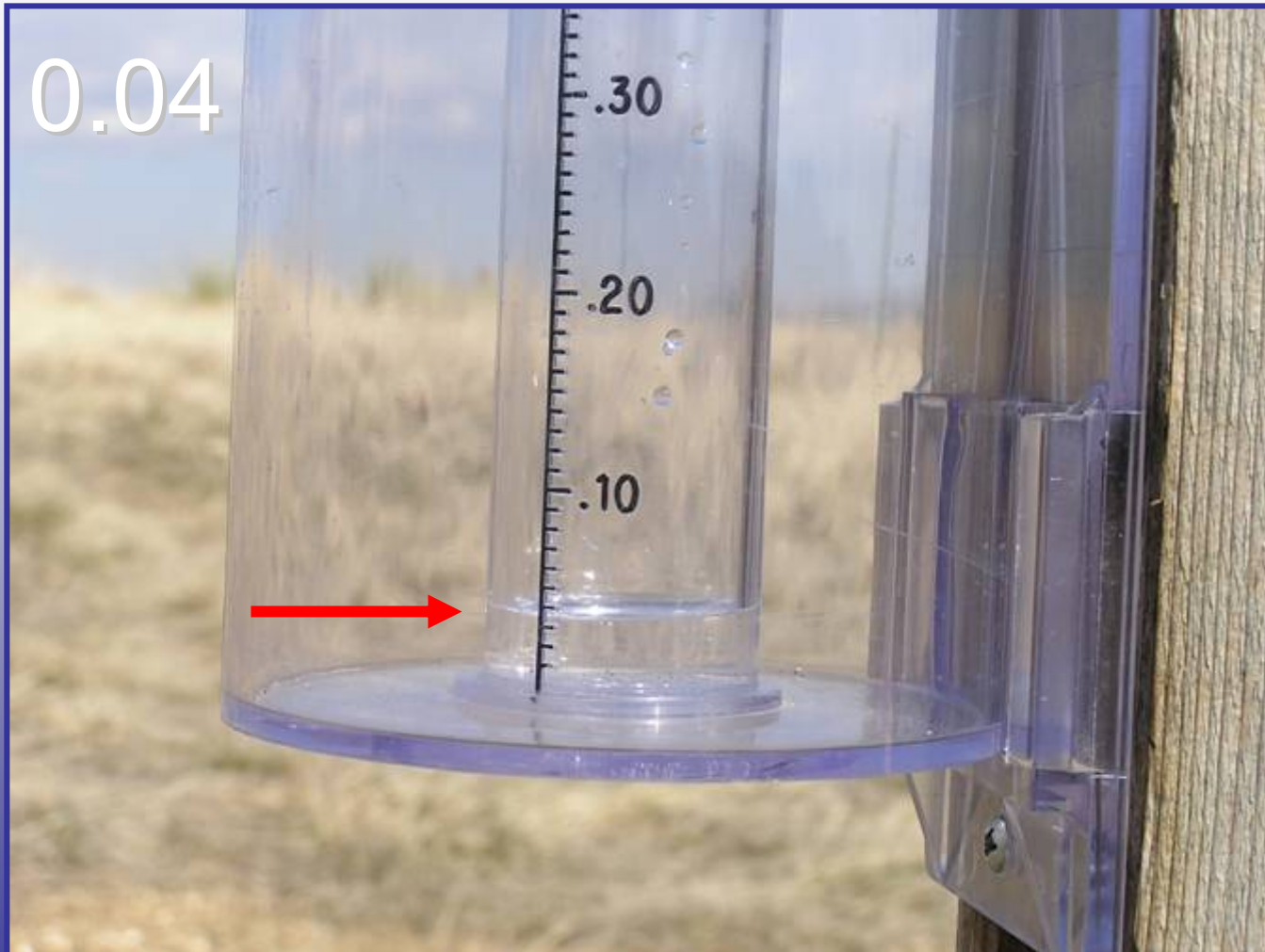


... will be zero, (0.00), nada, nothing, zilch!

