



# Southern



# New England

**March 2020**

March has started quietly with warm temperatures and not much rain. March has also started noisily with 69 new signups for our three states. Welcome to all of those that have recently joined. You have joined a fantastic citizen science project, and we are pleased to have you.

If this is your very first Newsletter, we strive to have something for every reading and visual style. Words, tables of numbers, pictures, calendar, maps, and listings of your stations.

Joe leads off with a message about recruiting. More observer tips as we transition from winter to spring. Plenty about your reports, as we continue to be pleased with the snow fall and snow depth reporting. And there still is snow on the ground, reported from Plainfield MA.

A few observers crossing over 3000 and 4000 Daily Reports. A longer list of observers crossing over 1000 Daily Reports. We start off with our version of The "Grand" List.

Let's get into it.

## **The “Grand” List**

Congratulations to all of these observers from our three states who have recently passed a milestone of 1000 Daily Reports.

### **4000 Daily Reports**

MA-BR-3     Norton 1.8 NNE  
MA-BA-3     Falmouth 3.0 E

### **3000 Daily Reports**

MA-BA-19    East Falmouth 0.7 NW

### **1000 Daily Reports**

MA-NF-31    Stoughton 1.2 E  
MA-MD-89    Sudbury 3.6 W  
RI-BR-5      Barrington 1.3 WNW  
CT-LT-18    New Hartford Center 1.5 N  
CT-MD-11    Westbrook Center 1.5 NE  
MA-MD-81    Wakefield 0.5 NNW  
CT-HR-39    Farmington 1.6 SW  
MA-MD-96    Lexington 0.3 NE  
MA-NF-32    Quincy 1.8 WSW

## **Recruiting**

“March Madness” has really taken off in our three states. And no, I’m not talking about college basketball! 69 new observers have joined CoCoRaHS in southern New England this month and 76 new observers this year. Welcome to our network!

Rhode Island is leading the way in the “Per Capita” count, which is the number of new observers per million residents. This helps smaller states in the Union compete with those that have a significantly larger population. If Rhode Island can hold on and continue to add new observers, the Ocean State will be one of the two recipients of the prestigious “CoCoRaHS Cup!”

Our recruiting effort involved sending a press release to newspapers and TV meteorologists as well as having our National Weather Service offices help out by posting on social media and placing a link on their web pages. But we also could use your help! Spread the word about CoCoRaHS to family, friends, and neighbors. This really isn’t about winning the cup - it’s about increasing the number of reliable observations in Southern New England to help provide better mapping of precipitation. Each year we lose a number of observers for a variety of reasons so it’s important we keep our numbers strong. We can use all the help we can get!



*Nolan Doesken poses with the “CoCoRaHS Cup”*

## **Observer Tips**

**Significant Weather Reports:** As the snow and rains occur this winter, keep our reporting criteria in mind, as we can alert our area NWS Forecast Offices in real time with what is occurring. Reporting criteria are

- 1" or more of rain in 1 hour or less. **2" or more of rain.**
  - **1" or more of snow in 1 hour or less.**
  - **First 3" of new snowfall. Final total, if 6" or more of snow.**
  - Flooding.
  - **Anything you feel is significant.**
- ✓ Continue to use mPING in real-time on your GPS enabled mobile device for whatever meteorological phenomena comes our way.

**YouTube videos** For our new members, and for more seasoned ones



alike, CoCoRaHS HQ has provided videos on [YouTube](#). Please take the time to view these, refresh your memory, and view the animations, tutorials and promotional videos.

**Wait it out or Report it.** Morning rain or snow occurs during your normal observation time. Yes, we don't want you outside for a measurement with thunder and lightning or slipping on the ice. But no, we don't want a Daily Report of precipitation that is more than 4 hours beyond your normal observation time, even with the observation time changed. In this case, wait until the next day and please submit a multi-day report.

Your report becomes inaccurate because it doesn't include a 24-hour value. As an example, if it's raining at your normal observation time and you wait until on or after 11 AM to report when the rain ends, you would then report 0.00" the next day, but this would not be a true 24-hour total and would not be representative.

Supporting document linked [here](#). If you decide to wait for the end of the precip event beyond 4 hours of your normal observation time, please submit a multi-day report the next day. Thank you.

**Hail** The “H” is CoCoRaHS is for Hail. The “H” is silent when we say CoCoRaHS, but hail is noisy when it falls. Please do not confuse hail of convective storms with our friend of winter, sleet.

Hail will probably occur with a thunderstorm, or a passing cold front, **NOT** with cold air already in place that causes sleet. Hail tends to occur during our spring months, not our summer and fall months, because the freezing levels in the atmosphere are lower in the spring, than in the summer and fall months.



Make a note of the start and stop times of the Hail. Wait until the hail stops before going outside to measure the Hail stones. A picture of the hail stones, alongside a 12” ruler or loose coins, helps determining the hail stone size.



As the days get longer, the storms get stronger. Should a strong thunderstorm generate hail at your station, please fill out and submit a Hail Report. That Hail is added to our database. Within a minute, that Hail Report will also alert your local NWS Forecast Office, giving them notice what is occurring in your area.

Hail pads are commonly used where Hail is more frequent and larger than what we get here in Southern New England. You are not at all required or asked to have a Hail pad.

We are getting an early start to mentioning Hail because of the warmer weather this month, and to remind us all the significance and potential damage that comes from Hail.

**Bottom of the meniscus** Another reminder of our routine. Read the



bottom of the meniscus that forms within your inner cylinder. Accuracy matters. From now until mid-June, we often get frequent rains, often no 3 precip free days in a row, so reading the bottom of meniscus is an item to refocus on during these small rains that come in the spring.



**Snow-Less February** This February will go down as one of the most snow less February's in history in our locale. From the Eastern Region of the National Weather Service (@NWSEastern) a table of snow fall amounts for February from the various climate sites. Sorted from high to low.

