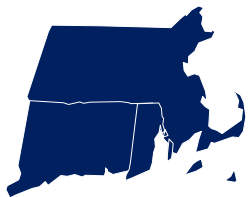
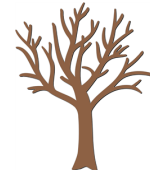




# Southern



# New England

**February 2020**

"Now my forecast on a day that's a palindrome will cause some to cheer and some to moan. So, do I hope you think it's neighborly, for there is no shadow of me, spring it'll be early, it's a certainty!!" With those words, the Groundhog predicts an early Spring.

With our measurements of precipitation, snow fall and snow depth, we are not finding much cold and snow to this winter season. With winter half over, we will see whether this Groundhog is right.

Below normal precipitation for January, and below normal snow fall as well. Above normal reporting from all of you. A single month record of Daily Reports for each reporting observer. A long list of stations for precip totals, and our Rulers of the Snow section extends to a 2<sup>nd</sup> page.

Joe has an article about a study underway for Atlantic Coast Snowstorms, called IMPACTS. More observer tips, snow totals for the Eastern Region, an anniversary to mention, and some more history to go along with it. Plenty about your reports to kick off the start of Year 2020.

We start off with more observers making our "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-NF-1     Norwood 1.3 NW

### **2000 Daily Reports**

MA-MD-25   Ayer 0.1 SW  
MA-HS-8     Williamsburg 1.2 WSW

### **1000 Daily Reports**

RI-NW-16    Portsmouth 1.3 S  
CT-FR-50    Darien 2.8 NW  
MA-FR-25    Conway 2.7 NW  
MA-WR-55    Harvard 2.1 S

## **NASA IMPACTS Project**

Winter storms that affect the East Coast cause major disruptions to transportation, commerce, and public safety. Snowfall within these storms is frequently organized in banded structures that are poorly understood by scientists and poorly predicted by weather models. This winter, NASA is sponsoring the first major study of East Coast snowstorms in 30 years. Known as “IMPACTS” (Investigation of Microphysics and Precipitation for Atlantic Coast-Threatening Snowstorms), the project involves gathering environmental data from two aircraft originating from Wallops Island VA and land-based stations (including upper air balloons). [YouTube Video](#)

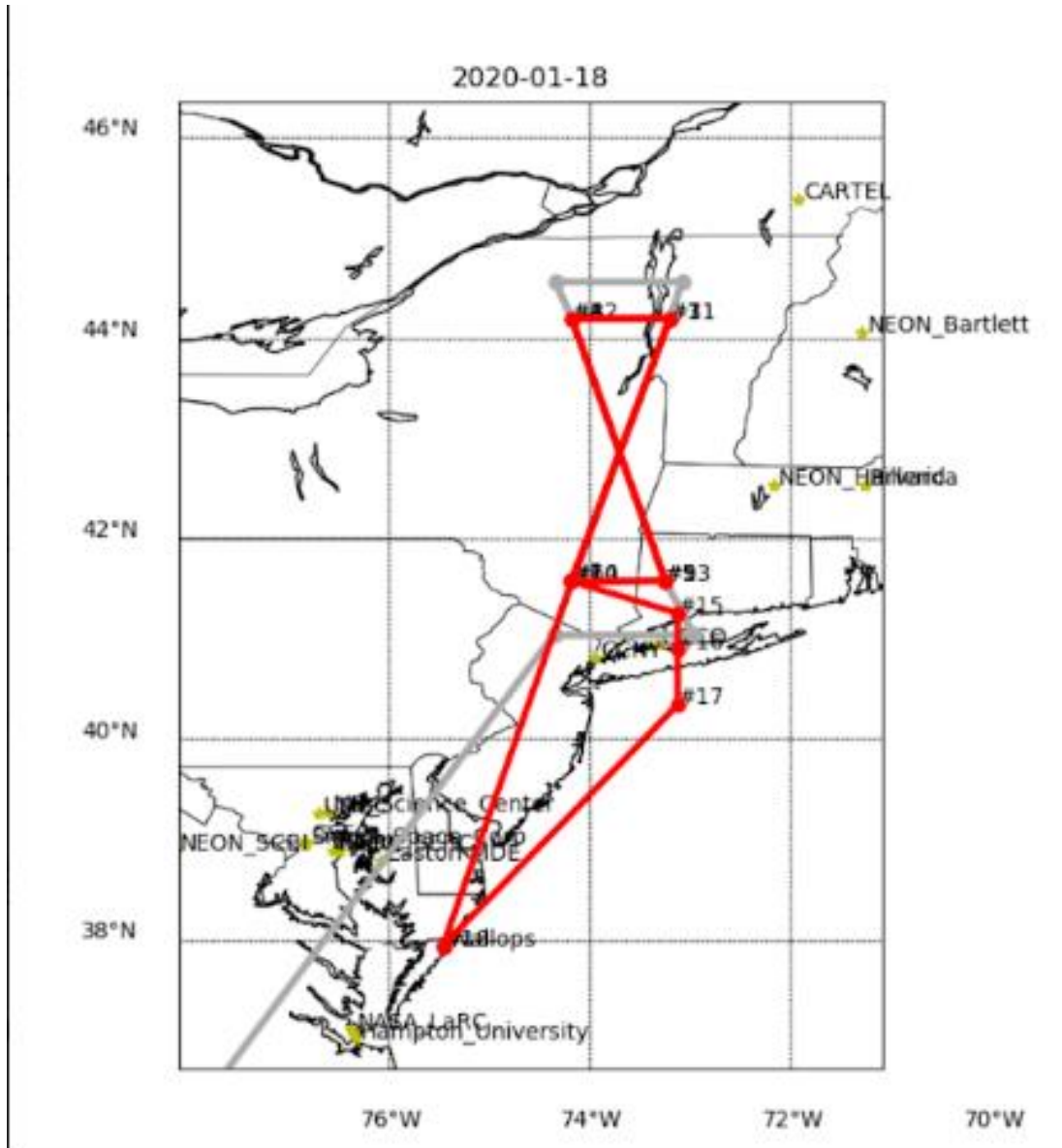
IMPACTS will address three specific objectives:

- Characterize the spatial and temporal scales and structures of snowbands in East Coast winter storms.
- Understand the environmental processes that produce these snowbands.
- Apply this understanding to improve remote sensing and modeling, with the goal of improving forecasts.



NASA'S P-3 AND ER-2 RESEARCH PLANES ARE STUDYING EAST COAST SNOWSTORMS. CREDIT: NASA

The project began in January and will continue through March. Even though it hasn't been too stormy lately, data has been collected for several events so far. The map below shows the flights that were conducted on January 18<sup>th</sup> prior to the winter storm that affected parts of the Northeast.



FLIGHT PATHS CONDUCTED BY RESEARCH AIRCRAFT (RED AND GRAY LINES) AND LAND-BASED OBSERVATIONS ON JANUARY 18, 2020.

Your CoCoRaHS reports are also part of the project. Researchers will be gathering reports of snowfall, precipitation, and snow water equivalent to help determine how much snow fell in each storm, as well as the consistency of the snow. The more you can report, the more assistance you can provide to IMPACTS!

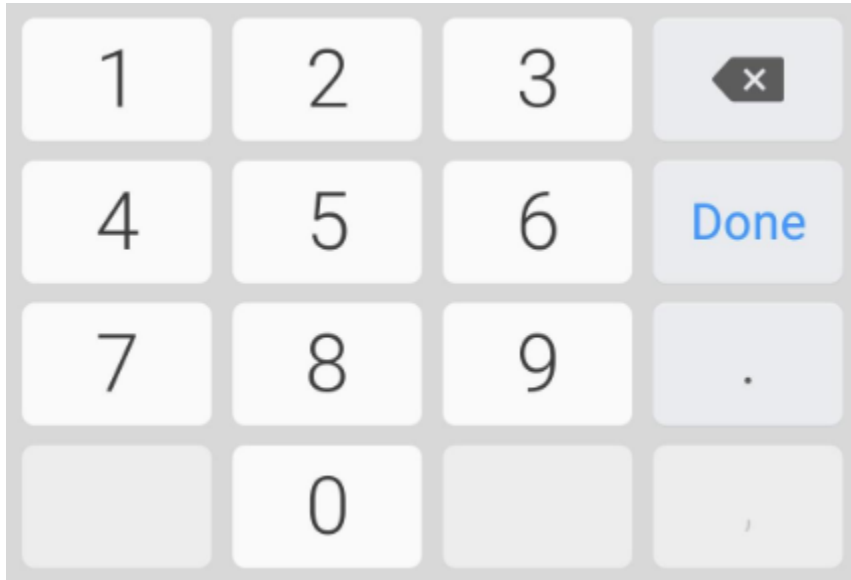
## **Observer Tips**

**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.
  
  - ✓ If you use a 2<sup>nd</sup> outer cylinder for snow measurements, keep the 2<sup>nd</sup> outer cylinder outdoors and covered, shortly before use, so that the cylinder is not at indoor temperature and the snow does not stick to its sides.
  