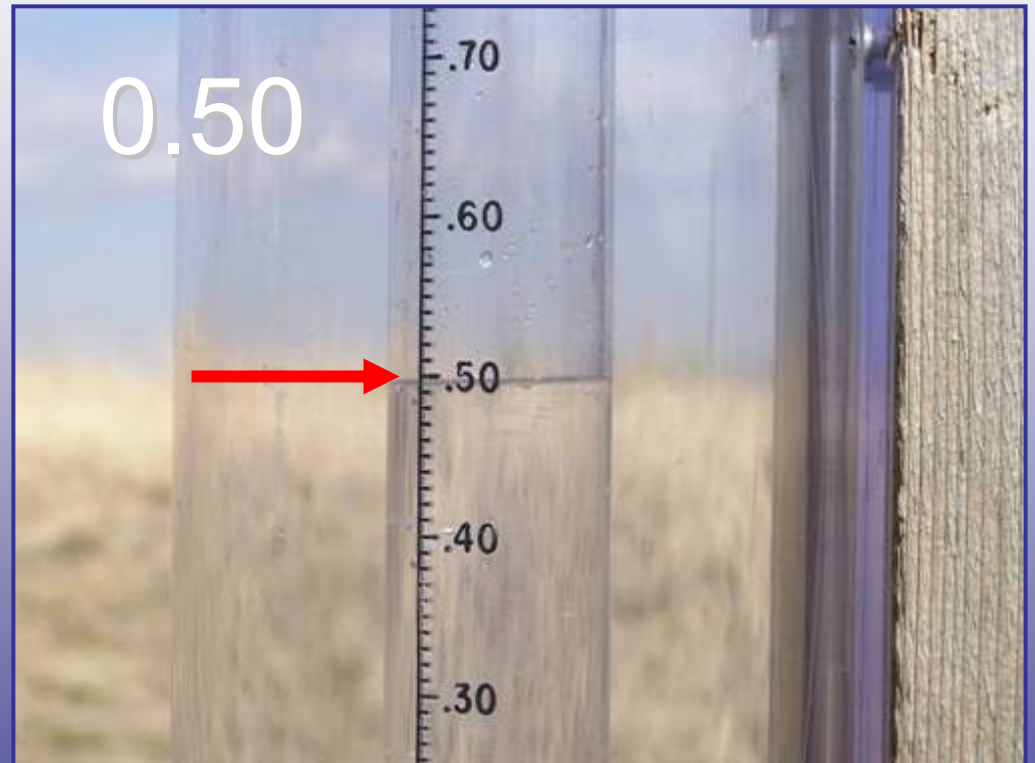
Anything less than 0.01" is recorded as a "T" for Trace

It is important to know that it did NOT rain. Please report zeros!

Between “T” and “one tenth” of an inch



A nice soaking rain



Water! Water! Everywhere!



When more than an inch of rain falls the precipitation will overflow into the outer cylinder. The whole gauge has a capacity to hold 11 inches.

To measure greater than one inch . . .



Pour out the first inch from the inner tube and write it down.



Now pour the remaining water into the funnel & measure using the inner tube.



Continue until all of the water has been measured. Make sure you keep track of your amounts along the way.



Then add up all of your measurements

$1.00 \text{ inch} + 0.97 \text{ inches} + 0.88 \text{ inches} + 0.92 \text{ inches} = 3.77 \text{ inches}$

Total = 3.77"

c) Tools for measuring Snow

- Snowfall measurement is typically more difficult than rainfall
- Snowfall measurement takes a little more time

Accurate and timely snowfall measurements can be extremely important to the local National Weather Service office, public works departments, media outlets, climatologists, and other scientists

Tools of the Trade

- Precipitation Gauge
- Snow board
 - A 24"x16" piece of $\frac{1}{2}$ or $\frac{3}{4}$ " plywood painted white
- Yardstick or snow stick

Four Snow Measurements

1. The depth of new snow
2. Liquid water equivalent of new snow
3. The total depth of new snow and old snow and ice at observation time
4. Snow Water Equivalent (SWE) of total snow on the ground (optional)