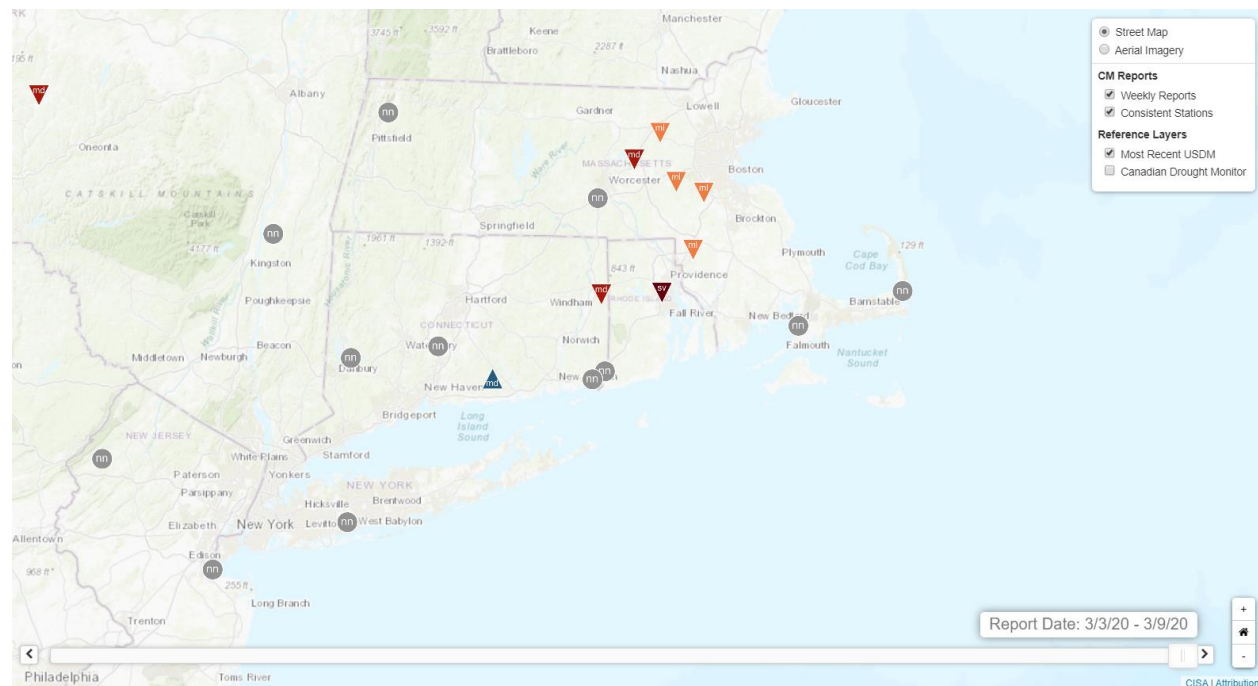
| 2020 Eastern US February Snowfall Totals |                        |            |                           |                            |                        |            |                           |                     |                        |            |                           |
|--|------------------------|------------|---------------------------|----------------------------|------------------------|------------|---------------------------|---------------------|------------------------|------------|---------------------------|
|  | February 2020 Snowfall | Lowest 10? | Average February Snowfall |                            | February 2020 Snowfall | Lowest 10? | Average February Snowfall |                     | February 2020 Snowfall | Lowest 10? | Average February Snowfall |
| Caribou ME                               | 33.0"                  |            | 22.2"                     | Cincinnati OH              | 4.8"                   |            | 6.5"                      | Newark NJ           | Trace                  | #1 (t)     | 9.3"                      |
| Syracuse NY                              | 29.8"                  |            | 25.3"                     | Huntington WV              | 4.2"                   |            | 7.4"                      | NYC (Central Park)  | Trace                  | #2 (t)     | 9.2"                      |
| Binghamton NY                            | 25.2"                  |            | 17.1"                     | Bluefield WV               | 4.0"                   |            | 8.5"                      | NYC (LaGuardia)     | Trace                  | #1 (t)     | 9.1"                      |
| Erie PA                                  | 24.9"                  |            | 18.2"                     | Wilkes-Barre / Scranton PA | 3.4"                   |            | 9.3"                      | Philadelphia PA     | Trace                  | #1 (t)     | 8.8"                      |
| Rochester NY                             | 21.6"                  |            | 21.5"                     | Worcester MA               | 2.5"                   | #5         | 15.6"                     | Providence RI       | Trace                  | #1 (t)     | 8.5"                      |
| Burlington VT                            | 21.4"                  |            | 16.4"                     | Raleigh NC                 | 2.5"                   |            | 1.9"                      | NYC (J F Kennedy)   | Trace                  | #1 (t)     | 8.3"                      |
| Buffalo NY                               | 20.6"                  |            | 17.3"                     | Asheville NC               | 2.4"                   |            | 2.2"                      | Wilmington DE       | Trace                  | #1 (t)     | 8.3"                      |
| Gray ME                                  | 13.4"                  |            | 16.5"                     | Wallops Island VA          | 2.2"                   |            | 3.2"                      | Bridgeport CT       | Trace                  | #1 (t)     | 8.1"                      |
| Youngstown OH                            | 12.9"                  |            | 12.8"                     | Greensboro NC              | 2.0"                   |            | 2.4"                      | Washington DC (IAD) | Trace                  | #2 (t)     | 7.6"                      |
| Cleveland OH                             | 12.0"                  |            | 14.9"                     | Blacksburg VA              | 1.8"                   |            | 6.4"                      | Atlantic City NJ    | Trace                  | #3 (t)     | 6.7"                      |
| Elkins WV                                | 11.9"                  |            | 18.7"                     | Williamsport PA            | 1.7"                   | #9         | 8.8"                      | Washington DC (DCA) | Trace                  | #2 (t)     | 5.7"                      |
| Concord NH                               | 11.0"                  |            | 12.3"                     | Danville VA                | 1.6"                   |            | 2.1"                      | Roanoke VA          | Trace                  | #3 (t)     | 5.2"                      |
| Toledo OH                                | 10.6"                  |            | 9.4"                      | Elizabeth City NC          | 1.4"                   | *          | 1.6"                      | Lynchburg VA        | Trace                  | *          | 4.2"                      |
| Akron-Canton OH                          | 10.0"                  |            | 10.5"                     | New Bern NC                | 1.0"                   |            | 0.8"                      | Salisbury MD        | Trace                  | #8 (t)     | 3.1"                      |
| Bangor ME                                | 9.7"                   |            | 14.7"                     | Greenville-Spartanburg SC  | 0.8"                   |            | 1.0"                      | Wilmington NC       | Trace                  | *          | 0.3"                      |
| Dayton OH                                | 9.6"                   |            | 5.9"                      | Boston MA                  | 0.5"                   | #7 (t)     | 10.9"                     | Cape Hatteras NC    | Trace                  | *          | 0.4"                      |
| Beckley WV                               | 9.5"                   |            | 16.6"                     | Richmond VA                | 0.5"                   | *          | 3.7"                      | Baltimore MD        | 0.0"                   | #1         | 8.0"                      |
| Portland ME                              | 9.4"                   |            | 12.1"                     | Hartford CT – BDL          | 0.4"                   | #3         | 11.0"                     | Islip NY            | 0.0"                   | #1         | 7.1"                      |
| Pittsburgh PA                            | 8.8"                   |            | 10.2"                     | Norfolk VA                 | 0.4"                   | *          | 2.6"                      | Columbia SC         | 0.0"                   | *          | 0.5"                      |
| Manchester NH                            | 7.7"                   |            | n/a                       | Charlotte NC               | 0.3"                   |            | 1.2"                      | Augusta GA          | 0.0"                   | *          | 0.4"                      |
| Albany NY                                | 7.0"                   |            | 12.2"                     | Allentown PA               | Trace                  | #1 (t)     | 11.1"                     | Charleston SC       | 0.0"                   | *          | 0.2"                      |
| Mansfield OH                             | 6.3"                   |            | 11.4"                     | Harrisburg PA              | Trace                  | #1 (t)     | 10.5"                     | Savannah GA         | 0.0"                   | *          | 0.1"                      |
| Columbus OH                              | 5.7"                   |            | 6.1"                      |                            |                        |            |                           |                     |                        |            |                           |
| Charleston WV                            | 5.1"                   |            | 9.8"                      |                            |                        |            |                           |                     |                        |            |                           |

t = tied with other years

\*More than 10 years with no snow in February

**Condition Monitoring Reports:** Spring is coming. Warmer weather is here. What are the conditions where you are?

One report a week is all that we seek. Develop a reputation of being a Consistent Station by submitting over 20 reports in a 52-week timeframe.



**Killingworth 2.6 ESE**  
Sat Mar 07 2020

Brooks and streams are flowing above normal levels. Ponds and lakes are overflowing. Ground is very wet with standing water in low areas.

CT-MD-21 -- General Awareness

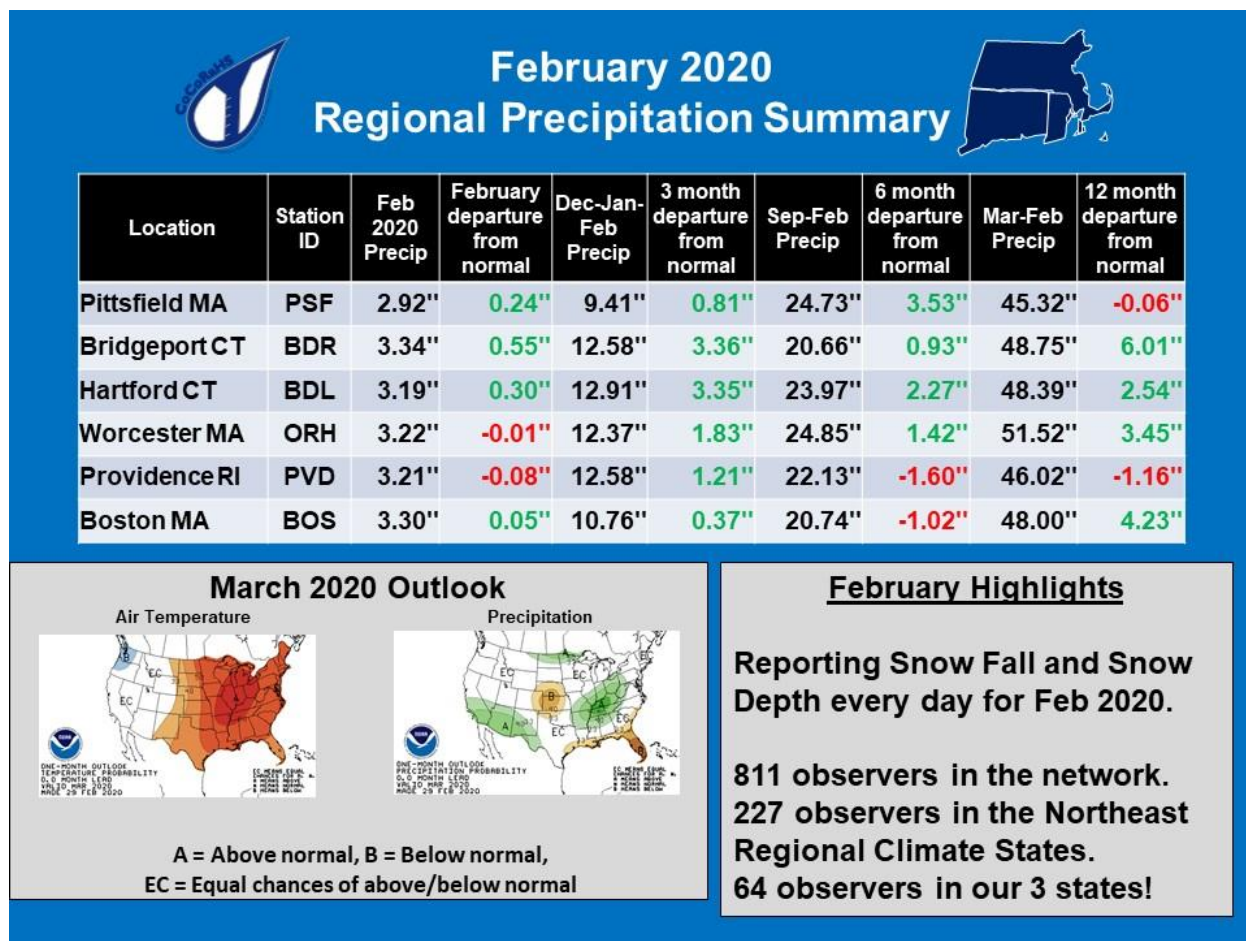
**Acton 1.3 SW**  
Mon Mar 09 2020

The local ponds are still full, however there has been no snow cover the last two weeks and little rain. Due to the warm weather the ground frost has melted and generally dried out. We had only a day or two of the "mud season" this year so far.

MA-MD-12 -- General Awareness, Plants And Wildlife

## **Detail and Summary for February 2020**

From the National Weather Service (NWS) Climate sites for Feb 2020.



