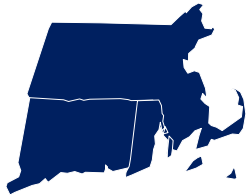




Southern



New England

September 2018

The rains that started in mid-July stayed with us for the first three weeks in August. Since then, the rains have stopped for now, but the totals are amazing to see. The rains did not fall the same on all.

Single month reporting records continue to be smashed. In total, we eclipsed 9000 total Daily Reports, averaging 291 Daily Reports per day. Connecticut cracked the century mark with 100 Daily Reports per day. Rhode Island is nearing 39 Daily Reports per day. It is amazing to see the effort in measuring and reporting every day, regardless of rain or zeros.

Within this month's Newsletter: We lead off with The Grand List Observers. Our first "Observer of the Month" segment features CT-HR-39. If you want to participate in this "Observer of the Month" segment, please let us know. After a question from MA-BA-57 and a Comment last month from MA-PL-47, Joe shares with us why we were stuck in humid air and why the precipitation stayed in the western half of our area, not the eastern half. Condition Monitoring Reports, one more time, with words written to rhyme. The downpours continued, and Significant Weather Reports were not far behind those downpours. See how the events unfolded on Saturday morning August 4 with CT-NH-41 in Madison CT.

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-HR-5 Enfield 1.5 SE

1000 Daily Reports

MA-ES-20 Haverhill 0.7 N
MA-MD-34 Chelmsford 2.0 ENE
MA-BA-47 Mashpee 2.4 WSW
MA-FR-12 Sunderland 1.3 SE
MA-HS-14 Plainfield 2.4 ESE

Observer of the Month – CT-HR-39

Greetings to all my fellow water loggers!

My name is Rob and I have been the CT-HR-39 observer (Farmington CT) for a couple years now. I learned of this collaborative through local Meteorologist Ryan Hanrahan who is also an observer. For as long as I can remember, with Hurricane Gloria in 1985 particularly, I was always interested in the weather and starting out in college Meteorology was my chosen major. However, as life would have it, I found myself doing something completely different with my career. One thing did stay the same though; my fascination with all things weather. I find that I spend a lot of my free time reading weather history and following current forecast analytics from Cranky Weather Guy and others (shout out to Eweather too!) Besides being part of CoCoRaHS, I am also a SKYWARN Spotter and would like to one day have an automated weather station at my location.

CoCoRaHS has allowed me to really understand the rainfall distribution patterns over time. During some days and months, the difference from my station to a few stations only miles away can really be significant, especially during the summer convective season. In addition, measuring snowfall and water equivalents serves as a great education piece for my two young future observers! Understanding the different ratios and how the snow “feels” wet or dry to their hands helps them understand how these processes in the upper air column work.



TWO YOUNG FUTURE OBSERVERS AT CT-HR-39

My trusty gauge is located off of my back deck and at approximately 450 feet in elevation. Checking my gauge is one of the first things I do in the morning, although sometimes I do forget to log my ZEROS in the morning rush like we all do on occasion! Also, I do make a mistake from time to

time, particularly if I hit single day rather than multi-day reporting on the app, so I'd like to thank the local office for their timely communication.

And finally, THANK YOU to all our dedicated observers doing their part to advance scientific knowledge and even helping to save lives by giving the professionals significant reports in real time!

CT-HR-39 Farmington CT



ANOTHER DAY OF ZEROS AT CT-HR-39

Have Ambition? Report your Condition!

Mud or dust

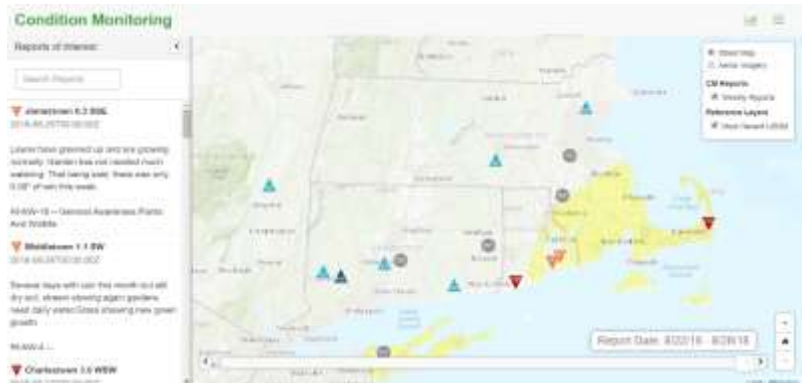
Grass or crust

Please have the ambition

To report your Condition

So that this representation

Is one we can all trust.



One report a week

Is all that we seek

No need to measure what falls
from the sky

Only need to scale how “wet” “normal” or “dry”

Look around you, with a glance of the eye

Say how normal is the grass, the mud, the creek.



Never submitted a report before?

It is easy, not a chore.

Go to the website and login

There are plenty of guidelines in case you
have forgotten

Whether it's winter cold or summer sun

Reporting is simple enough that you may want to submit more.

Think no one notices? Not so fast!
Others read about the Conditions that last.
Every week, there is an assessment of drought.
Your reports can eliminate the doubt.
As our entire continent is studied throughout
And all the data are amassed.

Our summer rains did not fall the same on all.
Some totals were large, and some totals were small.
All reports can be looked at in any order.
From RI-WS-36. This report is in the [Drought Reporter!](#)



Please continue or start making Condition Monitoring Reports.
There is always more to share. These words are not my last resorts.
Finding words that rhyme.
Seems to suit my writing just fine.

More about Condition Monitoring Reports in this [video](#).

The Culprit for Heat and Humidity This Summer: The Bermuda High

By Joe DelliCarpini – Science & Operations Officer, NWS Norton MA

Have you noticed that this summer has been noticeably hot and humid, especially since the end of July? You can thank the “Bermuda High” which has been the dominant weather feature over the past several weeks.

The Bermuda High is a permanent area of high pressure that is located in the lower latitudes in the Atlantic Ocean. During the winter months, it is located in the eastern Atlantic off the Azores (and is known as the Azores High). It shifts westward in the summer and is located closer to Bermuda. When it moves a little closer to the East Coast, it has more of an influence on the weather along the Eastern Seaboard.

Since winds travel clockwise around high-pressure centers in the Northern Hemisphere, the southwest winds are able to tap into air from the tropics and bring it all the way into the Northeast. The result is usually several days of hot and humid weather, which last until the Bermuda High shifts farther offshore.



THE BERMUDA HIGH PUMPS HOT AND HUMID AIR FROM THE TROPICS UP THE EAST COAST IN SUMMER

The position of the Bermuda High also affects rainfall patterns here in southern New England. Typically, showers and thunderstorms are most numerous in western parts of Massachusetts and Connecticut, due to their farther distance from the center of the high. Locations in eastern Massachusetts and Rhode Island tend to see the least amount of rainfall since they are closer to the center of the high, which causes any showers or thunderstorms to weaken or dissipate.



CoCoRaHS RAINFALL BETWEEN JULY 15 AND AUGUST 30, 2018. NOTE THE HIGHEST TOTALS ARE IN WESTERN NEW ENGLAND, FARTHER AWAY FROM THE CENTER OF THE BERMUDA HIGH.

Occasionally, the Bermuda High will make an appearance during the winter. Instead of hot and humid weather with temperatures in the 90s, we will end up with a few days of sunshine and temperatures in the 50s.

Significant Weather Reports – CT-NH-41

The summer downpours continued in August and so did the Significant Weather Reports from several of you. Although the 6”+ totals reported from Orleans MA on August 9th got the attention of the radar estimates, the events that unfolded on Saturday morning, August 4 points out the impact your Significant Weather Reports can have.