  - ✓ Mistakes happen with reporting, not with measuring. Look over your report after you submit, either with the web site, or with the “History” function on the mobile app. There is a pencil icon to use to change a report with the web site. With the mobile app, there is a “History” function and a “Tap to Edit” feature to change a report.

And that leads us into a reporting phenomenon that reminds me of the card game called....

**Crazy 8's:** Look over the map of reports and see 8's reported amongst many other zeros. It certainly does not look right. How can that happen?



The number pad with the mobile app, is different than the number pad on most personal computers and laptops.

Compound that with the default values with the iOS (Apple iPhone and iPad) reporting app being "NA".

Using the mobile app,

a well-intentioned observer attempts to enter 0's, but enters 8's instead. It looks crazy!! It must be Crazy 8's!!

Regardless of website, or Android or iOS mobile app, please check over your reports after entry. Mistakes tend to happen with reporting, not with measuring. No, it wasn't anyone in our three states.

**SWE Monday:** Rather than cut snow cores every day, our network asks that you cut cores on the total snow and ice for your Monday morning report, called SWE Monday. The snow water equivalent (SWE) is a valuable measurement, giving hydrologists the necessary data to understand the potential and eventual runoff from the snow pack.

It has been a lackluster winter with snowfall and lasting snow depth, unless you are in Plainfield MA! Zeros are just as valuable as non-zeros are. We define where the snow is and where it is not.

We emphasize snow measurements along with the precipitation measurements with the knowledge that your snow and precipitation reports find themselves to this next section.

On to the next page!

**NOHRSC** – (pronounced no-risk) The National Operational Hydrologic Remote Sensing Center is based in Chanhassen MN, near Minneapolis. From there, they monitor snow depths and its water equivalent across North America. <https://www.nohrsc.noaa.gov>

On the website, there is a text box labelled “Observations Near”. I entered “Douglas MA” to get a sampling of reports from our 3 states.

Nearest observations to

**Douglas, MA**

Note: these data are unofficial and provisional.

Location and Date

Enter your "City, ST (or Latitude, Longitude)"

English | 2020 | February | 8 | - | +

**Closest 5 observations near Douglas, MA**  
42.05°N, -71.74°W (Elevation: 584 ft)

Latest between 2020-02-08 06:00 UTC  
and 2020-02-09 06:00 UTC

**Raw Snowfall Observations**

Station ID	Name	Elev. (ft)	Raw Snowfall (in)	Duration (hours)	Date (UTC)	Distance
<a href="#">OXFM3</a>	BUFFUMVILLE LAKE	522	0.00	24	2020-02-08 12	9.6 mi WNW
<a href="#">MA-WR-41</a>	AUBURN 2.6 SW, MA	784	0.00	24	2020-02-08 13	10.6 mi NW
<a href="#">RI-PR-51</a>	NORTH SMITHFIELD 0.6 S, RI	266	0.00	24	2020-02-08 11	12 mi ESE
<a href="#">RI-PR-28</a>	NORTH SMITHFIELD 0.7 SE, RI	269	0.00	24	2020-02-08 12	12.1 mi ESE
<a href="#">MA-WR-43</a>	LEICESTER 2.4 ESE, MA	659	0.00	24	2020-02-08 13	13.7 mi NW

**Snow Depth Observations**

Station ID	Name	Elev. (ft)	Snow Depth (in)	Date (UTC)	Distance
<a href="#">OXFM3</a>	BUFFUMVILLE LAKE	522	0.00	2020-02-08 12	9.6 mi WNW
<a href="#">RI-PR-51</a>	NORTH SMITHFIELD 0.6 S, RI	266	0.00	2020-02-08 11	12 mi ESE
<a href="#">RI-PR-28</a>	NORTH SMITHFIELD 0.7 SE, RI	269	0.00	2020-02-08 12	12.1 mi ESE
<a href="#">MILM3</a>	MILFORD	289	0.00	2020-02-08 12	13.9 mi ENE
<a href="#">CT-WN-4</a>	EAST KILLINGLY 1.3 SW, CT	367	0.00	2020-02-08 14	15.8 mi SSW

**Snow Water Equivalent Observations**

Station ID	Name	Elev. (ft)	Snow Water Equivalent (in)	Date (UTC)	Distance
<a href="#">RI-PR-51</a>	NORTH SMITHFIELD 0.6 S, RI	266	0.00	2020-02-08 11	12 mi ESE
<a href="#">RI-PR-28</a>	NORTH SMITHFIELD 0.7 SE, RI	269	0.00	2020-02-08 12	12.1 mi ESE
<a href="#">RI-PR-45</a>	MANVILLE 0.4 WSW, RI	295	0.00	2020-02-08 11	14.6 mi ESE
<a href="#">MA-MD-55</a>	HOLLISTON 0.7 W, MA	299	0.00	2020-02-08 11	18 mi ENE
<a href="#">CT-WN-8</a>	MOOSUP 1.7 NE, CT	417	0.00	2020-02-08 11	22.9 mi SSW

Submit a Daily Report, precip, new snow, snow depth, total SWE, and chances are good, you can find that report on the NOHRSC website, and find maps to go along with it. Very new observers may not be in their database, but the rest of you should be.



**Where is the snow this year?** As this Newsletter was being put together, the Eastern Region of the National Weather Service (@NWSEastern) published these updated snow totals of their climate sites, with their normals, through this point in the winter. Sorted from high to low.



## 2019-2020 Eastern US Seasonal Snowfall Totals



**As of 5 pm February 9, 2020**

	2019-20 Snowfall Thru Feb 9 <sup>th</sup>	Normal Snowfall Thru Feb 9 <sup>th</sup>		2019-20 Snowfall Thru Feb 9 <sup>th</sup>	Normal Snowfall Thru Feb 9 <sup>th</sup>		2019-20 Snowfall Thru Feb 9 <sup>th</sup>	Normal Snowfall Thru Feb 9 <sup>th</sup>
Caribou ME	88.7"	67.5"	Boston MA	14.9"	26.7"	Richmond VA	1.0"	7.5"
Rochester NY	73.0"	64.5"	Providence RI	11.6"	22.0"	Wilmington DE	0.9"	12.6"
Syracuse NY	60.9"	85.2"	Dayton OH	11.3"	15.4"	Greenville- Spartanburg SC	0.9"	3.1"
Burlington VT	56.6"	49.9"	Mansfield OH	11.1"	30.2"	Washington DC (DCA)	0.6"	10.5"
Binghamton NY	52.6"	52.3"	Williamsport PA	10.3"	21.8"	Atlantic City NJ	0.5"	10.7"
Erie PA	52.0"	72.3"	Bridgeport CT	10.1"	16.1"	Salisbury MD	0.5"	6.3"
Buffalo NY	51.9"	67.5"	Bluefield WV	9.7"	20.6"	Philadelphia PA	0.3"	13.3"
Portland ME	46.4"	38.4"	Cincinnati OH	9.5"	14.5"	Lynchburg VA	Trace	8.3"
Gray ME	44.6"	47.7"	Charleston WV	8.6"	22.7"	Greensboro NC	Trace	5.1"
Manchester NH	39.4"	n/a	Columbus OH	8.0"	17.4"	Wallops Island VA	Trace	5.1"
Albany NY	38.2"	38.9"	Newark NJ	6.9"	16.7"	Norfolk VA	Trace	4.3"
Youngstown OH	34.4"	39.7"	Islip NY	6.8"	14.7"	Raleigh NC	Trace	4.3"
Worcester MA	33.3"	39.4"	Allentown PA	5.3"	19.6"	Charlotte NC	Trace	2.9"
Bangor ME	33.2"	40.8"	Huntington WV	5.3"	14.1"	Danville VA	Trace	n/a
Concord NH	31.7"	39.0"	Harrisburg PA	5.1"	17.9"	Elizabeth City NC	Trace	n/a
Hartford CT – BDL	25.3"	25.6"	NYC (Central Park)	4.8"	15.0"	Cape Hatteras NC	Trace	1.7"
Elkins WV	21.3"	53.1"	NYC (LaGuardia)	4.6"	15.8"	Wilmington NC	0.0"	1.3"
Cleveland OH	21.0"	42.3"	NYC (J F Kennedy)	3.8"	13.9"	New Bern NC	0.0"	1.2"
Wilkes-Barre / Scranton PA	19.9"	27.7"	Blacksburg VA	3.0"	16.2"	Columbia SC	0.0"	1.1"
Akron-Canton OH	19.0"	29.4"	Washington DC (IAD)	2.9"	14.1"	Augusta GA	0.0"	0.6"
Beckley WV	18.4"	39.5"	Baltimore MD	1.8"	13.1"	Charleston SC	0.0"	0.4"
Pittsburgh PA	17.8"	25.5"	Roanoke VA	1.6"	10.9"	Savannah GA	0.0"	0.2"
Toledo OH	15.8"	24.4"	Asheville NC	1.1"	5.9"			



## Happy Birthday, National Weather Service

February 9<sup>th</sup> marked the 150<sup>th</sup> anniversary of what we call today, the National Weather Service. President Grant, 18<sup>th</sup> president of the United States, Army General in the Civil War, graduate of West Point in 1843, assigns weather observation duties... to the US Army Signal Service. (image from @NWSIndianpolis)



## Happy 150<sup>th</sup> NWS!

February 9, 1870	President Ulysses S. Grant assigns weather observation duties to the U.S. Army Signal Service
1891	Duties are reassigned to the Department of Agriculture and given the name Weather Bureau
1940	Weather Bureau is moved into the Department of Commerce
1965	Weather Bureau becomes part of the Environmental Science Services Administration (ESSA)
1970	ESSA becomes National Oceanic & Atmospheric Administration; Weather Bureau is renamed National Weather Service

While there have been many changes over the years in name and technology, the mission has remained the same: protecting life and property



**And that's not all that's nearly 150 years old**

### The Historic Fort Collins Weather Station

The inscription reads as follows.