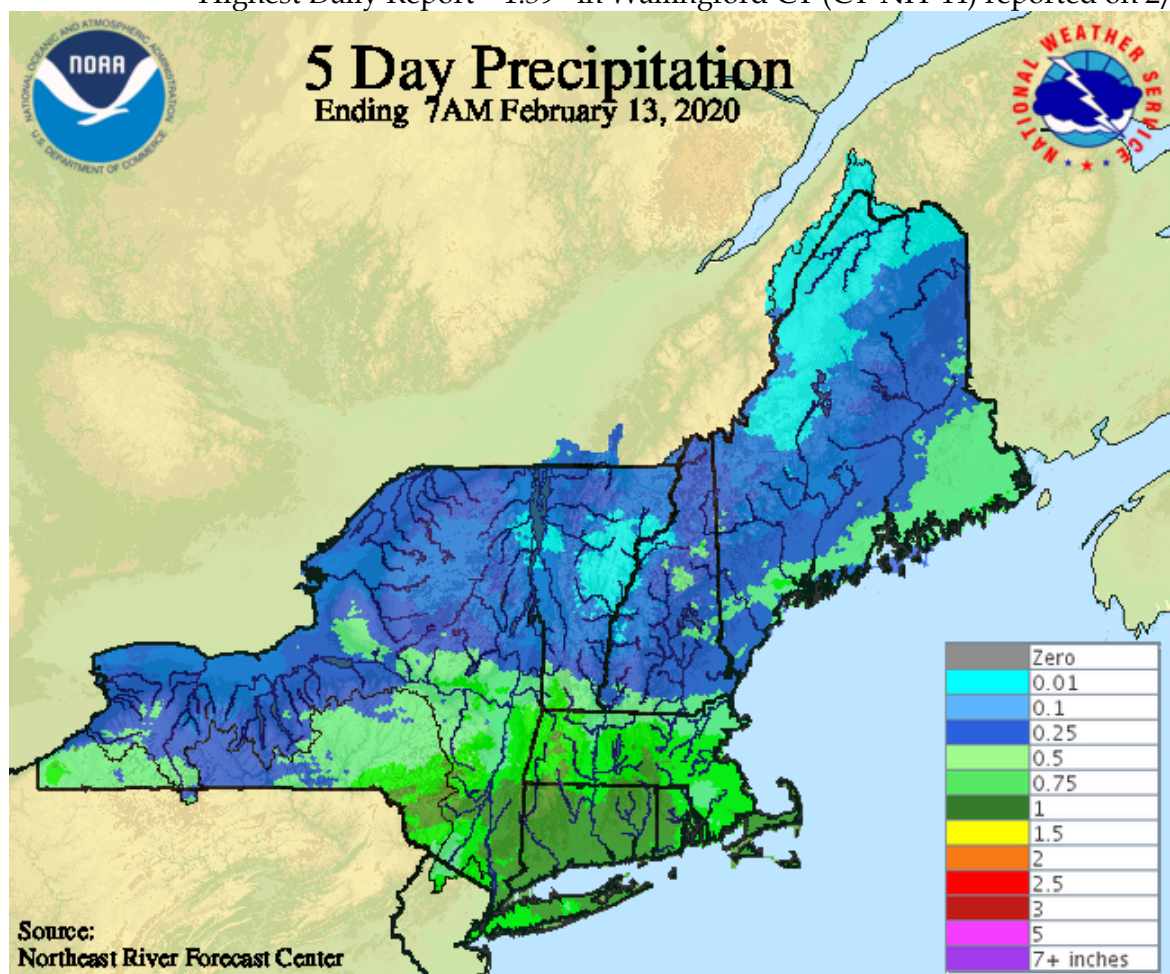
February shaped up to be an unusual snow free month for much of the area. Freezing rain and snow before the winds kicked up on the 7<sup>th</sup>. Snow in the western MA and northwestern CT on the 10<sup>th</sup> and north of the coastal areas on the 13<sup>th</sup>. One week of several small precip events, making the map on the next page. Freezing rain on the 18<sup>th</sup>. Ocean effect snow by Plymouth on the 20<sup>th</sup> – 21<sup>st</sup>. Clear and cold 21<sup>st</sup> – 22<sup>nd</sup>. The lone 1" rain event was reported on the 27<sup>th</sup> in the Connecticut River valley, western CT, north shore of MA, Cape and the Islands.

Take in the next section with appreciation of your efforts.



## From your reports for February 2020

|                                |   |
|--------------------------------|---|
| Observers reporting            | 363   |
| Reported all 29 days           | 191   |
| Completed by Multi-Day Reports | 55  |
| Missing 1 or 2 reports         | 43  |
| Daily Reports                  | 8813  |
| Zero Reports                   | 4263  |
| Non-Zero Reports               | 4550  |
| Daily Comments                 | 1877  |
| Multi-Day Reports              | 192   |
| Condition Monitoring Reports   | 59  |
| Significant Weather Reports    | 4   |
| Snowfall Reports               | 5483  |
| Snow Depth Reports             | 3670  |
| Total SWE Reports              | 2040  |
| Highest Daily Report           | 1.39" in Wallingford CT (CT-NH-44) reported on 2/27 |



A good long list of 246 stations for February. With a minimal amount of snow for February, there were a minimal number of stations excluded for reporting NA precip for a day with precip.

Hopefully, the Groundhog is right, an early Spring will come, and we can focus on the bottom of the meniscus and report our rain amounts.

For the newest of observers, this is a list of stations that did not miss any days of reporting for the month of February, either with Daily Reports or with Multi-Day Reports, and did not overlap a Multi-Day Report across the beginning or the end of the month when precip occurred.

| <b>Watershed</b> | <b>Watershed Name</b>          | <b>Station Number</b> | <b>Station Name</b>  | <b>Precip</b> |
|------------------|--------------------------------|-----------------------|----------------------|---------------|
| 01070004         | Nashua                         |                       |                      |               |
| 0107000401       | North Nashua River             | MA-WR-44              | Westminster 0.6 WSW  | 3.06"         |
| 0107000401       | North Nashua River             | MA-WR-8               | Fitchburg 1.6 SSW    | 3.16"         |
| 0107000401       | North Nashua River             | MA-WR-52              | Fitchburg 2.3 N      | 3.12"         |
| 0107000401       | North Nashua River             | MA-WR-22              | Fitchburg 2.0 NNE    | 3.42"         |
| 0107000402       | Headwaters Nashua River        | MA-WR-56              | Sterling 4.3 NW      | 2.19"         |
| 0107000403       | Squannacook River              | MA-MD-47              | West Townsend 0.5 W  | 4.02"         |
| 01070005         | Concord                        |                       |                      |               |
| 0107000501       | Sudbury River                  | MA-MD-156             | Marlborough 2.8 ENE  | 3.38"         |
| 0107000502       | Concord River                  | MA-WR-30              | Shrewsbury 1.6 NNE   | 3.29"         |
| 0107000502       | Concord River                  | MA-WR-28              | Berlin 1.3 WSW       | 3.26"         |
| 0107000502       | Concord River                  | MA-WR-18              | Northborough 0.6 SSE | 3.27"         |
| 0107000502       | Concord River                  | MA-WR-42              | Northborough 2.3 N   | 2.97"         |
| 0107000502       | Concord River                  | MA-MD-115             | Hudson 1.4 NW        | 2.84"         |
| 0107000502       | Concord River                  | MA-WR-55              | Harvard 2.1 S        | 3.08"         |
| 0107000502       | Concord River                  | MA-MD-12              | Acton 1.3 SW         | 3.43"         |
| 0107000502       | Concord River                  | MA-MD-51              | Maynard 0.7 ESE      | 3.21"         |
| 01070006         | Merrimack River                |                       |                      |               |
| 0107000612       | Stony Brook - Merrimack River  | MA-MD-104             | Littleton 2.8 NNW    | 3.00"         |
| 0107000612       | Stony Brook - Merrimack River  | MA-MD-93              | Westford 1.5 SSW     | 1.67"         |
| 0107000613       | Shawsheen River                | MA-MD-52              | Lexington 0.6 SW     | 2.76"         |
| 0107000613       | Shawsheen River                | MA-ES-48              | Andover 0.6 E        | 3.52"         |
| 0107000614       | Powwow River - Merrimack River | MA-ES-20              | Haverhill 0.7 N      | 3.37"         |
| 0107000614       | Powwow River - Merrimack River | MA-ES-4               | Groveland 0.5 WSW    | 3.54"         |
| 0107000614       | Powwow River - Merrimack River | MA-ES-59              | Amesbury 1.2 N       | 3.83"         |
| 0107000614       | Powwow River - Merrimack River | MA-ES-56              | Newburyport 1.0 ESE  | 3.15"         |
| 01080201         | Middle Connecticut             |                       |                      |               |