We are going to Madison CT, on the shoreline of CT, east of New Haven.

View Data : View Significant Weather Report US Units ▾

Significant Weather Report	
Station Number:	CT-NH-41
Station Name:	Madison Center 1.6 W
Date:	8/4/2018 8:30 AM
Submitted	8/04/2018 8:32 AM
Notes:	Very heavy rain continues to fall. Have observed 1.36" in 30 minutes. Street flooding is occurring, but nothing significant as yet.
Taken at Registered	True
Location:	
Precip Duration Minutes:	30
New Precip Amount:	1.36 in.
Total Precip Amount:	1.36 in.
New Snow Depth:	0.0 in.
Total Snow Depth:	0.0 in.
Flooding:	Minor



With Flash Flood Watches in effect for many counties in our area, the first Significant Weather Report of the morning, 8:33am, is received. 1.36” in 30 minutes.

A true “screen shot”. Joe was on duty this Saturday morning.

Once again: Submitted at 8:32am. Received at 8:33am. These Significant Weather Reports only take a minute to be delivered.

Live in New Haven County? Reports go to OKX, ALY & BOX. Triple play!

View Data : View Significant Weather Report US Units ▾

Significant Weather Report	
Station Number:	CT-NH-41
Station Name:	Madison Center 1.6 W
Date:	8/4/2018 11:05 AM
Submitted:	8/04/2018 11:07 AM
Notes:	After a brief lull, rain has significantly intensified. Some areas of significant flooding. Boston Post Road closed at railroad underpass in Madison due to flooding. Some areas of deep ponding in streets and driveways.
Taken at Registered:	True
Location:	
Precip Duration:	60
Minutes:	
New Precip Amount:	1.75 in.
Total Precip Amount:	3.20 in.
New Snow Depth:	0.0 in.
Total Snow Depth:	0.0 in.
Flooding:	Unusual

11:07am, the 2nd report of the morning is submitted. Another 1.75" in 60 minutes
15 minutes later, the Office issues a Flash Flood Warning from Madison, northeast to New London County.



NWS New York NY
@NWSNewYorkNY

Following

Flash Flood Warning including Colchester CT, Clinton CT, Deep River CT until 2:15 PM EDT



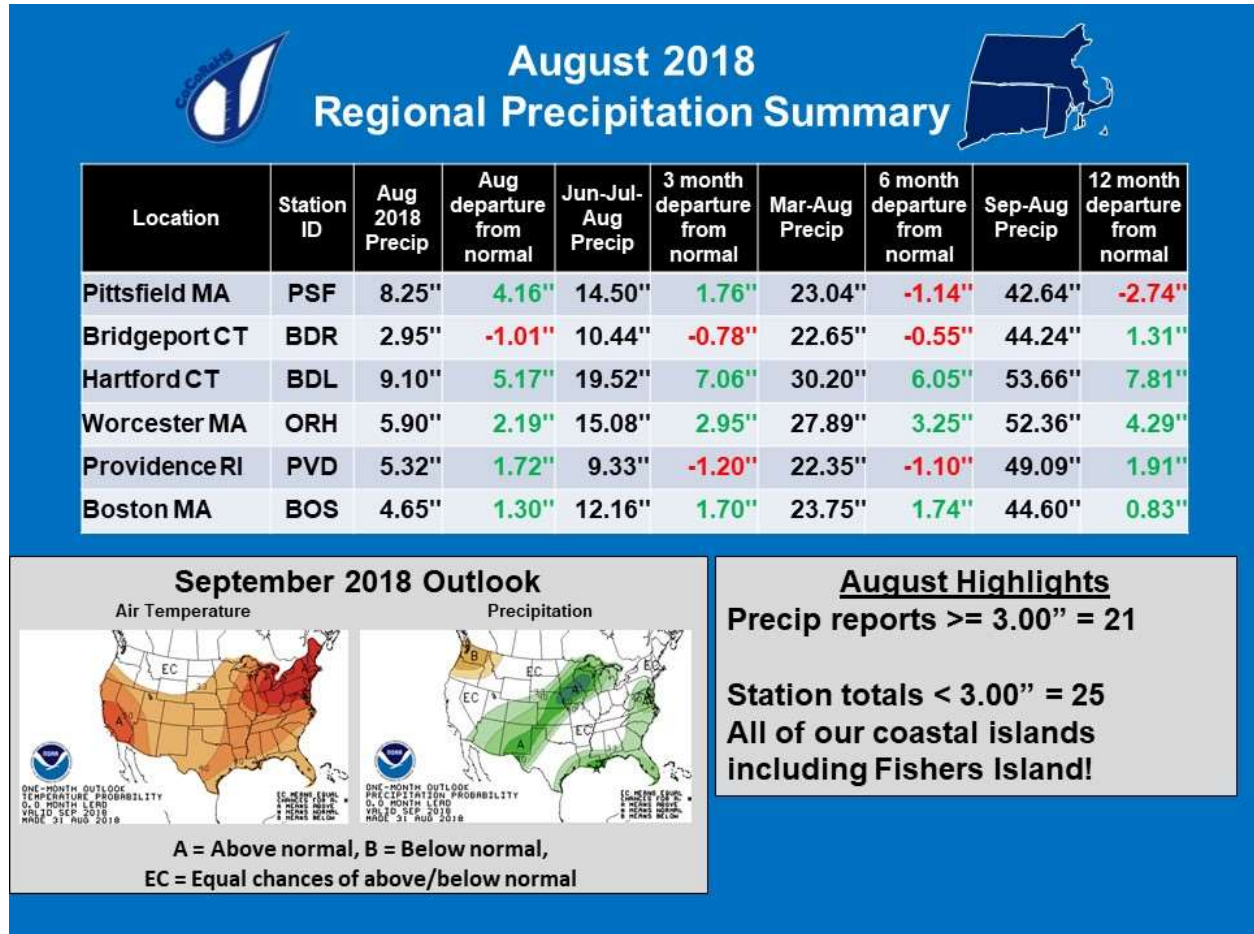
Coincidence? Cause and effect? Not completely sure. The timing and the language of the reports makes it safe to conclude the cause and effect that Significant Weather Reports continue to have.

Be safe. Be timely. Be accurate. Keep 1" of rain or snow in 1 hour or less as a guideline to use for reporting Significant Weather.

Footnote: 3 Significant Weather Reports from CT-NH-41 this day. 5.11" rain reported this day. 9.35" for August. 16.69" for June-July-August.

Detail and Summary for August 2018

From the National Weather Service (NWS) Climate sites for August 2018.



Too many scattered events to list completely during the first three weeks of August. The larger amounts were in Litchfield County for the 4th, Middlesex CT, New London County, and Rhode Island for the 5th, noted on the map from the River Forecast Center, and with tornadoes from Dudley MA – Webster MA, and in Woodstock CT, Eastern Cape Cod on the 10th, Worcester & Franklin County on the 12th, Middlesex CT County on the 14th.

