Community Collaborative Rain, Hail & Snow Network



November 2018

We started the new Water Year with an eventful month. Noteworthy with all of the rain, and a little bit of snow in New Hampshire, are hail reports in October. Add on Snow Depth, Condition Monitoring, Significant Weather, and more Comments, it is encouraging to see so many participate in the many dimensions that our network has.

Sounding like a broken record, single month reporting records continue to be broken. October had nearly 9500 Daily reports, breaking our total daily reports record from last month, assisted by another single month reporting record from Massachusetts.

Within this month's Newsletter: We lead off with The Grand List Observers. Our "Observer of the Month" takes us to the coastal plain of Plymouth County.

If you want to participate in this "Observer of the Month" segment, please let us know.

Gauge Catch is explained, Twitter and Email, and for those that can type, Comments and Condition Monitoring Reports.

Let's get into it.

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The "Grand" List

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

2000 Daily Reports

CT-HR-15 Southington 3.0 E

1000 Daily Reports

CT-FR-29 Ridgefield 1.3 SSE

Observer of the Month – MA-PL-47

I'm MA-PL-47, Plymouth 1.1 NNW, located several feet from Route 3A in North Plymouth, Mass.

I first learned about CoCoRaHS about 10 years ago, a few weeks after Hurricane Dolly made landfall in Deep South Texas on July 23, 2008.

At the time, I was working at a newspaper there and had regular—and very pleasant—contact with the meteorologists at the National Weather Service in Brownsville, Texas. Weather is always news: too dry/wet, too hot/cold, too windy. And always the weather "records" are newsworthy.

The folks at the NWS-Brownsville are a wealth of information, and they were there, 24/7/365, to give my newspaper terrific information. A shout-out to Geoff Bogorad, the CoCoRaHS coordinator for Cameron County, Texas, and especially to Warning Coordinator Meteorologist Barry Goldsmith, who with his wife Michelle, are personal friends.



Following Dolly, and while writing a story about the Brownsville weather service office, Geoff told me about this network of volunteer observers.

My house at that time didn't have a suitable location to install my own rain gauge, but my friend Sally did, and she signed up to report to CoCoRaHS. She's TX-CMR-96, and she's been reporting ever since.

I'm now retired from newspapers, and I find myself in a good location for a rain gauge. After explaining CoCoRaHS to a neighbor, he surprised me

with my own rain gauge. (He intends to give rain gauges to friends and family, as Christmas presents this year. Wow!)

I installed my rain gauge in July. Checking it is easy and reporting via the CoCoRaHS app is a cinch. I hope someday we can post photos in the



"comments" section. For example, there was a rainbow the other evening.

I enjoy checking the daily reports from the early risers who send their data at 5 a.m.—or earlier— comparing my data to the other observers' reports and reading their comments. This is a small geographic area, but rainfall varies so much within just a few miles.

CoCoRaHS reporting complements my other interests. It's a logical extension of gardening and backyard birdwatching: if it doesn't rain, I need to water the garden and fill the birdbath.

The birds give me hints about the weather: they tell me when a storm is approaching. I noticed last winter that the birds crowded the feeders and would "pig-out" before a snowstorm. And then there's watching for the first crocuses in the spring, for the male goldfinches to become yellow, and—of course—the spring's first robin.



The birds apparently don't need the NWS forecast. They seem to instinctively know. But I enjoy making my small contribution to the precipitation database because "every drop DOES count."

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<u>Gauge Catch</u>

On rainy days, measuring and reporting is straightforward. Measure what fell in the gauge and report that amount in the first field on a reporting form.

Snow falls, or a mix of snow and rain, and there are more elements to measure and report. Where to begin? Begin with what fell in the gauge, called the "Gauge Catch". If you have no time, no interest, it's too cold to do anything else, focus on the Gauge Catch.

Gauge Catch is reported in the 1st value. Aware of the enthusiasm to measure and report new snow depth the results in reporting new snow depth first. Report the melted contents of your Gauge Catch 1st. New snow depth is the 2nd reported value. Please avoid making this common mistake during the season of snowfall.

7:00 AM ▼ *Observation Time @

*Rain and Melted Snow to the nearest hundredth inch that has fallen in the gauge during the past 24 hours, or T for trace, or NA for unknown.

Find the liquid content of what fell in the gauge, the outer cylinder. Two ways of doing that.

- a) The simplest approach is by adding a measured quantity of hot tap water, pour the hot tap water into the outer cylinder, pour and measure the contents of the outer cylinder, subtract the measured amount of hot tap water.
- b) Another approach involves weighing the snow. Know the weight of the outer cylinder, weigh the outer cylinder with the precipitation within, subtract the weight of the outer cylinder, and determine the amount of precipitation based upon 201g = 1" of precipitation.

Unless you are certain that the next round of precipitation will be all rain, do remove the funnel and the inner cylinder and keep indoors. When warmer days return, so can the funnel and inner cylinder.

<u>Twitter</u>

Each one of our three states have their own Twitter account.

@MA_CoCoRaHS

@RI CoCoRaHS

@CT_CoCoRaHS



To inform, to highlight your reporting, to recruit, to be proud of what your volunteer efforts, like or retweet what someone else has posted, is what we intend to use Twitter for. Joe will be submitting tweets for MA & RI and Matt does the same for CT.

Some of you have Twitter accounts of your own and use them to point out unique aspects of your locale, and some eye-opening climatological statistics as well. We respect your privacy and do not intend to point out to others that you are a CoCoRaHS observer too, even as you are showing a picture of your 4" diameter gauge.

Become one of our followers on Twitter, or just browse by the web site. If you want these accounts to follow your Twitter account, let us know by direct message or email.

<u>Spam Filters on Email</u>

More for the newer observers than the observers who have been for years....

.... Check your Spam Filter on your Email box that messages from Joe or Matt or from CoCoRaHS headquarters in Colorado, colostate.edu, are being treated as Spam and not going directly into your InBox with email.

We use email to communicate with you and accompany messages with attachments. By doing so, we want to make sure that our messages are reaching your InBox, not your Spam Filter.

Thanks!

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Comments (Observation Notes)

Collectively, more of you seem to find more to type about in the winter months, than in the summer months. So while you have interest in typing, continue to clarify and verify your reported amounts.

Rain changed to snow? And back to rain? Say so in a Comment.

Repeating your reported amounts does help reduce the risk of a reporting error.

Condition Monitoring Reports

From Nolan's recent message: Continue to make Condition Monitoring Reports during the winter months.

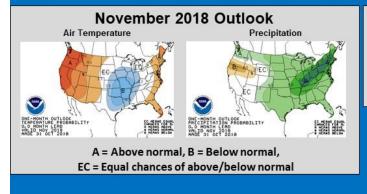
One report a week is all that we seek. It has taken awhile to get used to two aspects of making these Reports.

- 1) The end customer at the US Drought Monitor is not looking for a repeat of precipitation totals. Instead, the focus is on what the precipitation has done to the land, the surrounding area. How has the lack of, or surplus of, precipitation affected the area? What is occurring in your locale?
- 2) Finding a quiet moment on a Sunday to make the report, after being out and about on Saturday.

Detail and Summary for October 2018

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

October 2018 Regional Precipitation Summary									
Location	Station ID	Oct 2018 Precip	Oct departure from normal	Aug-Sep- Oct Precip	3 month departure from normal	May-Oct Precip	6 month departure from normal	Nov-Oct Precip	12 month departure from normal
Pittsfield MA	PSF	2.38"	-2.33"	17.40"	4.64"	26.21"	0.59"	44.50"	-0.88
Bridgeport C T	BDR	6.24"	2.60"	17.78"	6.70"	28.68"	6.54"	49.97"	7.04
Hartford CT	BDL	4.02"	-0.35"	19.45"	7.27"	32.35"	7.29"	52.99"	7.14
Worcester MA	ORH	4.45"	-0.23"	17.60"	5.28"	29.07"	4.14"	52.72"	4.65
Providence RI	PVD	6.05"	2.12"	19.18"	7.73"	25.52"	3.59"	53.66"	6.48
Boston MA	BOS	3.78"	-0.16"	13.55"	2.82"	22.96"	1.63"	45.63"	1.86



October Highlights Remnant rains from Hurricane Michael, tornadoes, hail, coastal flooding, and a high ratio of rainy days.

Our two largest reporting days were in the beginning of the month. The rain event for the 3rd, and Hurricane Michael blowing by our area for the 12th. Hail Reports in the afternoon, along with 2 tornadoes in North Providence RI and Norton MA on the 23rd. Our first Nor'easter accompanied by coastal flooding with the remnants of the Pacific storm, Willa, on the 27th. All of these previous events noted and appreciated by your Significant Weather Reports.

Even a tornado on Fishers Island on the 29th. And 0.2" of snow in Rindge NH on the 27th, a foreshadowing of the season to come.

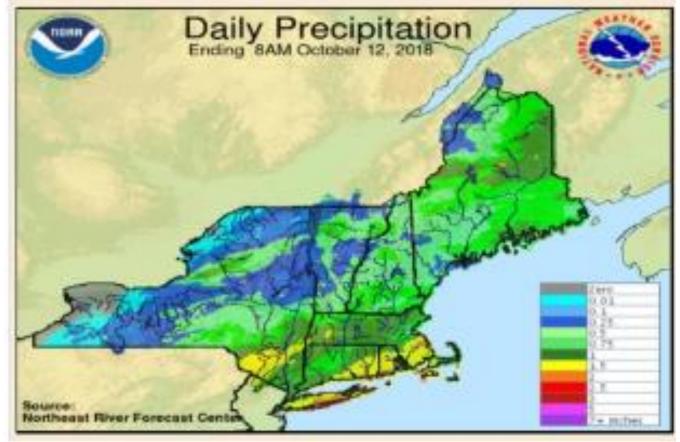
Take in the next section with appreciation of your efforts.

