Community Collaborative Rain, Hail & Snow Network



May 2019

Did anyone get 3 days in a row with zeros? Did anyone get three days of sunshine? April showers came and they stayed with us, giving us a month with above average precipitation, record reporting, and a record number of days with precipitation. The reporting results are stunning and amazing. You should all be proud of your efforts.

We are nearing 10,000 Daily Reports for a month. How exciting! You are all playing an important part in our growth and involvement in our network.

We start this issue with the Grand List. Then on to Observer Tips. The birds are back in town, so that spells doom for a clean rain gauge. Sneak in a keepsake, noting our wet month of April. More mentioned about Condition Monitoring Reports.

The Observer of the Month article started around the New Year's timeframe. It's accurate to say that it's been a work in progress all year long. Hopefully, it won't take the rest of the year for you to read it. But do take in this journey with a rain gauge that has spanned more than the 10 years CoCoRaHS has been in our locale, way more than 10 years.

Plenty about your record-breaking reports too. 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.

2000 Daily Reports

MA-BR-16 Somerset 0.4 SSE

1000 Daily Reports

MA-BA-50	Falmouth 5.4 NNE
CT-LT-15	Colebrook 1.0 NE
CT-NL-10	Norwich 2.5 NNE
RI-WS-14	Kingston 5.5 W
CT-WN-10	South Windham 1.3 NNE

Observer Tips

Be a Hero! Report your Zeros! The rain filled month of April is behind us. Sunshine and days of zeros are ahead of us. We marvel at your reporting when the rains come. We want to marvel at your reporting when the zeros come.

Zeros are as valuable as precipitation is. Zeros are your validation that no precipitation fell on your station for that day. Zeros keep your reporting record complete. If you got into the habit of reporting precipitation every day in April, keep that habit going forward through the days of zeros.

Be a hero! Report your zeros!

Significant Weather Reports: As the days get longer, the storms get stronger. Should one of those strong storms pass over your station, and drop 1"+ rain in 1 hour or less, keep track of the start and stop times, wait until you can safely do so, measure and fill out a Significant Weather Report, from the website, in real time. That Significant Weather Report can and does find its way to your local NWS Forecast Office, in a minute's time, sounding an alarm on a forecaster's screen.

CoCoRaHS got its start over 20 years ago from a Significant Weather event. One of the provisions of our network is that we can sound an alarm if significant weather has occurred recently. One observer can, and often does, make a difference with life and property saving warnings or a validation of radar estimates.

Clean Gauge: Springtime. Warm air with some moisture. Birds have returned north. All of the ingredients to get the gauge dirty. A quick spray of the garden hose can help when the birds spend time on the funnel. When a small amount of dirt or grime develops on the bottom of the inner cylinder, it's time for the sink, liquid soap, a small sponge and a long handled wooden spoon. Nothing metal. Nothing abrasive that can scratch the plastic gauge.

A clean gauge, a clean inner cylinder, is easier to read.

Comments: With all of your reports, the Daily Reports, Significant Weather Reports, Condition Monitoring Reports, the typewritten word is often more valuable than the reported value.

With many of your reports, you can verify and clarify your reported value, add a narrative to the event, with your words.

Often times, the reported value jumps off the page as being completely different than surrounding areas, and your words can verify and clarify your reported value.

Put the ground truth into your words. Please make a Comment with reports of precipitation that verify and clarify your report.

Change of Address: If you are on the move, moving across town, relocating elsewhere, please let a Coordinator know, so that we can close your existing station, and encourage you to keep reporting at your new location.

Same goes for a change of email address. If you are changing email providers, moving from one account to the other, also let us know so that we can send our messages to your new email address.

Anyone not getting Nolan's newsletters, "The Catch", do let us know that as well. Your email box should not be quiet ... for long.

Rainy Days in April 2019

From NWS Eastern Region, a chart from our area's and surrounding area's climate sites, showing how many rainy days we did have in April 2019. A keepsake.