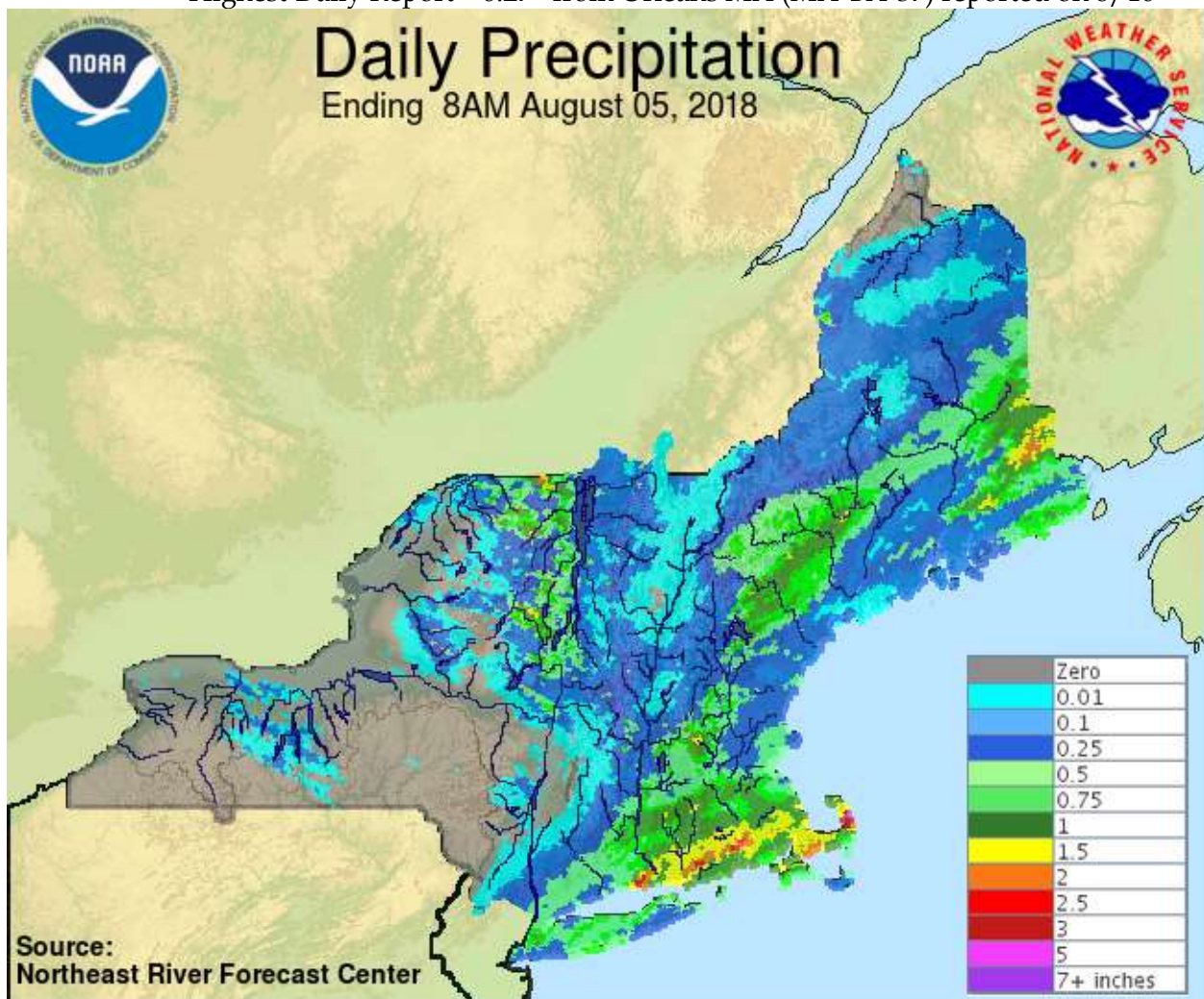
Rain free for the last week of August, leading into Labor Day Weekend.

The variability captured is remarkable. Whether you got these rains, or days of zeros, every report adds to total picture of precipitation.

Take in this next section of your reports with appreciation of your efforts.

From your reports for August 2018

Observers reporting	361
Reported all 31 days	188
Completed by Multi-Day Reports	64
Missing 1 or 2 reports	25
Daily Reports	9034
Zero Reports	4878
Non-Zero Reports	4156
Daily Comments	1563
Multi-Day Reports	187
Condition Monitoring Reports	48
Significant Weather Reports	42
Hail Reports	0
Snowfall Reports	4695
Snow Depth Reports	2202
Highest Daily Report	6.27" from Orleans MA (MA-BA-37) reported on 8/10



Absolutely amazing! Station totals of a wide variation. Another record broken with over 252 stations listed here, going deep into 7 pages long.

Keep the focus on reporting zeros, having a measuring and reporting routine, not missing any days, getting the start dates and end dates correct on the Multi-Day Reports. Let's end this Water Year with another long list next month!

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

Watershed	Watershed Name	Station	Station Name	Precip
01070004	Nashua			
0107000401	North Nashua River	MA-WR-44	Westminster 0.6 WSW	8.36"
0107000401	North Nashua River	MA-WR-8	Fitchburg 1.6 SSW	7.21"
0107000401	North Nashua River	MA-WR-52	Fitchburg 2.3 N	7.21"
0107000401	North Nashua River	MA-WR-22	Fitchburg 2.0 NNE	7.44"
0107000402	Headwaters Nashua River	MA-WR-56	Sterling 4.3 NW	11.48"
0107000402	Headwaters Nashua River	MA-WR-58	Lunenburg 0.6 NE	10.21"
0107000402	Headwaters Nashua River	MA-MD-25	Ayer 0.1 SW	8.42"
0107000403	Squannacook River	MA-MD-47	West Townsend 0.5 W	9.44"
0107000403	Squannacook River	MA-MD-36	Townsend 2.6 S	9.84"
01070005	Concord			
0107000501	Sudbury River	MA-MD-89	Sudbury 3.6 W	5.54"
0107000501	Sudbury River	MA-MD-100	Sudbury 1.6 N	4.30"
0107000501	Sudbury River	MA-MD-88	Wayland 2.1 SSE	4.51"
0107000502	Concord River	MA-WR-28	Berlin 1.3 WSW	6.11"
0107000502	Concord River	MA-WR-18	Northborough 0.6 SSE	5.21"
0107000502	Concord River	MA-WR-42	Northborough 2.3 N	3.58"
0107000502	Concord River	MA-MD-115	Hudson 1.4 NW	7.36"
0107000502	Concord River	MA-MD-12	Acton 1.3 SW	7.80"
0107000502	Concord River	MA-MD-51	Maynard 0.7 ESE	4.56"
0107000502	Concord River	MA-MD-62	Chelmsford 1.2 E	6.00"
0107000502	Concord River	MA-MD-34	Chelmsford 2.0 ENE	6.66"
01070006	Merrimack River			
0107000611	Spicket River	MA-ES-38	Methuen 1.6 NNE	5.88"
0107000612	Stony Brook - Merrimack River	MA-MD-105	Littleton 0.9 WSW	5.68"
0107000612	Stony Brook - Merrimack River	MA-MD-93	Westford 1.5 SSW	3.99"
0107000613	Shawsheen River	MA-MD-52	Lexington 0.6 SW	4.47"
0107000613	Shawsheen River	MA-MD-96	Lexington 0.3 NE	3.48"
0107000613	Shawsheen River	MA-ES-48	Andover 0.6 E	5.10"
0107000614	Powwow River - Merrimack River	MA-ES-20	Haverhill 0.7 N	4.89"