|            |                                     |          |                           |       |
|------------|-------------------------------------|----------|---------------------------|-------|
| 0108020106 | Manhan River - Connecticut River    | MA-HS-2  | Westhampton 1.8 SW        | 3.57" |
| 0108020106 | Manhan River - Connecticut River    | MA-HS-8  | Williamsburg 1.2 WSW      | 3.65" |
| 0108020106 | Manhan River - Connecticut River    | MA-HS-26 | Easthampton 0.5 SW        | 3.41" |
| 0108020106 | Manhan River - Connecticut River    | MA-HS-21 | Northampton 0.6 ESE       | 3.30" |
| 0108020106 | Manhan River - Connecticut River    | MA-FR-12 | Sunderland 1.3 SE         | 3.56" |
| 0108020107 | Batchelor Brook - Connecticut River | MA-HD-13 | Springfield 4.1 W         | 3.03" |
| 01080202   | Miller                              |          |                           |       |
| 0108020201 | Upper Millers River                 | NH-CH-20 | Rindge 3.2 ESE            | 3.11" |
| 0108020202 | Lower Millers River                 | MA-WR-40 | Gardner 1.4 SSW           | 3.39" |
| 01080203   | Deerfield                           |          |                           |       |
| 0108020303 | North River                         | MA-FR-31 | Colrain 3.7 WNW           | 4.46" |
| 0108020305 | Lower Deerfield River               | MA-FR-17 | Buckland 1.8 ESE          | 4.21" |
| 0108020305 | Lower Deerfield River               | MA-FR-13 | Conway 2.9 NW             | 4.01" |
| 0108020305 | Lower Deerfield River               | MA-FR-25 | Conway 2.7 NW             | 3.91" |
| 0108020305 | Lower Deerfield River               | MA-FR-10 | Conway 0.9 SW             | 3.83" |
| 01080204   | Chicopee                            |          |                           |       |
| 0108020401 | Swift River                         | MA-FR-8  | New Salem 3.1 S           | 3.46" |
| 0108020402 | Ware River                          | MA-WR-54 | Barre 1.4 NNE             | 3.71" |
| 0108020403 | Quaboag River                       | MA-WR-75 | Warren 2.4 WSW            | 2.93" |
| 0108020404 | Chicopee River                      | MA-HD-25 | Ludlow 2.3 SW             | 3.03" |
| 01080205   | Lower Connecticut                   |          |                           |       |
| 0108020501 | Mill River - Connecticut River      | CT-HR-82 | Suffield 0.5 NNE          | 3.50" |
| 0108020501 | Mill River - Connecticut River      | CT-HR-57 | Suffield Depot 3.3 NNE    | 3.21" |
| 0108020501 | Mill River - Connecticut River      | CT-HR-5  | Enfield 1.5 SE            | 3.68" |
| 0108020502 | Scantic River                       | CT-TL-26 | Broad Brook 2.6 ESE       | 3.31" |
| 0108020502 | Scantic River                       | MA-HD-20 | Wilbraham 3.7 SSW         | 1.70" |
| 0108020502 | Scantic River                       | CT-TL-15 | Central Somers 0.3 N      | 3.36" |
| 0108020503 | Park River                          | CT-HR-39 | Farmington 1.6 SW         | 3.66" |
| 0108020503 | Park River                          | CT-HR-58 | West Hartford 2.1 NNE     | 3.17" |
| 0108020503 | Park River                          | CT-HR-85 | West Hartford 2.3 NNE     | 2.21" |
| 0108020504 | Hockanum River                      | CT-TL-19 | Vernon 2.8 N              | 3.56" |
| 0108020505 | Roaring Brook - Connecticut River   | CT-HR-6  | Wethersfield 1.2 WSW      | 3.73" |
| 0108020505 | Roaring Brook - Connecticut River   | CT-HR-68 | Rocky Hill 1.3 E          | 3.45" |
| 0108020505 | Roaring Brook - Connecticut River   | CT-HR-22 | East Hartford 1.3 E       | 3.30" |
| 0108020505 | Roaring Brook - Connecticut River   | CT-HR-7  | Central Manchester 2.7 SW | 3.38" |
| 0108020506 | Mattabesset River                   | CT-HR-15 | Southington 3.0 E         | 4.21" |
| 0108020506 | Mattabesset River                   | CT-HR-80 | Kensington 0.7 WSW        | 4.04" |
| 0108020506 | Mattabesset River                   | CT-HR-65 | Newington 1.9 SSW         | 3.81" |
| 0108020506 | Mattabesset River                   | CT-MD-25 | Middlefield 0.6 SE        | 3.73" |
| 0108020507 | Higganum Creek - Connecticut River  | CT-MD-23 | Higganum 0.7 N            | 3.80" |
| 0108020507 | Higganum Creek - Connecticut River  | CT-MD-26 | Higganum 0.8 NE           | 3.42" |

|            |   |           |                            |       |
|------------|---|-----------|----------------------------|-------|
| 0108020509 | Eightmile River - Connecticut River         | CT-MD-19  | Ivoryton 0.9 WSW           | 3.53" |
| 0108020509 | Eightmile River - Connecticut River         | CT-MD-18  | Essex Village 0.9 S        | 3.84" |
| 01080206   | Westfield                                   |           |                            |       |
| 0108020601 | Headwaters Westfield River                  | MA-HS-7   | Plainfield 2.2 SW          | 4.41" |
| 0108020603 | Outlet Westfield River                      | MA-HD-28  | Westfield 2.8 SE           | 3.35" |
| 0108020603 | Outlet Westfield River                      | MA-HD-29  | West Springfield 1.6 SSW   | 3.35" |
| 01080207   | Farmington                                  |           |                            |       |
| 0108020701 | Still River                                 | CT-LT-15  | Colebrook 1.0 NE           | 3.42" |
| 0108020702 | West Branch Farmington River                | CT-LT-18  | New Hartford Center 1.5 N  | 3.49" |
| 0108020704 | Headwaters Farmington River                 | CT-LT-9   | New Hartford Center 3.2 SW | 3.47" |
| 0108020705 | Salmon Brook                                | CT-HR-8   | North Granby 1.3 ENE       | 3.55" |
| 01090001   | Charles                                     |           |                            |       |
| 0109000101 | Plum Island Sound - Frontal Atlantic Ocean  | MA-ES-24  | Newburyport 0.8 SW         | 3.56" |
| 0109000102 | Ipswich River                               | MA-MD-85  | Wilmington 2.2 WNW         | 3.15" |
| 0109000102 | Ipswich River                               | MA-MD-125 | Tewksbury 3.6 SSE          | 3.60" |
| 0109000102 | Ipswich River                               | MA-MD-45  | Wilmington 1.5 NE          | 3.03" |
| 0109000102 | Ipswich River                               | MA-ES-58  | Middleton 1.4 SSW          | 3.75" |
| 0109000102 | Ipswich River                               | MA-ES-12  | Boxford 2.4 S              | 3.50" |
| 0109000102 | Ipswich River                               | MA-ES-2   | Beverly 2.8 NW             | 2.71" |
| 0109000103 | Essex River - Frontal Atlantic Ocean        | MA-ES-41  | Danvers 0.8 ESE            | 3.47" |
| 0109000103 | Essex River - Frontal Atlantic Ocean        | MA-ES-22  | Rockport 1.0 E             | 2.99" |
| 0109000104 | Saugus River - Frontal Broad Sound          | MA-MD-81  | Wakefield 0.5 NNW          | 3.08" |
| 0109000104 | Saugus River - Frontal Broad Sound          | MA-MD-126 | Melrose 0.5 NE             | 3.06" |
| 0109000104 | Saugus River - Frontal Broad Sound          | MA-ES-45  | Nahant 0.4 N               | 2.86" |
| 0109000104 | Saugus River - Frontal Broad Sound          | MA-ES-8   | Marblehead 0.8 SW          | 2.77" |
| 0109000105 | Mystic River - Frontal Boston Harbor        | MA-MD-123 | Lexington 1.3 SE           | 2.77" |
| 0109000105 | Mystic River - Frontal Boston Harbor        | MA-MD-7   | Winchester 0.7 SE          | 3.08" |
| 0109000105 | Mystic River - Frontal Boston Harbor        | MA-MD-44  | Medford 1.2 W              | 3.19" |
| 0109000105 | Mystic River - Frontal Boston Harbor        | MA-MD-11  | Cambridge 0.9 NNW          | 3.50" |
| 0109000105 | Mystic River - Frontal Boston Harbor        | MA-SF-10  | Chelsea 0.8 N              | 3.11" |
| 0109000106 | Upper Charles River                         | MA-WR-1   | Milford 2.3 NNW            | 3.45" |
| 0109000106 | Upper Charles River                         | MA-MD-106 | Holliston 2.4 W            | 3.50" |
| 0109000106 | Upper Charles River                         | MA-MD-42  | Holliston 0.8 S            | 3.39" |
| 0109000106 | Upper Charles River                         | MA-MD-158 | Sherborn 1.1 NW            | 3.11" |
| 0109000106 | Upper Charles River                         | MA-NF-11  | Millis 2.0 SW              | 3.49" |
| 0109000107 | Lower Charles River - Frontal Boston Harbor | MA-MD-120 | Natick 1.9 NNE             | 3.14" |
| 0109000107 | Lower Charles River - Frontal Boston Harbor | MA-MD-80  | Lincoln 1.5 SW             | 2.37" |
| 0109000107 | Lower Charles River - Frontal Boston Harbor | MA-NF-35  | Wellesley 0.1 W            | 3.16" |
| 0109000107 | Lower Charles River - Frontal Boston Harbor | MA-MD-71  | Newton 2.2 NNW             | 2.84" |
| 0109000107 | Lower Charles River - Frontal Boston Harbor | MA-MD-119 | Watertown 1.1 W            | 3.25" |
| 0109000107 | Lower Charles River - Frontal Boston Harbor | MA-MD-134 | Somerville 0.5 SSE         | 3.07" |