Record Number of Days with Measurable (≥0.01") Precipitation

Northeastern US - April 2019

	Number of April 2019 Days ≥0.01"	Previous Record (most recent year)
Boston MA	21 days*	19 days in 1912
Bridgeport CT	19 days	16 days in 2002
Concord NH	19 days	17 days in 1878
Hartford CT – BDL	21 days*	18 days in 1929
Islip NY	22 days*	15 days in 1986
Manchester NH	18 days	17 days in 1936
Newark NJ	16 days	16 days in 2011
New York City – Central Park	18 days	16 days in 1964
New York City – JFK	19 days*	18 days in 2004
New York City – LGA	17 days	16 days in 1964
Poughkeepsie NY	17 days	17 days in 1936
Providence RI	21 days	17 days in 1953
Worcester MA	21 days*tie	19 days in 1929

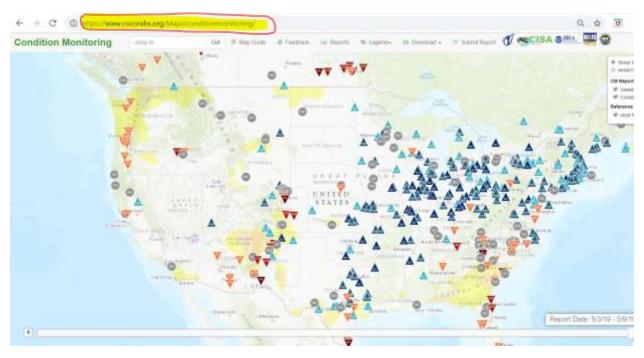
^{*} New Record number of days for any month of the year

Condition Monitoring Reports

A topic that gets mentioned periodically, each time with a different approach. We've tried narrative words. We've tried poetry. Message of the Day occurred earlier, and the map of reports came alive.

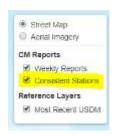
From the website, click on "Maps". Scroll down past "Classic" and "New" and click on "Condition Monitoring"

There is a map of reports.



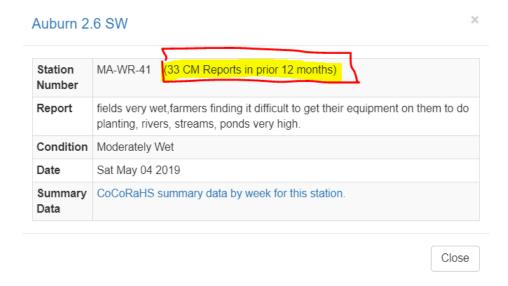
Your Condition Monitoring Reports makes this representation. And different than the precipitation maps, there is a scroll bar on the bottom of the map, to go back in time and look at previous maps.

Anyone can and do, look at this map, and tell right away where the wet and dry spots are. Then use the scroll bar, like a time machine, to go back in time and see the change in conditions.



Try zooming in and zooming out. Try turning on and off this check box for "Consistent Stations."

Click on any of the symbols of stations reporting and see if you can get more information to appear.



Develop a reputation of being a Consistent Station. We help define the Conditions, wet, dry and everything in between.

Submit a Condition Monitoring Report. Agreed that it's different than reading a gauge and submitting a Daily Precipitation Report. Look around your surroundings. Put some words to it. State what is happening as a result of the precipitation, not making an emphasis on what precipitation you did or did not get. Before submitting a new report, try not to peek. Make your own judgement. Then look to see how your report fits in.

One report a week is all that we seek. A video on <u>YouTube</u> as a guide, and all of the other existing reports that are available to read.

Observer of the Month – CT-FR-9

How do they measure rain to the nearest 0.01"? That question confounded me as a youngster, reading the local newspaper each day. What ruler can make that measurement? The NOAA Weather Radio was the only instantaneous source of weather forecasts, observations, and climate statistics. An Open House for the Weather Service at Rockefeller Center interested me, so I went to midtown Manhattan to see and learn.



KENSICO DAM - NYC DEL

Growing up in Valhalla NY, with the majestic stone structure of the Kensico Dam in view each day, I learned the value of drinking water, and what infrastructure is in place to support over 9 million people in the New York City area, still consuming 1 billion gallons of drinking water each and every day.