This is one of the longest operating weather stations in the western U.S. monitoring temperature, humidity, precipitation (rain, hail and snow) evaporation, winds, solar radiation, clouds, visibility, barometric pressure and soil temperatures. Weather

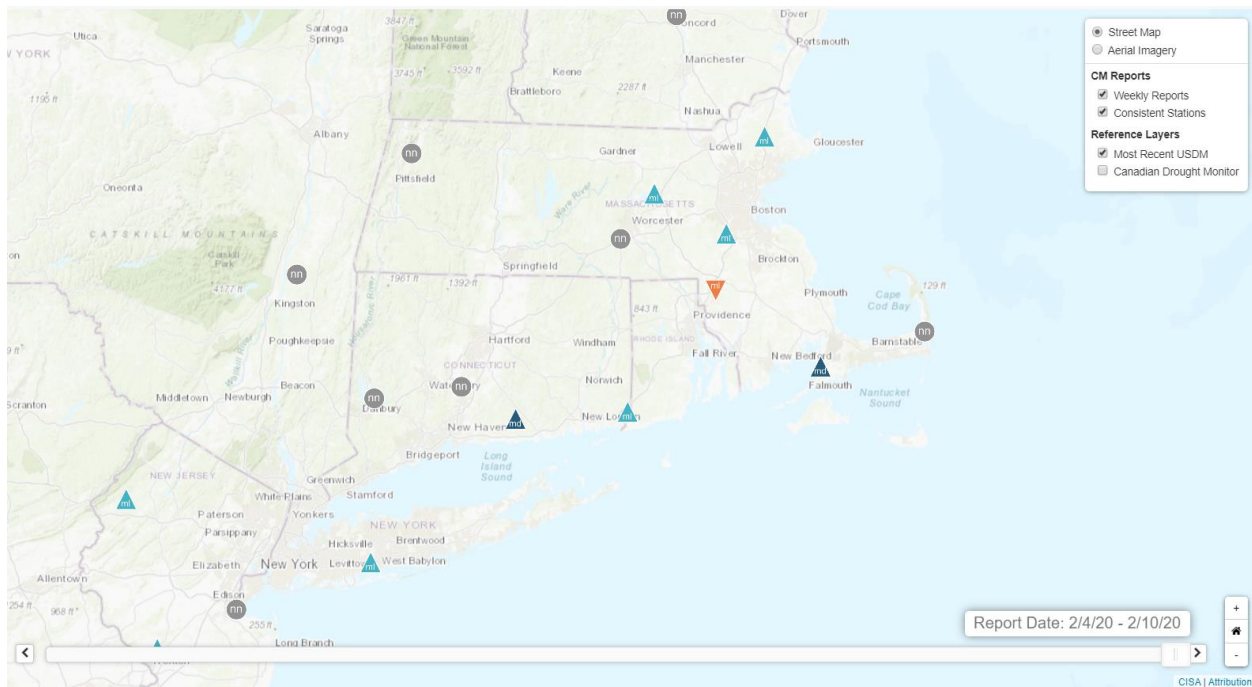
observations for research, teaching and public information have been conducted on this campus **since the early 1870's**. Continuous support for this historic weather station has been provided by the Colorado Agricultural Experiment Station since 1889. Early data collected here aided agricultural and irrigation research and development. Beginning in the 1930's, this station provided weather support for aviation and transportation safety. Uses continue to expand today. Data are publicly available for tracking climate trends, variations and extremes and their impacts here in northern Colorado.



**CAMPUS WEATHER STATION - COLORADO STATE UNIVERSITY - FORT COLLINS CO**

Picture taken in May 2017. Yes, that is a little bit of snow in the foreground. Look to the left center to see a 4" diameter rain gauge, with an evapotranspiration gauge and the 8" diameter rain gauge, hail pad and 2 snow measuring boards (one on the ground, and one slightly elevated)

**Condition Monitoring Reports:** 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.



**nn Auburn 2.6 SW**  
Sun Feb 09 2020

.55 melted precipitation during the past week. Plenty of moisture in the ground that is not completely frozen. Rivers and streams thawing out and running perhaps a bit higher than normal for the second week of February.

MA-WR-41 -- General Awareness,Agriculture,Water Supply And Quality

**nn Orleans 3.0 S**  
Sat Feb 08 2020

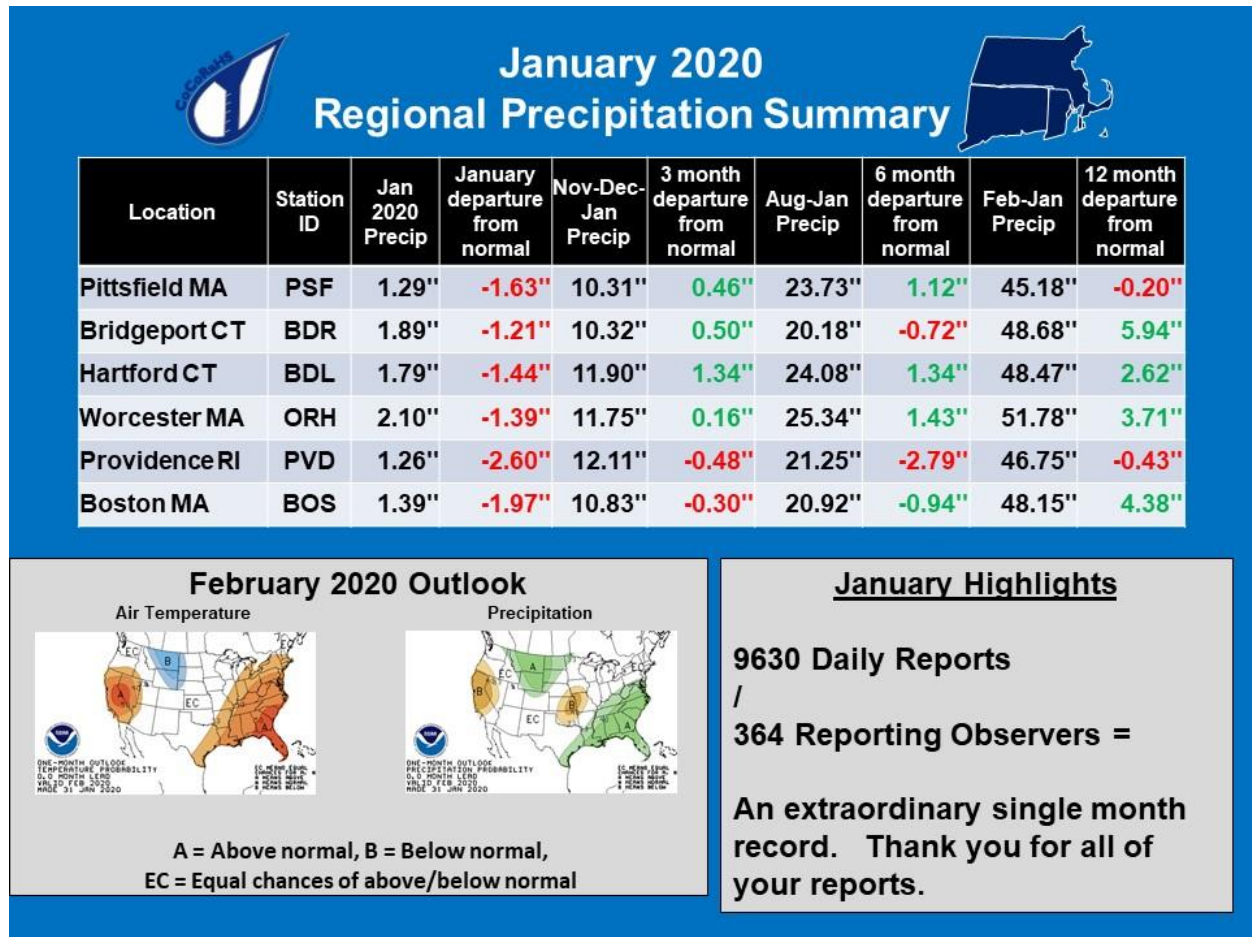
about normal for this time of year. Ground is frozen today.