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From your reports for October 2018

- Observers reporting 384
- Reported all 31 days 178
- Completed by Multi-Day Reports 61
 - Missing 1 or 2 reports 52
 - Daily Reports 9487
 - Zero Reports 4030
 - Non-Zero Reports 5457
 - Daily Comments 1791
 - Multi-Day Reports 277
 - Condition Monitoring Reports 37
 - Significant Weather Reports 21
 - Hail Reports 5
 - Snowfall Reports 4562
 - Snow Depth Reports 2570

Highest Daily Report 4.21" from Nantucket MA (MA-NT-4) reported on 10/12



After the dynamics and wide variability of August and September, October was a little less so. Many stations with more 4" of precip, which keeps the drought away.

Take in another long list over nearly 240 stations.

For a viewing explanation on Watersheds, the CoCoRaHS animated video is on <u>YouTube</u>.

Watershed	Watershed Name	Station Number	Station Name	Precip
01070004	Nashua	Number		Precip
0107000401	North Nashua River	MA-WR-44	Westminster 0.6 WSW	4.74"
0107000401	North Nashua River	MA-WR-8	Fitchburg 1.6 SSW	3.98"
0107000401	North Nashua River	MA-WR-22	Fitchburg 2.0 NNE	5.07"
0107000402	Headwaters Nashua River	MA-WR-64	Sterling 3.7 WNW	4.24"
0107000402	Headwaters Nashua River	MA-WR-56	Sterling 4.3 NW	4.82"
0107000402	Headwaters Nashua River	MA-MD-25	Ayer 0.1 SW	3.49"
0107000403	Squannacook River	MA-MD-47	West Townsend 0.5 W	4.37"
01070005	Concord			
0107000501	Sudbury River	MA-MD-89	Sudbury 3.6 W	4.94''
0107000501	Sudbury River	MA-MD-88	Wayland 2.1 SSE	4.12"
0107000502	Concord River	MA-WR-30	Shrewsbury 1.6 NNE	4.85''
0107000502	Concord River	MA-WR-28	Berlin 1.3 WSW	5.25"
0107000502	Concord River	MA-WR-42	Northborough 2.3 N	4.59''
0107000502	Concord River	MA-MD-115	Hudson 1.4 NW	4.47"
0107000502	Concord River	MA-MD-12	Acton 1.3 SW	4.58''
0107000502	Concord River	MA-MD-51	Maynard 0.7 ESE	4.82"
0107000502	Concord River	MA-MD-62	Chelmsford 1.2 E	4.40''
01070006	Merrimack River			
0107000612	Stony Brook - Merrimack River	MA-MD-104	Littleton 2.8 NNW	3.94''
0107000612	Stony Brook - Merrimack River	MA-MD-105	Littleton 0.9 WSW	4.66''
0107000612	Stony Brook - Merrimack River	MA-MD-93	Westford 1.5 SSW	4.05''
0107000613	Shawsheen River	MA-MD-52	Lexington 0.6 SW	3.87"
0107000613	Shawsheen River	MA-MD-96	Lexington 0.3 NE	4.28''
0107000613	Shawsheen River	MA-ES-48	Andover 0.6 E	4.54''
0107000614	Powwow River - Merrimack River	MA-ES-20	Haverhill 0.7 N	4.48"
0107000614	Powwow River - Merrimack River	MA-ES-4	Groveland 0.5 WSW	4.85"
01080201	Middle Connecticut			
0108020106	Manhan River - Connecticut River	MA-HS-2	Westhampton 1.8 SW	5.90"

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0108020106	Manhan River - Connecticut River	MA-HS-8	Williamsburg 1.2 WSW	4.41''
0108020106	Manhan River - Connecticut River	MA-HS-26	Easthampton 0.5 SW	4.85"
0108020106	Manhan River - Connecticut River	MA-HS-12	Northampton 0.4 S	4.84"
0108020106	Manhan River - Connecticut River	MA-HS-21	Northampton 0.6 ESE	4.61"
0108020106	Manhan River - Connecticut River	MA-FR-12	Sunderland 1.3 SE	4.71"
0108020107	Batchelor Brook - Connecticut River	MA-HD-23	Springfield 2.5 WNW	5.67"
01080202	Miller			
0108020201	Upper Millers River	NH-CH-20	Rindge 3.2 ESE	4.12"
0108020202	Lower Millers River	MA-WR-40	Gardner 1.4 SSW	4.75"
01080203	Deerfield			
0108020305	Lower Deerfield River	MA-FR-17	Buckland 1.8 ESE	4.04"
0108020305	Lower Deerfield River	MA-FR-13	Conway 2.9 NW	4.63''
0108020305	Lower Deerfield River	MA-FR-10	Conway 0.9 SW	4.28''
01080204	Chicopee			
0108020402	Ware River	MA-WR-54	Barre 1.4 NNE	4.57''
0108020404	Chicopee River	MA-HD-25	Ludlow 2.3 SW	6.43''
01080205	Lower Connecticut			
0108020501	Mill River-Connecticut River	CT-HR-57	Suffield Depot 3.3 NNE	5.21"
0108020502	Scantic River	CT-TL-26	Broad Brook 2.6 ESE	3.71"
0108020502	Scantic River	MA-HD-20	Wilbraham 3.7 SSW	5.82"
0108020502	Scantic River	CT-TL-15	Central Somers 0.3 N	3.85"
0108020503	Park River	CT-HR-39	Farmington 1.6 SW	5.89"
0108020503	Park River	CT-HR-49	West Hartford 1.1 W	4.44''
0108020503	Park River	CT-HR-58	West Hartford 2.1 NNE	5.28"
0108020503	Park River	CT-HR-11	West Hartford 2.7 SSE	4.79''
0108020503	Park River	CT-HR-53	Hartford 2.0 SW	5.40''
0108020504	Hockanum River	CT-TL-19	Vernon 2.8 N	4.24''
0108020505	Roaring Brook - Connecticut River	CT-HR-6	Wethersfield 1.2 WSW	5.68"
0108020505	Roaring Brook - Connecticut River	CT-HR-45	Wethersfield 1.9 SSW	6.22''
0108020505	Roaring Brook - Connecticut River	CT-HR-22	East Hartford 1.3 E	4.96''
0108020506	Mattabesset River	CT-HR-15	Southington 3.0 E	5.25"
0108020506	Mattabesset River	CT-HR-80	Kensington 0.7 WSW	5.16"
0108020506	Mattabesset River	CT-MD-25	Middlefield 0.6 SE	4.53''
0108020507	Higganum Creek - Connecticut River	CT-MD-2	Portland 0.9 S	4.62"
0108020507	Higganum Creek - Connecticut River	CT-MD-23	Higganum 0.7 N	4.40''
0108020509	Eightmile River - Connecticut River	CT-MD-19	Ivoryton 0.9 WSW	5.02"
01080206	Westfield			
0108020601	Headwaters Westfield River	MA-HS-7	Plainfield 2.2 SW	4.30"
0108020601	Headwaters Westfield River	MA-HS-14	Plainfield 2.4 ESE	4.49''
01080207	Farmington			
0108020701	Still River	CT-LT-15	Colebrook 1.0 NE	5.02"