It was called a Taylor ClearVu rain gauge, a 4" diameter clear plastic rain gauge with a funnel and inner and outer cylinder that was outside on our picnic table, not mounted to a post. The time was the early 1980's and ah, hah, now I know how they measure rain to the nearest 0.01" and measure and obtain the liquid equivalent of snow. That funnel does the trick.

Year 1985 was my first brush with drought conditions. A dry summer led to water restrictions. Rain water harvesting from the downspouts outsmarted some of the envious neighbors. Then, as it does now, it surprises me how only a few months of dry conditions can lead our local government to restrict water consumption. Our tolerances for lack of rainfall, a dry spell, a short-term drought, are very small.

Move to Brookfield CT in the early 1990's and there is no majestic stone structure nearby holding back drinking water. There will be no local government water restrictions here. You're on your own. Quick! Get that 4" diameter rain gauge back and start writing down the measurements.

Start seeing how the rain and the lack of rain affects the land, and fortunately, never have run out of well water.

The reliance on NOAA Weather Radio gave way to the Weather Channel on cable TV. Dial up internet gave way to a broadband connection. The NWS has a website to get forecasts with a click of a button. The Year is 2009, a rainy month of June, and the web headline reads something about volunteers needed for CoCoRaHS.

Click on the headline and just be amazed. Look at the pictures and be stunned. It can't be so. It is the *same rain gauge*. Someone has figured it out. Someone has harnessed the connection of the internet, built a website, entry forms, maps, and included all of these other states, with these deceptively simple 4" diameter rain gauges.



2.51" EARLY NOVEMBER RAIN IN 2018

Join CoCoRaHS and do what I've been doing for some time, measure and record precipitation from the 4" diameter rain gauge that I have had for years, buying a new one when the old one had seen enough action. This time, we're not writing the numbers on a piece of paper stuck to the side of the fridge. This time, it's part of a nationwide network. This time, it matters.

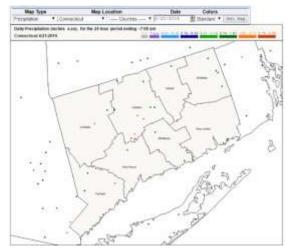
A childlike giddiness came over me with each report to see what color dot on the map I got. In Year 2010, that all changed with the first ever publication of Water Year Summaries. This network is serious! The detail is precise, the graphs and tables are numerous, and the takeaway

for me was this: Don't miss any days.

Don't miss any days, even if you have no electrical power, and have no mobile app. In late August 2011, when Irene blew by and dumped over 5"

of rain, first, make your measurement, then turn on the portable generator, power up the house and the wi-fi connection, and submit the report!

Newsletters came and went. Nolan's Newsletters remain a source of learning more about this craft of being an observer, a source of motivation to get out of bed by 7am each day, as well as a change of perspective to what others in the network, experience. The Farm Reports remain a source of simple aspects of farm life, of dust and mud, hay and horses, manure, worms, irrigation ditches, dogs and cats, hens and foxes.



The growth in Connecticut was lacking. As I looked at the map of dots, other states were lighting it up more so than Connecticut.

Vacation time in July 2015 was a time to take a step up. It was a 6 page, first shot, at a Monthly Newsletter. A Monthly Newsletter? I was told that Monthly Newsletters have been attempted before and that often run out MAP FROM APRIL 21, 2015. 28 REPORTS FROM CT. of steam. Have I run out steam yet? I

seem to be writing 2 Newsletters each month!

With the State Coordinator from Illinois as an example of Monthly Newsletter writing, I knew there was enough in a 12-month lap around the sun to have something to write about each month. Whether it was the Map of the Month, the various charts and tables, connecting stations through your reported totals, the observing tips to pass on, an attempt to compress years of experiences within paragraphs of words and a few screen snips, the different places that your reports end up, would keep the Monthly Newsletter writing going.

This Newsletter was never intended to be about to me, although this article is intended to be the sole exception. This Newsletter is to be about you and your contributions to the network, your milestones, your totals, your station, and your experiences. Should anyone in our three states want to

step up and share their background and experiences, this Observer of the Month section is for YOU!