MA-BA-51 -- General Awareness,Plants And Wildlife,Tourism And Recreation



# Detail and Summary for January 2020

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

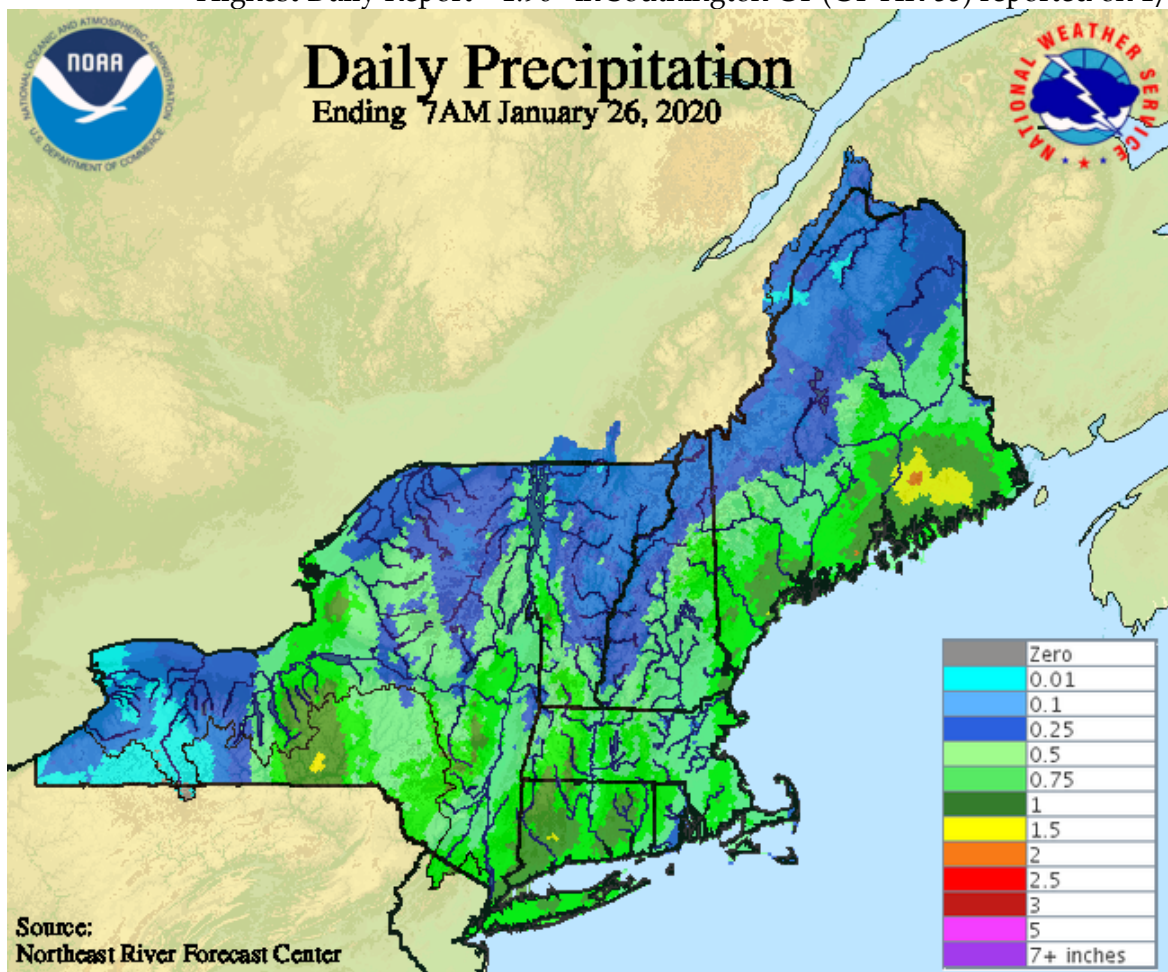


Overall, January was dry and lacking new snow. We started off with a light precip event on the 4<sup>th</sup>, towards 0.5" east and on the Cape on the 5<sup>th</sup>. Rains came to south and east on the 8<sup>th</sup>, less than 0.25" on the 12<sup>th</sup>, and the winds picked up after that. 0.25" north and west on the 16<sup>th</sup> to the 17<sup>th</sup>. The lone main snow event was an Advisory level event into the 19<sup>th</sup>. Cold and dry up until the big rains reported on the 26<sup>th</sup>, with some areas getting more than 1", noted by the map on the next page. Cold and dry to end the month.

Take in the next section with appreciation of your efforts.

## From your reports for January 2020

Observers reporting	364
Reported all 31 days	211
Completed by Multi-Day Reports	42
Missing 1 or 2 reports	41
Daily Reports	9630
Zero Reports	5578
Non-Zero Reports	4052
Daily Comments	2011
Multi-Day Reports	161
Condition Monitoring Reports	64
Significant Weather Reports	9
Snowfall Reports	6419
Snow Depth Reports	4076
Total SWE Reports	2016
Highest Daily Report	1.90" in Southington CT (CT-HR-55) reported on 1/26



Several stations were excluded for reporting “NA” for precip with the snow event on the 19<sup>th</sup>, and also for falsely reporting 0 for the snow event on the 19<sup>th</sup> as well.

With any day, and the days are certainly more noticable with snow events, reporting NA for precip will result in your station being excluded from this list. Report the melted contents of your gauge catch in the 1<sup>st</sup> reported value, and avoid reporting NA for precip on snow events.

Focus on the Gauge Catch during these winter months.

Watershed	Watershed Name	Station Number	Station Name	Precip
01070004	Nashua			
0107000401	North Nashua River	MA-WR-52	Fitchburg 2.3 N	2.11"
0107000401	North Nashua River	MA-WR-22	Fitchburg 2.0 NNE	2.32"
0107000402	Headwaters Nashua River	MA-WR-56	Sterling 4.3 NW	1.65"
0107000402	Headwaters Nashua River	MA-MD-25	Ayer 0.1 SW	1.86"
0107000403	Squannacook River	MA-MD-47	West Townsend 0.5 W	1.81"
01070005	Concord			
0107000501	Sudbury River	MA-MD-156	Marlborough 2.8 ENE	1.92"
0107000501	Sudbury River	MA-MD-89	Sudbury 3.6 W	1.78"
0107000502	Concord River	MA-WR-30	Shrewsbury 1.6 NNE	1.95"
0107000502	Concord River	MA-WR-28	Berlin 1.3 WSW	1.81"
0107000502	Concord River	MA-WR-18	Northborough 0.6 SSE	1.74"
0107000502	Concord River	MA-WR-42	Northborough 2.3 N	1.88"
0107000502	Concord River	MA-MD-115	Hudson 1.4 NW	1.83"
0107000502	Concord River	MA-WR-55	Harvard 2.1 S	1.78"
0107000502	Concord River	MA-MD-12	Acton 1.3 SW	1.96"
0107000502	Concord River	MA-MD-51	Maynard 0.7 ESE	2.03"
0107000502	Concord River	MA-MD-62	Chelmsford 1.2 E	2.08"
01070006	Merrimack River			
0107000612	Stony Brook - Merrimack River	MA-MD-105	Littleton 0.9 WSW	2.02"
0107000613	Shawsheen River	MA-MD-52	Lexington 0.6 SW	1.41"
0107000613	Shawsheen River	MA-ES-48	Andover 0.6 E	2.17"
0107000614	Powwow River - Merrimack River	MA-ES-20	Haverhill 0.7 N	1.85"
0107000614	Powwow River - Merrimack River	MA-ES-4	Groveland 0.5 WSW	1.95"
0107000614	Powwow River - Merrimack River	MA-ES-55	Groveland 0.8 S	2.03"
0107000614	Powwow River - Merrimack River	MA-ES-59	Amesbury 1.2 N	2.46"
01080201	Middle Connecticut			
0108020106	Manhan River - Connecticut River	MA-HS-2	Westhampton 1.8 SW	2.47"