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D108020702 West Branch Farmington River CT-LT-18 New Hartford Center 3.2 SW 5.43 D108020704 Headwaters Farmington River CT-HT-9 New Hartford Center 3.2 SW 4.82 D108020704 Headwaters Farmington River CT-HR-70 Canton 1.5 W 5.19 D108020705 Salmon Brook CT-HR-70 Bristol 2.7 NNE 5.55 D108020705 Salmon Brook CT-HR-71 Bristol 2.7 NNE 5.55 D108020705 Salmon Brook CT-HR-80 North Granby 0.7 N 5.37 D10900010 Charles Orthal Atlantic Ocean MA-ES-19 West Newbury 1.8 SSE 5.31 D109000102 Ipswich River MA-MD-85 Wilmington 1.5 NE 4.43 D109000102 Ipswich River MA-MD-45 Wilmington 1.5 NE 4.43 D109000102 Ipswich River MA-ES-12 Boxford 2.4 S 4.28 D109000102 Ipswich River MA-ES-24 NewHore 0.8 ISE 4.65 D109000102 Ipswich River Frontal Atlantic Ocean MA-ES-12 Boxford 2.4 S 4.28 <th></th> <th></th> <th></th> <th></th> <th></th>					
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0109000101 Plum Island Sound - Frontal Atlantic Ocean MA-ES-24 Newburyport 0.8 SW 4.77 0109000102 Ipswich River MA-MD-85 Willmington 2.2 WNW 4.54 0109000102 Ipswich River MA-MD-125 Tewksbury 3.6 SSE 4.43 0109000102 Ipswich River MA-MD-45 Willmington 1.5 NE 4.49 0109000102 Ipswich River MA-ES-12 Boxford 2.4 S 4.28 0109000102 Ipswich River MA-ES-12 Boxford 2.4 S 4.28 0109000103 Essex River - Frontal Atlantic Ocean MA-ES-41 Danvers 0.8 ESE 4.55 0109000104 Saugus River - Frontal Broad Sound MA-ES-45 Nahant 0.4 N 3.87 0109000105 Mystic River - Frontal Broad Sound MA-ES-8 Marblehead 0.8 SW 4.21 0109000105 Mystic River - Frontal Boston Harbor MA-MD-7 Winchester 0.7 SE 3.86 0109000105 Mystic River - Frontal Boston Harbor MA-MD-44 Medford 1.2 W 4.55 0109000105 Mystic River - Frontal Boston Harbor MA-MD-41 Medford 2.3 NNW	01090001	Charles			
0109000102 Ipswich River MA-MD-85 Wilmington 2.2 WNW 4.54 0109000102 Ipswich River MA-MD-125 Tewksbury 3.6 SSE 4.43 0109000102 Ipswich River MA-MD-45 Wilmington 1.5 NE 4.49 0109000102 Ipswich River MA-ES-12 Boxford 2.4 S 4.28 0109000103 Essex River - Frontal Atlantic Ocean MA-ES-41 Danvers 0.8 ESE 4.65 0109000104 Saugus River - Frontal Broad Sound MA-MD-81 Wakefield 0.5 NNW 4.42 0109000104 Saugus River - Frontal Broad Sound MA-ES-45 Nahant 0.4 N 3.87 0109000105 Mystic River - Frontal Boston Harbor MA-MD-67 Lexington 2.3 SE 3.66 0109000105 Mystic River - Frontal Boston Harbor MA-MD-14 Medford 1.2 W 4.56 0109000105 Mystic River - Frontal Boston Harbor MA-MD-11 Cambridge 0.9 NNW 4.74 0109000105 Mystic River - Frontal Boston Harbor MA-MD-10 Chelsea 0.8 N 4.67 0109000105 Mystic River - Frontal Boston Harbor MA-MD-10 Chels	0109000101	Plum Island Sound - Frontal Atlantic Ocean	MA-ES-19	West Newbury 1.8 SSE	5.31"
0109000102 Ipswich River MA-MD-125 Tewksbury 3.6 SSE 4.43 0109000102 Ipswich River MA-MD-45 Wilmington 1.5 NE 4.49 0109000102 Ipswich River MA-ES-12 Boxford 2.4 S 4.28 0109000103 Essex River - Frontal Atlantic Ocean MA-ES-21 Darvers 0.8 ESE 4.55 0109000104 Saugus River - Frontal Broad Sound MA-MD-81 Wakefield 0.5 NNW 4.42 0109000104 Saugus River - Frontal Broad Sound MA-ES-45 Mahant 0.4 N 3.87 0109000105 Mystic River - Frontal Boston Harbor MA-MD-67 Lexington 2.3 SE 3.66 0109000105 Mystic River - Frontal Boston Harbor MA-MD-74 Winchester 0.7 SE 4.42 0109000105 Mystic River - Frontal Boston Harbor MA-MD-44 Medford 1.2 W 4.56 0109000105 Mystic River - Frontal Boston Harbor MA-MD-11 Cambridge 0.9 NNW 4.42 0109000105 Mystic River - Frontal Boston Harbor MA-MD-11 Cambridge 0.9 NNW 4.50 0109000106 Upper Charles River MA-MD-106	0109000101	Plum Island Sound - Frontal Atlantic Ocean	MA-ES-24	Newburyport 0.8 SW	4.77"
0109000102 Ipswich River MA-MD-45 Wilmington 1.5 NE 4.49 0109000102 Ipswich River MA-ES-12 Boxford 2.4 S 4.28 0109000102 Ipswich River MA-ES-2 Beverly 2.8 NW 3.99 0109000104 Saugus River - Frontal Atlantic Ocean MA-ES-41 Danvers 0.8 ESE 4.65 0109000104 Saugus River - Frontal Broad Sound MA-MD-81 Wakefield 0.5 NNW 4.42 0109000104 Saugus River - Frontal Broad Sound MA-ES-45 Nahant 0.4 N 3.87 0109000105 Mystic River - Frontal Boston Harbor MA-MD-67 Lexington 2.3 SE 3.86 0109000105 Mystic River - Frontal Boston Harbor MA-MD-71 Winchester 0.7 SE 4.42 0109000105 Mystic River - Frontal Boston Harbor MA-MD-74 Medford 1.2 W 4.56 0109000105 Mystic River - Frontal Boston Harbor MA-MD-71 Chelsea 0.8 N 4.67 0109000105 Mystic River - Frontal Boston Harbor MA-MD-106 Holliston 2.4 W 5.10 0109000106 Upper Charles River MA-MD-106 Holl	0109000102	Ipswich River	MA-MD-85	Wilmington 2.2 WNW	4.54"
0109000102 Ipswich River MA-ES-12 Boxford 2.4 S 4.28 0109000102 Ipswich River MA-ES-2 Beverly 2.8 NW 3.99 0109000103 Essex River - Frontal Atlantic Ocean MA-ES-41 Danvers 0.8 ESE 4.65 0109000104 Saugus River - Frontal Broad Sound MA-ES-45 Nahant 0.4 N 3.37 0109000104 Saugus River - Frontal Boston Harbor MA-ES-45 Nahant 0.4 N 3.37 0109000105 Mystic River - Frontal Boston Harbor MA-MD-67 Lexington 2.3 SE 3.86 0109000105 Mystic River - Frontal Boston Harbor MA-MD-74 Winchester 0.7 SE 4.42 0109000105 Mystic River - Frontal Boston Harbor MA-MD-44 Medford 1.2 W 4.56 0109000105 Mystic River - Frontal Boston Harbor MA-MD-11 Cambridge 0.9 NNW 4.74 0109000106 Upper Charles River MA-MD-100 Holliston 2.4 W 5.10 010900106 Upper Charles River MA-MD-104 Holliston 2.4 W 5.10 0109000106 Upper Charles River - Frontal Boston Harbor MA-MD-11	0109000102	Ipswich River	MA-MD-125	Tewksbury 3.6 SSE	4.43"
D109000102Ipswich RiverMA-ES-2Beverly 2.8 NW3.990109000103Essex River - Frontal Atlantic OceanMA-ES-41Danvers 0.8 ESE4.650109000104Saugus River - Frontal Broad SoundMA-MD-81Wakefield 0.5 NNW4.420109000104Saugus River - Frontal Broad SoundMA-ES-45Nahant 0.4 N3.870109000105Mystic River - Frontal Broad SoundMA-ES-8Marblehead 0.8 SW4.210109000105Mystic River - Frontal Boston HarborMA-MD-67Lexington 2.3 SE3.860109000105Mystic River - Frontal Boston HarborMA-MD-74Winchester 0.7 SE4.420109000105Mystic River - Frontal Boston HarborMA-MD-44Medford 1.2 W4.560109000105Mystic River - Frontal Boston HarborMA-MD-11Cambridge 0.9 NNW4.740109000105Mystic River - Frontal Boston HarborMA-MD-10Chelsea 0.8 N4.670109000105Mystic River - Frontal Boston HarborMA-MD-10Holliston 2.4 W5.100109000106Upper Charles RiverMA-MD-10Holliston 0.8 S5.260109000106Upper Charles River - Frontal Boston HarborMA-MD-11Newton 2.2 NNW3.300109000106Upper Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW4.310109000107Lower Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW4.320109000107Lower Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW4.300109000107Lo	0109000102	Ipswich River	MA-MD-45	Wilmington 1.5 NE	4.49"
0109000103Essex River - Frontal Atlantic OceanMA-ES-41Darvers 0.8 ESE4.650109000104Saugus River - Frontal Broad SoundMA-MD-81Wakefield 0.5 NNW4.420109000104Saugus River - Frontal Broad SoundMA-ES-45Nahant 0.4 N3.870109000105Mystic River - Frontal Boston HarborMA-MD-67Lexington 2.3 SE3.860109000105Mystic River - Frontal Boston HarborMA-MD-67Lexington 2.3 SE3.860109000105Mystic River - Frontal Boston HarborMA-MD-74Medford 1.2 W4.560109000105Mystic River - Frontal Boston HarborMA-MD-44Medford 1.2 W4.560109000105Mystic River - Frontal Boston HarborMA-MD-11Cambridge 0.9 NNW4.740109000105Mystic River - Frontal Boston HarborMA-MD-11Cambridge 0.9 NNW4.740109000106Upper Charles RiverMA-WR-1Milford 2.3 NNW4.910109000106Upper Charles RiverMA-MD-42Holliston 2.4 W5.100109000106Upper Charles RiverMA-MD-71Newton 2.2 NNW4.330109000107Lower Charles River - Frontal Boston HarborMA-MD-11Ma-MD-13Somerville 0.5 SSE0109000107Lower Charles River - Frontal Boston HarborMA-MD-14Holliston 0.8 S5.26010900107Lower Charles River - Frontal Boston HarborMA-MD-11Norwood 1.3 NW4.990109000107Lower Charles River - Frontal Boston HarborMA-NF-11Norwood 1.3 NW4.990109000107Low	0109000102	Ipswich River	MA-ES-12	Boxford 2.4 S	4.28"
0109000104Saugus River - Frontal Broad SoundMA-MD-81Wakefield 0.5 NNW4.420109000104Saugus River - Frontal Broad SoundMA-ES-45Nahant 0.4 N3.870109000105Mystic River - Frontal Boston HarborMA-MD-67Lexington 2.3 SE3.860109000105Mystic River - Frontal Boston HarborMA-MD-7Winchester 0.7 SE4.420109000105Mystic River - Frontal Boston HarborMA-MD-7Winchester 0.7 SE4.420109000105Mystic River - Frontal Boston HarborMA-MD-11Cambridge 0.9 NNW4.740109000105Mystic River - Frontal Boston HarborMA-MD-11Cambridge 0.9 NNW4.74010900105Mystic River - Frontal Boston HarborMA-MD-11Chelsea 0.8 N4.67010900106Upper Charles RiverMA-MD-106Holliston 2.4 W5.10010900106Upper Charles RiverMA-MD-106Holliston 2.4 W5.10010900106Upper Charles RiverMA-MD-42Holliston 0.8 S5.26010900107Lower Charles River - Frontal Boston HarborMA-MD-11Newton 2.2 NNW6.35010900107Lower Charles River - Frontal Boston HarborMA-MD-119Watertown 1.1 W4.57010900107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.48010900107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.48010900107Lower Charles River - Frontal Boston HarborMA-NF-11Norwood 1.3 NW4.990109000107 <td>0109000102</td> <td>Ipswich River</td> <td>MA-ES-2</td> <td>Beverly 2.8 NW</td> <td>3.99"</td>	0109000102	Ipswich River	MA-ES-2	Beverly 2.8 NW	3.99"
0109000104Saugus River - Frontal Broad SoundMA-ES-45Nahant 0.4 N3.870109000104Saugus River - Frontal Broad SoundMA-ES-8Marblehead 0.8 SW4.210109000105Mystic River - Frontal Boston HarborMA-MD-67Lexington 2.3 SE3.860109000105Mystic River - Frontal Boston HarborMA-MD-7Winchester 0.7 SE4.420109000105Mystic River - Frontal Boston HarborMA-MD-44Medford 1.2 W4.560109000105Mystic River - Frontal Boston HarborMA-MD-44Medford 1.2 W4.740109000105Mystic River - Frontal Boston HarborMA-MD-11Cambridge 0.9 NNW4.740109000105Mystic River - Frontal Boston HarborMA-SF-10Chelsea 0.8 N4.67010900106Upper Charles RiverMA-MD-106Holliston 2.4 W5.10010900106Upper Charles RiverMA-MD-106Holliston 0.8 S5.26010900106Upper Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW6.35010900106Upper Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW4.910109000107Lower Charles River - Frontal Boston HarborMA-ND-71Newton 2.2 NNW4.57010900107Lower Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW4.570109000107Lower Charles River - Frontal Boston HarborMA-ND-71Newton 2.2 NNW4.570109000107Lower Charles River - Frontal Boston HarborMA-NF-11Nortwond 1.3 NW4.99010900	0109000103	Essex River - Frontal Atlantic Ocean	MA-ES-41	Danvers 0.8 ESE	4.65"
0109000104Saugus River - Frontal Broad SoundMA-ES-8Marblehead 0.8 SW4.210109000105Mystic River - Frontal Boston HarborMA-MD-67Lexington 2.3 SE3.860109000105Mystic River - Frontal Boston HarborMA-MD-7Winchester 0.7 SE4.420109000105Mystic River - Frontal Boston HarborMA-MD-44Medford 1.2 W4.560109000105Mystic River - Frontal Boston HarborMA-MD-11Cambridge 0.9 NNW4.740109000105Mystic River - Frontal Boston HarborMA-MD-11Cambridge 0.9 NNW4.740109000106Upper Charles River - Frontal Boston HarborMA-MD-10Chelsea 0.8 N4.670109000106Upper Charles River - Frontal Boston HarborMA-MD-10Holliston 2.4 W5.100109000106Upper Charles RiverMA-MD-10Holliston 0.8 S5.260109000106Upper Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW3.300109000107Lower Charles River - Frontal Boston HarborMA-MD-119Watertown 1.1 W4.57010900107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.48010900107Lower Charles River - Frontal Boston HarborMA-NF-1Norwood 1.3 NW4.99010900107Lower Charles River - Frontal Boston HarborMA-NF-36Weymouth 2.3 N5.59010900107Lower Charles River - Frontal Boston HarborMA-NF-36Weymouth 2.3 N5.59010900109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth	0109000104	Saugus River - Frontal Broad Sound	MA-MD-81	Wakefield 0.5 NNW	4.42"
0109000105Mystic River - Frontal Boston HarborMA-MD-67Lexington 2.3 SE3.860109000105Mystic River - Frontal Boston HarborMA-MD-7Winchester 0.7 SE4.420109000105Mystic River - Frontal Boston HarborMA-MD-44Medford 1.2 W4.560109000105Mystic River - Frontal Boston HarborMA-MD-11Cambridge 0.9 NNW4.740109000105Mystic River - Frontal Boston HarborMA-SF-10Chelsea 0.8 N4.670109000106Upper Charles RiverMA-MD-106Holliston 2.4 W5.100109000106Upper Charles RiverMA-MD-42Holliston 0.8 S5.260109000106Upper Charles RiverMA-MD-42Holliston 0.8 S5.260109000106Upper Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW6.350109000107Lower Charles River - Frontal Boston HarborMA-MD-11Milliston 0.8 S5.260109000107Lower Charles River - Frontal Boston HarborMA-MD-11Watertown 1.1 W4.570109000107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.480109000107Lower Charles River - Frontal Boston HarborMA-MD-14Norwood 1.3 NW4.990109000108Neponset River - Frontal Boston HarborMA-NF-14Norwood 1.3 NW4.990109000109Whitmans Pond - Frontal Boston HarborMA-NF-30Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.2001090001	0109000104	Saugus River - Frontal Broad Sound	MA-ES-45	Nahant 0.4 N	3.87"
0109000105Mystic River - Frontal Boston HarborMA-MD-7Winchester 0.7 SE4.420109000105Mystic River - Frontal Boston HarborMA-MD-44Medford 1.2 W4.560109000105Mystic River - Frontal Boston HarborMA-MD-11Cambridge 0.9 NNW4.740109000105Mystic River - Frontal Boston HarborMA-SF-10Chelsea 0.8 N4.670109000106Upper Charles RiverMA-WR-1Milford 2.3 NNW4.910109000106Upper Charles RiverMA-MD-106Holliston 2.4 W5.100109000106Upper Charles RiverMA-MD-42Holliston 0.8 S5.260109000106Upper Charles RiverMA-MD-71Newton 2.2 NNW6.350109000107Lower Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW3.300109000107Lower Charles River - Frontal Boston HarborMA-MD-119Watertown 1.1 W4.570109000107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.480109000107Lower Charles River - Frontal Boston HarborMA-NF-1Norwood 1.3 NW4.990109000108Neponset River - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-39Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-NF-39Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-NF-39Weymouth 2.3 N5.590109000109Whitmans Pond - F	0109000104	Saugus River - Frontal Broad Sound	MA-ES-8	Marblehead 0.8 SW	4.21"
0109000105Mystic River - Frontal Boston HarborMA-MD-44Medford 1.2 W4.560109000105Mystic River - Frontal Boston HarborMA-MD-11Cambridge 0.9 NNW4.740109000105Mystic River - Frontal Boston HarborMA-SF-10Chelsea 0.8 N4.670109000106Upper Charles RiverMA-WR-1Milford 2.3 NNW4.910109000106Upper Charles RiverMA-MD-106Holliston 2.4 W5.100109000106Upper Charles RiverMA-MD-42Holliston 0.8 S5.260109000106Upper Charles RiverMA-NF-11Millis 2.0 SW6.350109000107Lower Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW3.300109000107Lower Charles River - Frontal Boston HarborMA-MD-119Watertown 1.1 W4.570109000107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.480109000107Lower Charles River - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Hingham 0.8 ESE6.83010900020Cape Cod0007.24010900201North River - Frontal Massachusetts BayMA-PL-37Scituate 1.2 NW7.39010900201North River - Frontal Massachusetts BayMA-PL-47Plymouth 1.1 NNW7.42010900201North River - Frontal Massachusetts BayMA-PL-	0109000105	Mystic River - Frontal Boston Harbor	MA-MD-67	Lexington 2.3 SE	3.86''
0109000105Mystic River - Frontal Boston HarborMA-MD-11Cambridge 0.9 NNW4.740109000105Mystic River - Frontal Boston HarborMA-SF-10Chelsea 0.8 N4.670109000106Upper Charles RiverMA-WR-1Milford 2.3 NNW4.910109000106Upper Charles RiverMA-MD-106Holliston 2.4 W5.100109000106Upper Charles RiverMA-MD-42Holliston 0.8 S5.260109000106Upper Charles RiverMA-MD-41Millis 2.0 SW6.350109000107Lower Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW3.300109000107Lower Charles River - Frontal Boston HarborMA-MD-119Watertown 1.1 W4.570109000107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.480109000107Lower Charles River - Frontal Boston HarborMA-NF-1Norwood 1.3 NW4.990109000108Neponset River - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Hingham 0.8 ESE6.83010900020Cape Cod </td <td>0109000105</td> <td>Mystic River - Frontal Boston Harbor</td> <td>MA-MD-7</td> <td>Winchester 0.7 SE</td> <td>4.42"</td>	0109000105	Mystic River - Frontal Boston Harbor	MA-MD-7	Winchester 0.7 SE	4.42"
0109000105Mystic River - Frontal Boston HarborMA-SF-10Chelsea 0.8 N4.670109000106Upper Charles RiverMA-WR-1Milford 2.3 NNW4.910109000106Upper Charles RiverMA-MD-106Holliston 2.4 W5.100109000106Upper Charles RiverMA-MD-42Holliston 0.8 S5.260109000106Upper Charles RiverMA-MF-11Millis 2.0 SW6.350109000107Lower Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW3.300109000107Lower Charles River - Frontal Boston HarborMA-MD-119Watertown 1.1 W4.570109000107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.480109000107Lower Charles River - Frontal Boston HarborMA-NF-1Norwood 1.3 NW4.990109000108Neponset River - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Hingham 0.8 ESE6.83010900020Cape Cod	0109000105	Mystic River - Frontal Boston Harbor	MA-MD-44	Medford 1.2 W	4.56"
0109000106Upper Charles RiverMA-WR-1Milford 2.3 NNW4.910109000106Upper Charles RiverMA-MD-106Holliston 2.4 W5.100109000106Upper Charles RiverMA-MD-42Holliston 0.8 S5.260109000106Upper Charles RiverMA-ND-41Millis 2.0 SW6.350109000107Lower Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW3.300109000107Lower Charles River - Frontal Boston HarborMA-MD-119Watertown 1.1 W4.570109000107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.480109000107Lower Charles River - Frontal Boston HarborMA-NF-1Norwood 1.3 NW4.990109000108Neponset River - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Hingham 0.8 ESE6.8301090002Cape Cod	0109000105	Mystic River - Frontal Boston Harbor	MA-MD-11	Cambridge 0.9 NNW	4.74"
0109000106Upper Charles RiverMA-MD-106Holliston 2.4 W5.100109000106Upper Charles RiverMA-MD-42Holliston 0.8 S5.260109000106Upper Charles RiverMA-MD-42Holliston 0.8 S6.350109000107Lower Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW3.300109000107Lower Charles River - Frontal Boston HarborMA-MD-119Watertown 1.1 W4.570109000107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.480109000107Lower Charles River - Frontal Boston HarborMA-NF-1Norwood 1.3 NW4.990109000108Neponset River - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-NF-39Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Hingham 0.8 ESE6.83010900020Cape Cod	0109000105	Mystic River - Frontal Boston Harbor	MA-SF-10	Chelsea 0.8 N	4.67"
0109000106Upper Charles RiverMA-MD-42Holliston 0.8 S5.260109000106Upper Charles RiverMA-NF-11Millis 2.0 SW6.350109000107Lower Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW3.300109000107Lower Charles River - Frontal Boston HarborMA-MD-119Watertown 1.1 W4.570109000107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.480109000108Neponset River - Frontal Boston HarborMA-NF-1Norwood 1.3 NW4.990109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-PL-36Hingham 0.8 ESE6.83010900201North River - Frontal Massachusetts BayMA-PL-5Kingston 3.3 WNW7.39010900201North River - Frontal Massachusetts BayMA-PL-47Plymouth 1.1 NNW7.42010900202Cape CodMA-PL-47Plymouth 1.1 NNW6.82010900202Cape CodMA-PL-47Falmouth 3.1 NNW6.82	0109000106	Upper Charles River	MA-WR-1	Milford 2.3 NNW	4.91''
0109000106Upper Charles RiverMA-NF-11Millis 2.0 SW6.350109000107Lower Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW3.300109000107Lower Charles River - Frontal Boston HarborMA-MD-119Watertown 1.1 W4.570109000107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.480109000108Neponset River - Frontal Boston HarborMA-NF-1Norwood 1.3 NW4.990109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Hingham 0.8 ESE6.83010900020Cape Cod010900020Cape Cod010900201North River - Frontal Massachusetts BayMA-PL-5Kingston 3.3 WNW7.39010900201North River - Frontal Massachusetts BayMA-PL-47Plymouth 1.1 NNW7.42010900202Cape CodMA-BA-2Falmouth 3.1 NNW6.82	0109000106	Upper Charles River	MA-MD-106	Holliston 2.4 W	5.10"
0109000107Lower Charles River - Frontal Boston HarborMA-MD-71Newton 2.2 NNW3.300109000107Lower Charles River - Frontal Boston HarborMA-MD-119Watertown 1.1 W4.570109000107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.480109000108Neponset River - Frontal Boston HarborMA-NF-1Norwood 1.3 NW4.990109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Hingham 0.8 ESE6.830109000109Whitmans Pond - Frontal Boston HarborMA-PL-36Hingham 0.8 ESE6.83010900020Cape Cod0109000201North River - Frontal Massachusetts BayMA-PL-57Kingston 3.3 WNW7.39010900201North River - Frontal Massachusetts BayMA-PL-47Plymouth 1.1 NNW7.42010900202Cape CodMA-BA-2Falmouth 3.1 NNW6.82	0109000106	Upper Charles River	MA-MD-42	Holliston 0.8 S	5.26"
0109000107Lower Charles River - Frontal Boston HarborMA-MD-119Watertown 1.1 W4.570109000107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.480109000108Neponset River - Frontal Boston HarborMA-NF-1Norwood 1.3 NW4.990109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Hingham 0.8 ESE6.830109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Hingham 0.8 ESE6.8301090002Cape Cod	0109000106	Upper Charles River	MA-NF-11	Millis 2.0 SW	6.35"
0109000107Lower Charles River - Frontal Boston HarborMA-MD-134Somerville 0.5 SSE4.480109000108Neponset River - Frontal Boston HarborMA-NF-1Norwood 1.3 NW4.990109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-39Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-PL-36Hingham 0.8 ESE6.8301090002Cape Cod010900201North River - Frontal Massachusetts BayMA-PL-5Kingston 3.3 WNW7.39010900201North River - Frontal Massachusetts BayMA-PL-47Plymouth 1.1 NNW7.42010900202Cape CodMA-BA-2Falmouth 3.1 NNW6.82	0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-71	Newton 2.2 NNW	3.30"
0109000108Neponset River - Frontal Boston HarborMA-NF-1Norwood 1.3 NW4.990109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-39Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Hingham 0.8 ESE6.8301090002Cape Cod010900201North River - Frontal Massachusetts BayMA-PL-5Kingston 3.3 WNW7.39010900201North River - Frontal Massachusetts BayMA-PL-37Scituate 1.2 NW7.24010900201North River - Frontal Massachusetts BayMA-PL-47Plymouth 1.1 NNW7.42010900202Cape CodMA-BA-2Falmouth 3.1 NNW6.82	0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-119	Watertown 1.1 W	4.57"
0109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Weymouth 2.8 NW5.200109000109Whitmans Pond - Frontal Boston HarborMA-NF-39Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-NF-36Hingham 0.8 ESE6.8301090002Cape Cod0109000201North River - Frontal Massachusetts BayMA-PL-5Kingston 3.3 WNW7.390109000201North River - Frontal Massachusetts BayMA-PL-37Scituate 1.2 NW7.240109000201North River - Frontal Massachusetts BayMA-PL-47Plymouth 1.1 NNW7.420109000202Cape CodMA-BA-2Falmouth 3.1 NNW6.82	0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-134	Somerville 0.5 SSE	4.48"
0109000109Whitmans Pond - Frontal Boston HarborMA-NF-39Weymouth 2.3 N5.590109000109Whitmans Pond - Frontal Boston HarborMA-PL-36Hingham 0.8 ESE6.8301090002Cape Cod0109000201North River - Frontal Massachusetts BayMA-PL-5Kingston 3.3 WNW7.390109000201North River - Frontal Massachusetts BayMA-PL-37Scituate 1.2 NW7.240109000201North River - Frontal Massachusetts BayMA-PL-47Plymouth 1.1 NNW7.420109000202Cape CodMA-BA-2Falmouth 3.1 NNW6.82	0109000108	Neponset River - Frontal Boston Harbor	MA-NF-1	Norwood 1.3 NW	4.99''
0109000109Whitmans Pond - Frontal Boston HarborMA-PL-36Hingham 0.8 ESE6.8301090002Cape Cod0109000201North River - Frontal Massachusetts BayMA-PL-5Kingston 3.3 WNW7.390109000201North River - Frontal Massachusetts BayMA-PL-37Scituate 1.2 NW7.240109000201North River - Frontal Massachusetts BayMA-PL-47Plymouth 1.1 NNW7.420109000202Cape CodMA-BA-2Falmouth 3.1 NNW6.82	0109000109	Whitmans Pond - Frontal Boston Harbor	MA-NF-36	Weymouth 2.8 NW	5.20"
01090002Cape CodMA-PL-5Kingston 3.3 WNW7.390109000201North River - Frontal Massachusetts BayMA-PL-37Scituate 1.2 NW7.240109000201North River - Frontal Massachusetts BayMA-PL-47Plymouth 1.1 NNW7.420109000202Cape CodMA-BA-2Falmouth 3.1 NNW6.82	0109000109	Whitmans Pond - Frontal Boston Harbor	MA-NF-39	Weymouth 2.3 N	5.59"
0109000201North River - Frontal Massachusetts BayMA-PL-5Kingston 3.3 WNW7.390109000201North River - Frontal Massachusetts BayMA-PL-37Scituate 1.2 NW7.240109000201North River - Frontal Massachusetts BayMA-PL-47Plymouth 1.1 NNW7.420109000202Cape CodMA-BA-2Falmouth 3.1 NNW6.82	0109000109	Whitmans Pond - Frontal Boston Harbor	MA-PL-36	Hingham 0.8 ESE	6.83"
0109000201North River - Frontal Massachusetts BayMA-PL-37Scituate 1.2 NW7.240109000201North River - Frontal Massachusetts BayMA-PL-47Plymouth 1.1 NNW7.420109000202Cape CodMA-BA-2Falmouth 3.1 NNW6.82	01090002	Cape Cod			
0109000201North River - Frontal Massachusetts BayMA-PL-47Plymouth 1.1 NNW7.420109000202Cape CodMA-BA-2Falmouth 3.1 NNW6.82	0109000201	North River - Frontal Massachusetts Bay	MA-PL-5	Kingston 3.3 WNW	7.39"
0109000202 Cape Cod MA-BA-2 Falmouth 3.1 NNW 6.82	0109000201	North River - Frontal Massachusetts Bay	MA-PL-37	Scituate 1.2 NW	7.24"
	0109000201	North River - Frontal Massachusetts Bay	MA-PL-47	Plymouth 1.1 NNW	7.42"
	0109000202	Cape Cod	MA-BA-2	Falmouth 3.1 NNW	6.82''
0109000202 Cape Cod MA-BA-57 Falmouth 5.7 N 6.57	0109000202	Cape Cod	MA-BA-57	Falmouth 5.7 N	6.57''