01080201	Middle Connecticut			
0108020106	Manhan River - Connecticut River	MA-HS-2	Westhampton 1.8 SW	5.15"
0108020106	Manhan River - Connecticut River	MA-HS-8	Williamsburg 1.2 WSW	9.14"
0108020106	Manhan River - Connecticut River	MA-HS-26	Easthampton 0.5 SW	4.63"
0108020106	Manhan River - Connecticut River	MA-HS-12	Northampton 0.4 S	6.29"
0108020106	Manhan River - Connecticut River	MA-FR-12	Sunderland 1.3 SE	8.37"
0108020107	Batchelor Brook - Connecticut River	MA-HD-13	Springfield 4.1 W	8.59"
0108020107	Batchelor Brook - Connecticut River	MA-HD-23	Springfield 2.5 WNW	8.37"
01080202	Miller			
0108020201	Upper Millers River	NH-CH-20	Rindge 3.2 ESE	8.55"
0108020202	Lower Millers River	MA-FR-21	Millers Falls 0.2 SW	11.74"
0108020202	Lower Millers River	MA-WR-40	Gardner 1.4 SSW	7.15"
01080203	Deerfield			
0108020305	Lower Deerfield River	MA-FR-17	Buckland 1.8 ESE	8.83"
0108020305	Lower Deerfield River	MA-FR-13	Conway 2.9 NW	9.41"
0108020305	Lower Deerfield River	MA-FR-25	Conway 2.7 NW	9.37"
0108020305	Lower Deerfield River	MA-FR-10	Conway 0.9 SW	9.97"
01080204	Chicopee			
0108020402	Ware River	MA-WR-54	Barre 1.4 NNE	7.35"
0108020403	Quaboag River	MA-HD-26	Brimfield 3.6 NW	7.40"
0108020404	Chicopee River	MA-HD-25	Ludlow 2.3 SW	8.69"
01080205	Lower Connecticut			
0108020501	Mill River-Connecticut River	CT-HR-57	Suffield Depot 3.3 NNE	5.60"
0108020501	Mill River - Connecticut River	CT-HR-5	Enfield 1.5 SE	10.28"
0108020502	Scantic River	CT-TL-26	Broad Brook 2.6 ESE	4.73"
0108020502	Scantic River	MA-HD-20	Wilbraham 3.7 SSW	7.08"
0108020502	Scantic River	CT-TL-15	Central Somers 0.3 N	6.30"
0108020503	Park River	CT-HR-39	Farmington 1.6 SW	5.83"
0108020503	Park River	CT-HR-11	West Hartford 2.7 SSE	5.65"
0108020504	Hockanum River	CT-HR-52	Central Manchester 0.8 N	5.63"
0108020504	Hockanum River	CT-TL-19	Vernon 2.8 N	5.64"
0108020505	Roaring Brook - Connecticut River	CT-HR-6	Wethersfield 1.2 WSW	4.54"
0108020505	Roaring Brook - Connecticut River	CT-HR-45	Wethersfield 1.9 SSW	4.58"
0108020505	Roaring Brook - Connecticut River	CT-HR-51	Wethersfield 1.3 S	5.56"
0108020505	Roaring Brook - Connecticut River	CT-HR-68	Rocky Hill 1.3 E	5.94"
0108020505	Roaring Brook - Connecticut River	CT-HR-22	East Hartford 1.3 E	5.31"
0108020505	Roaring Brook - Connecticut River	CT-HR-7	Central Manchester 2.7 SW	8.67"
0108020506	Mattabeset River	CT-HR-15	Southington 3.0 E	5.91"
0108020506	Mattabeset River	CT-HR-65	Newington 1.9 SSW	3.79"
0108020507	Higganum Creek - Connecticut River	CT-MD-2	Portland 0.9 S	4.93"
0108020507	Higganum Creek - Connecticut River	CT-MD-23	Higganum 0.7 N	5.89"
0108020509	Eightmile River - Connecticut River	CT-MD-19	Ivoryton 0.9 WSW	8.01"

0108020509	Eightmile River-Connecticut River	CT-MD-18	Essex Village 0.9 S	6.34"
01080206	Westfield			
0108020601	Headwaters Westfield River	MA-HS-14	Plainfield 2.4 ESE	8.64"
01080207	Farmington			
0108020701	Still River	CT-LT-15	Colebrook 1.0 NE	6.12"
0108020702	West Branch Farmington River	MA-BE-4	Becket 5.6 SSW	7.92"
0108020702	West Branch Farmington River	CT-LT-18	New Hartford Center 1.5 N	6.79"
0108020704	Headwaters Farmington River	CT-LT-9	New Hartford Center 3.2 SW	8.56"
0108020704	Headwaters Farmington River	CT-HR-70	Canton 1.5 W	8.74"
0108020704	Headwaters Farmington River	CT-HR-71	Bristol 2.7 NNE	5.61"
0108020704	Headwaters Farmington River	CT-HR-28	North Canton 0.8 SSW	7.53"
0108020705	Salmon Brook	CT-HR-60	North Granby 0.7 N	5.76"
0108020705	Salmon Brook	CT-HR-8	North Granby 1.3 ENE	5.92"
01090001	Charles			
0109000101	Plum Island Sound - Frontal Atlantic Ocean	MA-ES-24	Newburyport 0.8 SW	4.57"
0109000102	Ipswich River	MA-MD-85	Wilmington 2.2 WNW	5.68"
0109000102	Ipswich River	MA-MD-45	Wilmington 1.5 NE	6.38"
0109000102	Ipswich River	MA-MD-69	North Reading 1.5 NW	5.94"
0109000102	Ipswich River	MA-ES-12	Boxford 2.4 S	4.04"
0109000102	Ipswich River	MA-ES-2	Beverly 2.8 NW	4.05"
0109000103	Essex River - Frontal Atlantic Ocean	MA-ES-41	Danvers 0.8 ESE	5.09"
0109000104	Saugus River - Frontal Broad Sound	MA-MD-81	Wakefield 0.5 NNW	5.76"
0109000104	Saugus River - Frontal Broad Sound	MA-ES-45	Nahant 0.4 N	4.01"
0109000104	Saugus River - Frontal Broad Sound	MA-ES-8	Marblehead 0.8 SW	4.41"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-7	Winchester 0.7 SE	4.32"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-44	Medford 1.2 W	5.04"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-11	Cambridge 0.9 NNW	5.76"
0109000105	Mystic River - Frontal Boston Harbor	MA-SF-10	Chelsea 0.8 N	5.84"
0109000106	Upper Charles River	MA-WR-1	Milford 2.3 NNW	4.06"
0109000106	Upper Charles River	MA-MD-106	Holliston 2.4 W	3.54"
0109000106	Upper Charles River	MA-MD-55	Holliston 0.7 W	4.98"
0109000106	Upper Charles River	MA-MD-42	Holliston 0.8 S	4.39"
0109000106	Upper Charles River	MA-NF-11	Millis 2.0 SW	10.03"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-120	Natick 1.9 NNE	4.98"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-80	Lincoln 1.5 SW	4.25"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-119	Watertown 1.1 W	3.61"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-SF-1	Boston 0.5 WSW	4.06"
0109000108	Neponset River - Frontal Boston Harbor	MA-NF-1	Norwood 1.3 NW	3.81"
0109000108	Neponset River - Frontal Boston Harbor	MA-SF-17	Dorchester 1.8 ENE	5.29"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-NF-32	Quincy 1.8 WSW	4.51"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-NF-36	Weymouth 2.7 NNW	2.79"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-NF-5	Weymouth 0.5 NW	2.39"

