



Southern



New England

February 2019

“Faithful followers, there is no shadow of me. A beautiful spring it shall be.” The Groundhog is optimistic for an early end to winter. Living as close as we do to the coastal waters, our guard is up for whatever winter storms come up the east coast.

Reporting was strong in the month of January. We normally see a drop with reporting that starts slightly in November and bottoms out in February before spring time conditions result in a reporting rebound. Our January reporting was at the same level as it was in August. The two faces of January weather were on display. We are pleased that your reporting weathered both of those faces very well, and you did so as accurately as you did. Thank you for a great reporting month.

In this month's issue: The Grand List got long. The observers that joined us around three years ago are crossing over 1000 Daily Reports.

An assortment of reminders and tips follow, along with a single page of where your snow reports can end up, and a wrap up to the wet year of 2018. “The Rulers of the Snow” segment returns.

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.

3000 Daily Reports

CT-MD-2 Portland 0.9 S
CT-WN-2 North Grosvenor Dale 1.7 SSE

1000 Daily Reports

CT-NL-21 Griswold 0.9 N
MA-FR-17 Buckland 1.8 ESE
MA-WR-41 Auburn 2.6 SW
MA-BA-51 Orleans 3.0 S
CT-TL-18 Hebron 5.3 NW
MA-WR-43 Leicester 2.4 ESE
MA-WR-40 Gardner 1.4 SSW
CT-NL-6 New London 1.0 NNW
MA-FR-13 Conway 2.9 NW
MA-WR-6 Southbridge 0.6 E
CT-NL-8 Uncasville-Oxoboxo Valley 1.6 ENE

Observer Tips

Reporting was strong in January, and to go along with it, reporting mistakes were pleasantly few. Accuracy matters. Thank you. Keep the “Focus on the Gauge Catch”. If you only have time, effort, energy to make one measurement, take the contents of your gauge and find its liquid content, and report that value in the 1st value in your reporting form.

Snow cores: If you do not cut a core of snow and find the liquid content of that core separately, please leave that reported value, the 3rd reported value, “NA” There can be a difference between “gauge catch” and snow cores, especially with wind, and especially with the rain/sleet/snow mix that we experience in our area. Avoid the temptation to take the “gauge catch” value and replicate that in the snow core value. In the realm of false zeros, slow down your habit of reporting zeros for snow cores in the 3rd value, if you have new snow to report in the 2nd value. “NA” for cores in the 3rd value and in the 5th value is acceptable if you do not find the liquid content of the core.

Having a scale is the “weigh” to go! If you are a new observer, we are not proposing that you need to spend more money on more tools. If you are a seasoned observer and are frustrated and constrained with the time and effort it takes to melt an icy gauge or a deep snow core, using an accurate gram scale, with the weight of the outer cylinder written on its bottom (450g-470g), and using 201g = 1” of liquid, makes finding the liquid content of winter precip, and 1”+ rains, simpler and easier.

Message of the Day. “Hilberg’s Tips” Long before Monthly Newsletters came to your email box, the observers in Illinois have been receiving Monthly Newsletters of their own for over 12 years from their State Coordinator, Steve Hilberg. Looking towards what Illinois has been doing gave me the inspiration and material to realize that a Monthly Newsletter for our area was possible and would be beneficial to the observers.

After you submit a Daily Report, and you see one of Hilberg’s Tips in the Message of the Day, please read that Tip. There is always something more to learn in this skill of being an observer.

Snow Depth In Nolan's recent newsletter, he mentioned the value that total snow & ice on the ground has. From a conversation I had with the hydrologists at our River Forecast Center, I would agree with Nolan. A snow pack on the ground can be a flood waiting to happen.

As we go through the 2nd half of winter, we're not asking to risk limb or safety. If you are a new observer, we're not trying to pile more on to what you are trying to understand. If you can, if you are able to, please make a snow depth measurement and report that value in the 4th value in your Daily Reporting form. The measurement only has to be the nearest 0.5". Zeros are valuable. Non-zero values will translate in your Water Year Summary with the "Days with Snow on the Ground" count.

During this time of year, I would encourage a look towards the Snow Depth measurements of a few our network's observers. In the western hills of our Hampshire County, look at MA-HS-7. High in the western Rocky Mountains of Colorado, look at CO-GN-18. In the Sierra Mountains of California, near the Donner Pass on I-80, look at CA-PC-1. See a 99.9" for snow depth? Click on the view icon and read the Comment. It could be deeper than 100"!!

View Data : List Daily Precipitation Reports US Units ▾

Search Daily Precipitation Reports

Station Fields: CA-PC-1 Station Number Station Name

Location: USA California ALL COUNTIES

Date Range:

Start Date: 1/12/2019 End Date: 2/6/2019

Precip Value: All Precip Values Operator

Search

Searched: Station Number contains CA-PC-1. Stations in California. Report date between 1/12/2019 and 2/6/2019.

Showing 26 Records.

Date ▲	Time	Station Number	Station Name	Total Precip. In.	New Snow in. ❄️💧	Total Snow in. ❄️💧	State	County	View
2/6/2019	12:01 PM	CA-PC-1	Soda Springs 1.5 SSW	0.15	4.0 NA	99.0 NA	CA	Placer	
2/5/2019	12:01 PM	CA-PC-1	Soda Springs 1.5 SSW	1.85	27.0 NA	99.0 NA	CA	Placer	
2/4/2019	12:01 PM	CA-PC-1	Soda Springs 1.5 SSW	1.79	27.0 NA	99.0 NA	CA	Placer	
2/3/2019	12:01 PM	CA-PC-1	Soda Springs 1.5 SSW	1.21	10.0 NA	99.0 NA	CA	Placer	
2/2/2019	12:01 PM	CA-PC-1	Soda Springs 1.5 SSW	1.24	12.0 NA	96.0 NA	CA	Placer	
2/1/2019	12:01 PM	CA-PC-1	Soda Springs 1.5 SSW	0.08	0.0 NA	86.0 NA	CA	Placer	
1/31/2019	8:00 AM	CA-PC-1	Soda Springs 1.5 SSW	0.00	0.0 NA	88.0 NA	CA	Placer	

Ours is a unique network. We are "The Rulers of the Snow"

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>

In the [January 2018](#), [February 2017](#) and the [January 2016](#) edition of this newsletter, I wrote about this same topic.

Submit a Daily Report, precip, new snow, snow depth, total SWE, and chances are good, you can find that report on their 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.

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

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Nearest observations to
Webster, MA

Note: these data are unofficial and provisional.