|            |   |          |                       |       |
|------------|---|----------|-----------------------|-------|
| 0109000107 | Lower Charles River - Frontal Boston Harbor | MA-SF-1  | Boston 0.5 WSW        | 4.97" |
| 0109000108 | Neponset River - Frontal Boston Harbor      | MA-NF-1  | Norwood 1.3 NW        | 3.22" |
| 0109000108 | Neponset River - Frontal Boston Harbor      | MA-NF-54 | Quincy 1.2 W          | 3.39" |
| 0109000109 | Whitmans Pond - Frontal Boston Harbor       | MA-NF-32 | Quincy 1.8 WSW        | 3.13" |
| 0109000109 | Whitmans Pond - Frontal Boston Harbor       | MA-PL-36 | Hingham 0.8 ESE       | 2.99" |
| 01090002   | Cape Cod                                    |          |                       |       |
| 0109000201 | North River - Frontal Massachusetts Bay     | MA-PL-5  | Kingston 3.3 WNW      | 3.51" |
| 0109000201 | North River - Frontal Massachusetts Bay     | MA-PL-30 | Duxbury 3.7 W         | 3.09" |
| 0109000201 | North River - Frontal Massachusetts Bay     | MA-PL-48 | Marshfield 1.5 NNW    | 3.23" |
| 0109000201 | North River - Frontal Massachusetts Bay     | MA-PL-47 | Plymouth 1.1 NNW      | 3.12" |
| 0109000202 | Cape Cod                                    | MA-BA-8  | Falmouth 1.8 WSW      | 3.55" |
| 0109000202 | Cape Cod                                    | MA-BA-2  | Falmouth 3.1 NNW      | 4.04" |
| 0109000202 | Cape Cod                                    | MA-BA-57 | Falmouth 5.7 N        | 3.89" |
| 0109000202 | Cape Cod                                    | MA-BA-13 | Falmouth 0.6 NNW      | 4.30" |
| 0109000202 | Cape Cod                                    | MA-BA-50 | Falmouth 5.4 NNE      | 3.67" |
| 0109000202 | Cape Cod                                    | MA-BA-17 | East Falmouth 1.2 WNW | 3.11" |
| 0109000202 | Cape Cod                                    | MA-BA-19 | East Falmouth 0.7 NW  | 4.38" |
| 0109000202 | Cape Cod                                    | MA-BA-3  | Falmouth 3.0 E        | 4.29" |
| 0109000202 | Cape Cod                                    | MA-BA-18 | Waquoit 0.6 SSW       | 4.21" |
| 0109000202 | Cape Cod                                    | MA-BA-47 | Mashpee 2.4 WSW       | 4.10" |
| 0109000202 | Cape Cod                                    | MA-BA-79 | Mashpee 0.8 SSW       | 4.06" |
| 0109000202 | Cape Cod                                    | MA-BA-78 | Mashpee 4.6 S         | 4.26" |
| 0109000202 | Cape Cod                                    | MA-BA-10 | East Sandwich 2.3 SE  | 4.32" |
| 0109000202 | Cape Cod                                    | MA-BA-59 | Barnstable 3.6 W      | 4.81" |
| 0109000202 | Cape Cod                                    | MA-BA-60 | Hyannis 0.7 WNW       | 4.22" |
| 0109000202 | Cape Cod                                    | MA-BA-76 | Barnstable 0.7 NE     | 4.15" |
| 0109000202 | Cape Cod                                    | MA-BA-22 | Yarmouth 0.9 NNW      | 4.32" |
| 0109000202 | Cape Cod                                    | MA-BA-72 | Yarmouth 2.0 S        | 4.42" |
| 0109000202 | Cape Cod                                    | MA-BA-1  | Yarmouth 2.3 SSE      | 4.23" |
| 0109000202 | Cape Cod                                    | MA-BA-77 | South Dennis 1.0 NW   | 4.42" |
| 0109000202 | Cape Cod                                    | MA-BA-80 | Brewster 1.4 W        | 4.16" |
| 0109000202 | Cape Cod                                    | MA-BA-52 | Truro 0.8 E           | 3.89" |
| 0109000202 | Cape Cod                                    | MA-BA-36 | Harwich 2.6 ENE       | 4.20" |
| 0109000202 | Cape Cod                                    | MA-BA-51 | Orleans 3.0 S         | 4.73" |
| 0109000202 | Cape Cod                                    | MA-BA-7  | Wellfleet 3.0 E       | 3.73" |
| 0109000202 | Cape Cod                                    | MA-BA-30 | Eastham 0.6 SW        | 3.66" |
| 0109000202 | Cape Cod                                    | MA-BA-43 | Chatham 0.4 WSW       | 4.52" |
| 0109000202 | Cape Cod                                    | MA-BA-65 | Chatham 0.2 SSE       | 3.14" |
| 0109000203 | Mattapoissett River - Frontal Buzzards Bay  | MA-PL-52 | Plymouth 10.6 SSE     | 4.39" |
| 0109000203 | Mattapoissett River - Frontal Buzzards Bay  | MA-BA-64 | Sandwich 1.5 SSE      | 3.83" |
| 0109000204 | Paskamanset River - Frontal Buzzards Bay    | MA-BR-14 | Dartmouth 2.5 SSW     | 3.57" |