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	1			
0109000202	Cape Cod	MA-BA-13	Falmouth 0.6 NNW	6.59"
0109000202	Cape Cod	MA-BA-50	Falmouth 5.4 NNE	6.11"
0109000202	Cape Cod	MA-BA-17	East Falmouth 1.2 WNW	5.19"
0109000202	Cape Cod	MA-BA-3	Falmouth 3.0 E	5.79"
0109000202	Cape Cod	MA-BA-11	East Falmouth 1.4 ESE	6.42"
0109000202	Cape Cod	MA-BA-18	Waquoit 0.6 SSW	6.24"
0109000202	Cape Cod	MA-BA-47	Mashpee 2.4 WSW	6.67"
0109000202	Cape Cod	MA-BA-45	Sandwich 0.9 NNE	6.73"
0109000202	Cape Cod	MA-BA-10	East Sandwich 2.3 SE	6.27"
0109000202	Cape Cod	MA-BA-59	Barnstable 3.6 W	6.04"
0109000202	Cape Cod	MA-BA-72	Yarmouth 2.0 S	5.01"
0109000202	Cape Cod	MA-BA-1	Yarmouth 2.3 SSE	5.71"
0109000202	Cape Cod	MA-BA-33	Brewster 1.5 ESE	6.09''
0109000202	Cape Cod	MA-BA-52	Truro 0.8 E	4.91"
0109000202	Cape Cod	MA-BA-37	Orleans 0.8 W	5.31"
0109000202	Cape Cod	MA-BA-51	Orleans 3.0 S	5.92"
0109000202	Cape Cod	MA-BA-12	Orleans 1.1 E	5.20''
0109000202	Cape Cod	MA-BA-30	Eastham 0.6 SW	4.99''
0109000202	Cape Cod	MA-BA-65	Chatham 0.2 SSE	4.41"
0109000203	Mattapoisett River - Frontal Buzzards Bay	MA-PL-19	Rochester 1.2 NNW	6.90''
0109000204	Paskamanset River - Frontal Buzzards Bay	MA-BR-14	Dartmouth 2.5 SSW	5.62"
0109000204	Paskamanset River - Frontal Buzzards Bay	MA-BR-52	New Bedford 4.3 N	5.38"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-5	Little Compton 1.7 NW	6.03"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-7	Little Compton 0.6 E	6.72"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	MA-BR-37	Westport 0.9 ESE	6.35"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-5	West Tisbury 2.9 N	7.79"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-9	West Tisbury 0.4 S	7.79"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-2	Vineyard Haven 0.8 WSW	7.22"
01090003	Blackstone			
0109000301	Upper Blackstone River	MA-WR-41	Auburn 2.6 SW	4.96''
0109000301	Upper Blackstone River	MA-WR-43	Leicester 2.4 ESE	4.40"
0109000301	Upper Blackstone River	MA-WR-70	Grafton 1.5 W	4.70"
0109000302	Lower Blackstone River	RI-PR-50	Harrisville 1.2 SSE	6.40''
0109000302	Lower Blackstone River	RI-PR-28	North Smithfield 0.7 SE	6.82"
0109000302	Lower Blackstone River	RI-PR-45	Manville 0.4 WSW	6.52"
0109000302	Lower Blackstone River	MA-NF-26	Bellingham 2.4 S	6.21"
0109000302	Lower Blackstone River	RI-PR-55	Cumberland Hill 3.6 NNE	5.02''
01090004	Narragansett			
0109000401	Upper Taunton River	MA-BR-30	Taunton 3.9 N	7.09''
0109000401	Upper Taunton River	MA-NF-31	Stoughton 1.2 E	6.51"
0109000401	Upper Taunton River	MA-PL-15	Abington 1.2 NNE	5.11"