SECTION THREE:

Reporting Observations

In this section we will introduce you to the website and show you how to record your observations

CoCoRaHS

Rail & Snow Network

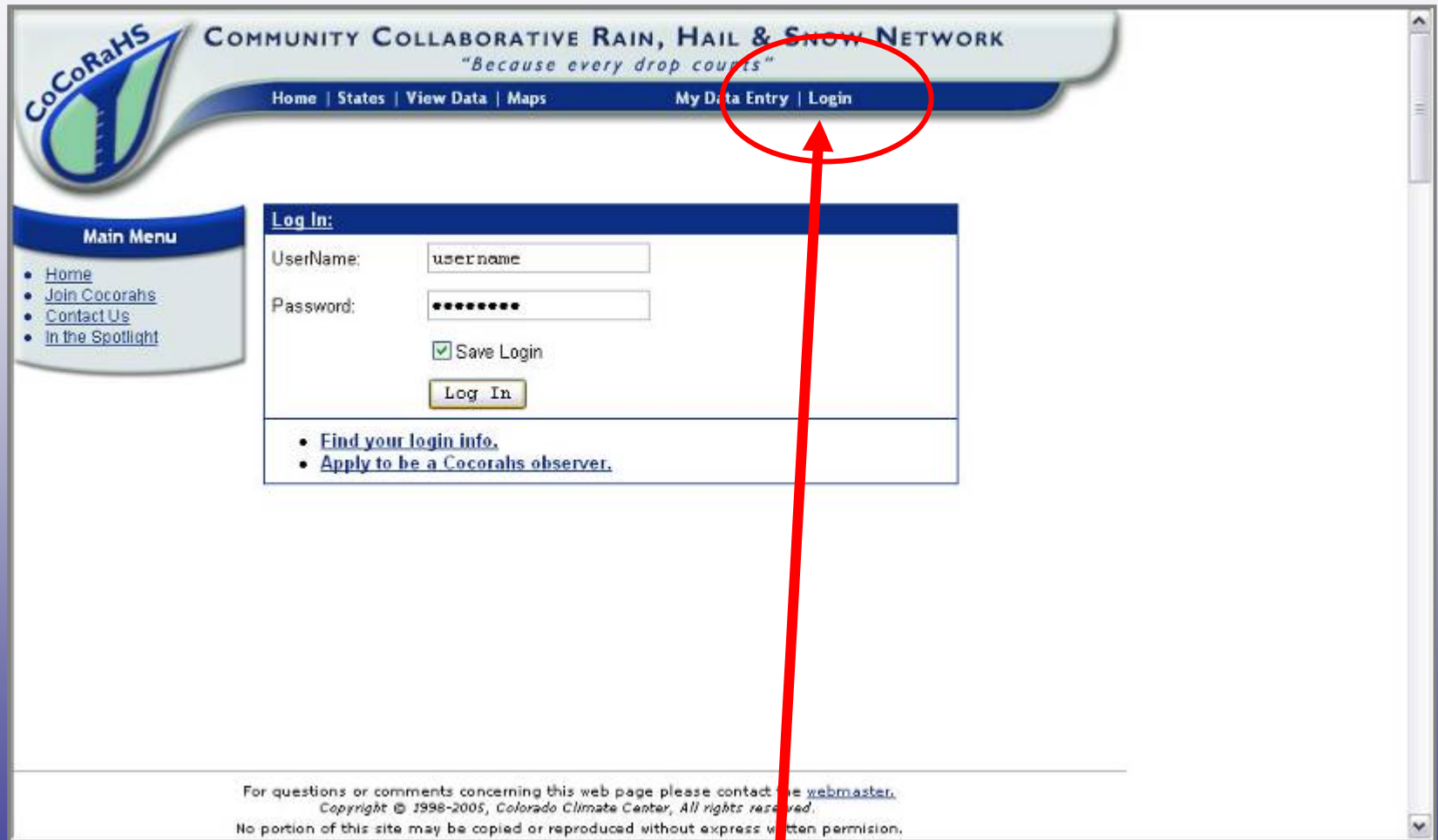
The CoCoRaHS Website

www.cocorahs.org

The screenshot shows the CoCoRaHS website homepage. At the top left is the CoCoRaHS logo, a stylized blue and green raindrop. To its right is the text "COMMUNITY COLLABORATIVE RAIN, HAIL & SNOW NETWORK" and the tagline "Because every drop counts". Below this is a navigation bar with links for Home, States, View Data, Maps, My Data Entry, and Login. A main banner reads "Welcome to CoCoRaHS! 'Volunteers working together to measure precipitation across the nation.'" On the left is a "Main Menu" with links for Home, About Us, Join CoCoRaHS, Contact Us, and Donate. Below that is a "Resources" section with links for FAQ/Help, Education, Training Slide-Show, Volunteer Coordinators, Hail Pad, Distribution/Drop-off, Help Needed, and Printable Forms. At the bottom left is the NOAA logo with the text "FIND OUT MORE ABOUT NOAA PRODUCTS". The center features a map of the United States with states colored green (CoCoRaHS State) or blue with diagonal stripes (State Joining During 2008). Below the map is a "Daily Precipitation (inches x.xx) USA 8/25/2008" chart with a color-coded legend ranging from 0.0 (Trace) to 6.36 - 7.05 inches. On the right side, there are several promotional boxes: "Join CoCoRaHS Click Here", "TRAINING SLIDE-SHOW", "Things to know about..." with icons for Rain, Hail, and Snow, "weatherwise" magazine promotion, and "Purchase an official CoCoRaHS 4" Rain Gauge". At the bottom center is a large blue banner that says "CoCoRaHS WELCOMES".

Our website is informative and easy to use. Here's how to begin →

Log in to CoCoRaHS



CoCoRaHS COMMUNITY COLLABORATIVE RAIN, HAIL & SNOW NETWORK
"Because every drop counts"

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Log In:

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First, click to log in

Recording your Daily Precipitation

Enter My New Reports

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Precipitation Report Form