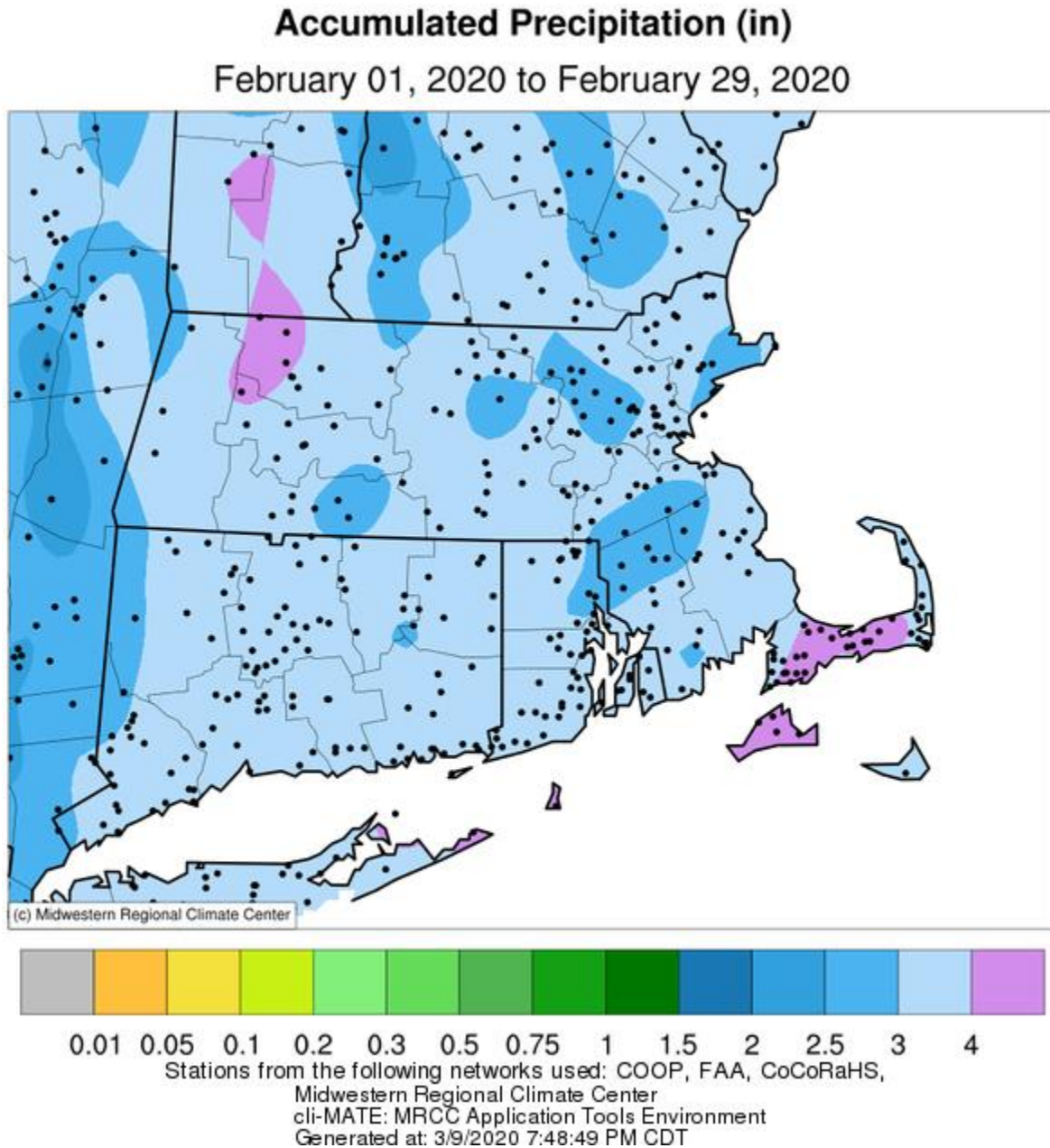


|            |  |          |                           |       |
|------------|--|----------|---------------------------|-------|
| 0109000204 | Paskamanset River - Frontal Buzzards Bay     | MA-BR-52 | New Bedford 4.3 N         | 3.73" |
| 0109000205 | Sakonnet Point - Frontal Rhode Island Sound  | RI-NW-5  | Little Compton 1.7 NW     | 3.56" |
| 0109000205 | Sakonnet Point - Frontal Rhode Island Sound  | RI-NW-17 | Tiverton 4.4 SSE          | 3.59" |
| 0109000205 | Sakonnet Point - Frontal Rhode Island Sound  | RI-NW-7  | Little Compton 0.6 E      | 3.52" |
| 0109000206 | Elizabeth Islands - Marthas Vineyard         | MA-DK-5  | West Tisbury 2.9 N        | 4.45" |
| 0109000206 | Elizabeth Islands - Marthas Vineyard         | MA-DK-2  | Vineyard Haven 0.8 WSW    | 4.04" |
| 01090003   | Blackstone                                   |          |                           |       |
| 0109000301 | Upper Blackstone River                       | MA-WR-41 | Auburn 2.6 SW             | 2.71" |
| 0109000301 | Upper Blackstone River                       | MA-WR-43 | Leicester 2.4 ESE         | 3.20" |
| 0109000301 | Upper Blackstone River                       | MA-WR-70 | Grafton 1.5 W             | 3.66" |
| 0109000302 | Lower Blackstone River                       | RI-PR-50 | Harrisville 1.2 SSE       | 3.55" |
| 0109000302 | Lower Blackstone River                       | RI-PR-28 | North Smithfield 0.7 SE   | 3.31" |
| 0109000302 | Lower Blackstone River                       | RI-PR-63 | Woonsocket 1.5 NW         | 3.33" |
| 0109000302 | Lower Blackstone River                       | RI-PR-45 | Manville 0.4 WSW          | 3.40" |
| 0109000302 | Lower Blackstone River                       | MA-NF-26 | Bellingham 2.4 S          | 3.04" |
| 0109000302 | Lower Blackstone River                       | RI-PR-55 | Cumberland Hill 3.6 NNE   | 2.95" |
| 01090004   | Narragansett                                 |          |                           |       |
| 0109000401 | Upper Taunton River                          | MA-BR-30 | Taunton 3.9 N             | 3.05" |
| 0109000401 | Upper Taunton River                          | MA-PL-51 | Brockton 1.6 SSW          | 3.16" |
| 0109000401 | Upper Taunton River                          | MA-PL-15 | Abington 1.2 NNE          | 2.64" |
| 0109000401 | Upper Taunton River                          | MA-PL-23 | Pembroke 2.8 SW           | 3.21" |
| 0109000402 | Middle Taunton River                         | MA-PL-31 | Bridgewater 1.8 SE        | 2.96" |
| 0109000402 | Middle Taunton River                         | MA-PL-17 | Plympton 0.9 NNE          | 3.16" |
| 0109000403 | Threemile River                              | MA-NF-19 | Foxborough 1.8 SSW        | 2.43" |
| 0109000403 | Threemile River                              | MA-BR-55 | NWS Boston/Norton 2.5 ESE | 2.82" |
| 0109000404 | Ten Mile River                               | MA-BR-23 | Attleboro 0.9 ENE         | 2.74" |
| 0109000405 | Woonasquatucket River-Moshassuck River       | RI-PR-33 | Greenville 0.7 NNW        | 3.21" |
| 0109000405 | Woonasquatucket River-Moshassuck River       | RI-PR-51 | North Smithfield 0.6 S    | 3.30" |
| 0109000405 | Woonasquatucket River-Moshassuck River       | RI-PR-53 | Providence 1.7 N          | 2.68" |
| 0109000406 | Pawtuxet River                               | RI-KN-21 | Coventry 1.9 NE           | 2.78" |
| 0109000406 | Pawtuxet River                               | RI-PR-57 | Cranston 1.2 SSE          | 2.98" |
| 0109000406 | Pawtuxet River                               | RI-PR-44 | Cranston 4.2 ENE          | 3.08" |
| 0109000407 | Palmer River                                 | MA-BR-2  | Rehoboth 2.1 N            | 2.80" |
| 0109000408 | Lower Taunton River - Frontal Mount Hope Bay | MA-BR-61 | Mansfield 2.4 ENE         | 3.02" |
| 0109000408 | Lower Taunton River - Frontal Mount Hope Bay | MA-BR-3  | Norton 1.8 NNE            | 2.96" |
| 0109000408 | Lower Taunton River - Frontal Mount Hope Bay | MA-BR-58 | Dighton 3.3 NNW           | 2.79" |
| 0109000408 | Lower Taunton River - Frontal Mount Hope Bay | MA-BR-8  | Dighton 1.1 WSW           | 3.55" |
| 0109000409 | Narragansett Bay                             | RI-KN-17 | East Greenwich 1.2 NNE    | 3.44" |
| 0109000409 | Narragansett Bay                             | RI-WS-54 | North Kingstown 2.7 WSW   | 3.90" |
| 0109000409 | Narragansett Bay                             | RI-WS-50 | North Kingstown 3.1 NW    | 4.04" |
| 0109000409 | Narragansett Bay                             | RI-WS-31 | Kingston 7.5 NNE          | 3.43" |

|            |   |          |                                   |       |
|------------|---|----------|-----------------------------------|-------|
| 0109000409 | Narragansett Bay                            | RI-KN-15 | Warwick 4.3 SSW                   | 3.47" |
| 0109000409 | Narragansett Bay                            | RI-KN-2  | East Greenwich 2.3 ESE            | 3.11" |
| 0109000409 | Narragansett Bay                            | RI-KN-23 | Warwick 3.2 NNE                   | 2.92" |
| 0109000409 | Narragansett Bay                            | RI-PR-67 | Providence 1.6 NE                 | 3.02" |
| 0109000409 | Narragansett Bay                            | RI-NW-18 | Jamestown 0.3 SSE                 | 3.44" |
| 0109000409 | Narragansett Bay                            | RI-BR-5  | Barrington 1.3 WNW                | 3.04" |
| 0109000409 | Narragansett Bay                            | RI-NW-4  | Middletown 1.1 SW                 | 2.10" |
| 0109000409 | Narragansett Bay                            | RI-NW-19 | Portsmouth 2.3 S                  | 3.53" |
| 0109000409 | Narragansett Bay                            | RI-NW-16 | Portsmouth 1.3 S                  | 3.94" |
| 0109000409 | Narragansett Bay                            | RI-NW-20 | Tiverton 1.0 SSW                  | 3.51" |
| 01090005   | Pawcatuck-Wood                              |          |                                   |       |
| 0109000501 | Wood River                                  | RI-WS-1  | Hope Valley 3.7 S                 | 3.27" |
| 0109000502 | Upper Pawcatuck River                       | RI-WS-46 | Westerly 3.4 E                    | 3.51" |
| 0109000502 | Upper Pawcatuck River                       | RI-WS-51 | Richmond 2.4 SSE                  | 3.45" |
| 0109000502 | Upper Pawcatuck River                       | RI-WS-42 | Richmond 4.6 NNE                  | 3.34" |
| 0109000502 | Upper Pawcatuck River                       | RI-WS-45 | Charlestown 4.7 NNE               | 3.51" |
| 0109000502 | Upper Pawcatuck River                       | RI-WS-37 | Kingston 2.4 SW                   | 3.47" |
| 0109000503 | Lower Pawcatuck River                       | CT-NL-40 | Pawcatuck 1.8 SSE                 | 3.66" |
| 0109000503 | Lower Pawcatuck River                       | RI-WS-47 | Westerly 0.8 WNW                  | 2.00" |
| 0109000504 | Frontal Block Island Sound                  | RI-WS-36 | Charlestown 3.0 WSW               | 3.79" |
| 0109000504 | Frontal Block Island Sound                  | RI-WS-26 | Charlestown 1.1 ENE               | 3.82" |
| 0109000504 | Frontal Block Island Sound                  | RI-WS-55 | Wakefield 0.8 ENE                 | 3.74" |
| 0109000504 | Frontal Block Island Sound                  | RI-WS-52 | Wakefield-Peacedale 3.1 NE        | 3.75" |
| 01100001   | Quinebaug                                   |          |                                   |       |
| 0110000102 | French River                                | MA-WR-68 | Oxford 0.9 SSW                    | 3.26" |
| 0110000103 | Fivemile River                              | CT-WN-4  | East Killingly 1.3 SW             | 3.19" |
| 0110000105 | Moosup River                                | CT-WN-8  | Moosup 1.7 NE                     | 2.90" |
| 0110000106 | Pachaug River                               | CT-NL-21 | Griswold 0.9 N                    | 2.98" |
| 01100002   | Shetucket                                   |          |                                   |       |
| 0110000201 | Willimantic River                           | CT-TL-2  | Staffordville 0.4 NNW             | 3.11" |
| 0110000202 | Natchaug River                              | CT-TL-30 | Mansfield Center 2.7 NE           | 3.36" |
| 0110000202 | Natchaug River                              | CT-WN-12 | Eastford 2.0 W                    | 3.43" |
| 0110000203 | Shetucket River                             | CT-NL-10 | Norwich 2.5 NNE                   | 3.83" |
| 01100003   | Thames                                      |          |                                   |       |
| 0110000302 | Thames River-Frontal New London Harbor      | CT-NL-6  | New London 1.0 NNW                | 3.83" |
| 0110000302 | Thames River-Frontal New London Harbor      | CT-NL-8  | Uncasville-Oxoboxo Valley 1.6 ENE | 3.30" |
| 0110000303 | Mystic River - Frontal Fishers Island Sound | CT-NL-38 | Old Lyme 3.4 ESE                  | 3.97" |
| 0110000303 | Mystic River - Frontal Fishers Island Sound | CT-NL-22 | Central Waterford 2.7 SSW         | 3.75" |
| 0110000303 | Mystic River - Frontal Fishers Island Sound | CT-NL-24 | Stonington 1.4 NNW                | 3.73" |
| 0110000303 | Mystic River - Frontal Fishers Island Sound | CT-NL-18 | Stonington 0.5 NNE                | 3.23" |
| 01100004   | Quinnipiac                                  |          |                                   |       |