THE FLASH FLOOD EVENT THAT STARTED COCORAHS

My background is largely non-weather or climate related. Educated as a Computer Scientist with a minor in Mathematics. Over 30 years in the computer profession, solving business problems in private industry. Learned how to type on a typewriter, learned how to program computers before the personal computer came to be, and quite comfortable in taking a pile of records, raw data, like your Daily Reports or Station totals and turning them into usable information, like all of the calendars and tables that appears in our Newsletter. A caretaker of an acre of land, with all its wet and dry spots through the years. Some public speaking and academic tutoring. Sounds

like the perfect resume of a State Coordinator that writes a Monthly Newsletter, doesn't it? Honored as I was then as I am today to be one of our network's most unlikely of all State Coordinators.

The growth in observers has been good to see, and we still have more growing to go. When compared to other parts of the network, not only is the growth in observers stands out, but your reporting is one of the strongest in the network also. This Monthly Newsletter effort does drive reporting, and reporting all days, and reporting in multiple dimensions, all

Map from April 23, 2019. 116 REPORTS FROM CT. our network can do.

year round. As we keep growing, this Monthly Newsletter will keep going.

No longer is Connecticut, or its neighboring states, lagging near the very bottom of this network. No longer do we rely heavily upon precipitation totals from the area airports. None of us lives at the airport. The reporting continues to grow in numbers and in multiple dimensions. So many of you report every day. Thank you for showing so many others what



1.6" OF SNOW NEVER LOOKED SO GOOD! FOCUS ON THE GAUGE CATCH!!!

Each day, we have an opportunity. We have an opportunity to get outdoors, to see the changes in the seasons, temperatures, sun angle, humidity, depth or absence of snow, or simply feel the land with the soles of our feet or footware. To get outside and stretch our arms and our heads to the sky. Then, we can walk over to a standard rain gauge and make an observation, adopt an observer's mentality for a brief period of time, measure the depth of snow on the ground or liquid in the gauge, sometimes both. One small measurement to make. The colder or windier the outdoors is, the quicker all of this occurs!

Bring it all inside and take your pick: A web site or a mobile app. Fill in as many values as you can. Make a Comment to summarize and verify your findings.

Check your report for mistakes. Accuracy matters. And press "Submit" at the end. The childlike giddiness of years ago, of seeing a colored dot on a map, is replaced by counting the places that one report will end up. In the end, zeros and non-zeros alike will define this climate. Don't miss any days.

Not a one-trick pony is this network. Significant Weather Reports and Hail Reports sound a workstation alarm at a NWS Forecast Office in a minute's time, calling attention to what is happening in real time. The hail database is one-of-a-kind. Snow reports find their way to the National Snow Database. Morning reports of precipitation and snow fall find their way to the National Weather Service Weather and River Forecast Offices. Our Condition Monitoring Reports have their own map of colored triangles and circles, and those words can find their way to the Drought Reporter.

From the Front Range of Colorado, this citizen-science project has now spread across our entire nation, Canada and The Bahamas. A remarkable achievement like none other. A network that started as dial-up internet gave way to a broadband connection and now accommodates mobile devices. A network that has expanded and sustained itself for over 20 years through the all states and provinces of North America. In conjunction

with the NWS CoOp program, we stand on the threshold of creating the best water resource monitoring network of all time. A cleverly constructed network that I best describe and draw an historical parallel on Patriots Day. Citizens like us have a say about science.

Great accomplishments happen in pairs. The exchanges have been pleasant, the planning has been detailed, the ideas go back and forth, and the good-natured banter between Joe and I has been unique. Two uncommon people bounded by a common interest in precipitation, a commitment to grow a network of volunteer observers, a common direction with a 4" diameter rain gauge, tracing our growing up years to Westchester

County NY, while rooting for New York City sports teams, and visiting the Forecast Office when it was in Rockefeller Center well over 25 years ago. This ongoing construction and sustainment of a community of volunteer observers within our small part of the network, does not occur without a certain amount of help. Thank you, Joe.