Location and Date

Enter your "City, ST"

English 2019 January 23 - +

Closest 5 observations near Webster, MA
42.05°N, -71.88°W (Elevation: 459 ft) Latest between 2019-01-23 06:00 UTC and 2019-01-24 06:00 UTC

Raw Snowfall Observations

Station ID	Name	Elev. (ft)	Raw Snowfall (in)	Duration (hours)	Date (UTC)	Distance
OXFM3	BUFFUMVILLE LAKE	522	0.00	24	2019-01-23 12	4.8 mi NNW
WTPC3	WEST THOMPSON LAKE	371	0.00	24	2019-01-23 12	7.4 mi SSW
MA-WR-41	AUBURN 2.6 SW, MA	784	0.00	24	2019-01-23 13	8.5 mi N
SBRM3	SOUTHBRIDGE	699	0.00	24	2019-01-23 12	9.9 mi W
MA-WR-43	LEICESTER 2.4 ESE, MA	659	0.00	24	2019-01-23 11	12.5 mi N

Snow Depth Observations

Station ID	Name	Elev. (ft)	Snow Depth (in)	Date (UTC)	Distance
OXFM3	BUFFUMVILLE LAKE	522	6.00	2019-01-23 12	4.8 mi NNW
WTPC3	WEST THOMPSON LAKE	371	0.00	2019-01-23 12	7.4 mi SSW
MA-WR-41	AUBURN 2.6 SW, MA	784	7.00	2019-01-23 13	8.5 mi N
SBRM3	SOUTHBRIDGE	699	6.00	2019-01-23 12	9.9 mi W
NTHM3	NORTHBRIDGE 2	325	1.00	2019-01-23 12	11.4 mi ENE

Snow Water Equivalent Observations

Station ID	Name	Elev. (ft)	Snow Water Equivalent (in)	Date (UTC)	Distance
CT-WN-8	MOOSUP 1.7 NE, CT	417	0.75	2019-01-23 11	22 mi S
MA-NF-11	MILLIS 2.0 SW, MA	207	0.20	2019-01-23 12	26.6 mi E
CT-NL-21	GRISWOLD 0.9 N, CT	190	0.00	2019-01-23 09	30.6 mi S
MA-MD-12	ACTON 1.3 SW, MA	220	1.36	2019-01-23 12	35.3 mi NE
RI-WS-42	RICHMOND 4.6 NNE, RI	381	0.20	2019-01-23 12	36.2 mi SSE

Click around. Experiment. Pick a date from the past. Find your reports and more. Your submitted reports do go far.

A wet year for 2018 Last month, we had our “Salute to the 70’s” segment, pointing out those that reported more than 70” for Year 2018. For Rhode Island, we thought that RI-PR-17 (Cranston) broke the state record, but the Northeast Climate Center said not. The record for Rhode Island is 74.60” from North Scituate in Year 1972.

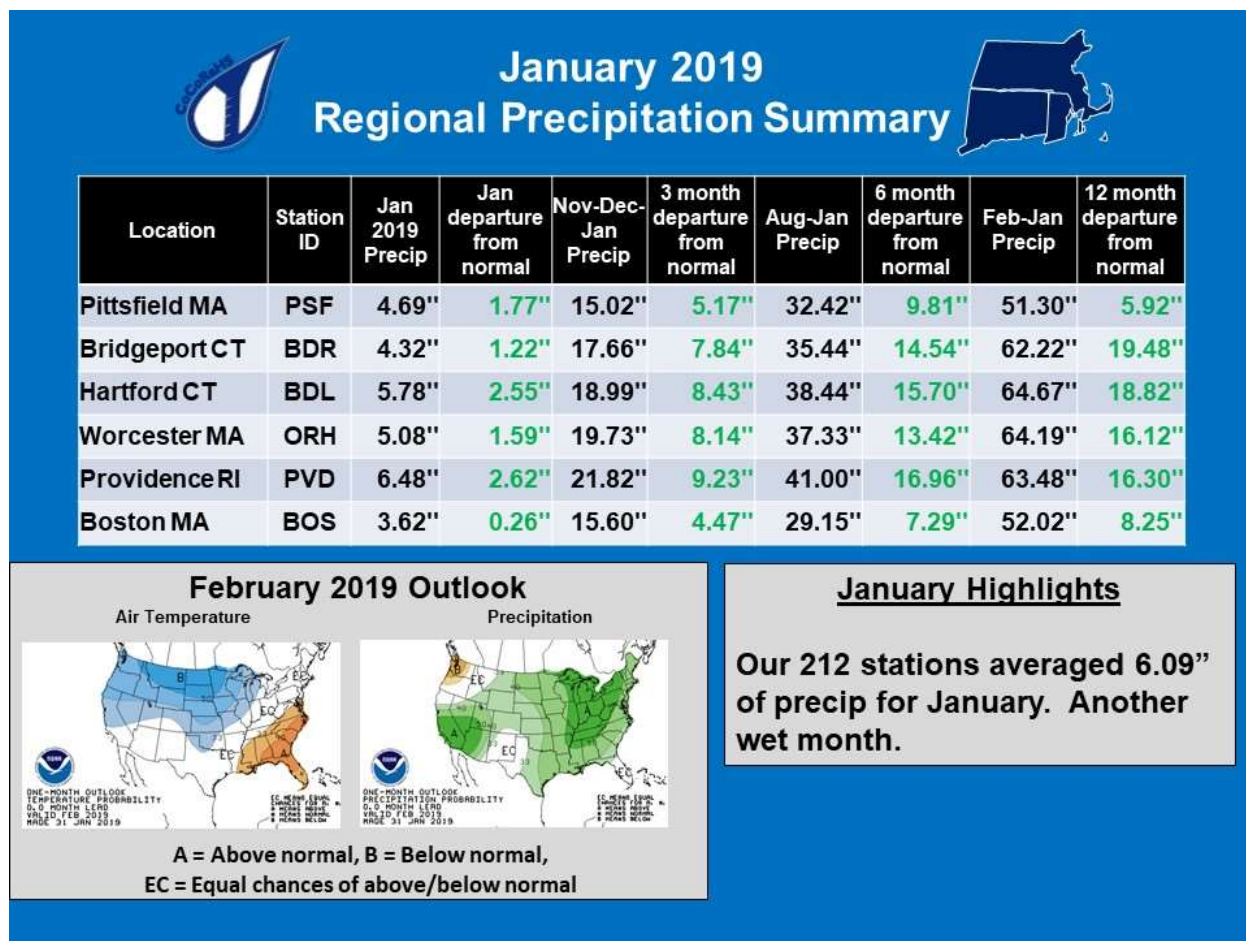
Recently, NWS Eastern Region updated this graphic below. You might recognize some of our observers in our 3 states and NH-CH-20 is included.