Station Number : NJ-MD-5

Station Name : New Brunswick 1.5 SE

* Denotes Required Field

8/27/2008 * Observation Date

7:00 AM * Observation Time

1.48 * Total Rain and Melted Snow in gauge in inches to the nearest hundredth

Yes No Report was taken at registered location?

Observation Notes: (This will be available to the public)

Intense thunderstorm last evening. 1.13" of rain in 35 minutes (intense precipitation report submitted). Strong winds with small branches down.

New Snow

0.0 Depth of new snow in inches to the nearest tenth

NA Melted value from core to the nearest hundredth

Total Snow on Ground

NA Depth of total snow in inches to the nearest half inch

NA Melted value from core to the nearest hundredth

Duration Information

If a time is unknown or the storm has not ended leave it blank.

Precipitation Began 7:15 AM PM

Precipitation Ended 8:50 AM PM

Heaviest Precipitation Began 7:25 AM PM

Heaviest Precipitation Lasted 35 minutes

These times are: Very Accurate

Additional Information

Any Flooding? Minor (typical). Street or field flooding

Yes No Did you record hourly precipitation (or other detailed time increments) for this storm? If yes, CoCoRaHS personnel may request a copy of this data later, so please save it.

After you log in, the screen will automatically take you to the Daily Precip. Report

Submit your Report

Enter My New Reports

- [Daily Precipitation](#)
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- [Intense Precipitation](#)
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List/Edit My Reports

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- [Multi-Day Accumulation](#)

Precipitation Report Form

Station Number : NJ-MD-5

Station Name : New Brunswick 1.5 SE

* **Observation Date** ?

AM * **Observation Time** ?

* **Total Rain and Melted Snow in gauge in inches to the nearest hundredth** ?

Yes No **Report was taken at registered location?**

Observation Notes: (This will be available to the public) ?

Intense thunderstorm last evening. 1.13" of rain in 35 minutes (intense precipitation report submitted). Strong winds with small branches down.