0109000109	Whitmans Pond - Frontal Boston Harbor	MA-PL-36	Hingham 0.8 ESE	1.73"
01090002	Cape Cod			
0109000201	North River - Frontal Massachusetts Bay	MA-PL-43	Hanson 0.7 NW	3.38"
0109000201	North River - Frontal Massachusetts Bay	MA-PL-5	Kingston 3.3 WNW	6.05"
0109000201	North River - Frontal Massachusetts Bay	MA-PL-37	Scituate 1.2 NW	3.05"
0109000201	North River - Frontal Massachusetts Bay	MA-PL-47	Plymouth 1.1 NNW	4.43"
0109000202	Cape Cod	MA-BA-2	Falmouth 3.1 NNW	2.63"
0109000202	Cape Cod	MA-BA-50	Falmouth 5.4 NNE	2.37"
0109000202	Cape Cod	MA-BA-19	East Falmouth 0.7 NW	1.76"
0109000202	Cape Cod	MA-BA-3	Falmouth 3.0 E	2.28"
0109000202	Cape Cod	MA-BA-11	East Falmouth 1.4 ESE	3.99"
0109000202	Cape Cod	MA-BA-47	Mashpee 2.4 WSW	2.49"
0109000202	Cape Cod	MA-BA-45	Sandwich 0.9 NNE	4.08"
0109000202	Cape Cod	MA-BA-10	East Sandwich 2.3 SE	5.22"
0109000202	Cape Cod	MA-BA-59	Barnstable 3.6 W	4.13"
0109000202	Cape Cod	MA-BA-22	Yarmouth 0.9 NNW	4.73"
0109000202	Cape Cod	MA-BA-33	Brewster 1.5 ESE	5.35"
0109000202	Cape Cod	MA-BA-52	Truro 0.8 E	3.53"
0109000202	Cape Cod	MA-BA-36	Harwich 2.6 ENE	2.88"
0109000202	Cape Cod	MA-BA-37	Orleans 0.8 W	8.90"
0109000202	Cape Cod	MA-BA-68	Eastham 1.9 WSW	5.36"
0109000202	Cape Cod	MA-BA-51	Orleans 3.0 S	5.47"
0109000202	Cape Cod	MA-BA-12	Orleans 1.1 E	7.42"
0109000202	Cape Cod	MA-BA-7	Wellfleet 3.0 E	7.55"
0109000202	Cape Cod	MA-BA-30	Eastham 0.6 SW	5.77"
0109000202	Cape Cod	MA-BA-43	Chatham 0.4 WSW	1.80"
0109000202	Cape Cod	MA-BA-65	Chatham 0.2 SSE	1.65"
0109000203	Mattapoissett River - Frontal Buzzards Bay	MA-PL-19	Rochester 1.2 NNW	6.01"
0109000203	Mattapoissett River - Frontal Buzzards Bay	MA-BA-64	Sandwich 1.5 SSE	3.91"
0109000204	Paskamanset River - Frontal Buzzards Bay	MA-BR-14	Dartmouth 2.5 SSW	2.12"
0109000204	Paskamanset River - Frontal Buzzards Bay	MA-BR-52	New Bedford 4.3 N	5.90"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-5	Little Compton 1.7 NW	3.64"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-7	Little Compton 0.6 E	2.97"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-5	West Tisbury 2.9 N	2.49"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-9	West Tisbury 0.4 S	1.27"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-2	Vineyard Haven 0.8 WSW	2.51"
0109000207	Nantucket Island	MA-NT-1	Nantucket 3.8 WNW	1.16"
01090003	Blackstone			
0109000301	Upper Blackstone River	MA-WR-41	Auburn 2.6 SW	7.53"
0109000301	Upper Blackstone River	MA-WR-43	Leicester 2.4 ESE	6.30"
0109000302	Lower Blackstone River	RI-PR-50	Harrisville 1.2 SSE	5.04"
0109000302	Lower Blackstone River	RI-PR-28	North Smithfield 0.7 SE	4.57"

0109000302	Lower Blackstone River	MA-NF-26	Bellingham 2.4 S	5.80"
0109000302	Lower Blackstone River	RI-PR-59	Cumberland Hill 0.9 NW	5.68"
0109000302	Lower Blackstone River	RI-PR-55	Cumberland Hill 3.3 NE	4.70"
01090004	Narragansett			
0109000401	Upper Taunton River	MA-BR-30	Taunton 3.9 N	5.92"
0109000401	Upper Taunton River	MA-NF-31	Stoughton 1.2 E	4.10"
0109000401	Upper Taunton River	MA-PL-22	East Bridgewater 0.3 WSW	3.99"
0109000401	Upper Taunton River	MA-PL-15	Abington 1.2 NNE	2.82"
0109000401	Upper Taunton River	MA-PL-23	Pembroke 2.8 SW	3.73"
0109000402	Middle Taunton River	MA-PL-31	Bridgewater 1.8 SE	4.83"
0109000402	Middle Taunton River	MA-PL-17	Plympton 0.9 NNE	4.64"
0109000403	Threemile River	MA-NF-19	Foxborough 1.8 SSW	5.84"
0109000403	Threemile River	MA-BR-55	NWS Boston/Norton 2.5 ESE	4.95"
0109000403	Threemile River	MA-BR-33	Taunton 2.4 W	6.39"
0109000403	Threemile River	MA-BR-9	Taunton 2.6 NW	5.36"
0109000404	Ten Mile River	MA-BR-23	Attleboro 0.9 ENE	4.49"
0109000405	Woonasquatucket River-Moshassuck River	RI-PR-33	Greenville 0.7 NNW	4.02"
0109000405	Woonasquatucket River-Moshassuck River	RI-PR-51	North Smithfield 0.6 S	4.61"
0109000405	Woonasquatucket River-Moshassuck River	RI-PR-60	North Providence 0.9 E	4.43"
0109000405	Woonasquatucket River-Moshassuck River	RI-PR-53	Providence 1.7 N	5.77"
0109000406	Pawtuxet River	RI-KN-18	Warwick 2.3 NW	4.80"
0109000406	Pawtuxet River	RI-PR-17	Cranston 4.1 E	6.06"
0109000407	Palmer River	MA-BR-2	Rehoboth 2.1 N	6.19"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-3	Norton 1.8 NNE	5.91"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-8	Dighton 1.1 WSW	7.06"
0109000409	Narragansett Bay	RI-KN-17	East Greenwich 1.2 NNE	4.79"
0109000409	Narragansett Bay	RI-WS-31	Kingston 7.5 NNE	5.39"
0109000409	Narragansett Bay	RI-KN-19	Warwick 2.4 SW	4.07"
0109000409	Narragansett Bay	RI-KN-2	East Greenwich 2.3 ESE	7.92"
0109000409	Narragansett Bay	RI-NW-18	Jamestown 0.3 SSE	2.54"
0109000409	Narragansett Bay	RI-BR-5	Barrington 1.3 WNW	5.44"
0109000409	Narragansett Bay	RI-NW-4	Middletown 1.1 SW	2.85"
0109000409	Narragansett Bay	RI-NW-19	Portsmouth 2.3 S	3.62"
0109000409	Narragansett Bay	RI-NW-16	Portsmouth 1.3 S	3.28"
0109000409	Narragansett Bay	RI-NW-11	Tiverton 0.8 SSW	4.26"
0109000409	Narragansett Bay	RI-NW-20	Tiverton 1.0 SSW	4.36"
01090005	Pawcatuck-Wood			
0109000501	Wood River	RI-WS-1	Hope Valley 3.7 S	2.71"
0109000502	Upper Pawcatuck River	RI-WS-46	Westerly 3.4 E	2.52"
0109000502	Upper Pawcatuck River	RI-WS-42	Richmond 4.6 NNE	4.87"
0109000502	Upper Pawcatuck River	RI-WS-32	Kingston 6.9 NNW	3.50"
0109000502	Upper Pawcatuck River	RI-WS-37	Kingston 2.4 SW	3.12"

