



The Hoosier Observer  
Indiana CoCoRaHS monthly e-newsletter

February 2023

January 2023 Statistics

Total observers reporting	458
Observers with no missing reports	275
Percent of total	60
Average Daily Reports per Day	360
Max # of Daily Reports and Day	402 / 19
Significant Weather Reports	15
Condition Monitoring Reports	38
E-T Reports	0

It's been quite the warm stretch lately with fairly limited snow, so we'd like to thank all of our observers for going out and making those rain measurements even when the inner tube isn't always in.

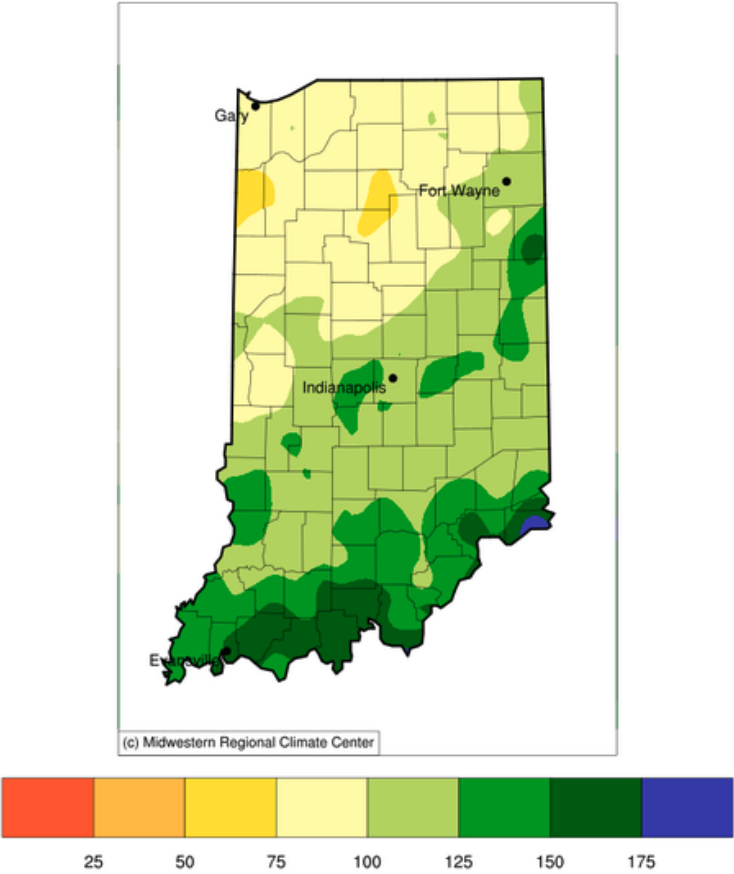
With that being said, we're still in the tail end of winter, so be careful to always keep track of the forecast if you decide to put the inner tube in. Nobody likes a cracked inner gauge. March Madness for CoCoRaHS is just around the corner, so start thinking about who you want to invite to join the Indiana network!

Finally we'd also like to recognize the 3 new Indiana observers (Hancock, Marion, and Monroe counties) that joined CoCoRaHS in the last month. Thanks for joining the team!