0108020106	Manhan River - Connecticut River	MA-HS-8	Williamsburg 1.2 WSW	2.49"
0108020106	Manhan River - Connecticut River	MA-HS-26	Easthampton 0.5 SW	2.07"
0108020106	Manhan River - Connecticut River	MA-HS-12	Northampton 0.4 S	2.84"
0108020106	Manhan River - Connecticut River	MA-FR-12	Sunderland 1.3 SE	1.98"
0108020107	Batchelor Brook - Connecticut River	MA-HD-22	Holyoke 1.0 ENE	1.31"
01080202	Miller			
0108020201	Upper Millers River	NH-CH-20	Rindge 3.2 ESE	1.89"
0108020202	Lower Millers River	MA-WR-40	Gardner 1.4 SSW	1.64"
01080203	Deerfield			
0108020303	North River	MA-FR-31	Colrain 3.7 WNW	2.80"
0108020305	Lower Deerfield River	MA-FR-17	Buckland 1.8 ESE	2.68"
0108020305	Lower Deerfield River	MA-FR-13	Conway 2.9 NW	2.53"
0108020305	Lower Deerfield River	MA-FR-25	Conway 2.7 NW	2.60"
0108020305	Lower Deerfield River	MA-FR-10	Conway 0.9 SW	2.49"
01080204	Chicopee			
0108020401	Swift River	MA-FR-8	New Salem 3.1 S	1.86"
0108020402	Ware River	MA-WR-54	Barre 1.4 NNE	2.12"
0108020403	Quaboag River	MA-HD-26	Brimfield 3.6 NW	2.14"
0108020403	Quaboag River	MA-WR-75	Warren 2.4 WSW	1.79"
0108020404	Chicopee River	MA-HD-25	Ludlow 2.3 SW	1.45"
01080205	Lower Connecticut			
0108020501	Mill River - Connecticut River	CT-HR-82	Suffield 0.5 NNE	1.94"
0108020501	Mill River - Connecticut River	CT-HR-57	Suffield Depot 3.3 NNE	1.63"
0108020501	Mill River - Connecticut River	CT-HR-5	Enfield 1.5 SE	1.47"
0108020502	Scantic River	CT-TL-26	Broad Brook 2.6 ESE	1.63"
0108020502	Scantic River	MA-HD-20	Wilbraham 3.7 SSW	1.44"
0108020502	Scantic River	CT-TL-15	Central Somers 0.3 N	1.55"
0108020503	Park River	CT-HR-39	Farmington 1.6 SW	2.39"
0108020503	Park River	CT-HR-49	West Hartford 1.1 W	1.86"
0108020503	Park River	CT-HR-58	West Hartford 2.1 NNE	2.04"
0108020503	Park River	CT-HR-85	West Hartford 2.3 NNE	1.51"
0108020503	Park River	CT-HR-53	Hartford 2.0 SW	1.79"
0108020504	Hockanum River	CT-TL-19	Vernon 2.8 N	1.65"
0108020505	Roaring Brook - Connecticut River	CT-HR-6	Wethersfield 1.2 WSW	2.13"
0108020505	Roaring Brook - Connecticut River	CT-HR-68	Rocky Hill 1.3 E	2.27"
0108020505	Roaring Brook - Connecticut River	CT-HR-22	East Hartford 1.3 E	1.83"
0108020505	Roaring Brook - Connecticut River	CT-HR-7	Central Manchester 2.7 SW	2.06"
0108020506	Mattabeset River	CT-HR-80	Kensington 0.7 WSW	2.90"
0108020506	Mattabeset River	CT-HR-65	Newington 1.9 SSW	2.40"
0108020506	Mattabeset River	CT-MD-25	Middlefield 0.6 SE	2.14"
0108020506	Mattabeset River	CT-MD-24	Durham 1.2 W	1.93"

0108020507	Higganum Creek - Connecticut River	CT-MD-23	Higganum 0.7 N	2.06"
0108020507	Higganum Creek - Connecticut River	CT-MD-26	Higganum 0.8 NE	1.87"
0108020509	Eightmile River - Connecticut River	CT-MD-18	Essex Village 0.9 S	2.14"
01080206	Westfield			
0108020601	Headwaters Westfield River	MA-HS-7	Plainfield 2.2 SW	2.75"
0108020601	Headwaters Westfield River	MA-HS-14	Plainfield 2.4 ESE	2.51"
01080207	Farmington			
0108020701	Still River	CT-LT-15	Colebrook 1.0 NE	1.92"
0108020702	West Branch Farmington River	CT-LT-18	New Hartford Center 1.5 N	2.12"
0108020704	Headwaters Farmington River	CT-LT-9	New Hartford Center 3.2 SW	2.37"
0108020704	Headwaters Farmington River	CT-HR-71	Bristol 2.7 NNE	2.84"
0108020704	Headwaters Farmington River	CT-HR-28	North Canton 0.8 SSW	2.20"
0108020705	Salmon Brook	CT-HR-8	North Granby 1.3 ENE	2.21"
01090001	Charles			
0109000101	Plum Island Sound - Frontal Atlantic Ocean	MA-ES-24	Newburyport 0.8 SW	2.38"
0109000102	Ipswich River	MA-MD-85	Wilmington 2.2 WNW	1.62"
0109000102	Ipswich River	MA-MD-125	Tewksbury 3.6 SSE	1.54"
0109000102	Ipswich River	MA-MD-45	Wilmington 1.5 NE	1.53"
0109000102	Ipswich River	MA-ES-58	Middleton 1.4 SSW	1.92"
0109000102	Ipswich River	MA-ES-12	Boxford 2.4 S	2.15"
0109000102	Ipswich River	MA-ES-2	Beverly 2.8 NW	1.84"
0109000103	Essex River - Frontal Atlantic Ocean	MA-ES-41	Danvers 0.8 ESE	2.03"
0109000104	Saugus River - Frontal Broad Sound	MA-MD-81	Wakefield 0.5 NNW	1.54"
0109000104	Saugus River - Frontal Broad Sound	MA-MD-126	Melrose 0.5 NE	1.40"
0109000104	Saugus River - Frontal Broad Sound	MA-ES-45	Nahant 0.4 N	1.22"
0109000104	Saugus River - Frontal Broad Sound	MA-ES-8	Marblehead 0.8 SW	1.29"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-123	Lexington 1.3 SE	1.41"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-7	Winchester 0.7 SE	1.45"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-44	Medford 1.2 W	1.58"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-11	Cambridge 0.9 NNW	1.44"
0109000106	Upper Charles River	MA-WR-1	Milford 2.3 NNW	1.86"
0109000106	Upper Charles River	MA-MD-106	Holliston 2.4 W	1.85"
0109000106	Upper Charles River	MA-MD-55	Holliston 0.7 W	1.52"
0109000106	Upper Charles River	MA-MD-158	Sherborn 1.1 NW	1.71"
0109000106	Upper Charles River	MA-NF-50	Millis 1.4 ENE	1.65"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-120	Natick 1.9 NNE	1.45"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-80	Lincoln 1.5 SW	1.39"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-71	Newton 2.2 NNW	1.21"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-151	Cambridge 0.9 SSE	1.36"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-SF-1	Boston 0.5 WSW	2.91"
0109000108	Neponset River - Frontal Boston Harbor	MA-NF-1	Norwood 1.3 NW	1.32"