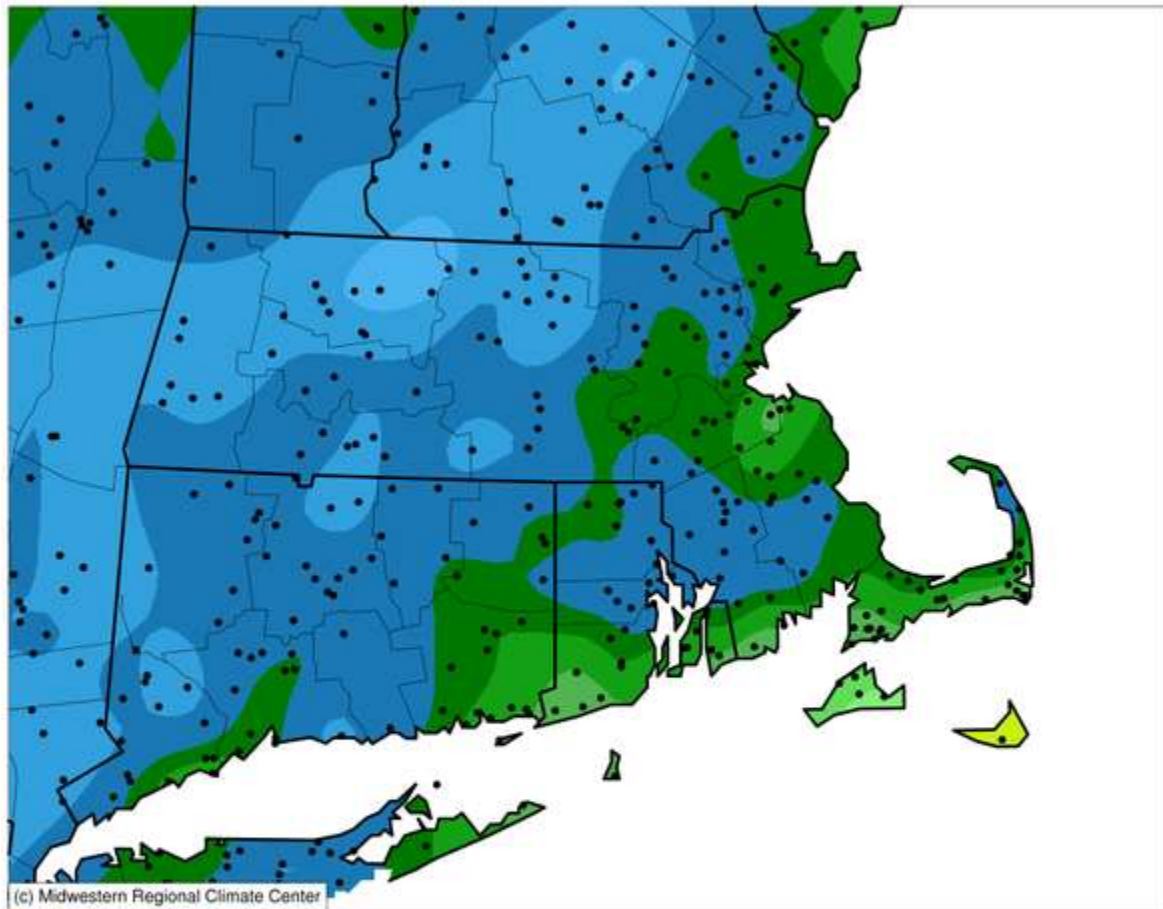
0109000502	Upper Pawcatuck River	RI-WS-40	West Warwick 7.7 S	5.68"
0109000503	Lower Pawcatuck River	CT-NL-40	Pawcatuck 1.8 SSE	3.03"
0109000503	Lower Pawcatuck River	RI-WS-47	Westerly 0.8 WNW	2.82"
0109000504	Frontal Block Island Sound	RI-WS-36	Charlestown 3.0 WSW	2.21"
01100001	Quinebaug			
0110000103	Fivemile River	CT-WN-6	Dayville 2.0 ENE	4.34"
0110000103	Fivemile River	CT-WN-4	East Killingly 1.3 SW	4.10"
0110000105	Mossup River	CT-WN-8	Moosup 1.7 NE	5.54"
0110000106	Pachaug River	CT-NL-21	Griswold 0.9 N	4.09"
01100002	Shetucket			
0110000201	Willimantic River	CT-TL-18	Hebron 5.3 NW	7.41"
0110000201	Willimantic River	CT-TL-28	South Coventry 1.2 NNW	5.41"
0110000201	Willimantic River	CT-TL-2	Staffordville 0.4 NNW	7.09"
0110000202	Natchaug River	CT-TL-27	Willington 2.7 SE	6.17"
0110000202	Natchaug River	CT-WN-12	Eastford 2.0 W	6.64"
0110000203	Shetucket River	CT-WN-10	South Windham 1.3 NNE	5.32"
0110000203	Shetucket River	CT-NL-10	Norwich 2.5 NNE	4.19"
0110000203	Shetucket River	CT-NL-28	Lisbon 2.0 SW	3.43"
01100003	Thames			
0110000302	Thames River-Frontal New London Harbor	CT-NL-5	Oakdale 2.6 WNW	4.63"
0110000302	Thames River-Frontal New London Harbor	CT-NL-6	New London 1.0 NNW	4.25"
0110000302	Thames River-Frontal New London Harbor	CT-NL-8	Uncasville-Oxoboxo Valley 1.6 ENE	5.43"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-38	Old Lyme 3.4 ESE	5.32"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-29	East Lyme 0.5 SW	5.14"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-32	Niantic 1.1 SW	4.65"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-22	Central Waterford 2.7 SSW	3.82"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-37	Mystic 1.6 W	3.78"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-19	Mystic 0.9 W	3.47"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-24	Stonington 1.4 NNW	3.28"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-18	Stonington 0.5 NNE	3.22"
01100004	Quinnipiac			
0110000401	Quinnipiac River	CT-NH-14	Prospect 1.9 ENE	5.43"
0110000401	Quinnipiac River	CT-HR-55	Southington 1.7 WNW	5.29"
0110000401	Quinnipiac River	CT-HR-23	Southington 0.9 SSE	5.15"
0110000401	Quinnipiac River	CT-HR-76	Southington 1.0 ENE	5.02"
0110000401	Quinnipiac River	CT-NH-44	Wallingford Center 1.9 WNW	4.82"
0110000401	Quinnipiac River	CT-NH-42	Wallingford Center 1.1 N	3.65"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-21	East Haven 3.5 SSW	4.16"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-41	Madison Center 1.6 W	9.35"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-50	Madison Center 4.1 N	5.74"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-MD-21	Killingworth 2.6 ESE	9.27"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-MD-5	Westbrook Center 1.1 N	6.52"