|            |   |           |                            |       |
|------------|---|-----------|----------------------------|-------|
| 0110000401 | Quinnipiac River                              | CT-NH-14  | Prospect 1.9 ENE           | 3.83" |
| 0110000401 | Quinnipiac River                              | CT-HR-23  | Southington 0.9 SSE        | 3.75" |
| 0110000401 | Quinnipiac River                              | CT-HR-76  | Southington 1.0 ENE        | 3.40" |
| 0110000401 | Quinnipiac River                              | CT-NH-44  | Wallingford Center 1.9 WNW | 4.06" |
| 0110000401 | Quinnipiac River                              | CT-NH-43  | Wallingford Center 3.3 NNW | 4.07" |
| 0110000401 | Quinnipiac River                              | CT-NH-42  | Wallingford Center 1.1 N   | 3.93" |
| 0110000402 | Hammonasset River - Frontal Long Island Sound | CT-NH-50  | Madison Center 4.1 N       | 3.79" |
| 0110000402 | Hammonasset River - Frontal Long Island Sound | CT-MD-21  | Killingworth 2.6 ESE       | 3.61" |
| 0110000402 | Hammonasset River - Frontal Long Island Sound | CT-MD-27  | Clinton 3.7 N              | 4.02" |
| 0110000403 | Mill River - Frontal Long Island Sound        | CT-NH-57  | New Haven 2.9 NNW          | 3.92" |
| 01100005   | Housatonic                                    |           |                            |       |
| 0110000501 | Headwaters Housatonic River                   | MA-BE-11  | Great Barrington 3.0 N     | 2.91" |
| 0110000501 | Headwaters Housatonic River                   | MA-BE-3   | Stockbridge .2 NNE         | 3.22" |
| 0110000504 | Macedonia Brook - Housatonic River            | CT-LT-20  | Warren 2.4 WNW             | 2.79" |
| 0110000506 | Candlewood Lake-Housatonic River              | CT-LT-22  | New Milford 5.3 SSW        | 2.96" |
| 0110000508 | Still River - Housatonic River                | CT-FR-41  | Bethel 3.5 NNE             | 3.18" |
| 0110000508 | Still River - Housatonic River                | CT-FR-9   | Brookfield 3.3 SSE         | 2.97" |
| 0110000511 | Headwaters Naugatuck River                    | CT-LT-7   | Litchfield 2.3 NNE         | 3.45" |
| 0110000512 | Outlet Naugatuck River                        | CT-NH-47  | Seymour 1.5 NE             | 3.65" |
| 0110000512 | Outlet Naugatuck River                        | CT-NH-45  | Naugatuck 1.7 NNE          | 3.13" |
| 0110000512 | Outlet Naugatuck River                        | CT-NH-22  | Prospect 0.5 SW            | 3.29" |
| 0110000513 | Housatonic River - Frontal Long Island Sound  | CT-FR-23  | Shelton 1.3 W              | 3.42" |
| 0110000513 | Housatonic River - Frontal Long Island Sound  | CT-FR-46  | Stratford 0.2 ESE          | 3.99" |
| 01100006   | Saugatuck                                     |           |                            |       |
| 0110000601 | Saugatuck River - Frontal Long Island Sound   | CT-FR-58  | Ridgefield 3.6 N           | 3.04" |
| 0110000601 | Saugatuck River - Frontal Long Island Sound   | CT-FR-64  | Bethel 4.5 SSE             | 3.32" |
| 0110000601 | Saugatuck River - Frontal Long Island Sound   | CT-FR-31  | Newtown 4.6 SSW            | 3.34" |
| 0110000602 | Norwalk River - Frontal Norwalk Harbor        | CT-FR-29  | Ridgefield 1.9 SSE         | 3.51" |
| 0110000602 | Norwalk River - Frontal Norwalk Harbor        | CT-FR-63  | Wilton 1.9 NW              | 4.81" |
| 0110000602 | Norwalk River - Frontal Norwalk Harbor        | CT-FR-3   | New Canaan 1.9 ENE         | 3.71" |
| 0110000602 | Norwalk River - Frontal Norwalk Harbor        | CT-FR-25  | Norwalk 2.9 NNW            | 3.36" |
| 0110000603 | Pequonnock River - Frontal Long Island Sound  | CT-FR-20  | Westport 2.5 ENE           | 3.77" |
| 0110000603 | Pequonnock River - Frontal Long Island Sound  | CT-FR-60  | Fairfield 1.5 NE           | 3.56" |
| 0110000603 | Pequonnock River - Frontal Long Island Sound  | CT-FR-26  | Stratford 0.9 W            | 3.47" |
| 0110000604 | Mianus River-Rippowam River                   | CT-FR-50  | Darien 2.8 NW              | 3.30" |
| 02020003   | Hudson-Hoosic                                 |           |                            |       |
| 0202000306 | Upper Hoosic River                            | MA-BE-21  | Cheshire 0.5 NNW           | 4.38" |
| 02020006   | Middle Hudson                                 |           |                            |       |
| 0202000603 | Wynants Kill – Hudson River                   | NY-AB-21  | NWS Albany                 | 2.33" |
| 02030203   | Long Island Sound                             |           |                            |       |
| 0203020300 | Long Island Sound                             | NY-SF-114 | Fishers Island 0.5 NE      | 4.00" |

Pink colors for over 4" of precip. Great definition on the Cape and in western reaches of Franklin and Hampshire Counties of MA.



### **“We do not live at the airport”**

The CoCoRaHS stations listed averaged 3.45” of precip for February 2020. The list of airport stations averaged 3.03”. Sure, our Cape Cod stations made a strong showing, raising the average. But there is something more. What could it be? Ready?

Our network does not use automated gauges! And we do not live at the airport!

| Location            | Station ID | Feb 2020 Precip | Feb departure from normal | Dec-Jan-Feb Precip | 3 month departure from normal | Sep-Feb Precip | 6 month departure from normal | Mar-Feb Precip | 12 month departure from normal |
|---------------------|------------|-----------------|---------------------------|--------------------|-------------------------------|----------------|-------------------------------|----------------|--------------------------------|
| White Plains NY     | HPN        | 2.45"           | -0.54"                    | 10.16"             | -0.93"                        | 21.12"         | -3.07"                        | 47.96"         | -1.39"                         |
| Danbury CT          | DXR        | 2.35"           | -0.42"                    | 9.67"              | -0.56"                        | 20.30"         | -3.19"                        | 42.42"         | -7.45"                         |
| New Haven CT        | HVN        | 2.80"           | -0.09"                    | 10.98"             | 1.29"                         | 20.26"         | -1.97"                        | 45.86"         | -1.25"                         |
| Meriden CT          | MMK        | 3.79"           | 0.90"                     | 13.71"             | 4.02"                         | 26.30"         | 4.07"                         | 46.21"         | -0.90"                         |
| Hartford CT         | HFD        | 3.24"           | 0.59"                     | 9.17"              | 0.02"                         | 18.79"         | -1.82"                        | 44.87"         | 1.27"                          |
| Willimantic CT      | IJD        | 2.12"           | -0.86"                    | 9.07"              | -1.61"                        | 19.87"         | -3.54"                        | 42.84"         | -5.58"                         |
| New London CT       | GON        | 3.19"           | 0.33"                     | 10.28"             | 0.42"                         | 21.54"         | -0.49"                        | 50.12"         | 3.63"                          |
| Westerly RI         | WST        | 2.63"           | -0.37"                    | 9.62"              | -0.53"                        | 21.68"         | -0.83"                        | 53.82"         | 6.43"                          |
| Newport RI          | UUU        | 3.30"           | 0.17"                     | 8.67"              | -1.87"                        | 18.84"         | -3.93"                        | 44.09"         | -2.24"                         |
| New Bedford MA      | EWB        | 1.71"           | -1.96"                    | 9.00"              | -2.57"                        | 16.46"         | -7.49"                        | 38.18"         | -10.18"                        |
| Hyannis MA          | HYA        | 3.48"           | -0.04"                    | 13.13"             | 1.30"                         | 27.06"         | 2.77"                         | 51.06"         | 3.37"                          |
| Nantucket MA        | ACK        | 3.75"           | 1.03"                     | 13.02"             | 2.89"                         | 25.70"         | 3.18"                         | 44.38"         | -0.04"                         |
| Marthas Vineyard MA | MVY        | 3.78"           | 0.60"                     | 12.88"             | 2.47"                         | 25.75"         | 2.53"                         | 48.35"         | 3.19"                          |
| Taunton MA          | TAN        | 2.89"           | -0.67"                    | 12.17"             | 0.31"                         | 23.24"         | -1.73"                        | 46.27"         | -3.47"                         |
| Plymouth MA         | PYM        | 3.27"           | -0.33"                    | 14.19"             | 2.51"                         | 28.66"         | 4.32"                         | 57.57"         | 8.42"                          |
| Norwood MA          | OWD        | 3.24"           | -0.01"                    | 10.07"             | -0.69"                        | 20.06"         | -3.08"                        | 44.11"         | -2.95"                         |
| Bedford MA          | BED        | 2.67"           | -0.34"                    | 9.25"              | -0.91"                        | 18.80"         | -3.43"                        | 42.32"         | -3.39"                         |
| Beverly MA          | BVY        | 3.14"           | -0.14"                    | 11.40"             | 1.40"                         | 20.62"         | -1.95"                        | 43.50"         | -2.68"                         |
| Lawrence MA         | LWM        | 3.06"           | 0.27"                     | 10.49"             | 1.70"                         | 20.35"         | 0.05"                         | 42.49"         | -0.67"                         |
| Fitchburg MA        | FIT        | 3.05"           | 0.05"                     | 5.00"              | -5.07"                        | 12.10"         | -10.35"                       | 37.06"         | -10.08"                        |
| Orange MA           | ORE        | 2.95"           | 0.30"                     | 9.88"              | 1.30"                         | 19.54"         | -0.26"                        | 43.12"         | 0.57"                          |
| Westfield MA        | BAF        | 2.92"           | 0.09"                     | 10.00"             | 0.48"                         | 21.28"         | -1.60"                        | 42.39"         | -6.00"                         |
| North Adams MA      | AQW        | 2.77"           | 0.20"                     | 7.36"              | -1.25"                        | 18.27"         | -3.15"                        | 38.80"         | -7.81"                         |



## **Rulers of the Snow**

We are the Rulers of the Snow. We define where the snow is and where it is not.

It stays stretched to the next page! A long list of 64 stations, those that measured snow fall and snow depth for all days in February. Even on Marthas Vineyard! Even on Fishers Island!

811 stations throughout the network reported snow fall and snow depth in February. 64 or 8% of them are listed here. Way to go!

