

Percent of total

Significant Weather Reports

The spigot has been opened and many of you received quite the month of rain. We had 12 stations across the state reach over 10 inches of precipitation in the month of June alone. Thanks everyone entering those rainfall observations, especially when those days of heavier rain come around and it takes a little extra work to get the observations done.

We continue to inch ever closer to that 500 report day. With 563 observers reporting at some point in the month of June, it's very much possible for us to reach if we get just a few more observers to report more regularly. We'd love to see it happen in July and we need your help to make it happen!

We'd also like to recognize the 7 new Indiana observers (Allen[3], La Porte, Marion, Owen, Shelby) that joined CoCoRaHS in the last month. Thanks for joining the team!

E-T Reports

per Day

June 2021 Statistics

The Hoosier Observer

Indiana CoCoRaHS monthly e-newsletter

July 2021

June 2021 Precipitation in Indiana

The June 2021 statewide precipitation was 5.86 inches -- 1.06 inches above the 1991-2020 normals. The map shown illustrates the percentage of the 1991-2020 normal precipitation for June 2021 where it can be see that there were clearly winners and losers across the state with respect to precipitation. The central and southern counties were below normal for the month, whereas the northern and south-central counties were above normal. Of the observers that provided data *every day*, the greatest precipitation total for the month was 12.21 inches at SPENCER 5.7 SE (Owen County), whereas the lowest monthly precipitation total was only 1.62 inches at BOONVILLE 2.4 N (Warrick County). Of those with *complete monthly records*, the maximum 1-day total was 7.42 inches on June 19th at ELLETTSVILLE 0.6 SSE (Monroe County).

Accumulated Precipitation (in): Percent of 1991-2020 Normals

June 01, 2021 to June 30, 2021



10 25 50 75 100 125 150 175 200 Stations from the following networks used: WBAN, COOP, FAA, GHCN, ThreadEx, CoCoRaHS, WMO, ICAO, NWSLI, Midwestern Regional Climate Center cli-MATE: MRCC Application Tools Environment Generated at: 7/16/2021 8:42:01 AM CDT

How to Submit Storm Reports to the NWS By Steve Hilberg

Many CoCoRaHS observers are also NWS Storm Spotters, but for those that are not, you can still play a valuable role in relaying storm information. One way to do this is through submitting a CoCoRaHS Significant Weather Report, or in the case of hail, a CoCoRaHS Hail Report. Both of these are automatically routed to your local NWS office once they are submitted, but can only be submitted using the CoCoRaHS web site, not the mobile app. Outside of CoCoRaHS, storm information can be relayed to the NWS via social media (Facebook, Twitter), email, or a web-based form. You can get specific links and information for each NWS office at the following link: https://www.weather.gov/crh/stormreports?sid=XXX, where XXX is the ID for the NWS office as follows:

IND = Indianapolis area LOT = NW Indiana area IWX = NE Indiana area ILN = Eastern Indiana area PAH = SW Indiana area LMK = SE Indiana area Hoosier Observer - July 2021



Inches Different, Only Miles (or Less) Apart By Steve Hilberg and Beth Hall

If there has ever been a time that has demonstrated the value of having a high density of rainfall observers, the last few weeks in the Midwest has been it. There are many examples of the high variability of local rainfall. A recent one was heavy rain on July 12-13, 2021. Using an example from Illinois, the heaviest rain in this case fell between observation stations, with no official direct measurements of the heaviest core of rainfall. In the image below, the pink/violet areas are 5 to 6+ inches of rain. There was one CoCoRaHS observer on the north edge of the rain area that measured 3.46", and one public report of 6.14" on the east edge of the core. The green outline on the second map shows the approximate outline of the heavy rain area south of Seneca, IL. A few more observers in that area might have caught the heaviest rain. This is a great example for why CoCoRaHS can never have too many observers in an area!



Experienced observers are aware of this, but for the benefit of the many new observers that have joined CoCoRaHS, here is a reminder of what constitutes a Trace of rain. A trace of rain is an amount that is less than

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0.01". If you have a few sprinkles of rain at your location, then you have had a Trace. Note that the drops do not have to fall in your gauge for there to be a Trace! Sometimes the only evidence will be some drops on your vehicle windshield, or a drop pattern on the driveway or sidewalk, or you feel a couple of drops on your face. When you have a Trace of rain, enter a "T" for your daily precipitation. Be sure not to confuse dew for a Trace, though! Dew is atmospheric vapor that has condensed as liquid onto a surface and not precipitation that has fallen from the sky.

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 <u>andrew.j.white@noaa.gov</u> 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.



Andrew White (andrew.j.white@noaa.gov) Kyle Brown (kyle.brown@noaa.gov) Beth Hall (bethhall@purdue.edu)