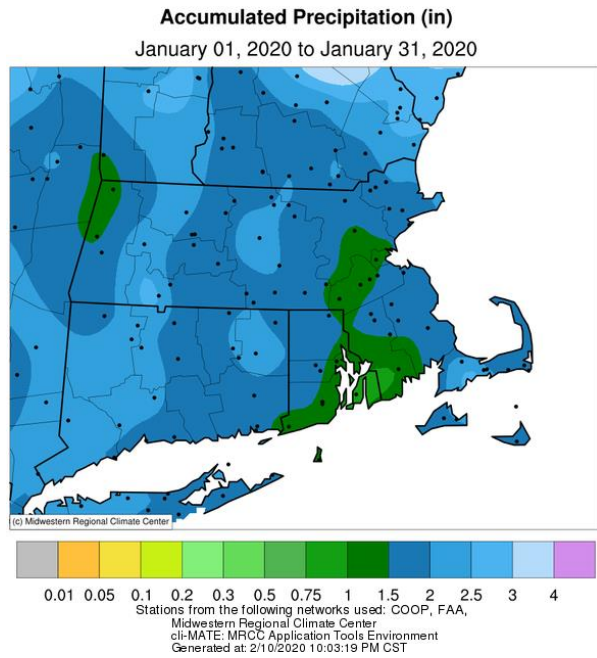
0109000108	Neponset River - Frontal Boston Harbor	MA-NF-54	Quincy 1.2 W	1.67"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-NF-32	Quincy 1.8 WSW	1.55"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-PL-36	Hingham 0.8 ESE	1.55"
01090002	Cape Cod			
0109000201	North River - Frontal Massachusetts Bay	MA-PL-47	Plymouth 1.1 NNW	1.98"
0109000202	Cape Cod	MA-BA-8	Falmouth 1.8 WSW	1.87"
0109000202	Cape Cod	MA-BA-2	Falmouth 3.1 NNW	2.11"
0109000202	Cape Cod	MA-BA-57	Falmouth 5.7 N	1.88"
0109000202	Cape Cod	MA-BA-14	North Falmouth 0.5 ENE	1.86"
0109000202	Cape Cod	MA-BA-50	Falmouth 5.4 NNE	1.86"
0109000202	Cape Cod	MA-BA-17	East Falmouth 1.2 WNW	1.82"
0109000202	Cape Cod	MA-BA-19	East Falmouth 0.7 NW	2.11"
0109000202	Cape Cod	MA-BA-3	Falmouth 3.0 E	2.04"
0109000202	Cape Cod	MA-BA-18	Waquoit 0.6 SSW	1.94"
0109000202	Cape Cod	MA-BA-47	Mashpee 2.4 WSW	1.97"
0109000202	Cape Cod	MA-BA-45	Sandwich 0.9 NNE	1.68"
0109000202	Cape Cod	MA-BA-79	Mashpee 0.8 SSW	1.96"
0109000202	Cape Cod	MA-BA-78	Mashpee 4.6 S	1.97"
0109000202	Cape Cod	MA-BA-10	East Sandwich 2.3 SE	1.82"
0109000202	Cape Cod	MA-BA-76	Barnstable 0.7 NE	2.22"
0109000202	Cape Cod	MA-BA-22	Yarmouth 0.9 NNW	2.31"
0109000202	Cape Cod	MA-BA-72	Yarmouth 2.0 S	2.16"
0109000202	Cape Cod	MA-BA-77	South Dennis 1.0 NW	2.26"
0109000202	Cape Cod	MA-BA-80	Brewster 1.4 W	2.26"
0109000202	Cape Cod	MA-BA-52	Truro 0.8 E	2.23"
0109000202	Cape Cod	MA-BA-27	Wellfleet 0.7 NW	1.91"
0109000202	Cape Cod	MA-BA-36	Harwich 2.6 ENE	2.30"
0109000202	Cape Cod	MA-BA-42	Orleans 1.8 S	2.29"
0109000202	Cape Cod	MA-BA-51	Orleans 3.0 S	2.39"
0109000202	Cape Cod	MA-BA-69	Eastham 0.9 SW	2.17"
0109000202	Cape Cod	MA-BA-12	Orleans 1.1 E	1.89"
0109000202	Cape Cod	MA-BA-30	Eastham 0.6 SW	2.28"
0109000202	Cape Cod	MA-BA-43	Chatham 0.4 WSW	2.24"
0109000202	Cape Cod	MA-BA-65	Chatham 0.2 SSE	1.60"
0109000203	Mattapoisett River - Frontal Buzzards Bay	MA-PL-52	Plymouth 10.6 SSE	2.05"
0109000204	Paskamanset River - Frontal Buzzards Bay	MA-BR-14	Dartmouth 2.5 SSW	1.92"
0109000204	Paskamanset River - Frontal Buzzards Bay	MA-BR-52	New Bedford 4.3 N	1.45"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-5	Little Compton 1.7 NW	1.75"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-7	Little Compton 0.6 E	1.99"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-5	West Tisbury 2.9 N	2.58"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-2	Vineyard Haven 0.8 WSW	1.87"

01090003	Blackstone			
0109000301	Upper Blackstone River	MA-WR-41	Auburn 2.6 SW	1.96"
0109000301	Upper Blackstone River	MA-WR-43	Leicester 2.4 ESE	1.59"
0109000301	Upper Blackstone River	MA-WR-70	Grafton 1.5 W	2.01"
0109000302	Lower Blackstone River	RI-PR-50	Harrisville 1.2 SSE	1.82"
0109000302	Lower Blackstone River	RI-PR-28	North Smithfield 0.7 SE	2.09"
0109000302	Lower Blackstone River	RI-PR-63	Woonsocket 1.5 NW	2.08"
0109000302	Lower Blackstone River	RI-PR-45	Manville 0.4 WSW	1.90"
0109000302	Lower Blackstone River	RI-PR-55	Cumberland Hill 3.6 NNE	1.70"
01090004	Narragansett			
0109000401	Upper Taunton River	MA-BR-30	Taunton 3.9 N	1.54"
0109000401	Upper Taunton River	MA-NF-31	Stoughton 1.2 E	1.82"
0109000401	Upper Taunton River	MA-PL-51	Brockton 1.6 SSW	2.06"
0109000401	Upper Taunton River	MA-PL-22	East Bridgewater 0.3 WSW	1.72"
0109000401	Upper Taunton River	MA-PL-15	Abington 1.2 NNE	1.68"
0109000402	Middle Taunton River	MA-PL-31	Bridgewater 1.8 SE	1.80"
0109000403	Threemile River	MA-NF-19	Foxborough 1.8 SSW	1.38"
0109000403	Threemile River	MA-BR-55	NWS Boston/Norton 2.5 ESE	1.64"
0109000404	Ten Mile River	MA-BR-23	Attleboro 0.9 ENE	1.40"
0109000405	Wonnasquatucket River-Moshassuck River	RI-PR-33	Greenville 0.7 NNW	2.26"
0109000405	Woonasquatucket River-Moshassuck River	RI-PR-51	North Smithfield 0.6 S	2.12"
0109000406	Pawtuxet River	RI-KN-21	Coventry 1.9 NE	1.54"
0109000406	Pawtuxet River	RI-PR-57	Cranston 1.2 SSE	1.41"
0109000406	Pawtuxet River	RI-PR-44	Cranston 4.2 ENE	1.35"
0109000407	Palmer River	MA-BR-2	Rehoboth 2.1 N	1.56"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-3	Norton 1.8 NNE	1.73"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-16	Somerset 0.4 SSE	1.54"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-58	Dighton 3.3 NNW	1.52"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-8	Dighton 1.1 WSW	1.75"
0109000409	Narragansett Bay	RI-KN-17	East Greenwich 1.2 NNE	1.39"
0109000409	Narragansett Bay	RI-WS-54	North Kingstown 2.7 WSW	1.47"
0109000409	Narragansett Bay	RI-WS-50	North Kingstown 3.1 NW	1.58"
0109000409	Narragansett Bay	RI-WS-31	Kingston 7.5 NNE	1.28"
0109000409	Narragansett Bay	RI-KN-2	East Greenwich 2.3 ESE	1.16"
0109000409	Narragansett Bay	RI-NW-18	Jamestown 0.3 SSE	1.45"
0109000409	Narragansett Bay	RI-NW-4	Middletown 1.1 SW	1.68"
0109000409	Narragansett Bay	RI-NW-19	Portsmouth 2.3 S	1.59"
0109000409	Narragansett Bay	RI-NW-16	Portsmouth 1.3 S	1.70"
0109000409	Narragansett Bay	RI-NW-20	Tiverton 1.0 SSW	1.84"
01090005	Pawcatuck-Wood			
0109000502	Upper Pawcatuck River	RI-WS-51	Richmond 2.4 SSE	1.72"

0109000502	Upper Pawcatuck River	RI-WS-45	Charlestown 4.7 NNE	1.63"
0109000502	Upper Pawcatuck River	RI-WS-37	Kingston 2.4 SW	1.48"
0109000503	Lower Pawcatuck River	CT-NL-40	Pawcatuck 1.8 SSE	1.87"
0109000503	Lower Pawcatuck River	RI-WS-47	Westerly 0.8 WNW	1.76"
0109000504	Frontal Block Island Sound	RI-WS-36	Charlestown 3.0 WSW	1.68"
0109000504	Frontal Block Island Sound	RI-WS-55	Wakefield 0.8 ENE	1.57"
0109000504	Frontal Block Island Sound	RI-WS-52	Wakefield-Peacedale 3.1 NE	1.54"
01100001	Quinebaug			
0110000102	French River	MA-WR-68	Oxford 0.9 SSW	1.81"
0110000103	Fivemile River	CT-WN-4	East Killingly 1.3 SW	1.67"
0110000105	Moosup River	CT-WN-8	Moosup 1.7 NE	2.32"
0110000106	Pachaug River	CT-NL-21	Griswold 0.9 N	1.71"
01100002	Shetucket			
0110000201	Willimantic River	CT-TL-18	Hebron 5.3 NW	2.10"
0110000201	Willimantic River	CT-TL-28	South Coventry 1.2 NNW	2.27"
0110000201	Willimantic River	CT-TL-24	Stafford Springs 0.8 NE	2.20"
0110000201	Willimantic River	CT-TL-2	Staffordville 0.4 NNW	1.90"
0110000202	Natchaug River	CT-TL-27	Willington 2.7 SE	2.07"
0110000202	Natchaug River	CT-TL-30	Mansfield Center 2.7 NE	2.10"
0110000202	Natchaug River	CT-WN-12	Eastford 2.0 W	2.50"
0110000203	Shetucket River	CT-WN-10	South Windham 1.3 NNE	2.16"
0110000203	Shetucket River	CT-NL-10	Norwich 2.5 NNE	2.02"
01100003	Thames			
0110000302	Thames River-Frontal New London Harbor	CT-NL-5	Oakdale 2.6 WNW	2.56"
0110000302	Thames River-Frontal New London Harbor	CT-NL-6	New London 1.0 NNW	1.92"
0110000302	Thames River-Frontal New London Harbor	CT-NL-8	Uncasville-Oxoboxo Valley 1.6 ENE	1.95"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-38	Old Lyme 3.4 ESE	2.02"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-29	East Lyme 0.5 SW	2.06"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-22	Central Waterford 2.7 SSW	1.63"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-37	Mystic 1.6 W	1.61"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-19	Mystic 0.9 W	1.42"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-24	Stonington 1.4 NNW	1.70"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-18	Stonington 0.5 NNE	1.56"
01100004	Quinnipiac			
0110000401	Quinnipiac River	CT-NH-14	Prospect 1.9 ENE	2.82"
0110000401	Quinnipiac River	CT-HR-23	Southington 0.9 SSE	2.99"
0110000401	Quinnipiac River	CT-HR-76	Southington 1.0 ENE	2.43"
0110000401	Quinnipiac River	CT-NH-44	Wallingford Center 1.9 WNW	2.27"
0110000401	Quinnipiac River	CT-NH-43	Wallingford Center 3.3 NNW	2.56"
0110000401	Quinnipiac River	CT-NH-42	Wallingford Center 1.1 N	2.39"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-50	Madison Center 4.1 N	1.87"