New Snow

Depth of new snow in inches to the nearest tenth ?

Melted value from core to the nearest hundredth ?

Total Snow on ground

Depth of total snow in inches to the nearest half inch ?

Melted value from core to the nearest hundredth ?

Duration Information

If a time is unknown or the storm has not ended leave it blank.

Precipitation Began AM PM

Precipitation Ended AM PM

Heaviest Precipitation Began AM PM

Heaviest Precipitation Lasted minutes

These times are:

Additional Information

Any Flooding?

Yes No **Did you record hourly precipitation (or other detailed time increments) for this storm?** If yes, CoCoRaHS personnel may request a copy of this data later, so please save it.

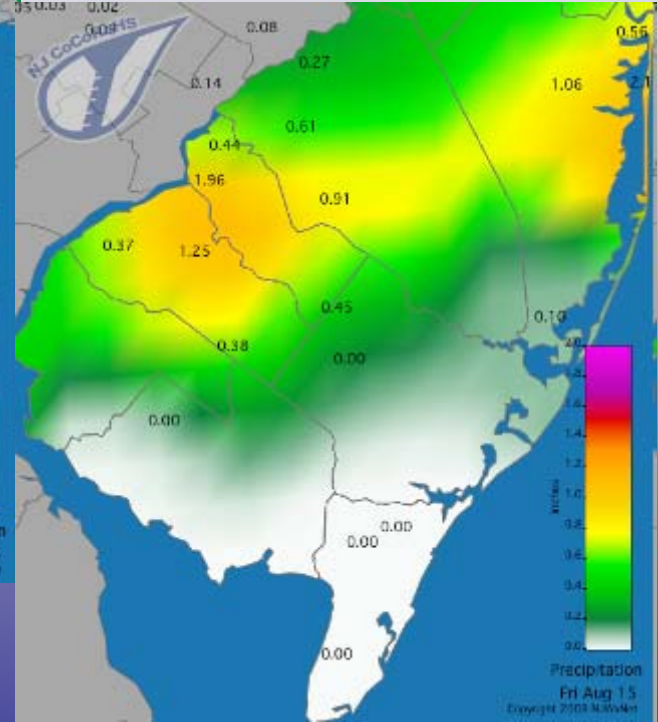
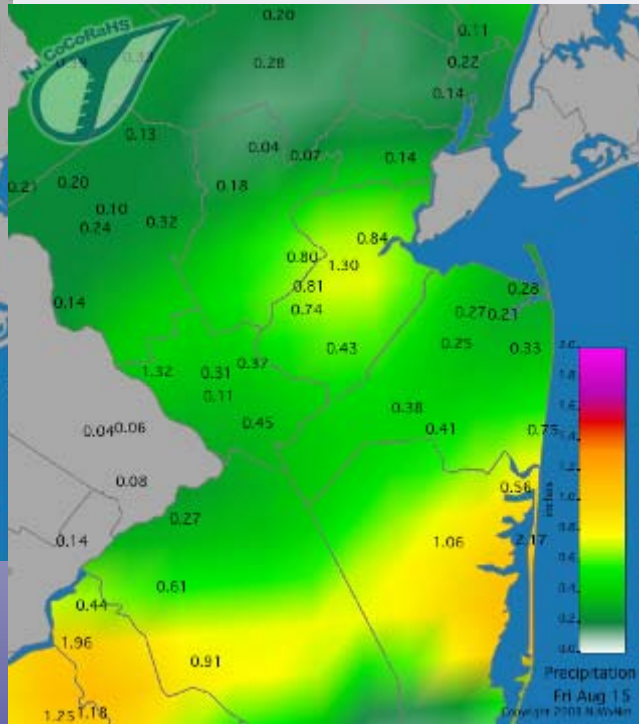
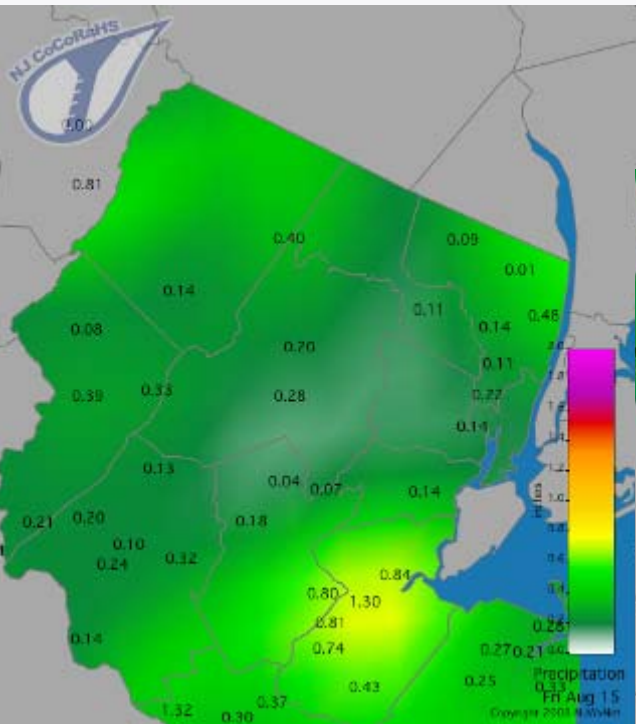
Click "Submit" and your data is recorded on our site