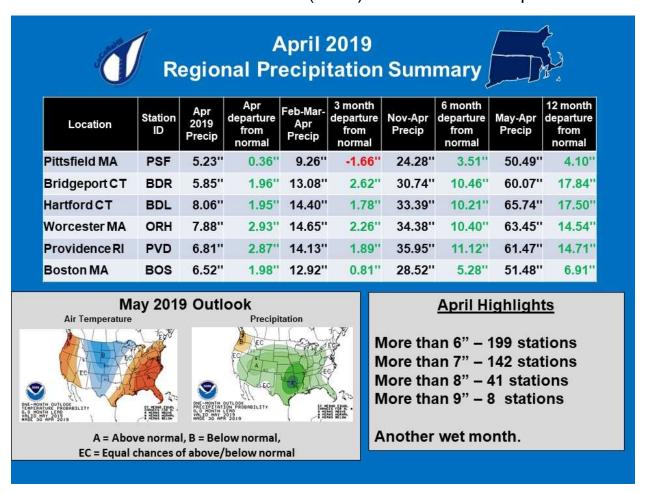


DELLICARPINI (L) SPIES (R)

Drinking water is important, the most important aspect in sustaining a population anywhere on this planet, whether it comes from an underground well or aquifer, a nearby lake or river, behind a majestic stone structure, or a concrete or earthen structure. How fortunate are we to be able to measure and report what sustains that drinking water, to have a say about science, to define this climate, to sound an alarm, to be a citizen scientist, to be an observer for CoCoRaHS, to have a standard rain gauge that can measure precipitation to the nearest 0.01".

Detail and Summary for April 2019

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



April was a true CoCoRaHS month: Rain, Hail, and Snow. The snow came during the evening of the 5th and fell in the Connecticut River areas north of Hartford. The Hail came the 26th and 27th of the month. And the rain kept coming all throughout the month, barely giving us 9 days of zeros.

Bare ground came to MA-HS-7 on April 15th. Well done for a season measuring snow depth and total SWE for so many days.

Rain came in the middle of the month, with some rain on Patriots Day. Another 1"+ came for the 23rd for the eastern areas around Boston. The main event came at the 27th, noted by the map on the next page.

Take in the next section with appreciation of your efforts.

From your reports for April 2019

Observers reporting 382

Reported all 30 days 199

Completed by Multi-Day Reports 61

Missing 1 or 2 reports 47

Daily Reports 9769

Zero Reports 2822

Non-Zero Reports 6947

Daily Comments 1929

Multi-Day Reports 207

Condition Monitoring Reports 28

Significant Weather Reports 11

Hail Reports 4

Snowfall Reports 4445

Snow Depth Reports 3042

Highest Daily Report 2.82" in Weymouth MA (MA-NF-39) reported on 4/23

3 Day Precipitation
Ending 8AM April 28, 2019

2ero
0.01
0.1
0.25
0.75
1.1
1.5
2
2.5
3
5
7+ inches

Southern New England CoCoRaHS

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May 2019 Newsletter

Welcome to 12 stations, that have never made this list before, especially to our new observers from Colrain MA, in the North River watershed of the Deerfield River basin.

Astounding! 258 stations listed. A new single month record.

Keep this habit going when the sunny days return with the days of zeros. Be a hero! Report those zeros! With an emphasis on reporting zeros, along with precipitation, this list can stay this long for many more months to come. We encourage more to get their station listed for covering all days.

Generosity was given to several stations that overlapped the end of March with a Multi-Day Report, but not those that overlapped the beginning of May with a Multi-Day Report.