Top 5 Highest 2018 Rainfall Totals By State - Eastern US			
Connecticut		Maine	
Moosup CT	76.89"	West Rockport ME	65.33"
Madison Center CT	73.82"	Eastport ME	64.18"
Hampton CT	71.09"	Robbinston ME	59.96"
Ridgefield CT	70.42"	Cape Neddick ME	59.64"
Norwich CT	69.78"	Kennebunkport ME	59.43"
Delaware		Maryland	
Smyrna DE	71.12"	Thurmont MD	*84.35"
Newark DE	66.08"	Catonsville MD	84.11"
Wilmington DE (5.1 mi NNW)	66.08"	Mechanicsville MD	80.78"
Laurel DE	65.61"	Millers MD	79.35"
Dover DE	65.50"	Kingsville MD	78.72"
District of Columbia		North Carolina	
Dalecarlia Reservoir	*74.40"	Mount Mitchell NC	*139.94"
National Arboretum	68.01"	Jonas Ridge NC	136.87"
Reagan National Airport	66.28"	Lake Toxaway NC	129.99"
Florida		Cedar Mountain NC	123.80"
Alford FL	102.61"	Highlands NC	116.41"
De Funiak Springs FL	97.25"	Ohio	
Vernon FL	95.58"	Hannibal OH	70.51"
Gonzalez FL	95.55"	Steubenville OH	69.55"
Niceville FL	91.01"	Newport OH	66.85"
Georgia		Marietta OH	66.57"
Germany Valley GA	*116.48"	Glouster OH	65.36"
Helen GA	107.71"	Massachusetts	
Sautee GA	103.60"	Kingston MA	74.90"
Rabun Gap GA	95.66"	Taunton MA	72.97"
Tugalo Dam GA	95.23"	Norton MA	72.25"
Virginia		Plainfield MA	72.03"
Montebello VA	*97.34"	Springfield MA	71.77"
Roanoke VA (5.8 mi SW)	87.33"	New Hampshire	
Sperryville VA	86.48"	Mount Washington NH	94.22"
Madison VA	84.62"	Pinkham Notch NH	72.17"
Rocky Mount VA	83.33"	Greenville NH	67.90"
West Virginia		South Sutton NH	66.75"
Parsons WV	*96.99"	Rindge NH	66.70"
Snowshoe WV	86.30"	New Jersey	
Hacker Valley WV	80.86"	Mine Hill Township NJ	79.89"
Davis WV	80.28"	Rockaway NJ	79.28"
Burton WV	78.89"	Hardyston Township NJ	77.77"
Pennsylvania		Howell NJ	76.96"
Hidden Valley PA	*98.86"	Boonton NJ	76.58"
Fairfield PA	84.23"	Rhode Island	
Mahanoy City PA	83.67"	Cranston RI	71.24"
Palmerton PA	82.84"	Coventry RI	70.60"
Laurel Summit PA	81.94"	Woonsocket RI	68.43"
Rhode Island		East Greenwich RI	67.62"
South Carolina		North Smithfield RI	67.21"
Jocassee SC	*123.45"	*Preliminary state precipitation record – Pending review of the State Climate Extremes Committee (SCEC)	
Caesars Head SC	115.10"		
Table Rock SC	100.37"		
Slater-Marietta SC	95.24"		
Salem SC	91.89"		

To finish up Year 2018, The National Centers for Environmental Information (NCEI) published its [summary](#). Massachusetts had its wettest year on record. We define the climate!

Detail and Summary for January 2019

From the National Weather Service (NWS) Climate sites for Jan 2019.

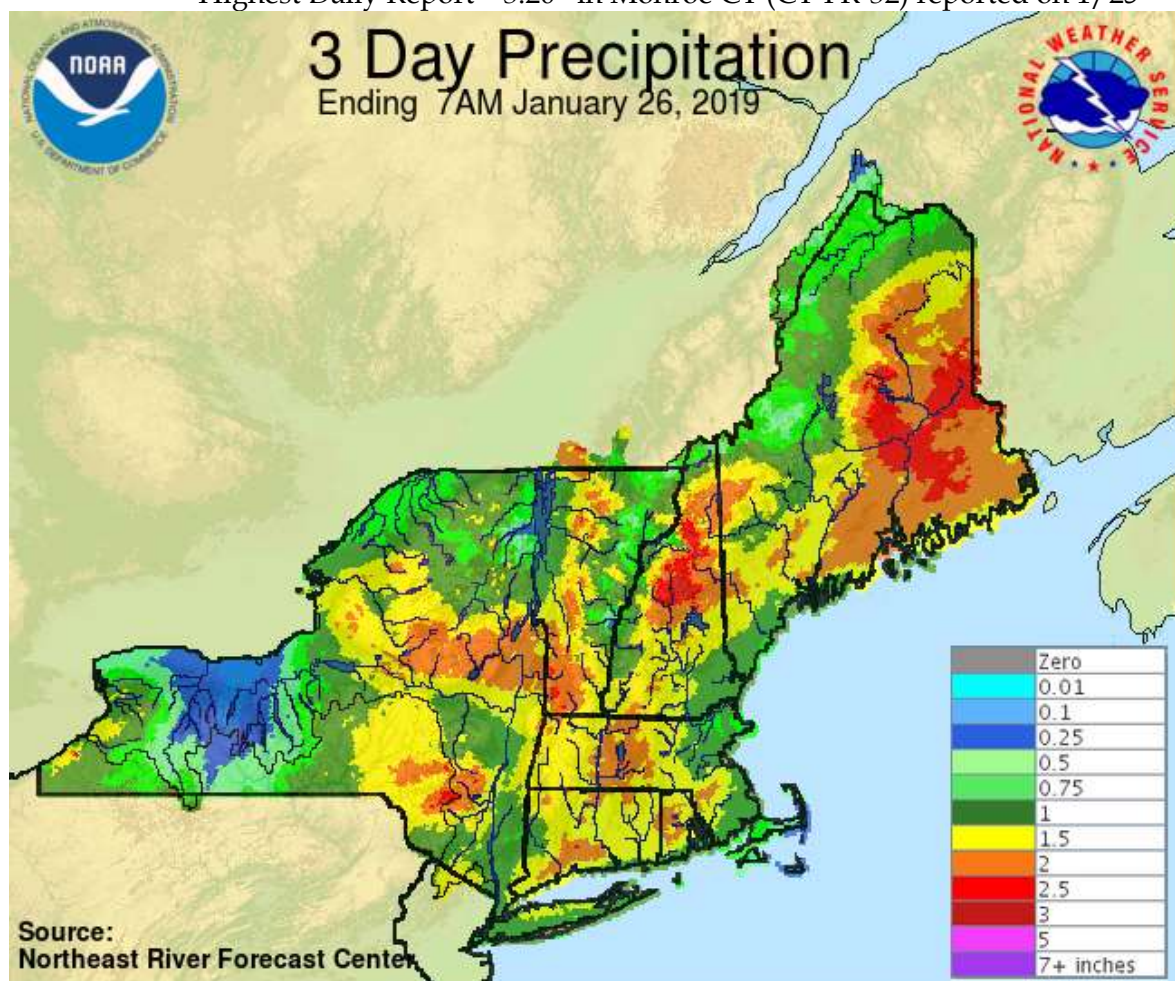


Rain came on New Year's Day, and again between the 5th and the 6th. Dry and cold after the 10th through the 19th. Snow, sleet, freezing rain, rain on an event for Sunday the 20th. Brutal cold temps for the 21st and 22nd. Rain started before the 25th, noted by the map on the next page, and washed the snow away with local area flooding. Snow to the north, rain to the south on the 30th that froze solid in the gauge. Our first Snow Squall Warnings to end the month on the 31st.

Significant Weather Reports, mPING reports, CT-NL-6 calling in a Flood Advisory on the 5th, and one hail report from RI-PR-60 on January 6th. We saw them all and we thank you for the strong reporting month of January. Take in the next section with appreciation of your efforts.

From your reports for January 2019

Observers reporting	363
Reported all 31 days	186
Completed by Multi-Day Reports	33
Missing 1 or 2 reports	48
Daily Reports	9153
Zero Reports	4858
Non-Zero Reports	4295
Daily Comments	2055
Multi-Day Reports	170
Condition Monitoring Reports	25
Significant Weather Reports	39
Snowfall Reports	5953
Snow Depth Reports	3534
SWE Reports	1944
Highest Daily Report	3.20" in Monroe CT (CT-FR-32) reported on 1/25



The two heads of January weather challenged us all. Keep up with the day-by-day reporting.