0110000402	Hammonasset River - Frontal Long Island Sound	CT-MD-11	Westbrook Center 1.5 NE	6.35"
0110000403	Mill River - Frontal Long Island Sound	CT-NH-16	Milford 1.8 E	3.43"
0110000403	Mill River - Frontal Long Island Sound	CT-NH-39	West Haven 0.8 W	4.71"
01100005	Housatonic			
0110000501	Headwaters Housatonic River	MA-BE-10	Pittsfield 2.0 NNW	8.62"
0110000501	Headwaters Housatonic River	MA-BE-5	Tyringham 1.5 WNW	8.91"
0110000503	Konkapot River-Housatonic River	CT-LT-24	Salisbury 3.8 NE	6.73"
0110000504	Macedonia Brook - Housatonic River	CT-LT-20	Warren 2.4 WNW	7.91"
0110000506	Candlewood Lake-Housatonic River	CT-LT-22	New Milford 5.3 SSW	8.16"
0110000508	Still River - Housatonic River	CT-FR-43	Bethel 0.5 E	6.81"
0110000508	Still River - Housatonic River	CT-FR-41	Bethel 3.5 NNE	7.99"
0110000508	Still River - Housatonic River	CT-FR-9	Brookfield 3.3 SSE	8.29"
0110000509	Pomperaug River	CT-LT-16	Woodbury Center 1.9 WNW	7.92"
0110000510	Eightmile Brook - Housatonic River	CT-FR-44	Newtown 4.3 E	9.79"
0110000512	Outlet Naugatuck River	CT-LT-14	Watertown 0.5 S	6.73"
0110000512	Outlet Naugatuck River	CT-NH-47	Seymour 1.5 NE	5.25"
0110000512	Outlet Naugatuck River	CT-NH-45	Naugatuck 1.7 NNE	5.44"
0110000512	Outlet Naugatuck River	CT-NH-22	Prospect 0.5 SW	5.53"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-42	Monroe 0.1 SE	10.82"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-23	Shelton 1.3 W	7.58"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-46	Stratford 0.2 ESE	3.44"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-55	Shelton 2.7 SSE	5.00"
01100006	Saugatuck			
0110000601	Saugatuck River - Frontal Long Island Sound	CT-FR-58	Ridgefield 3.6 N	7.70"
0110000601	Saugatuck River - Frontal Long Island Sound	CT-FR-31	Newtown 4.6 SSW	8.13"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-29	Ridgefield 1.9 SSE	8.46"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-3	New Canaan 1.9 ENE	5.16"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-25	Norwalk 2.9 NNW	5.08"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-20	Westport 2.5 ENE	3.04"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-32	Monroe 0.8 W	10.18"
0110000604	Mianus River-Rippowam River	CT-FR-12	Stamford 3.3 NW	6.73"
0110000604	Mianus River-Rippowam River	CT-FR-39	Stamford 4.2 S	6.39"
0110000604	Mianus River-Rippowam River	CT-FR-50	Darien 2.8 NW	5.22"
02020003	Hudson-Hoosic			
0202000306	Upper Hoosic River	MA-BE-18	North Adams 3.0 WNW	8.17"
02030203	Long Island Sound			
0203020300	Long Island Sound	NY-SF-114	Fishers Island 0.5 NE	2.91"

The dark blue color is over 5", the next lighter shade of blue is over 7.5". The palest of green, around Marthas Vineyard and Nantucket, is less than 1".

Tremendous clarity added by all of the dots, most of them from our CoCoRaHS network, stations that measure and report every day in the month, and noted by the Regional Climate Center.

Accumulated Precipitation (in)
August 01, 2018 to August 31, 2018



0.01 0.1 0.5 1 1.5 2 3 4 5 7.5 10 12.5 15

Stations from the following networks used: COOP, FAA, CoCoRaHS,

Midwestern Regional Climate Center

cli-MATE: MRCC Application Tools Environment

Generated at: 9/6/2018 9:24:01 AM CDT

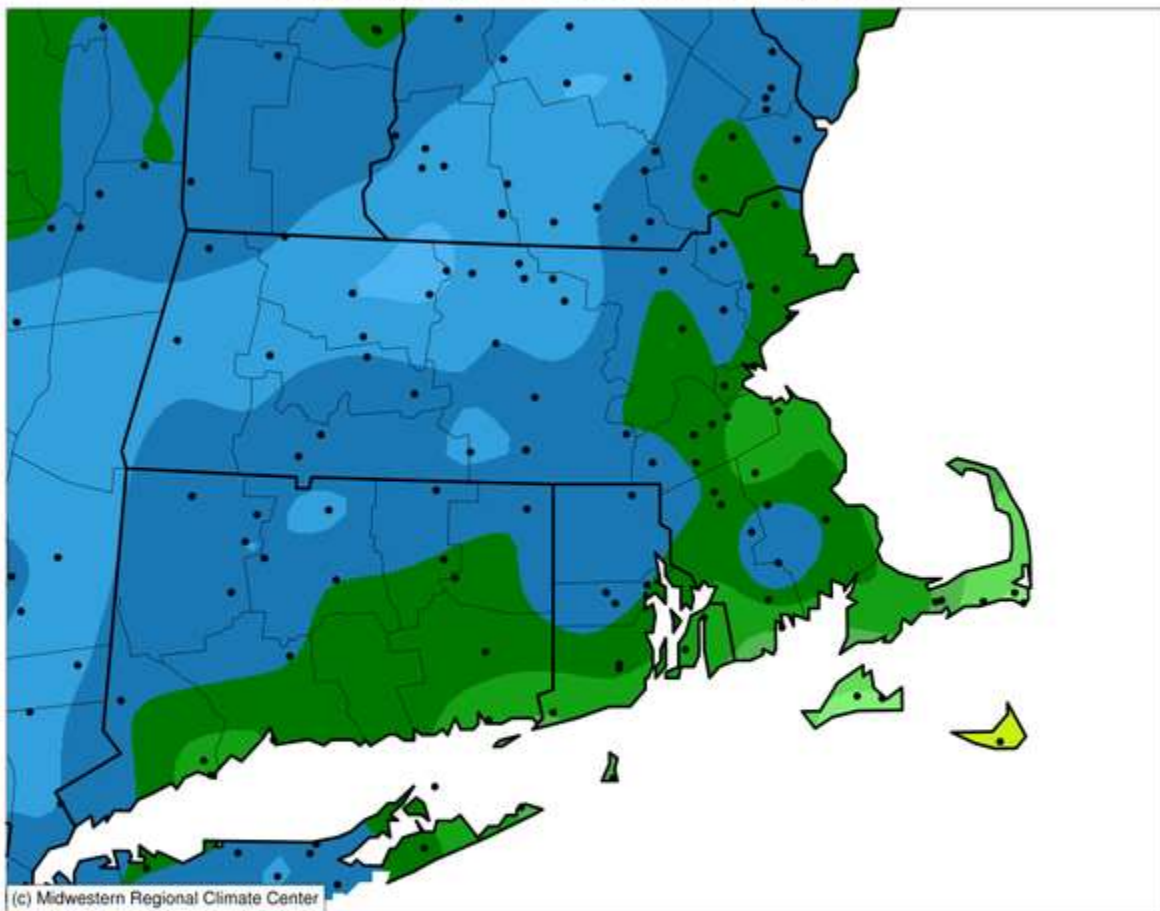
Continue to measure and report every day. Eventually, someone in the Climate Center notices and the dots appear. Think ahead: These maps can depict snowfall too, and dots appear if you report snow fall every day.

What if we took “CoCoRaHS” out of the map? What would it look like?

Here it is! FAA (ASOS) and NWS CoOp observers only for our area. Scroll back to see the other map.

Accumulated Precipitation (in)

August 01, 2018 to August 31, 2018



0.01 0.1 0.5 1 1.5 2 3 4 5 7.5 10 12.5 15

Stations from the following networks used: COOP, FAA,
Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 9/6/2018 9:25:48 AM CDT

“We do not live at the airport”

The monthly totals at the airports ranged from less than 1” on Nantucket to over 10” in Fitchburg MA. But do compare your station’s total to a nearby airport.