To See Your Report on the Map

The screenshot shows the CoCoRaHS website interface for New Jersey. At the top, the logo and tagline "COMMUNITY COLLABORATIVE RAIN, HAIL & SNOW NETWORK" are visible, along with navigation links for Home, States, View Data, Maps, My Account, Admin, and Logout. The left sidebar contains a "State Menu" with links for New Jersey Home, State Coordinators, and Maps (circled in red), and a "Main Menu" with links for Home, About Us, Join Cocorahs, Contact Us, and Donate. Below the sidebar is a "New Jersey Reports" section with links for Daily Precip, Hail Reports, Intense Precip, and Multi-Day Precip, followed by a "View All Reports" section with similar links. The main content area features a map of New Jersey with colored squares indicating precipitation data for 2/11/2008. A legend titled "Daily Precipitation (inches x.xx) New Jersey 2/11/2008" shows color-coded ranges from 0.0 (purple) to 0.10-0.11 (orange). A "View Large Map" link is provided below the map. The text below the map reads: "Welcome to NJ CoCoRaHS! The Garden State is delighted to be one of the latest additions to the expanding CoCoRaHS network. NJ CoCoRaHS observers provide important information about precipitation that are used by meteorologists, hydrologists, farmers, water resource managers, and your friends and neighbors. Anyone with an interest in the weather or the environment is invited to participate. For more information on the NJ CoCoRaHS chapter, please contact one of the state coordinators. **What do I need to participate?** All that's needed to be a CoCoRaHS participant is the desire to watch and

Go to your state page and then click the “maps” link

Your Report on our Daily Map



The amount of precipitation you entered shows up at your location on the map

Hail Report

CoCoRaHS COMMUNITY COLLABORATIVE RAIN, HAIL & SNOW NETWORK
"Because every drop counts"

Home | States | View Data | Maps | My Data | My Account | Admin | Logout

My Data Entry : Hail Report Form

Enter My New Reports

- Snow Precipitation
- **Hail**
- Intense Precipitation
- Multi-Day Accumulation
- Monthly Zeros

List/Edit My Reports

- Daily Precipitation
- Hail
- Intense Precipitation
- Multi-Day Accumulation

Hail Report Form [Submit Data] [Reset]

Station Number : CO-LR-610

Station Name : Fort Collins 3.5 SW

6/13/2006 *Date of Hail Storm ?

AM Time Hail Storm Began ?

Yes No Report was taken at registered location?