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0109000401Upper Taunton RiverMA-PL-23Pembroke 2.8 SW0109000402Middle Taunton RiverMA-BR-48Taunton 1.0 E0109000403Middle Taunton RiverMA-PL-31Bridgewater 1.8 SE0109000403Threemile RiverMA-NF-19Foxborough 1.8 SSW0109000403Threemile RiverMA-NF-8Foxborough 0.4 S0109000403Threemile RiverMA-BR-55NWS Boston/Norton 2.5 ESE0109000403Threemile RiverMA-BR-9Taunton 2.6 NW0109000404Ten Mile RiverMA-BR-23Attleboro 0.9 ENE0109000405Woonasquatucket River-Moshassuck RiverRI-PR-33Greenville 0.7 NNW0109000406Pawtuxet RiverRI-PR-57Cranston 1.2 SSE0109000406Pawtuxet RiverRI-PR-57Cranston 1.1 ESE0109000406Pawtuxet RiverMA-BR-2Rehoboth 2.1 N0109000407Palmer RiverMA-BR-3Norton 1.8 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-16Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 SSW0109000409Narragansett BayRI-WS-31Kingston 7.5 SSW0109000409Narragansett BayRI-WS-31Kingston 7.5 SSW0109000409Narragansett BayRI-NV-18Jamestown 0.3 SSE0109000409Narragansett BayRI-NV-18 </th <th>6.98''</th>	6.98''
0109000402Middle Taunton RiverMA-PL-31Bridgewater 1.8 SE0109000403Threemile RiverMA-NF-19Foxborough 1.8 SSW0109000403Threemile RiverMA-NF-8Foxborough 0.4 S0109000403Threemile RiverMA-BR-55NWS Boston/Norton 2.5 ESE0109000403Threemile RiverMA-BR-9Taunton 2.6 NW0109000404Ten Mile RiverMA-BR-23Attleboro 0.9 ENE0109000405Wonnasquatucket River-Moshassuck RiverRI-PR-33Greenville 0.7 NNW0109000405Woonasquatucket River-Moshassuck RiverRI-PR-60North Providence 0.9 E0109000406Pawtuxet RiverRI-PR-57Cranston 1.2 SSE0109000406Pawtuxet RiverRI-PR-17Cranston 4.1 E0109000407Palmer RiverMA-BR-2Rehoboth 2.1 N0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-16Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE01	
0109000403Threemile RiverMA-NF-19Foxborough 1.8 SSW0109000403Threemile RiverMA-NF-8Foxborough 0.4 S0109000403Threemile RiverMA-BR-55NWS Boston/Norton 2.5 ESE0109000403Threemile RiverMA-BR-9Taunton 2.6 NW0109000404Ten Mile RiverMA-BR-9Taunton 2.6 NW0109000405Wonnasquatucket River-Moshassuck RiverRI-PR-33Greenville 0.7 NNW0109000405Woonasquatucket River-Moshassuck RiverRI-PR-60North Providence 0.9 E0109000406Pawtuxet RiverRI-PR-57Cranston 1.2 SSE0109000406Pawtuxet RiverRI-PR-17Cranston 4.1 E0109000407Palmer RiverMA-BR-2Rehoboth 2.1 N0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-3Norton 1.8 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-WS-18Jamestown 0.3 SSE	6.59"
0109000403Threemile RiverMA-NF-8Foxborough 0.4 S0109000403Threemile RiverMA-BR-55NWS Boston/Norton 2.5 ESE0109000403Threemile RiverMA-BR-9Taunton 2.6 NW0109000404Ten Mile RiverMA-BR-23Attleboro 0.9 ENE0109000405Wonnasquatucket River-Moshassuck RiverRI-PR-33Greenville 0.7 NNW0109000406Pawtuxet RiverRI-PR-60North Providence 0.9 E0109000406Pawtuxet RiverRI-PR-57Cranston 1.2 SSE0109000407Palmer RiverMA-BR-2Rehoboth 2.1 N0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-3Norton 1.8 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-16Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-18Dighton 1.1 WSW0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-KN-18Jamestown 0.3 SSE	7.02"
0109000403Threemile RiverMA-BR-55NWS Boston/Norton 2.5 ESE0109000403Threemile RiverMA-BR-9Taunton 2.6 NW0109000404Ten Mile RiverMA-BR-23Attleboro 0.9 ENE0109000405Wonnasquatucket River-Moshassuck RiverRI-PR-33Greenville 0.7 NNW0109000406Pawtuxet RiverRI-PR-60North Providence 0.9 E0109000406Pawtuxet RiverRI-PR-57Cranston 1.2 SSE0109000407Palmer RiverRI-PR-17Cranston 4.1 E0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-3Norton 1.8 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-16Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-15Jamestown 0.3 SSE	6.71"
0109000403Threemile RiverMA-BR-9Taunton 2.6 NW0109000404Ten Mile RiverMA-BR-23Attleboro 0.9 ENE0109000405Wonnasquatucket River-Moshassuck RiverRI-PR-33Greenville 0.7 NNW0109000405Woonasquatucket River-Moshassuck RiverRI-PR-60North Providence 0.9 E0109000406Pawtuxet RiverRI-PR-57Cranston 1.2 SSE0109000406Pawtuxet RiverRI-PR-17Cranston 4.1 E0109000407Palmer RiverMA-BR-2Rehoboth 2.1 N0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-3Norton 1.8 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-16Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-18Jamestown 0.3 SSE	7.12"
0109000404Ten Mile RiverMA-BR-23Attleboro 0.9 ENE0109000405Wonnasquatucket River-Moshassuck RiverRI-PR-33Greenville 0.7 NNW0109000405Woonasquatucket River-Moshassuck RiverRI-PR-60North Providence 0.9 E0109000406Pawtuxet RiverRI-PR-57Cranston 1.2 SSE0109000406Pawtuxet RiverRI-PR-17Cranston 4.1 E0109000407Palmer RiverMA-BR-2Rehoboth 2.1 N0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-3Norton 1.8 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-16Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-18Jamestown 0.3 SSE	6.73''
0109000405Wonnasquatucket River-Moshassuck RiverRI-PR-33Greenville 0.7 NNW0109000405Woonasquatucket River-Moshassuck RiverRI-PR-60North Providence 0.9 E0109000406Pawtuxet RiverRI-PR-57Cranston 1.2 SSE0109000406Pawtuxet RiverRI-PR-17Cranston 4.1 E0109000407Palmer RiverMA-BR-2Rehoboth 2.1 N0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-3Norton 1.8 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-16Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-18Jamestown 0.3 SSE	6.71''
0109000405Woonasquatucket River-Moshassuck RiverRI-PR-60North Providence 0.9 E0109000406Pawtuxet RiverRI-PR-57Cranston 1.2 SSE0109000406Pawtuxet RiverRI-PR-17Cranston 4.1 E0109000407Palmer RiverMA-BR-2Rehoboth 2.1 N0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-3Norton 1.8 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-16Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-18Jamestown 0.3 SSE	6.44''
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0109000406Pawtuxet RiverRI-PR-17Cranston 4.1 E0109000407Palmer RiverMA-BR-2Rehoboth 2.1 N0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-3Norton 1.8 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-16Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-8Dighton 1.1 WSW0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-NW-18Jamestown 0.3 SSE	6.35"
0109000407Palmer RiverMA-BR-2Rehoboth 2.1 N0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-3Norton 1.8 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-16Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-8Dighton 1.1 WSW0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-15Jamestown 0.3 SSE	6.97"
0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-3Norton 1.8 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-16Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-8Dighton 1.1 WSW0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-NW-18Jamestown 0.3 SSE	7.16"
0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-16Somerset 0.4 SSE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-8Dighton 1.1 WSW0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-15Jamestown 0.3 SSE0109000409Narragansett BayRI-NW-18Jamestown 0.3 SSE	6.45"
0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-19Somerset 2.0 NNE0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-8Dighton 1.1 WSW0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-KN-2East Greenwich 2.3 SSE	7.17"
0109000408Lower Taunton River - Frontal Mount Hope BayMA-BR-8Dighton 1.1 WSW0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-KN-2East Greenwich 2.3 SSE	5.65"
0109000409Narragansett BayRI-KN-17East Greenwich 1.2 NNE0109000409Narragansett BayRI-WS-31Kingston 7.5 NNE0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-KN-2East Greenwich 2.3 SSE	6.05"
O109000409Narragansett BayRI-WS-31Kingston 7.5 NNEO109000409Narragansett BayRI-WS-44North Kingston 1.5 SSWO109000409Narragansett BayRI-KN-15Warwick 4.3 SSWO109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESEO109000409Narragansett BayRI-NW-18Jamestown 0.3 SSE	6.00"
0109000409Narragansett BayRI-WS-44North Kingston 1.5 SSW0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-NW-18Jamestown 0.3 SSE	6.89''
0109000409Narragansett BayRI-KN-15Warwick 4.3 SSW0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-NW-18Jamestown 0.3 SSE	7.12"
0109000409Narragansett BayRI-KN-2East Greenwich 2.3 ESE0109000409Narragansett BayRI-NW-18Jamestown 0.3 SSE	5.01"
0109000409 Narragansett Bay RI-NW-18 Jamestown 0.3 SSE	5.93"
	6.73''
	6.38''
0109000409 Narragansett Bay RI-BR-5 Barrington 1.3 WNW	6.04''
0109000409 Narragansett Bay RI-NW-4 Middletown 1.1 SW	4.46''
0109000409 Narragansett Bay RI-NW-19 Portsmouth 2.3 S	6.04''
0109000409 Narragansett Bay RI-NW-16 Portsmouth 1.3 S	5.69''
0109000409 Narragansett Bay RI-NW-11 Tiverton 0.8 SSW	6.41''
0109000409 Narragansett Bay RI-NW-20 Tiverton 1.0 SSW	5.94''
01090005 Pawcatuck-Wood	
0109000501 Wood River RI-WS-1 Hope Valley 3.7 S	6.95"
0109000502 Upper Pawcatuck River RI-WS-42 Richmond 4.6 NNE	5.96''
0109000502 Upper Pawcatuck River RI-WS-32 Kingston 6.9 NNW	6.23"
0109000502 Upper Pawcatuck River RI-WS-37 Kingston 2.4 SW	7.12"
0109000503 Lower Pawcatuck River CT-NL-40 Pawcatuck 1.8 SSE	6.89"
0109000503 Lower Pawcatuck River RI-WS-47 Westerly 0.8 WNW	6.37"
0109000504 Frontal Block Island Sound RI-WS-36 Charlestown 3.0 WSW	7.03"
01100001 Quinebaug	
	4.29''
0110000103 Fivemile River CT-WN-6 Dayville 2.0 ENE	4.96''
0110000103 Fivemile River CT-WN-4 East Killingly 1.3 SW	4.67"