January 2023 Precipitation in Indiana

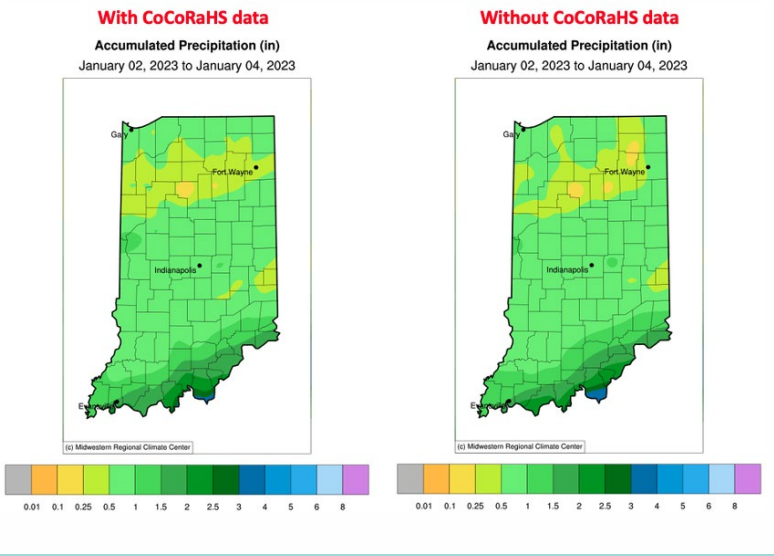
January 2023 was quite warmer than normal with monthly temperature departures as much as 10 degrees (F)! Precipitation was plentiful - particularly in the southern half of the state. The northern half of Indiana experienced near-normal precipitation. Snow was more absent. For the month, there were places in northern Indiana that were over a foot of snow below normal with the rest of the state ranging from 1 to 8 inches below normal. Averaged across the state, Indiana received 3.16 inches of precipitation (all translated to liquid) which is 0.21 inches above the 1991-2020 normal amount. The map shown illustrates the percentage of the 1991-2020 normal precipitation for January 2023 indicating where the monthly precipitation was above or below normal. Of the CoCoRaHS observers who provided data *every day*, the greatest precipitation total for the month was 6.64 inches at HOLLAND 0.2 W (Dubois County), whereas the lowest monthly precipitation total was only 1.55 inches at MOUNT AYR 1.6 NNE (Newton County). Of those with *complete monthly records*, the maximum 1-day total was 2.16 inches on January 3rd at LEOPOLD 1.7 ESE (Perry County).

Accumulated Precipitation (in): Percent of 1991-2020 Normals  
January 01, 2023 to January 31, 2023



Your Data Makes a Difference!

Check out the two maps below that show total precipitation amounts from January 2-4, 2023. The map on the left highlights the added detail when your observations are included in the analysis. The map on the right does not include CoCoRaHS data. Pockets of higher rainfall amounts can be seen when CoCoRaHS data is included due to your efforts!

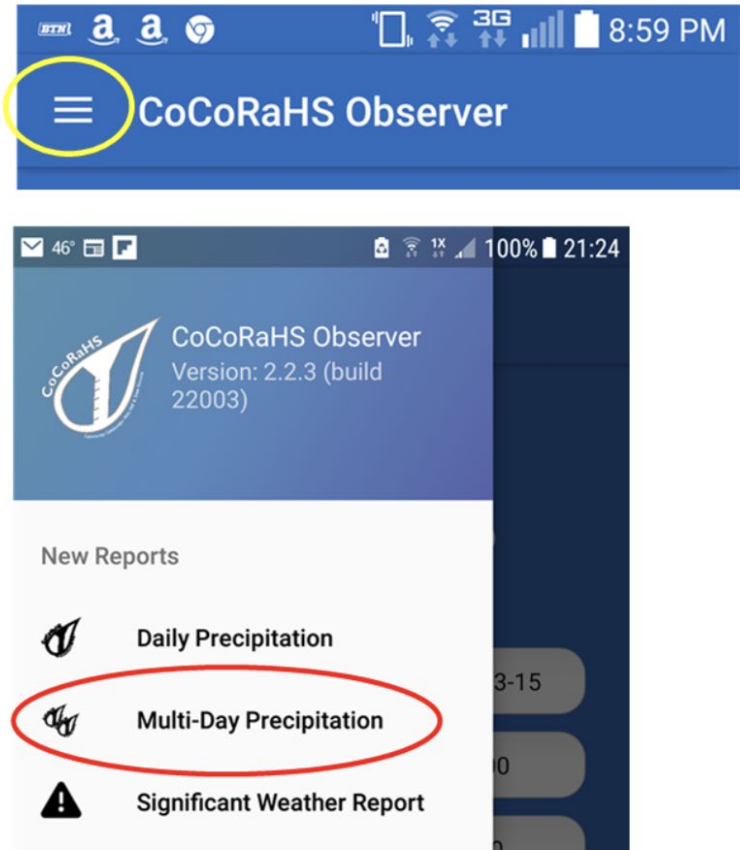


**A Reminder About Multi-Day Totals**

By Steve Hilberg

If you miss an observation on a day because you were gone, ill, or any other reason, the next observation should be submitted using the Multi-Day Report form. How do you do that?

Log on to the CoCoRaHS web site as usual. IGNORE the Daily Report screen that pops up. Instead, select Multi-Day Accumulation in the menu on the left-hand side on the web site. Use the "hamburger" (i.e., 3 stacked, horizontal lines) icon on the mobile app.