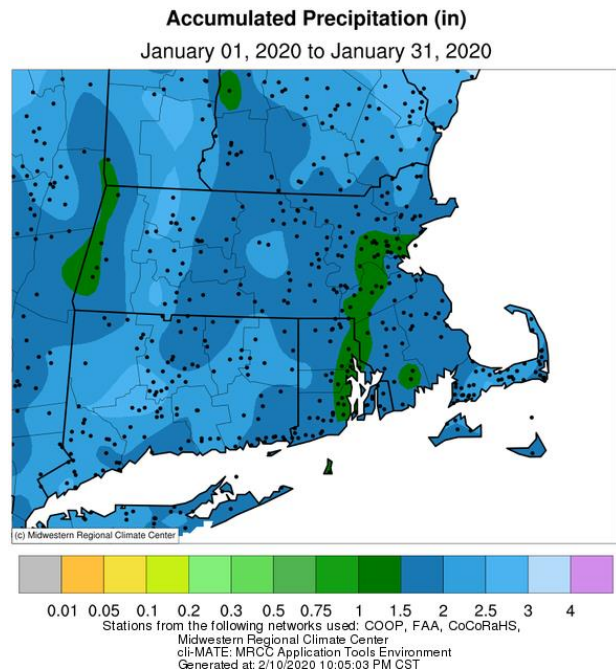
0110000402	Hammonasset River - Frontal Long Island Sound	CT-MD-21	Killingworth 2.6 ESE	1.92"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-MD-27	Clinton 3.7 N	2.15"
0110000403	Mill River - Frontal Long Island Sound	CT-NH-57	New Haven 2.9 NNW	2.29"
01100005	Housatonic			
0110000501	Headwaters Housatonic River	MA-BE-3	Stockbridge .2 NNE	1.20"
0110000503	Konkapot River-Housatonic River	CT-LT-28	Canaan 4.2 ESE	1.69"
0110000504	Macedonia Brook - Housatonic River	CT-LT-20	Warren 2.4 WNW	2.21"
0110000508	Still River - Housatonic River	CT-FR-43	Bethel 0.5 E	2.31"
0110000508	Still River - Housatonic River	CT-FR-41	Bethel 3.5 NNE	2.51"
0110000508	Still River - Housatonic River	CT-FR-9	Brookfield 3.3 SSE	2.53"
0110000512	Outlet Naugatuck River	CT-NH-47	Seymour 1.5 NE	2.23"
0110000512	Outlet Naugatuck River	CT-NH-45	Naugatuck 1.7 NNE	2.71"
0110000512	Outlet Naugatuck River	CT-NH-22	Prospect 0.5 SW	2.45"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-42	Monroe 0.1 SE	2.16"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-23	Shelton 1.3 W	2.03"
01100006	Saugatuck			
0110000601	Saugatuck River - Frontal Long Island Sound	CT-FR-58	Ridgefield 3.6 N	2.26"
0110000601	Saugatuck River - Frontal Long Island Sound	CT-FR-64	Bethel 4.5 SSE	1.78"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-29	Ridgefield 1.9 SSE	2.43"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-63	Wilton 1.9 NW	2.64"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-3	New Canaan 1.9 ENE	2.70"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-25	Norwalk 2.9 NNW	2.55"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-20	Westport 2.5 ENE	2.35"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-60	Fairfield 1.5 NE	2.36"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-32	Monroe 0.8 W	2.48"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-26	Stratford 0.9 W	1.90"
0110000604	Mianus River-Rippowam River	CT-FR-50	Darien 2.8 NW	2.84"
02020003	Hudson-Hoosic			
0202000306	Upper Hoosic River	MA-BE-21	Cheshire 0.5 NNW	2.17"
02020006	Middle Hudson			
0202000603	Wynants Kill - Hudson River	NY-AB-21	NWS Albany	1.98"
02030203	Long Island Sound			
0203020300	Long Island Sound	NY-SF-114	Fishers Island 0.5 NE	1.85"





Green colors are under 1.5". Blue colors are over 1.5". Paler shade of blue is over 2.0"

The difference between the two maps is you, the volunteer observers of CoCoRaHS. Look at all of the dots made by those of you that report every day. Look at the higher definition those dots bring to the map.



**“We do not live at the airport”**

The CoCoRaHS stations listed averaged 1.95” of precip for January 2020. The list of airport stations averaged 1.57”. Do we have a knack for living in snowy and rainy places? Do we have more observers in a certain place? We find the liquid content of snow!

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

Location	Station ID	Jan 2020 Precip	Jan departure from normal	Nov-Dec-Jan Precip	3 month departure from normal	Aug-Jan Precip	6 month departure from normal	Feb-Jan Precip	12 month departure from normal
White Plains NY	HPN	2.01"	-1.77"	9.67"	-2.40"	21.38"	-3.98"	48.05"	-1.30"
Danbury CT	DXR	2.05"	-1.31"	9.36"	-2.35"	19.61"	-5.65"	42.35"	-7.52"
New Haven CT	HVN	1.48"	-1.71"	9.51"	-1.22"	20.44"	-2.85"	45.95"	-1.16"
Meriden CT	MMK	2.44"	-0.75"	11.56"	0.83"	25.10"	1.81"	45.60"	-1.51"
Hartford CT	HFD	1.76"	-1.39"	8.30"	-2.04"	20.58"	-1.04"	44.38"	0.78"
Willimantic CT	IJD	1.85"	-1.60"	9.64"	-2.39"	22.15"	-2.31"	42.88"	-5.54"
New London CT	GON	1.44"	-1.83"	9.69"	-1.62"	22.14"	-1.19"	49.75"	3.26"
Westerly RI	WST	1.32"	-2.07"	10.14"	-1.53"	23.46"	-0.20"	54.32"	6.93"
Newport RI	UUU	0.69"	-2.96"	7.94"	-3.94"	17.79"	-5.55"	44.32"	-2.01"
New Bedford MA	EWB	0.86"	-3.07"	9.66"	-2.89"	18.48"	-5.87"	38.81"	-9.55"
Hyannis MA	HYA	1.31"	-2.72"	13.64"	0.85"	25.69"	1.29"	50.21"	2.52"
Nantucket MA	ACK	1.70"	-1.91"	11.60"	-0.24"	21.95"	-1.76"	42.53"	-1.89"
Marthas Vineyard MA	MVY	1.73"	-1.65"	11.83"	0.06"	25.21"	1.19"	46.93"	1.77"
Taunton MA	TAN	1.63"	-2.35"	13.19"	0.39"	21.98"	-3.51"	46.89"	-2.85"
Plymouth MA	PYM	1.67"	-2.02"	13.78"	1.04"	28.62"	4.09"	57.16"	8.01"
Norwood MA	OWD	0.97"	-2.46"	10.17"	-1.83"	19.65"	-4.11"	43.37"	-3.69"
Bedford MA	BED	1.38"	-2.09"	9.35"	-2.09"	19.86"	-3.01"	43.13"	-2.58"
Beverly MA	BVY	1.85"	-1.51"	11.29"	0.33"	21.11"	-1.56"	43.76"	-2.42"
Lawrence MA	LWM	1.68"	-1.20"	10.37"	0.54"	21.10"	0.17"	41.13"	-2.03"
Fitchburg MA	FIT	1.68"	-1.67"	2.57"	-8.75"	13.04"	-10.21"	37.00"	-10.14"
Orange MA	ORE	1.59"	-1.13"	9.76"	-0.05"	19.72"	-0.98"	42.72"	0.17"
Westfield MA	BAF	1.79"	-1.47"	9.70"	-1.11"	20.66"	-3.55"	42.45"	-5.94"
North Adams MA	AQW	1.21"	-1.45"	7.96"	-2.04"	18.16"	-4.88"	37.71"	-8.90"

## **Rulers of the Snow**

We are the Rulers of the Snow. We define where the snow is and where it is not. Satellites cannot see through all of these cloudy days we have been having.