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0110000105	Mossup River	CT-WN-8	Moosup 1.7 NE	6.56''
0110000106	Pachaug River	CT-NL-21	Griswold 0.9 N	5.37"
01100002	Shetucket			
0110000201	Willimantic River	CT-TL-18	Hebron 5.3 NW	5.69"
0110000201	Willimantic River	CT-TL-28	South Coventry 1.2 NNW	4.76''
0110000201	Willimantic River	CT-TL-2	Staffordville 0.4 NNW	4.03''
0110000202	Natchaug River	CT-TL-27	Willington 2.7 SE	3.97''
0110000202	Natchaug River	CT-WN-12	Eastford 2.0 W	4.42"
0110000203	Shetucket River	CT-NL-10	Norwich 2.5 NNE	6.42''
0110000203	Shetucket River	CT-NL-28	Lisbon 2.0 SW	5.16"
01100003	Thames			
0110000302	Thames River-Frontal New London Harbor	CT-NL-5	Oakdale 2.6 WNW	6.67"
0110000302	Thames River-Frontal New London Harbor	CT-NL-6	New London 1.0 NNW	5.75"
0110000302	Thames River-Frontal New London Harbor	CT-NL-8	Uncasville-Oxoboxo Valley 1.6 ENE	5.91"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-38	Old Lyme 3.4 ESE	5.03"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-32	Niantic 1.1 SW	5.28"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-22	Central Waterford 2.7 SSW	5.22"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-37	Mystic 1.6 W	5.89"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-19	Mystic 0.9 W	5.56''
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-24	Stonington 1.4 NNW	5.72"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-18	Stonington 0.5 NNE	6.02"
01100004	Quinnipiac			
0110000401	Quinnipiac River	CT-NH-14	Prospect 1.9 ENE	3.96''
0110000401	Quinnipiac River	CT-HR-55	Southington 1.7 WNW	4.89''
0110000401	Quinnipiac River	CT-HR-23	Southington 0.9 SSE	5.27''
0110000401	Quinnipiac River	CT-NH-44	Wallingford Center 1.9 WNW	4.71"
0110000401	Quinnipiac River	CT-NH-43	Wallingford Center 3.3 NNW	4.18''
0110000401	Quinnipiac River	CT-NH-42	Wallingford Center 1.1 N	4.59''
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-21	East Haven 3.5 SSW	4.94''
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-41	Madison Center 1.6 W	5.60''
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-50	Madison Center 4.1 N	4.78''
0110000402	Hammonasset River - Frontal Long Island Sound	CT-MD-21	Killingworth 2.6 ESE	5.26"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-MD-11	Westbrook Center 1.5 NE	5.73''
0110000403	Mill River - Frontal Long Island Sound	CT-NH-16	Milford 1.8 E	5.84''
0110000403	Mill River - Frontal Long Island Sound	CT-NH-39	West Haven 0.8 W	5.64''
01100005	Housatonic			
0110000501	Headwaters Housatonic River	MA-BE-3	Stockbridge .2 NNE	5.08''
0110000501	Headwaters Housatonic River	MA-BE-10	Pittsfield 2.0 NNW	3.96"
0110000504	Macedonia Brook - Housatonic River	CT-LT-20	Warren 2.4 WNW	4.73''
	Maccaoma Brook Thousatome River			
0110000506	Candlewood Lake-Housatonic River	CT-LT-27	New Milford 2.3 W	3.42"