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

Watershed	Watershed Name	Station Number	Station Name	Precip
01070004	Nashua			
0107000401	North Nashua River	MA-WR-44	Westminster 0.6 WSW	5.29"
0107000401	North Nashua River	MA-WR-8	Fitchburg 1.6 SSW	3.89"
0107000401	North Nashua River	MA-WR-22	Fitchburg 2.0 NNE	4.99"
0107000402	Headwaters Nashua River	MA-WR-64	Sterling 3.7 WNW	4.82"
0107000402	Headwaters Nashua River	MA-WR-56	Sterling 4.3 NW	4.27"
0107000403	Squannacook River	MA-MD-47	West Townsend 0.5 W	4.69"
01070005	Concord			
0107000501	Sudbury River	MA-MD-88	Wayland 2.1 SSE	4.74"
0107000502	Concord River	MA-WR-28	Berlin 1.3 WSW	4.81"
0107000502	Concord River	MA-MD-115	Hudson 1.4 NW	4.43"
0107000502	Concord River	MA-MD-12	Acton 1.3 SW	4.66"
0107000502	Concord River	MA-MD-51	Maynard 0.7 ESE	4.95"
0107000502	Concord River	MA-MD-62	Chelmsford 1.2 E	4.35"
01070006	Merrimack River			
0107000612	Stony Brook - Merrimack River	MA-MD-104	Littleton 2.8 NNW	4.18"
0107000612	Stony Brook - Merrimack River	MA-MD-93	Westford 1.5 SSW	4.34"
0107000613	Shawsheen River	MA-ES-48	Andover 0.6 E	4.37"
0107000614	Powwow River - Merrimack River	MA-ES-20	Haverhill 0.7 N	4.05"
0107000614	Powwow River - Merrimack River	MA-ES-4	Groveland 0.5 WSW	4.08"
01080201	Middle Connecticut			
0108020106	Manhan River - Connecticut River	MA-HS-2	Westhampton 1.8 SW	5.72"
0108020106	Manhan River - Connecticut River	MA-HS-8	Williamsburg 1.2 WSW	5.58"
0108020106	Manhan River - Connecticut River	MA-HS-26	Easthampton 0.5 SW	5.88"
0108020106	Manhan River - Connecticut River	MA-FR-12	Sunderland 1.3 SE	5.13"
01080202	Miller			
0108020201	Upper Millers River	NH-CH-20	Rindge 3.2 ESE	5.44"
0108020202	Lower Millers River	MA-WR-40	Gardner 1.4 SSW	5.02"
01080203	Deerfield			
0108020305	Lower Deerfield River	MA-FR-17	Buckland 1.8 ESE	5.82"
0108020305	Lower Deerfield River	MA-FR-13	Conway 2.9 NW	5.51"
0108020305	Lower Deerfield River	MA-FR-10	Conway 0.9 SW	5.37"

01080204	Chicopee			
0108020401	Swift River	MA-FR-8	New Salem 3.1 S	5.43"
0108020402	Ware River	MA-WR-54	Barre 1.4 NNE	6.11"
0108020404	Chicopee River	MA-HD-25	Ludlow 2.3 SW	5.81"
01080205	Lower Connecticut			
0108020501	Mill River-Connecticut River	CT-HR-57	Suffield Depot 3.3 NNE	5.87"
0108020502	Scantic River	CT-TL-26	Broad Brook 2.6 ESE	5.39"
0108020502	Scantic River	CT-TL-15	Central Somers 0.3 N	6.05"
0108020503	Park River	CT-HR-58	West Hartford 2.1 NNE	6.38"
0108020503	Park River	CT-HR-11	West Hartford 2.7 SSE	6.28"
0108020503	Park River	CT-HR-53	Hartford 2.0 SW	5.84"
0108020504	Hockanum River	CT-TL-19	Vernon 2.8 N	6.07"
0108020505	Roaring Brook - Connecticut River	CT-HR-6	Wethersfield 1.2 WSW	5.65"
0108020505	Roaring Brook - Connecticut River	CT-HR-68	Rocky Hill 1.3 E	6.22"
0108020505	Roaring Brook - Connecticut River	CT-HR-22	East Hartford 1.3 E	6.58"
0108020506	Mattabesset River	CT-HR-15	Southington 3.0 E	7.28"
0108020506	Mattabesset River	CT-HR-80	Kensington 0.7 WSW	7.09"
0108020506	Mattabesset River	CT-HR-65	Newington 1.9 SSW	6.38"
0108020507	Higganum Creek - Connecticut River	CT-MD-2	Portland 0.9 S	6.56"
0108020507	Higganum Creek - Connecticut River	CT-MD-23	Higganum 0.7 N	6.86"
0108020507	Higganum Creek - Connecticut River	CT-MD-26	Higganum 0.8 NE	6.05"
0108020509	Eightmile River - Connecticut River	CT-MD-19	Ivoryton 0.9 WSW	5.16"
0108020509	Eightmile River-Connecticut River	CT-MD-18	Essex Village 0.9 S	5.81"
01080206	Westfield			
0108020601	Headwaters Westfield River	MA-HS-14	Plainfield 2.4 ESE	5.77"
01080207	Farmington			
0108020701	Still River	CT-LT-15	Colebrook 1.0 NE	6.39"
0108020702	West Branch Farmington River	CT-LT-18	New Hartford Center 1.5 N	5.97"
0108020704	Headwaters Farmington River	CT-LT-9	New Hartford Center 3.2 SW	6.64"
0108020704	Headwaters Farmington River	CT-HR-28	North Canton 0.8 SSW	6.63"
0108020705	Salmon Brook	CT-HR-60	North Granby 0.7 N	5.93"
0108020705	Salmon Brook	CT-HR-8	North Granby 1.3 ENE	6.01"
01090001	Charles			
0109000101	Plum Island Sound - Frontal Atlantic Ocean	MA-ES-24	Newburyport 0.8 SW	3.90"
0109000102	Ipswich River	MA-MD-85	Wilmington 2.2 WNW	4.62"
0109000102	Ipswich River	MA-MD-125	Tewksbury 3.6 SSE	4.12"
0109000102	Ipswich River	MA-MD-45	Wilmington 1.5 NE	4.66"
0109000102	Ipswich River	MA-ES-12	Boxford 2.4 S	4.08"
0109000103	Essex River - Frontal Atlantic Ocean	MA-ES-41	Danvers 0.8 ESE	4.06"
0109000104	Saugus River - Frontal Broad Sound	MA-MD-81	Wakefield 0.5 NNW	3.62"
0109000104	Saugus River - Frontal Broad Sound	MA-MD-126	Melrose 0.5 NE	3.48"