It stretches to the next page!!! A record long list of 67 stations, those that measured snow fall and snow depth for all days in January. Even on Fishers Island!

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	Jan 2020 Snowfall	Station	Name	Jan 2020 Snowfall
MA-BE-21	Cheshire 0.5 NNW	13.0"	RI-KN-2	East Greenwich 2.3 ESE	3.7"
MA-FR-17	Buckland 1.8 ESE	7.4"	CT-FR-25	Norwalk 2.9 NNW	3.6"
MA-FR-13	Conway 2.9 NW	7.2"	CT-NL-29	East Lyme 0.5 SW	3.6"
MA-FR-10	Conway 0.9 SW	6.5"	CT-TL-18	Hebron 5.3 NW	3.6"
MA-MD-125	Tewksbury 3.6 SSE	6.3"	MA-BR-30	Taunton 3.9 N	3.6"
MA-ES-4	Groveland 0.5 WSW	6.2"	MA-HS-26	Easthampton 0.5 SW	3.6"
MA-ES-48	Andover 0.6 E	5.9"	RI-PR-51	North Smithfield 0.6 S	3.6"
MA-FR-12	Sunderland 1.3 SE	5.9"	MA-BR-55	NWS Boston/Norton 2.5 ESE	3.5"
MA-ES-12	Boxford 2.4 S	5.6"	MA-MD-158	Sherborn 1.1 NW	3.5"
CT-LT-9	New Hartford Center 3.2 SW	5.5"	MA-NF-1	Norwood 1.3 NW	3.5"
CT-WN-8	Moosup 1.7 NE	5.5"	MA-BA-72	Yarmouth 2.0 S	3.4"
NY-AB-21	NWS Albany	5.5"	MA-MD-126	Melrose 0.5 NE	3.4"
MA-BA-2	Falmouth 3.1 NNW	5.1"	CT-FR-9	Brookfield 3.3 SSE	3.3"
MA-WR-75	Warren 2.4 WSW	5.1"	CT-MD-23	Higganum 0.7 N	3.3"
CT-WN-4	East Killingly 1.3 SW	4.8"	CT-MD-25	Middlefield 0.6 SE	3.3"
CT-LT-15	Colebrook 1.0 NE	4.7"	RI-PR-45	Manville 0.4 WSW	3.0"
MA-MD-12	Acton 1.3 SW	4.7"	MA-BA-65	Chatham 0.2 SSE	2.8"
MA-WR-42	Northborough 2.3 N	4.5"	MA-BA-57	Falmouth 5.7 N	2.7"
CT-TL-27	Willington 2.7 SE	4.4"	CT-MD-21	Killingworth 2.6 ESE	2.6"
CT-NL-10	Norwich 2.5 NNE	4.3"	CT-NL-6	New London 1.0 NNW	2.6"
CT-FR-3	New Canaan 1.9 ENE	4.2"	CT-NL-19	Mystic 0.9 W	2.5"
CT-TL-2	Staffordville 0.4 NNW	4.1"	MA-BA-47	Mashpee 2.4 WSW	2.1"
MA-HD-25	Ludlow 2.3 SW	4.1"	CT-NL-40	Pawcatuck 1.8 SSE	2.0"

MA-MD-51	Maynard 0.7 ESE	4.1"	RI-NW-18	Jamestown 0.3 SSE	1.8"
MA-MD-52	Lexington 0.6 SW	4.1"	CT-NL-24	Stonington 1.4 NNW	1.6"
RI-PR-33	Greenville 0.7 NNW	4.1"	MA-DK-2	Vineyard Haven 0.8 WSW	1.5"
CT-NH-43	Wallingford Center 3.3 NNW	3.9"	RI-NW-7	Little Compton 0.6 E	1.5"
MA-BA-50	Falmouth 5.4 NNE	3.9"	MA-BA-17	East Falmouth 1.2 WNW	1.3"
MA-BR-8	Dighton 1.1 WSW	3.9"	RI-WS-47	Westerly 0.8 WNW	1.2"
MA-ES-41	Danvers 0.8 ESE	3.9"	MA-BA-76	Barnstable 0.7 NE	1.0"
CT-HR-8	North Granby 1.3 ENE	3.8"	RI-WS-55	Wakefield 0.8 ENE	1.0"
CT-NH-57	New Haven 2.9 NNW	3.7"	NY-SF-114	Fishers Island 0.5 NE	1.0"
MA-MD-7	Winchester 0.7 SE	3.7"			

January 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. The rainy day, reported on the 26<sup>th</sup>, does stand out from all of the others.

311 Reports per Day was our record reporting average for January.

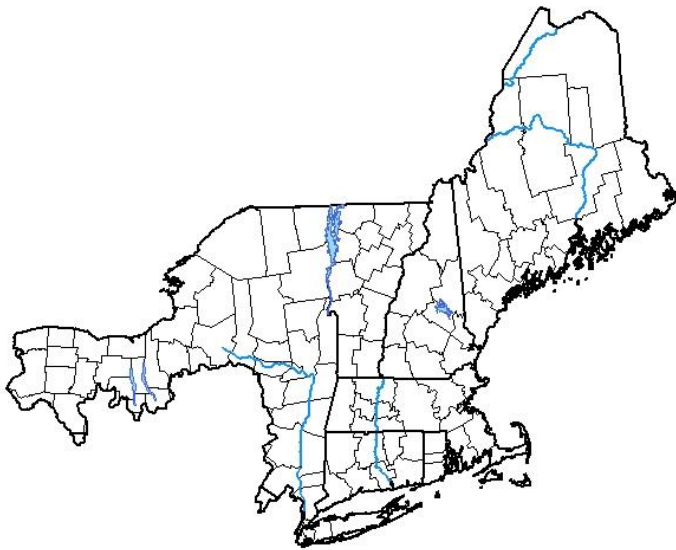
January 2020

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 298	2 297	3 308	4 306
5 313	6 307	7 310	8 322	9 312	10 313	11 309
12 316	13 305	14 313	15 307	16 315	17 311	18 301
19 315	20 304	21 303	22 309	23 314	24 309	25 308
26 329	27 312	28 319	29 319	30 317	31 309	

One dry in month in January does not bring a drought, but it's worth watching to see if one dry month brings another dry month....

Every drop counts and zeros do too!

## U.S. Drought Monitor Northeast RFC



**February 4, 2020**  
(Released Thursday, Feb. 6, 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> <i>01-28-2020</i>	100.00	0.00	0.00	0.00	0.00	0.00
<b>3 Months Ago</b> <i>11-05-2019</i>	98.08	1.92	0.00	0.00	0.00	0.00
<b>Start of Calendar Year</b> <i>12-31-2019</i>	100.00	0.00	0.00	0.00	0.00	0.00
<b>Start of Water Year</b> <i>10-01-2019</i>	66.91	33.09	0.00	0.00	0.00	0.00
<b>One Year Ago</b> <i>02-05-2019</i>	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme 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:

Richard Tinker  
CPC/NOAA/NWS/NCEP



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

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



## **Wrap up**

We get an extra day this February with Leap Day. Whether it has 28 or 29 days, February is our driest of month of the year, with averages of precipitation around 3.5", not its usual 4" per month. February is also our network's lowest reporting month of the year, because of our northern climate. Although we wouldn't be surprised if you all find some other record to break in February.

Regardless of what you may think of the prediction of Groundhogs in early February, the Climate Prediction Center, located in College Park MD, updates their 6-10 day and 8-14-day outlooks, every day after 3PM. Their temperature forecasts continue to be reliable. We all know how variable precipitation can be, but the precipitation forecasts are good to use as a guide. Check out the variety of climate outlooks at <https://www.cpc.ncep.noaa.gov/> updated 7 days a week after 3PM.

This Presidents Day weekend marks another of our "Field Photo Weekends." Details are provided in the Message of the Day.

Sunday, March 8<sup>th</sup>, marks the beginning of Daylight Saving Time. Spring forward! We set our clocks ahead one hour on the 2<sup>nd</sup> Sunday in March. Let's see if it happens again, and that is the odd and bizarre sight of snow cover while it is daylight at 7PM.

Even before the growing season begins, the first harvest of the year is coming to our New England states. Not from the ground, but from the trees, specifically the sugar maple trees. If it hasn't already with this warm weather, the slightly sweet sap will start to flow, the harvest of sugar will begin, and the end of winter will be upon us.

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