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

Location	Station ID	August 2018 Precip	Aug departure from normal	Jun-Jul-Aug Precip	3 month departure from normal	Mar-Aug Precip	6 month departure from normal	Sep-Aug Precip	12 month departure from normal
White Plains NY	HPN	7.93"	3.77"	15.67"	3.55"	26.48"	1.32"	43.36"	-5.99"
Danbury CT	DXR	5.02"	0.48"	16.94"	3.34"	26.53"	0.15"	44.50"	-5.37"
New Haven CT	HVN	3.67"	-0.28"	10.17"	-1.81"	20.59"	-4.29"	39.42"	-7.69"
Meriden CT	MMK	5.26"	1.31"	12.63"	0.65"	23.08"	-1.80"	45.51"	-1.60"
Hartford CT	HFD	4.52"	0.86"	14.87"	3.22"	24.77"	1.78"	46.10"	2.50"
Willimantic CT	IJD	3.63"	-0.40"	8.82"	-3.35"	19.33"	-5.68"	40.52"	-7.90"
New London CT	GON	3.23"	-0.93"	10.38"	-1.66"	20.56"	-3.90"	35.21"	-11.28"
Westerly RI	WST	2.78"	-1.37"	7.05"	-4.57"	16.83"	-8.05"	42.30"	-5.09"
Newport RI	UUU	3.94"	0.24"	6.30"	-4.67"	18.06"	-5.50"	42.49"	-3.84"
New Bedford MA	EWB	3.40"	-0.67"	6.81"	-4.53"	19.02"	-5.39"	45.89"	-2.47"
Hyannis MA	HYA	2.80"	-0.83"	6.92"	-3.50"	18.27"	-5.13"	47.25"	-0.44"
Nantucket MA	ACK	0.47"	-3.44"	5.29"	-5.20"	20.66"	-1.24"	52.16"	7.74"
Marthas Vineyard MA	MVY	1.26"	-2.72"	6.18"	-4.03"	13.62"	-8.32"	41.14"	-4.02"
Taunton MA	TAN	4.58"	0.50"	9.74"	-1.72"	24.49"	-0.28"	50.00"	0.26"
Plymouth MA	PYM	5.15"	1.36"	10.41"	-0.82"	23.81"	-1.00"	49.88"	0.73"
Norwood MA	OWD	5.65"	1.78"	11.09"	-0.51"	24.54"	0.62"	46.76"	-0.30"
Bedford MA	BED	3.17"	-0.48"	10.66"	-0.63"	21.37"	-2.11"	37.54"	-8.17"
Beverly MA	BVY	4.79"	1.41"	11.70"	0.82"	23.35"	-0.26"	39.57"	-6.61"
Lawrence MA	LWM	5.21"	1.79"	11.71"	0.55"	19.12"	-3.74"	35.60"	-7.56"
Fitchburg MA	FIT	10.41"	6.61"	18.64"	6.51"	28.53"	3.84"	51.94"	4.80"
Westfield MA	BAF	3.75"	-0.41"	15.78"	3.18"	24.96"	-0.55"	45.94"	-2.45"
North Adams MA	AQW	7.18"	2.99"	15.47"	1.77"	22.05"	-3.14"	37.58"	-9.03"

August 2018 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 a record 291 Daily Reports per day. Many numbers close to 300 Daily Reports per day. A strong finish in the last week of the month with many zeros to report.

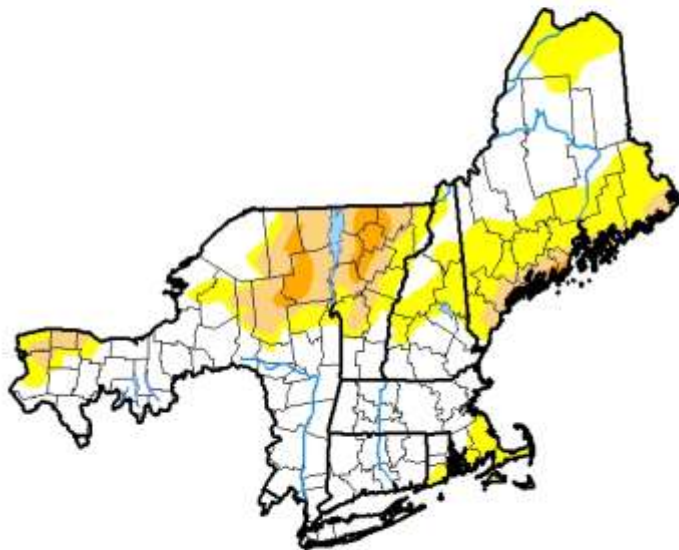
August 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 289	2 299	3 298	4 292
5 294	6 287	7 289	8 297	9 299	10 291	11 284
12 282	13 283	14 305	15 303	16 288	17 288	18 285
19 279	20 284	21 288	22 298	23 299	24 285	25 290
26 286	27 290	28 295	29 296	30 295	31 296	

From the Drought Monitor.
Every drop counts, and zeros do too!

U.S. Drought Monitor Northeast RFC

September 4, 2018
(Released Thursday, Sep. 6, 2018)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	59.06	25.67	11.75	3.53	0.00	0.00
Last Week 08-29-2018	61.44	24.40	14.16	0.00	0.00	0.00
3 Months Ago 06-05-2018	86.69	13.31	0.00	0.00	0.00	0.00
Start of Calendar Year 01-02-2018	88.74	11.26	0.00	0.00	0.00	0.00
Start of Water Year 09-26-2017	70.12	22.15	7.74	0.00	0.00	0.00
One Year Ago 09-05-2017	74.89	16.03	9.08	0.00	0.00	0.00

Intensity:

- 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. See accompanying text summary for forecast statements.

Author:

David Miskus
NOAA/NWS/NCEP/CPC



<http://droughtmonitor.unl.edu/>

From the Drought Monitor, a shoutout to CoCoRaHS. Your reports of precipitation AND Condition Monitoring Reports are a valuable component to this weekly determination of Drought across our continent.

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

Wrap up

The next WxTalk Webinar is scheduled for September 20th, the topic is **Graupel and Hail -- What they are, how they form, and how they fall.**

If you do not know what “Graupel” is, or find yourself getting hail and graupel mixed up when winter weather arrives, this webinar would be a good place to find out more. All of these [WxTalk Webinars](#) are archived, so take the time and learn something you never knew about.

The end of the month ends the Water Year and [Water Year Summaries](#) will appear afterwards. Anytime in September or October is a good time to look over your station reporting and fill in missing reports where you can accurately do so.

Starting October 1, not only a new Water Year begins, but also a new snow fall reporting season begins. We have had snow in October before. Please take the opportunity to report snow fall and snow depth with every report. When the snowflakes do begin to fall and pile up, slow down and report the accurate amount. We are the “Rulers of the Snow”

Use the website to submit a Daily Report and submit zero for precipitation, a zero is placed for new snow, automatically. Mobile app users, have no such feature, and must go the 2nd screen on the app to report snow amounts.

When there is nothing but rain to report, you are encouraged to report zero for new snow. Starting October 1, we will be counting new snow and snow depth reports, at the station level.

Snow measuring is not to be a chore and not to be a bore. If the last snow season left you sore, there are other ideas and tools in store. You are under no obligation to buy or build additional tools. If you are inclined, ideas and tools range from a 2nd gauge, 2nd outer cylinder, weigh scale for weighing snow, to do-it-yourself project of a PVC snow tube for cutting snow cores or Inner Tube Support so that you do not need 3 or 4 hands to pour from the outer cylinder into the funnel on top of the inner cylinder.

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