0109000104	Saugus River - Frontal Broad Sound	MA-ES-45	Nahant 0.4 N	3.75"
0109000104	Saugus River - Frontal Broad Sound	MA-ES-8	Marblehead 0.8 SW	3.68"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-123	Lexington 1.3 SE	3.88"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-7	Winchester 0.7 SE	4.15"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-44	Medford 1.2 W	4.25"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-11	Cambridge 0.9 NNW	4.69"
0109000105	Mystic River - Frontal Boston Harbor	MA-SF-10	Chelsea 0.8 N	4.28"
0109000106	Upper Charles River	MA-WR-1	Milford 2.3 NNW	5.69"
0109000106	Upper Charles River	MA-MD-106	Holliston 2.4 W	5.56"
0109000106	Upper Charles River	MA-MD-55	Holliston 0.7 W	6.00"
0109000106	Upper Charles River	MA-MD-42	Holliston 0.8 S	5.48"
0109000106	Upper Charles River	MA-NF-11	Millis 2.0 SW	5.69"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-120	Natick 1.9 NNE	4.69"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-136	Weston 2.5 WNW	6.54"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-119	Watertown 1.1 W	4.29"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-134	Somerville 0.5 SSE	4.19"
0109000108	Neponset River - Frontal Boston Harbor	MA-NF-1	Norwood 1.3 NW	5.06"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-NF-32	Quincy 1.8 WSW	5.15"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-NF-39	Weymouth 2.3 N	5.42"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-PL-36	Hingham 0.8 ESE	6.20"
01090002	Cape Cod			
0109000201	North River - Frontal Massachusetts Bay	MA-PL-47	Plymouth 1.1 NNW	5.78"
0109000202	Cape Cod	MA-BA-2	Falmouth 3.1 NNW	6.99"
0109000202	Cape Cod	MA-BA-57	Falmouth 5.7 N	6.43"
0109000202	Cape Cod	MA-BA-13	Falmouth 0.6 NNW	7.07"
0109000202	Cape Cod	MA-BA-50	Falmouth 5.4 NNE	6.48"
0109000202	Cape Cod	MA-BA-19	East Falmouth 0.7 NW	7.31"
0109000202	Cape Cod	MA-BA-3	Falmouth 3.0 E	6.96"
0109000202	Cape Cod	MA-BA-11	East Falmouth 1.4 ESE	6.14"
0109000202	Cape Cod	MA-BA-18	Waquoit 0.6 SSW	6.90"
0109000202	Cape Cod	MA-BA-47	Mashpee 2.4 WSW	7.27"
0109000202	Cape Cod	MA-BA-45	Sandwich 0.9 NNE	6.38"
0109000202	Cape Cod	MA-BA-78	Mashpee 4.6 S	6.72"
0109000202	Cape Cod	MA-BA-10	East Sandwich 2.3 SE	6.70"
0109000202	Cape Cod	MA-BA-59	Barnstable 3.6 W	7.31"
0109000202	Cape Cod	MA-BA-76	Barnstable 0.7 NE	6.49"
0109000202	Cape Cod	MA-BA-22	Yarmouth 0.9 NNW	6.53"
0109000202	Cape Cod	MA-BA-72	Yarmouth 2.0 S	6.42"
0109000202	Cape Cod	MA-BA-1	Yarmouth 2.3 SSE	6.01"
0109000202	Cape Cod	MA-BA-52	Truro 0.8 E	6.58"
0109000202	Cape Cod	MA-BA-51	Orleans 3.0 S	6.42"

0109000202	Cape Cod	MA-BA-30	Eastham 0.6 SW	5.51"
0109000202	Cape Cod	MA-BA-43	Chatham 0.4 WSW	4.66"
0109000202	Cape Cod	MA-BA-65	Chatham 0.2 SSE	4.34"
0109000203	Mattapoissett River - Frontal Buzzards Bay	MA-PL-19	Rochester 1.2 NNW	6.42"
0109000204	Paskamanset River - Frontal Buzzards Bay	MA-BR-14	Dartmouth 2.5 SSW	6.67"
0109000204	Paskamanset River - Frontal Buzzards Bay	MA-BR-52	New Bedford 4.3 N	4.19"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-5	Little Compton 1.7 NW	6.65"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-7	Little Compton 0.6 E	6.93"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-5	West Tisbury 2.9 N	8.03"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-2	Vineyard Haven 0.8 WSW	6.99"
01090003	Blackstone			
0109000301	Upper Blackstone River	MA-WR-41	Auburn 2.6 SW	5.76"
0109000301	Upper Blackstone River	MA-WR-43	Leicester 2.4 ESE	5.91"
0109000302	Lower Blackstone River	RI-PR-50	Harrisville 1.2 SSE	6.88"
0109000302	Lower Blackstone River	RI-PR-28	North Smithfield 0.7 SE	7.16"
0109000302	Lower Blackstone River	RI-PR-63	Woonsocket 1.5 NW	6.63"
0109000302	Lower Blackstone River	RI-PR-45	Manville 0.4 WSW	7.44"
0109000302	Lower Blackstone River	RI-PR-55	Cumberland Hill 3.6 NNE	6.30"
01090004	Narragansett			
0109000401	Upper Taunton River	MA-BR-30	Taunton 3.9 N	6.31"
0109000401	Upper Taunton River	MA-NF-31	Stoughton 1.2 E	7.19"
0109000401	Upper Taunton River	MA-PL-22	East Bridgewater 0.3 WSW	5.74"
0109000401	Upper Taunton River	MA-PL-15	Abington 1.2 NNE	5.50"
0109000401	Upper Taunton River	MA-PL-23	Pembroke 2.8 SW	6.17"
0109000402	Middle Taunton River	MA-PL-31	Bridgewater 1.8 SE	6.46"
0109000403	Threemile River	MA-NF-19	Foxborough 1.8 SSW	6.46"
0109000403	Threemile River	MA-BR-55	NWS Boston/Norton 2.5 ESE	6.78"
0109000403	Threemile River	MA-BR-33	Taunton 2.4 W	6.47"
0109000403	Threemile River	MA-BR-9	Taunton 2.6 NW	7.31"
0109000404	Ten Mile River	MA-BR-23	Attleboro 0.9 ENE	7.11"
0109000405	Wonnasquatucket River-Moshassuck River	RI-PR-33	Greenville 0.7 NNW	7.27"
0109000405	Woonasquatucket River-Moshassuck River	RI-PR-51	North Smithfield 0.6 S	7.37"
0109000405	Woonasquatucket River-Moshassuck River	RI-PR-60	North Providence 0.9 E	6.47"
0109000405	Woonasquatucket River-Moshassuck River	RI-PR-53	Providence 1.7 N	5.13"
0109000406	Pawtuxet River	RI-KN-21	Coventry 1.9 NE	7.32"
0109000406	Pawtuxet River	RI-PR-57	Cranston 1.2 SSE	7.16"
0109000406	Pawtuxet River	RI-PR-17	Cranston 4.1 E	6.82"
0109000406	Pawtuxet River	RI-PR-44	Cranston 4.2 ENE	7.29"
0109000407	Palmer River	MA-BR-2	Rehoboth 2.1 N	7.37"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-3	Norton 1.8 NNE	7.71"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-16	Somerset 0.4 SSE	6.48"