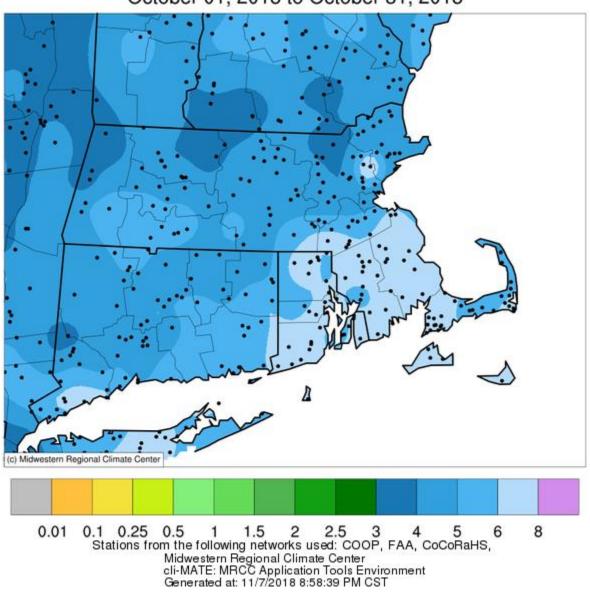
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Still River - Housatonic River	CT-FR-43	Bethel 0.5 E	4.62"
Still River - Housatonic River	CT-FR-41	Bethel 3.5 NNE	4.41"
Still River - Housatonic River	CT-FR-9	Brookfield 3.3 SSE	3.87"
Eightmile Brook - Housatonic River	CT-FR-44	Newtown 4.3 E	4.45"
Headwaters Naugatuck River	CT-LT-7	Litchfield 2.3 NNE	4.26"
Outlet Naugatuck River	CT-NH-47	Seymour 1.5 NE	4.84''
Outlet Naugatuck River	CT-NH-45	Naugatuck 1.7 NNE	3.57"
Outlet Naugatuck River	CT-NH-22	Prospect 0.5 SW	3.99"
Housatonic River - Frontal Long Island Sound	CT-FR-42	Monroe 0.1 SE	5.12"
Housatonic River - Frontal Long Island Sound	CT-FR-23	Shelton 1.3 W	4.53"
Housatonic River - Frontal Long Island Sound	CT-FR-46	Stratford 0.2 ESE	6.45"
Housatonic River - Frontal Long Island Sound	CT-FR-55	Shelton 2.7 SSE	4.65"
Saugatuck			
Saugatuck River - Frontal Long Island Sound	CT-FR-58	Ridgefield 3.6 N	4.43"
Saugatuck River - Frontal Long Island Sound	CT-FR-31	Newtown 4.6 SSW	5.04"
Norwalk River - Frontal Norwalk Harbor	CT-FR-59	New Canaan 3.8 N	6.26''
Norwalk River - Frontal Norwalk Harbor	CT-FR-29	Ridgefield 1.9 SSE	5.72"
Norwalk River - Frontal Norwalk Harbor	CT-FR-3	New Canaan 1.9 ENE	6.02''
Norwalk River - Frontal Norwalk Harbor	CT-FR-25	Norwalk 2.9 NNW	6.29''
Pequonnock River - Frontal Long Island Sound	CT-FR-20	Westport 2.5 ENE	7.11"
Pequonnock River - Frontal Long Island Sound	CT-FR-60	Fairfield 1.5 NE	6.96''
Mianus River-Rippowam River	CT-FR-39	Stamford 4.2 S	4.75"
Mianus River-Rippowam River	CT-FR-50	Darien 2.8 NW	6.70"
Mianus River-Rippowam River	CT-FR-35	Darien 1.8 ENE	5.82"
Hudson-Hoosic			
Upper Hoosic River	MA-BE-18	North Adams 3.0 WNW	3.23"
Long Island Sound			
Long Island Sound	NY-SF-114	Fishers Island 0.5 NE	5.57"
	Still River - Housatonic RiverStill River - Housatonic RiverEightmile Brook - Housatonic RiverHeadwaters Naugatuck RiverOutlet Naugatuck RiverOutlet Naugatuck RiverOutlet Naugatuck RiverHousatonic River - Frontal Long Island SoundHousatonic River - Frontal Long Island SoundHousatonic River - Frontal Long Island SoundHousatonic River - Frontal Long Island SoundSaugatuckSaugatuck River - Frontal Long Island SoundSaugatuckSaugatuck River - Frontal Long Island SoundNorwalk River - Frontal Norwalk HarborNorwalk River - Frontal Norwalk HarborNorwalk River - Frontal Norwalk HarborPequonnock River - Frontal Long Island SoundPequonnock River - Frontal Long Island SoundMianus River-Rippowam RiverMianus River-Rippowam RiverMianus River-Rippowam RiverHudson-HoosicUpper Hoosic RiverLong Island Sound	Still River - Housatonic RiverCT-FR-41Still River - Housatonic RiverCT-FR-9Eightmile Brook - Housatonic RiverCT-FR-44Headwaters Naugatuck RiverCT-LT-7Outlet Naugatuck RiverCT-NH-47Outlet Naugatuck RiverCT-NH-45Outlet Naugatuck RiverCT-NH-45Outlet Naugatuck RiverCT-NH-22Housatonic River - Frontal Long Island SoundCT-FR-42Housatonic River - Frontal Long Island SoundCT-FR-23Housatonic River - Frontal Long Island SoundCT-FR-55SaugatuckCT-FR-55Saugatuck River - Frontal Long Island SoundCT-FR-58Saugatuck River - Frontal Long Island SoundCT-FR-58Saugatuck River - Frontal Long Island SoundCT-FR-59Norwalk River - Frontal Long Island SoundCT-FR-59Norwalk River - Frontal Norwalk HarborCT-FR-29Norwalk River - Frontal Norwalk HarborCT-FR-31Norwalk River - Frontal Norwalk HarborCT-FR-25Pequonnock River - Frontal Long Island SoundCT-FR-29Norwalk River - Frontal Norwalk HarborCT-FR-20Pequonnock River - Frontal Long Island SoundCT-FR-30Mianus River-Rippowam RiverCT-FR-39Mianus River-Rippowam RiverCT-FR-35Hudson-HoosicUpper Hoosic RiverMA-BE-18Long Island SoundSter-FR-35Hudson-Hoosic RiverMA-BE-18Long Island SoundSter-FR-35	Still River - Housatonic RiverCT-FR-41Bethel 3.5 NNEStill River - Housatonic RiverCT-FR-9Brookfield 3.3 SSEEightmile Brook - Housatonic RiverCT-FR-44Newtown 4.3 EHeadwaters Naugatuck RiverCT-LT-7Litchfield 2.3 NNEOutlet Naugatuck RiverCT-NH-47Seymour 1.5 NEOutlet Naugatuck RiverCT-NH-45Naugatuck 1.7 NNEOutlet Naugatuck RiverCT-NH-22Prospect 0.5 SWHousatonic River - Frontal Long Island SoundCT-FR-42Monroe 0.1 SEHousatonic River - Frontal Long Island SoundCT-FR-43Shelton 1.3 WHousatonic River - Frontal Long Island SoundCT-FR-46Stratford 0.2 ESEHousatonic River - Frontal Long Island SoundCT-FR-55Shelton 2.7 SSESaugatuckSaugatuck River - Frontal Long Island SoundCT-FR-31Newtown 4.6 SSWSaugatuck River - Frontal Long Island SoundCT-FR-31Newtown 4.6 SSWNorwalk River - Frontal Norwalk HarborCT-FR-29Ridgefield 1.9 SSENorwalk River - Frontal Norwalk HarborCT-FR-20Westport 2.5 ENENorwalk River - Frontal Norwalk HarborCT-FR-20Westport 2.5 ENENorwalk River - Frontal Long Island SoundCT-FR-30Fairfield 1.5 NENorwalk River - Frontal Long Island SoundCT-FR-30Fairfield 1.5 NENorwalk River - Frontal Norwalk HarborCT-FR-30Kever 2.5 ENEPequonock River - Frontal Long Island SoundCT-FR-30Fairfield 1.5 NENorwalk River - Frontal Norwalk HarborCT-FR-30Fairfield 1.5 NENor