Size of hailstones

Smallest: Not Selected

Average: Not Selected

Largest: Not Selected

Hail Lasted

Minutes This time is accurate within Select Accuracy

Hailfall was: Continuous Intermittent

Hailstones were:
(Check all that apply)
 Hard Soft Mixed (Hard & Soft) Clear Ice White Ice

Was there more rain than hail? Yes No

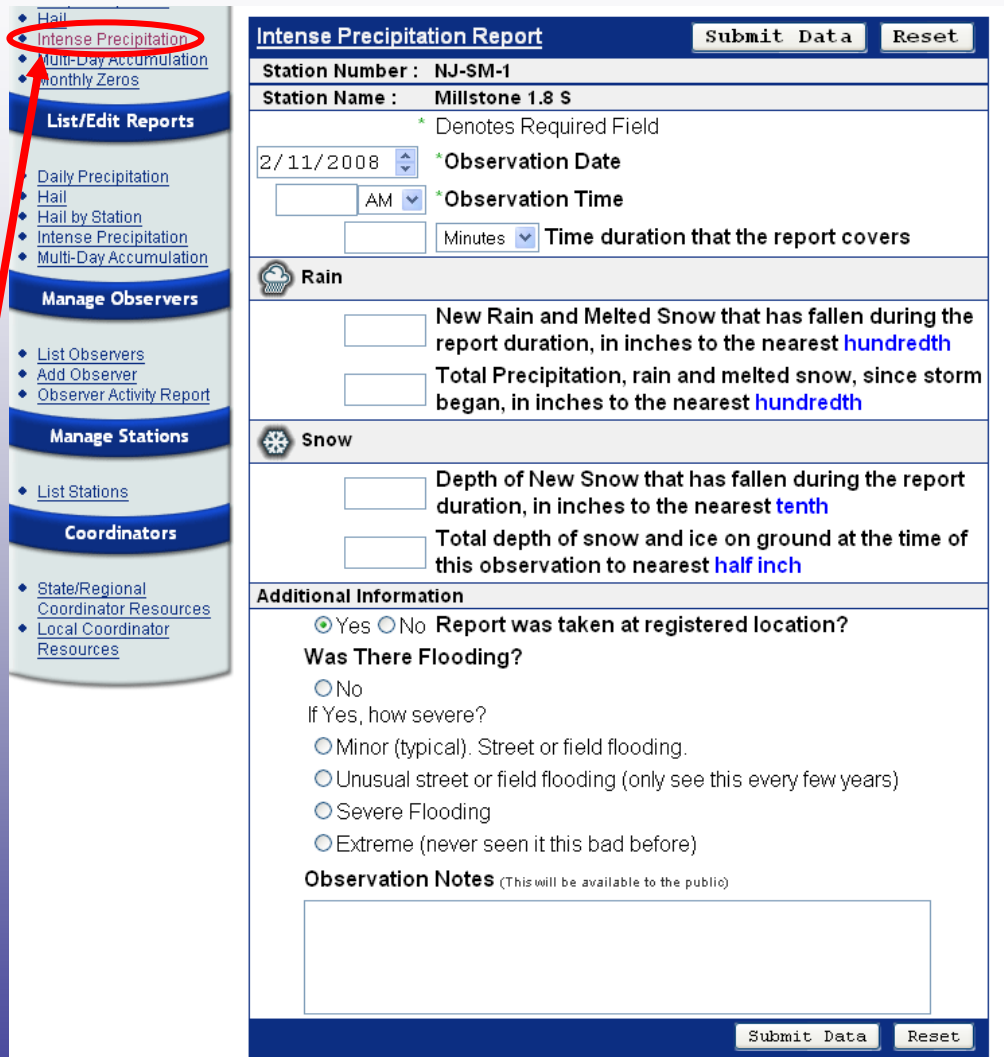
Hail Started:
 Before rain After rain Same time as rain

Largest Hail Started
 Before smaller hail After smaller hail Same time as smaller hail

Remarks:

Hail Reports are immediately relayed to your local National Weather Service office for use in issuing severe weather warnings

Intense Precipitation Report



Intense Precipitation Report

Station Number : NJ-SM-1
Station Name : Millstone 1.8 S

* Denotes Required Field

2/11/2008 * Observation Date
AM * Observation Time
Minutes Time duration that the report covers

Rain

New Rain and Melted Snow that has fallen during the report duration, in inches to the nearest **hundredth**
 Total Precipitation, rain and melted snow, since storm began, in inches to the nearest **hundredth**

Snow

Depth of New Snow that has fallen during the report duration, in inches to the nearest **tenth**
 Total depth of snow and ice on ground at the time of this observation to nearest **half inch**

Additional Information

Yes No **Report was taken at registered location?**

Was There Flooding?