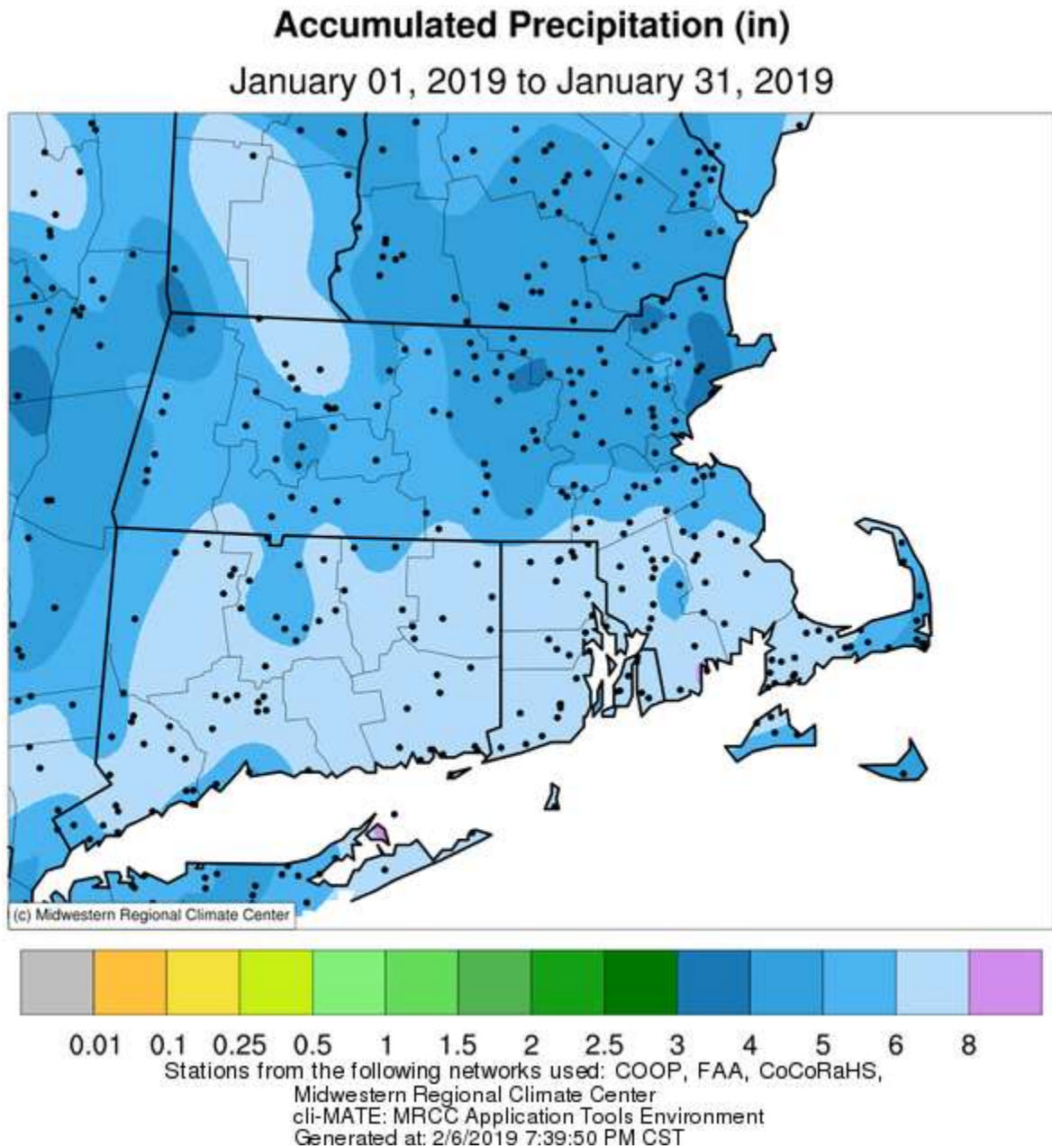
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-19	Somerset 2.0 NNE	6.55"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-8	Dighton 1.1 WSW	6.68"
0109000409	Narragansett Bay	RI-KN-17	East Greenwich 1.2 NNE	7.35"
0109000409	Narragansett Bay	RI-WS-50	North Kingstown 3.1 NW	7.37"
0109000409	Narragansett Bay	RI-WS-31	Kingston 7.5 NNE	7.18"
0109000409	Narragansett Bay	RI-WS-44	North Kingstown 1.5 SSW	5.47"
0109000409	Narragansett Bay	RI-KN-2	East Greenwich 2.3 ESE	7.42"
0109000409	Narragansett Bay	RI-NW-18	Jamestown 0.3 SSE	5.87"
0109000409	Narragansett Bay	RI-NW-4	Middletown 1.1 SW	4.66"
0109000409	Narragansett Bay	RI-NW-19	Portsmouth 2.3 S	5.63"
0109000409	Narragansett Bay	RI-NW-16	Portsmouth 1.3 S	6.58"
0109000409	Narragansett Bay	RI-NW-11	Tiverton 0.8 SSW	6.38"
0109000409	Narragansett Bay	RI-NW-20	Tiverton 1.0 SSW	6.30"
01090005	Pawcatuck-Wood			
0109000501	Wood River	RI-WS-1	Hope Valley 3.7 S	6.81"
0109000502	Upper Pawcatuck River	RI-WS-42	Richmond 4.6 NNE	7.08"
0109000502	Upper Pawcatuck River	RI-WS-45	Charlestown 4.7 NNE	7.33"
0109000503	Lower Pawcatuck River	CT-NL-40	Pawcatuck 1.8 SSE	7.92"
0109000503	Lower Pawcatuck River	RI-WS-47	Westerly 0.8 WNW	8.09"
0109000504	Frontal Block Island Sound	RI-WS-36	Charlestown 3.0 WSW	7.33"
01100001	Quinebaug			
0110000102	French River	MA-WR-68	Oxford 0.9 SSW	5.82"
0110000103	Fivemile River	CT-WN-4	East Killingly 1.3 SW	7.49"
0110000105	Moosup River	CT-WN-8	Moosup 1.7 NE	7.90"
0110000105	Moosup River	CT-WN-19	Sterling 1.0 SE	7.22"
0110000106	Pachaug River	CT-NL-21	Griswold 0.9 N	6.56"
01100002	Shetucket			
0110000201	Willimantic River	CT-TL-18	Hebron 5.3 NW	8.09"
0110000201	Willimantic River	CT-TL-28	South Coventry 1.2 NNW	6.60"
0110000201	Willimantic River	CT-TL-2	Staffordville 0.4 NNW	5.71"
0110000202	Natchaug River	CT-TL-27	Willington 2.7 SE	6.25"
0110000203	Shetucket River	CT-NL-10	Norwich 2.5 NNE	6.73"
01100003	Thames			
0110000302	Thames River-Frontal New London Harbor	CT-NL-5	Oakdale 2.6 WNW	6.35"
0110000302	Thames River-Frontal New London Harbor	CT-NL-6	New London 1.0 NNW	7.80"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-38	Old Lyme 3.4 ESE	5.70"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-32	Niantic 1.1 SW	6.17"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-22	Central Waterford 2.7 SSW	6.26"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-37	Mystic 1.6 W	7.88"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-24	Stonington 1.4 NNW	7.42"
01100004	Quinnipiac			