In the example below, after your observation on May 31, you head out for a long weekend. You return late on June 3. On the morning of June 4, you check your rain gauge and find 0.75 inches of rain in the gauge.

On the form, enter the first day of accumulation. In this case, it is June 1st, the day after your last report (May 31). You emptied the rain gauge on June 4th. Enter the time you emptied the rain gauge, then enter the amount that you measured in the field labeled "Multi Day Precipitation (in inches)". In this case, you would enter 0.75. Click on Submit Data and you are done.

**Don't enter a multi-day amount using the Daily Report Form!**

Entry : Daily Precipitation Report Form

**Precipitation Report Form**

Station Number : IL-CP-1  
Station Name : Homer 2.0 N

6/4/2015 7:00 AM

Observation : Rain and M...  
gauge durin...

Observation Notes: (This will be...)

Use Multi-Day Accumulation if precipitation fell over a period that is more than one day (24 hours)

Next, enter the date range when precipitation occurred, then enter multi-day precipitation amount, then enter notes as appropriate.

Click Submit Data when done.

**My Data Entry : Multi-Day Precipitation Report Form**

Station Number : IL-CP-1  
Station Name : Homer 2.0 N

6/1/2015 First day of accumulation period. This day should be one day after your last report.

6/4/2015 Date the rain gauge was emptied.

7:00 AM Time the rain gauge was emptied.

☒ Yes ☐ No Report was taken at registered locati...

0.75 in Multi Day Precipitation (in inches), or T for trace, or NA for unknown.

in Total Depth of Snow on Ground (in inches)

in Core Precipitation (in inches)

Notes  
Rain fell over weekend while we were gone.

Be sure to enter the time of observation. It is not entered automatically on this form.

Submit Data Reset

One other important thing to keep in mind. After you have entered your multi-day report, DO NOT go back and enter zeros for any date in the range of the Multi-Day Report. Each day can have only one gauge catch amount, either a daily amount or as part of a multi-day total.

### How to Correct a Multi-Day Amount Submitted as a Daily Amount

by Steve Hilberg

Situation: you are gone for the weekend, and on Monday morning you need to report your weekend precipitation accumulation. In an early morning fog, you log onto CoCoRaHS, enter your precipitation amount, and click Submit. Gaackk! You realize you just entered your weekend accumulation as a daily amount! So, you pull up the multi-day accumulation report, enter the dates and your amount, and click Submit. The screen lights up in red text: **Error: This multi-day report would overlap with daily report on 2/11/2023. Failed to save the Multiple Day Precipitation Accumulation Report.** Great, ... now what?

As long as you have a valid amount on the conflicting daily report, you will get an error. In order to submit the multi-day report, FIRST edit your daily report and set your erroneous daily report amount to NA, then Submit. Now, you can go ahead and enter the multi-day report without generating an error. There is one last step you need to do to make this a clean operation. Send [Andrew White](#) an email with your station number and date of the NAed daily report. He will make sure the daily report is removed from the database. If it is not, then your observations will not list correctly when you list your data using the Station Precip Summary or Station Snow Summary.

### If you Move or Change your Email Address

If you are moving to a new home and want to continue to participate in CoCoRaHS, please let us know as soon as possible. Your observations are tied to a specific location, so we don't want observations from your new location associated with your previous location. The value of the observations is increased by their continuity at that location, so consider suggesting to the buyer or new tenant of your home that they participate in CoCoRaHS! We have a brochure that you can download, print and give to them.

When you know your new address, let us know. When you are ready, we will close your old station and open a new station at your new address (DO NOT sign up for CoCoRaHS again). Once that's done, you can enter observations from your new location. If you are moving to a different state, we can help you get in touch with that state coordinator so you can get started there.

Let us know if you change your email address so that your record is up to date. You can update your email address in the CoCoRaHS database yourself by logging in and clicking on My Account in the top line menu. Click on Edit in the My Information box. Make any corrections, then click save.

Please also send a message to [andrew.j.white@noaa.gov](mailto:andrew.j.white@noaa.gov) with the email change as well, so we can update your address on our newsletter mailing list. This list is maintained separately from the main CoCoRaHS database.



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