No

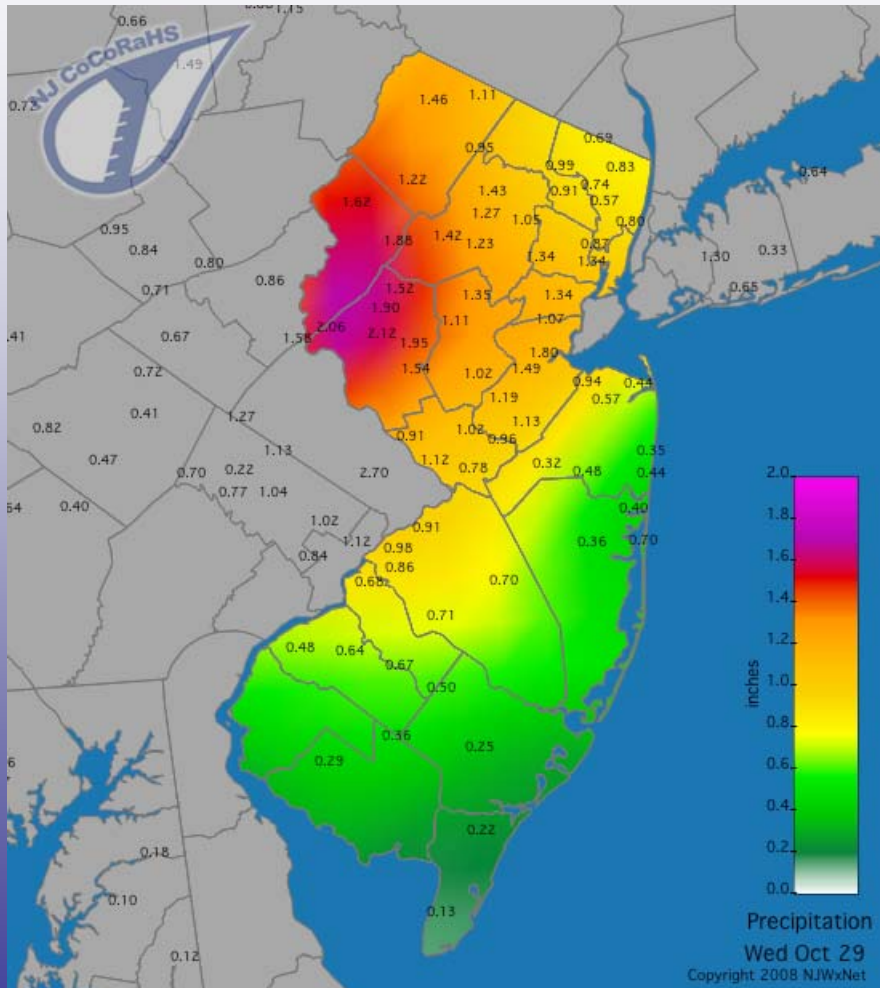
If Yes, how severe?

Minor (typical). Street or field flooding.
 Unusual street or field flooding (only see this every few years)
 Severe Flooding
 Extreme (never seen it this bad before)

Observation Notes (This will be available to the public)

Intense Precipitation Reports are used by your local National Weather Service office to warn of flooding situations

Become a CoCoRaHS observer!



*CoCoRaHS Welcomes
New Jersey*

register at:
<http://cocorahs.org>

Thanks for joining us today!

You can find out more about the CoCoRaHS Network by visiting our web site or sending us a note at: njcocorahs@climate.rutgers.edu



Just 5 minutes a day!

It's easy and fun!

We're Cuckoo For CoCoRaHS!

www.cocorahs.org