Keep making this list even longer. Make a snow fall and snow depth measurement with every Daily Report, if you can safely do so, ***all year round.***

| Station   | Name                       | Feb 2020 Snowfall | Station  | Name                       | Feb 2020 Snowfall |
|-----------|----------------------------|-------------------|----------|----------------------------|-------------------|
| MA-BE-21  | Cheshire 0.5 NNW           | 13.0"             | CT-FR-3  | New Canaan 1.9 ENE         | 0.0"              |
| MA-HS-7   | Plainfield 2.2 SW          | 11.2"             | CT-FR-41 | Bethel 3.5 NNE             | 0.0"              |
| MA-FR-17  | Buckland 1.8 ESE           | 10.2"             | CT-FR-9  | Brookfield 3.3 SSE         | 0.0"              |
| MA-FR-13  | Conway 2.9 NW              | 8.4"              | CT-NH-43 | Wallingford Center 3.3 NNW | 0.0"              |
| MA-FR-10  | Conway 0.9 SW              | 6.5"              | CT-NH-57 | New Haven 2.9 NNW          | 0.0"              |
| MA-ES-4   | Groveland 0.5 WSW          | 4.5"              | CT-HR-22 | East Hartford 1.3 E        | 0.0"              |
| MA-ES-48  | Andover 0.6 E              | 3.9"              | CT-MD-21 | Killingworth 2.6 ESE       | 0.0"              |
| CT-LT-15  | Colebrook 1.0 NE           | 3.6"              | CT-MD-23 | Higganum 0.7 N             | 0.0"              |
| MA-ES-12  | Boxford 2.4 S              | 3.6"              | CT-NL-10 | Norwich 2.5 NNE            | 0.0"              |
| MA-MD-125 | Tewksbury 3.6 SSE          | 3.1"              | CT-NL-21 | Griswold 0.9 N             | 0.0"              |
| MA-MD-12  | Acton 1.3 SW               | 2.6"              | CT-NL-24 | Stonington 1.4 NNW         | 0.0"              |
| CT-LT-9   | New Hartford Center 3.2 SW | 2.4"              | RI-PR-44 | Cranston 4.2 ENE           | 0.0"              |
| MA-WR-42  | Northborough 2.3 N         | 2.3"              | RI-KN-2  | East Greenwich 2.3 ESE     | 0.0"              |
| MA-FR-12  | Sunderland 1.3 SE          | 2.2"              | RI-WS-42 | Richmond 4.6 NNE           | 0.0"              |
| MA-ES-41  | Danvers 0.8 ESE            | 2.1"              | RI-WS-46 | Westerly 3.4 E             | 0.0"              |
| MA-HS-26  | Easthampton 0.5 SW         | 2.0"              | RI-WS-47 | Westerly 0.8 WNW           | 0.0"              |
| MA-MD-51  | Maynard 0.7 ESE            | 1.9"              | RI-WS-55 | Wakefield 0.8 ENE          | 0.0"              |
| MA-MD-156 | Marlborough 2.8 ENE        | 1.7"              | RI-NW-18 | Jamestown 0.3 SSE          | 0.0"              |
| CT-HR-8   | North Granby 1.3 ENE       | 1.5"              | RI-NW-7  | Little Compton 0.6 E       | 0.0"              |
| MA-MD-126 | Melrose 0.5 NE             | 1.5"              | MA-BR-23 | Attleboro 0.9 ENE          | 0.0"              |
| MA-MD-7   | Winchester 0.7 SE          | 1.4"              | MA-BR-30 | Taunton 3.9 N              | 0.0"              |

|          |                        |      |           |                           |      |
|----------|------------------------|------|-----------|---------------------------|------|
| MA-HD-25 | Ludlow 2.3 SW          | 0.8" | MA-BR-55  | NWS Boston/Norton 2.5 ESE | 0.0" |
| CT-WN-8  | Moosup 1.7 NE          | 0.6" | MA-BR-8   | Dighton 1.1 WSW           | 0.0" |
| CT-WN-4  | East Killingly 1.3 SW  | 0.5" | MA-PL-31  | Bridgewater 1.8 SE        | 0.0" |
| MA-NF-1  | Norwood 1.3 NW         | 0.5" | MA-BA-18  | Waquoit 0.6 SSW           | 0.0" |
| MA-BA-64 | Sandwich 1.5 SSE       | 0.5" | MA-BA-2   | Falmouth 3.1 NNW          | 0.0" |
| RI-PR-33 | Greenville 0.7 NNW     | 0.4" | MA-BA-3   | Falmouth 3.0 E            | 0.0" |
| RI-PR-51 | North Smithfield 0.6 S | 0.3" | MA-BA-50  | Falmouth 5.4 NNE          | 0.0" |
| MA-NF-11 | Millis 2.0 SW          | 0.3" | MA-BA-72  | Yarmouth 2.0 S            | 0.0" |
| MA-BA-47 | Mashpee 2.4 WSW        | 0.2" | MA-BA-76  | Barnstable 0.7 NE         | 0.0" |
| CT-FR-23 | Shelton 1.3 W          | 0.0" | MA-DK-2   | Vineyard Haven 0.8 WSW    | 0.0" |
| CT-FR-25 | Norwalk 2.9 NNW        | 0.0" | NY-SF-114 | Fishers Island 0.5 NE     | 0.0" |

February 2020 as a calendar. A count of your Daily Reports by Date. Magenta colors are for the highest counts. Lime green color for the lowest counts.

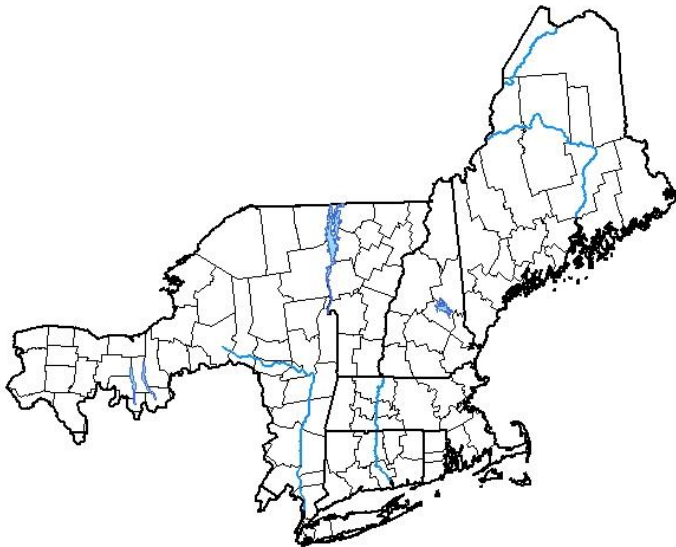
304 Reports per Day was our record reporting average for February.

| February 2020 |           |           |           |           |           |           |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sun           | Mon       | Tue       | Wed       | Thu       | Fri       | Sat       |
|               |           |           |           |           |           | 1<br>315  |
| 2<br>309      | 3<br>308  | 4<br>313  | 5<br>327  | 6<br>318  | 7<br>313  | 8<br>300  |
| 9<br>296      | 10<br>311 | 11<br>312 | 12<br>309 | 13<br>307 | 14<br>302 | 15<br>282 |
| 16<br>284     | 17<br>287 | 18<br>293 | 19<br>305 | 20<br>301 | 21<br>298 | 22<br>294 |
| 23<br>293     | 24<br>297 | 25<br>308 | 26<br>316 | 27<br>321 | 28<br>305 | 29<br>289 |

Our last widespread wet month was December. A wet month of March would be welcomed and put us in a good spot for the upcoming growing season.

Every drop counts and zeros do too!

## U.S. Drought Monitor Northeast RFC



**March 3, 2020**

*(Released Thursday, Mar. 5, 2020)*

Valid 7 a.m. EST

*Drought Conditions (Percent Area)*

|   | None   | D0    | D1   | D2   | D3   | D4   |
|---|--------|-------|------|------|------|------|
| <b>Current</b>                              | 100.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Last Week</b><br>02-25-2020              | 100.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>3 Months Ago</b><br>12-03-2019           | 100.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Start of Calendar Year</b><br>12-31-2019 | 100.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Start of Water Year</b><br>10-01-2019    | 66.91  | 33.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>One Year Ago</b><br>03-05-2019           | 100.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 |

### Intensity:

|                     |                        |
|---------------------|------------------------|
| None                | D2 Severe Drought      |
| D0 Abnormally Dry   | D3 Extreme Drought     |
| D1 Moderate Drought | D4 Exceptional Drought |

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>*

### Author:

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NOAA/NWS/NCEP/CPC



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

For a viewing explanation on the Drought Monitor, the CoCoRaHS animated video is on [YouTube](#).

## **Wrap up**

If this is your very first Newsletter, and you made it to this conclusion, congratulations are in order! We put this together every month through the year. Our Founder, Nolan Doesken, sends out a Newsletter as well, several times a year, so your email box should not stay quiet for long.

If you are new to the crew, do not all of this overwhelm you. Start off small, get into the morning routine of submitting Daily Reports and grow from there. You should not be bored. There is always more to learn, and there are many more dimensions to our roles as observers. And if you have questions, want to know more why we do what we do, or how to do something, email is the best way to get a hold of a Coordinator.

The vernal equinox occurs on Thursday, March 19<sup>th</sup> at 11:50PM, the earliest equinox in 124 years! Having Leap Day helps make the equinox early on the calendar. Equal hours of daylight and darkness for all points on our planet, as we continue our transition to summer.

Should we get a dry, maybe windy, sun-filled stretch of weather, especially in April before the leaves come on the trees, be aware of Fire Weather. April and October are our prime Fire Weather months. No leaves on trees to keep the sun from shining on the forest floor, no snow cover, low dew points. Combine the time of year, days without rain, a windy day, with our somewhat dense population, and brush fires often occur.

SkyWarn classes are starting this spring. Although not a requirement as a CoCoRaHS observer, it is recommended to attend a SkyWarn session at some point, if there is a session nearby. Learn about wind related hazards, more about your local NWS Forecast Office, and SkyWarn's reporting criteria. Please look at your local NWS Forecast Office's website for dates and times. BOX has a web site for their [schedule](#). Dates, times and locations to follow.

Thank you for all that you do for CoCoRaHS, whether in the past, present and in the days to come.