0110000401	Quinnipiac River	CT-NH-14	Prospect 1.9 ENE	7.75"
0110000401	Quinnipiac River	CT-HR-55	Southington 1.7 WNW	7.36"
0110000401	Quinnipiac River	CT-HR-23	Southington 0.9 SSE	6.97"
0110000401	Quinnipiac River	CT-NH-44	Wallingford Center 1.9 WNW	7.98"
0110000401	Quinnipiac River	CT-NH-43	Wallingford Center 3.3 NNW	7.65"
0110000401	Quinnipiac River	CT-NH-42	Wallingford Center 1.1 N	7.04"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-41	Madison Center 1.6 W	6.44"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-50	Madison Center 4.1 N	5.31"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-MD-21	Killingworth 2.6 ESE	5.43"
0110000403	Mill River - Frontal Long Island Sound	CT-NH-16	Milford 1.8 E	5.96"
01100005	Housatonic			
0110000501	Headwaters Housatonic River	MA-BE-11	Great Barrington 3.0 N	5.25"
0110000501	Headwaters Housatonic River	MA-BE-3	Stockbridge .2 NNE	4.96"
0110000501	Headwaters Housatonic River	MA-BE-10	Pittsfield 2.0 NNW	5.82"
0110000504	Macedonia Brook - Housatonic River	CT-LT-20	Warren 2.4 WNW	5.87"
0110000506	Candlewood Lake-Housatonic River	CT-LT-22	New Milford 5.3 SSW	5.79"
0110000508	Still River - Housatonic River	CT-FR-43	Bethel 0.5 E	6.36"
0110000508	Still River - Housatonic River	CT-FR-41	Bethel 3.5 NNE	6.39"
0110000508	Still River - Housatonic River	CT-FR-9	Brookfield 3.3 SSE	6.18"
0110000510	Eightmile Brook - Housatonic River	CT-FR-44	Newtown 4.3 E	6.82"
0110000512	Outlet Naugatuck River	CT-NH-47	Seymour 1.5 NE	7.65"
0110000512	Outlet Naugatuck River	CT-NH-45	Naugatuck 1.7 NNE	7.42"
0110000512	Outlet Naugatuck River	CT-NH-22	Prospect 0.5 SW	7.55"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-42	Monroe 0.1 SE	7.66"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-23	Shelton 1.3 W	7.25"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-46	Stratford 0.2 ESE	5.13"
01100006	Saugatuck			
0110000601	Saugatuck River - Frontal Long Island Sound	CT-FR-58	Ridgefield 3.6 N	5.86"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-59	New Canaan 3.8 N	7.12"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-29	Ridgefield 1.9 SSE	6.73"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-3	New Canaan 1.9 ENE	7.08"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-20	Westport 2.5 ENE	6.55"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-57	Trumbull 0.9 W	5.65"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-32	Monroe 0.8 W	8.20"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-26	Stratford 0.9 W	6.31"
0110000604	Mianus River-Rippowam River	CT-FR-39	Stamford 4.2 S	6.22"
0110000604	Mianus River-Rippowam River	CT-FR-50	Darien 2.8 NW	6.40"
02020003	Hudson-Hoosic			
0202000306	Upper Hoosic River	MA-BE-18	North Adams 3.0 WNW	4.56"
02020006	Middle Hudson			
0202000603	Wynants Kill - Hudson River	NY-AB-21	NWS Albany	4.20"

02030203	Long Island Sound			
0203020300	Long Island Sound	NY-SF-114	Fishers Island 0.5 NE	7.01"

Variability in precipitation. It is what we do best! Keep that in mind with every snow fall forecast that you see.

Keep up with the day-by-day reporting.



“We do not live at the airport”

Without much snow for this month of January and for the past 3 months, there may not be that sizable of a difference between these automated gauges and yours. However, do check your totals to a nearby airport.

Our network’s average was about 6.0” for January. This table’s average for January looks no where near 6”, closer to 4.6”!

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

Location	Station ID	January 2019 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	4.42"	0.64"	17.01"	4.94"	38.55"	13.19"	62.45"	13.10"
Danbury CT	DXR	4.43"	1.07"	17.44"	5.73"	31.90"	6.64"	58.01"	8.14"
New Haven CT	HVN	3.88"	0.69"	15.57"	4.84"	31.46"	8.17"	54.20"	7.09"
Meriden CT	MMK	6.42"	3.23"	19.38"	8.65"	37.53"	14.24"	61.32"	14.21"
Hartford CT	HFD	5.24"	2.09"	16.25"	5.91"	32.61"	10.99"	57.78"	14.18"
Willimantic CT	IJD	5.19"	1.74"	16.66"	4.63"	35.33"	10.87"	55.86"	7.44"
New London CT	GON	6.09"	2.82"	15.91"	4.60"	24.04"	0.71"	42.79"	-3.70"
Westerly RI	WST	6.14"	2.75"	19.16"	7.49"	34.76"	11.10"	54.93"	7.54"
Newport RI	UUU	5.30"	1.65"	18.77"	6.89"	35.35"	12.01"	55.42"	9.09"
New Bedford MA	EWB	5.78"	1.85"	18.87"	6.32"	33.87"	9.52"	55.89"	7.53"
Hyannis MA	HYA	5.47"	1.44"	17.85"	5.06"	28.92"	4.52"	50.86"	3.17"
Nantucket MA	ACK	4.70"	1.09"	14.76"	2.92"	24.27"	0.56"	51.22"	6.80"
Marthas Vineyard MA	MVY	5.30"	1.92"	18.22"	6.45"	29.13"	5.11"	49.44"	4.28"
Taunton MA	TAN	4.47"	0.49"	18.51"	5.71"	36.71"	11.22"	61.76"	12.02"
Plymouth MA	PYM	6.33"	2.64"	19.75"	7.01"	37.79"	13.26"	61.70"	12.55"
Norwood MA	OWD	4.70"	1.27"	11.92"	-0.08"	31.82"	8.06"	54.47"	7.41"
Bedford MA	BED	2.58"	-0.89"	14.59"	3.15"	27.13"	4.26"	48.46"	2.75"
Beverly MA	BVY	3.39"	0.03"	16.60"	5.64"	32.18"	9.51"	54.63"	8.45"
Lawrence MA	LWM	2.02"	-0.86"	10.71"	0.88"	24.15"	3.22"	40.79"	-2.37"
Fitchburg MA	FIT	3.40"	0.05"	16.06"	4.74"	38.38"	15.13"	60.35"	13.21"
Orange MA	ORE	3.98"	1.26"	14.94"	5.13"	36.70"	16.00"	58.08"	15.53"
Westfield MA	BAF	3.91"	0.65"	17.15"	6.34"	36.37"	12.16"	62.33"	13.94"
North Adams MA	AQW	3.23"	0.57"	11.21"	1.21"	27.34"	4.30"	44.81"	-1.80"

Rulers of the Snow

We are the Rulers of the Snow. If you are able to, keep making a snowfall and snow depth report every day, rain, snow or sunshine.