No green colors this month. The darker shade of blue is 3"+, and not many of those areas. The palest shade of blue is 6"+.

A rule of thumb to use for normal precipitation: 4" in any given month. Slightly higher than 4" in the summer months, slightly lower than 4" in the winter months.



Accumulated Precipitation (in)

October 01, 2018 to October 31, 2018

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"We do not live at the airport"

The New London County observers continue to impress, and stand out in stark contrast to the automated gauge at their local airport.

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

Location	Station ID	October 2018 Precip	Oct departure from normal	Aug- Sep-Oct Precip	3 month departure from normal	May- Oct Precip	6 month departure from normal	Nov- Oct Precip	12 month departure from normal
White Plains NY	HPN	4.50"	0.09"	21.54"	8.25"	32.60"	7.23"	49.79''	0.44''
Danbury CT	DXR	3.80''	-0.91''	14.46''	0.91''	28.75"	1.70''	45.59''	-4.28''
New Haven CT	HVN	4.06"	-0.18"	15.89"	3.33"	25.23"	0.47"	43.66''	-3.45"
Meriden CT	MMK	4.10"	-0.14"	18.15"	5.59"	27.51"	2.75"	49.02"	1.91"
Hartford CT	HFD	4.61"	0.47"	16.36"	5.08"	28.65"	5.49"	47.48''	3.88"
Willimantic CT	IJD	4.34"	-0.11''	18.67"	6.24''	26.10"	1.54"	46.60''	-1.82"
New London CT	GON	0.00"	-3.86"	8.13"	-3.89"	17.71"	-6.04"	29.61"	-16.88"
Westerly RI	WST	6.41''	2.49''	15.60''	3.61''	21.90"	-1.35"	44.65''	-2.74"
Newport RI	ບບບ	5.95"	2.12"	16.58''	5.12"	21.09"	-1.16''	47.20''	0.87''
New Bedford MA	EWB	5.90"	1.77"	15.00"	3.20''	20.06"	-2.70"	49.69''	1.33"
Hyannis MA	HYA	5.07"	0.96"	11.07"	-0.54''	16.98''	-4.92''	41.55''	-6.14''
Nantucket MA	ACK	6.70''	2.78''	9.51"	-2.36''	15.94''	-5.93"	44.97''	0.55"
Marthas Vineyard MA	MVY	6.48''	2.41''	10.91''	-1.34''	17.55"	-4.24''	38.11"	-7.05"
Taunton MA	TAN	6.35"	2.06''	18.20''	5.51"	25.05"	1.39''	53.50"	3.76"
Plymouth MA	PYM	6.35"	2.27"	18.04''	6.25''	24.96''	2.04''	53.91''	4.76''
Norwood MA	OWD	4.55"	0.39''	19.90''	8.14''	26.87''	3.70''	51.12"	4.06''
Bedford MA	BED	3.60''	-0.62''	12.54''	1.11"	21.91"	-1.01"	39.79''	-5.92"
Beverly MA	BVY	4.90''	0.52"	15.58"	3.87''	24.21"	1.20''	42.84''	-3.34"
Lawrence MA	LWM	3.16"	-1.01''	13.44"	2.34''	21.53"	-1.07"	35.13"	-8.03"
Fitchburg MA	FIT	4.12"	-0.16''	22.32"	10.39"	32.31"	7.99''	50.20''	3.06''
Orange MA	ORE	3.64''	-0.15"	21.76"	10.87"	33.00"	9.71''		
Westfield MA	BAF	5.88''	1.13''	19.22"	5.82''	33.55"	7.27"	51.29''	2.90''
North Adams MA	AQW	2.77"	-1.97"	16.13"	3.09''	25.91"	-0.75''	39.89"	-6.72"

October 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 306 Daily Reports per day. 343 Reports on October 3 and October 12 ties a single day record from September 26 of this year.

October 2018								
Sun	۱	Mon	Tue	Wed	Thu	Fri	Sat	
		1 307	2 338	3 343	4 314	5 303	6 281	
279	7	8 292	9 299	10 313	11 314	12 343	13 303	
301	14	15 296	16 320	17 304	18 306	19 298	20 293	
299	21)	22 290	23 297	24 317	25 308	26 299	27 308	
310	28	29 305	30 306	31 301				

From the Drought Monitor.

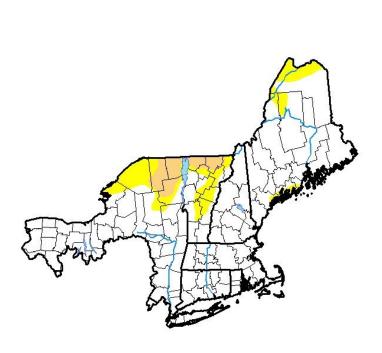
D0 is removed from the Cape and the Islands. Please continue to make Condition Monitoring Reports. One report a week is all that we seek.

Every drop counts and zeros do too!

U.S. Drought Monitor Northeast RFC

November 6, 2018

(Released Thursday, Nov. 8, 2018) Valid 7 a.m. EST



Drought Conditions (Percent Area) None D0 D1 D2 11.50 4.34 0.00 0.00 Current 84.16 0.00 Last Week 4.50 0.00 77 49 17.80 0.22 0.00 10-30-2018 3 Month s Ago 52.80 30.79 16.41 0.00 0.00 0.00 08-07-2018 Start of Calendar Year 01-02-2018 88.74 11.26 0.00 0.00 0.00 0.00 Start of 8,70 Water Year 58.29 31.22 1.78 0.00 0.00 09-25-2018 One Year Ago 11-07-2017 89.11 10.89 0.00 0.00 0.00 0.00

Intensity:



D3 Extreme Drought D1 Moderate 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 Simeral Western Regional Climate Center



For a viewing explanation on the Drought Monitor, the CoCoRaHS animated video is on YouTube.

<u>Wrap up</u>

Thanksgiving is a unique holiday, a day in which we pause to give thanks.

Thank you for your volunteer participation in our citizen science network. We celebrated 20 years as a network. Rhode Island marked its 10th year in our network, and Massachusetts and Connecticut will mark their 10th year next year.

Growth is encouraging to see. Not only in observers and reports, but those that report for every day, zeros and non-zeros alike. This network was founded after a Significant Weather event, and it is encouraging and heartwarming to see after the numerous significant events we've had these past 12 months, that you remember that we do more than just measure and report once a day, that we can and often do, call attention to what is occurring here and now.

It seems simple. One small measurement to make. And time and time again we see that it all has one giant impact upon the millions that depend upon water.

When it's dark, cold and blowing sideways, it's not so simple. And those efforts are appreciated as well. You are the Rulers of the Snow.

Thank you for making our part of the network the success that it is.

The staff at Headquarters would like to express their thanks, at this time of the year, to the observers who reported from October 2017 to September 2018. Login in to your account on the website and access <u>My Account</u>. Towards the upper right, within your 2018 Water Year, click on the link for Certificate. That action will download a pdf file containing your Certificate of Appreciation, where you can view or print it. Please pass on your feedback about this Certificate to the team at Headquarters at info@cocorahs.org

Every one of our monthly newsletters concludes with a word of thanks and this season of Thanksgiving will conclude in the same way. Thank you for all that you do for CoCoRaHS, whether in the past, present and in the days to come.

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