Station	Name	Jan 2019 Snowfall	All Days Precip	All Days Snowfall	All Days Snow Depth
MA-HS-7	Plainfield 2.2 SW	19.9"			
MA-FR-17	Buckland 1.8 ESE	17.0"	✓	✓	✓
MA-BE-2	Great Barrington 0.4 N	16.9"			
MA-HS-2	Westhampton 1.8 SW	16.7"	✓		
MA-FR-13	Conway 2.9 NW	16.6"	✓	✓	✓
MA-BE-10	Pittsfield 2.0 NNW	16.3"	✓		
MA-FR-10	Conway 0.9 SW	15.5"	✓	✓	✓
MA-HS-8	Williamsburg 1.2 WSW	15.4"	✓		
MA-HS-14	Plainfield 2.4 ESE	15.3"	✓		
MA-WR-56	Sterling 4.3 NW	15.2"	✓		
MA-FR-25	Conway 2.7 NW	14.8"			
MA-WR-70	Grafton 1.5 W	14.5"			
CT-LT-15	Colebrook 1.0 NE	14.0"	✓	✓	✓
CT-LT-9	New Hartford Center 3.2 SW	13.7"	✓	✓	✓
MA-HS-26	Easthampton 0.5 SW	13.7"			
MA-ES-20	Haverhill 0.7 N	13.1"	✓		
MA-WR-42	Northborough 2.3 N	13.1"			
CT-HR-8	North Granby 1.3 ENE	12.9"	✓	✓	✓
MA-HS-12	Northampton 0.4 S	12.8"			
MA-WR-22	Fitchburg 2.0 NNE	12.6"	✓		
MA-MD-51	Maynard 0.7 ESE	12.5"	✓	✓	✓
MA-WR-40	Gardner 1.4 SSW	12.5"	✓		
CT-LT-7	Litchfield 2.3 NNE	12.4"			
MA-MD-115	Hudson 1.4 NW	12.2"	✓		
MA-BE-3	Stockbridge .2 NNE	12.1"	✓		
MA-MD-125	Tewksbury 3.6 SSE	12.0"	✓	✓	✓
MA-HD-25	Ludlow 2.3 SW	11.9"	✓	✓	✓
CT-HR-28	North Canton 0.8 SSW	11.8"	✓		
CT-HR-60	North Granby 0.7 N	11.6"			
MA-ES-4	Groveland 0.5 WSW	11.6"	✓	✓	
MA-WR-41	Auburn 2.6 SW	11.6"	✓		

January 2019 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.

Our average was 295 Daily Reports per day. Another good month, with very little drop off.

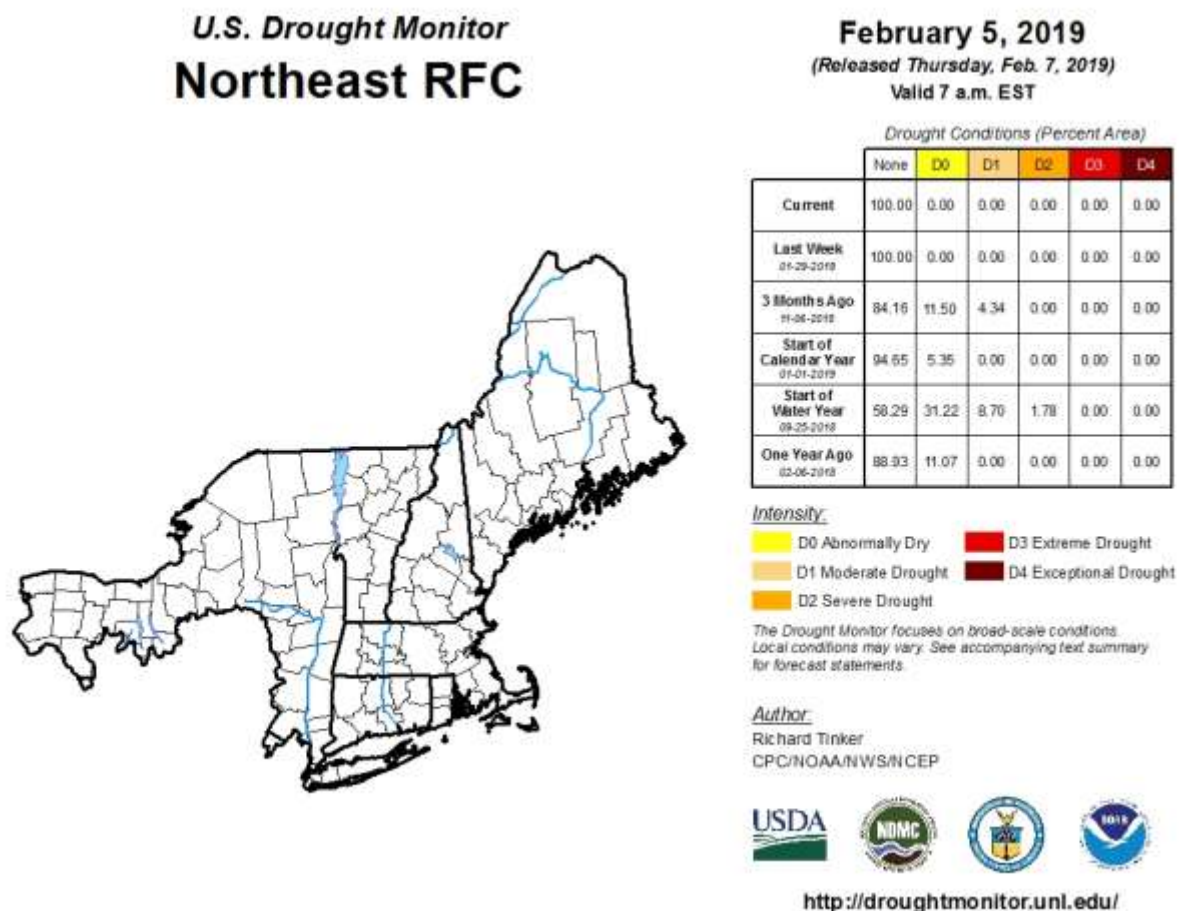
January 2019						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 318	2 300	3 306	4 306	5 308
6 310	7 296	8 306	9 309	10 306	11 298	12 294
13 291	14 293	15 300	16 302	17 295	18 301	19 284
20 292	21 278	22 277	23 280	24 299	25 301	26 284
27 272	28 280	29 287	30 297	31 283		

From the Drought Monitor.

All gone! We start from here as we begin to lengthen our days and approach summer sunshine and evaporation.

February is tough with cold and snow. If you are in the habit of making Comments with your Daily Reports, try making a Condition Monitoring Report. One report a week is all that we seek.

Every drop counts and zeros do too!



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

Wrap up

February is the shortest month of the year. Because of our northern climate, it tends to be our lowest month in reporting for our network. Climatologically, February is our driest month of the year, averages of precipitation near 3.5", down from its usual 4" per month.

Whether you put much stock in the shadows of a Groundhog or not, the Climate Prediction Center, located in College Park MD, updates their 6-10 day and 8-14 day outlooks, every day after 3PM. The temperature forecasts within 2 weeks tend to be reliable. The precipitation forecasts can be a good guide, but we know how variable precipitation can be. The plans that I make this week and weekend, are based upon their predictions for the next week and the weekend after that. Check them out at www.cpc.noaa.gov updated 7 days a week after 3PM.

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. Soon, 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.