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

		Station		
Watershed	Watershed Name	Number	Station Name	Precip
01070004	Nashua			
0107000401	North Nashua River	MA-WR-44	Westminster 0.6 WSW	7.26"
0107000401	North Nashua River	MA-WR-8	Fitchburg 1.6 SSW	4.70''
0107000401	North Nashua River	MA-WR-52	Fitchburg 2.3 N	6.29"
0107000401	North Nashua River	MA-WR-22	Fitchburg 2.0 NNE	6.89"
0107000402	Headwaters Nashua River	MA-WR-64	Sterling 3.7 WNW	8.19"
0107000402	Headwaters Nashua River	MA-WR-56	Sterling 4.3 NW	8.06"
0107000402	Headwaters Nashua River	MA-MD-25	Ayer 0.1 SW	6.28''
0107000403	Squannacook River	MA-MD-47	West Townsend 0.5 W	6.59"
01070005	Concord			
0107000501	Sudbury River	MA-MD-100	Sudbury 1.6 N	7.18"
0107000501	Sudbury River	MA-MD-88	Wayland 2.1 SSE	7.60''
0107000502	Concord River	MA-WR-28	Berlin 1.3 WSW	7.74"
0107000502	Concord River	MA-WR-18	Northborough 0.6 SSE	6.95"
0107000502	Concord River	MA-WR-42	Northborough 2.3 N	7.31"
0107000502	Concord River	MA-MD-115	Hudson 1.4 NW	7.31"
0107000502	Concord River	MA-MD-12	Acton 1.3 SW	7.35"
0107000502	Concord River	MA-MD-51	Maynard 0.7 ESE	7.49"
0107000502	Concord River	MA-MD-53	Acton 4.0 ENE	7.11"
0107000502	Concord River	MA-MD-62	Chelmsford 1.2 E	6.35"

01070006	Merrimack River			
0107000612	Stony Brook - Merrimack River	MA-MD-104	Littleton 2.8 NNW	6.26"
0107000612	Stony Brook - Merrimack River	MA-MD-105	Littleton 0.9 WSW	7.00"
0107000613	Shawsheen River	MA-MD-52	Lexington 0.6 SW	6.35"
0107000613	Shawsheen River	MA-MD-96	Lexington 0.3 NE	5.77"
0107000613	Shawsheen River	MA-ES-48	Andover 0.6 E	6.21"
0107000614	Powwow River - Merrimack River	MA-ES-20	Haverhill 0.7 N	5.79"
0107000614	Powwow River - Merrimack River	MA-ES-4	Groveland 0.5 WSW	5.53"
0107000614	Powwow River - Merrimack River	MA-ES-55	Groveland 0.8 S	5.95"
01080201	Middle Connecticut			
0108020106	Manhan River - Connecticut River	MA-HS-8	Williamsburg 1.2 WSW	7.33"
0108020106	Manhan River - Connecticut River	MA-HS-26	Easthampton 0.5 SW	7.68"
0108020106	Manhan River - Connecticut River	MA-FR-12	Sunderland 1.3 SE	8.19"
0108020107	Batchelor Brook - Connecticut River	MA-HD-22	Holyoke 1.0 ENE	7.00"
0108020107	Batchelor Brook - Connecticut River	MA-HD-13	Springfield 4.1 W	8.24"
0108020107	Batchelor Brook - Connecticut River	MA-HD-23	Springfield 2.5 WNW	7.95"
0108020107	Batchelor Brook - Connecticut River	MA-HS-30	South Hadley 2.1 SSE	7.53"
01080202	Miller			
0108020201	Upper Millers River	NH-CH-20	Rindge 3.2 ESE	7.34"
01080203	Deerfield			
0108020303	North River	MA-FR-31	Colrain 3.7 WNW	5.96"
0108020303	North River	MA-FR-29	Colrain 0.8 WNW	5.61"
0108020305	Lower Deerfield River	MA-FR-17	Buckland 1.8 ESE	6.09"
0108020305	Lower Deerfield River	MA-FR-13	Conway 2.9 NW	6.26"
0108020305	Lower Deerfield River	MA-FR-25	Conway 2.7 NW	5.61"
0108020305	Lower Deerfield River	MA-FR-10	Conway 0.9 SW	6.87"
01080204	Chicopee			
0108020402	Ware River	MA-WR-54	Barre 1.4 NNE	8.54"
0108020403	Quaboag River	MA-HD-26	Brimfield 3.6 NW	9.69"
0108020403	Quaboag River	MA-WR-75	Warren 2.4 WSW	9.10''
0108020403	Quaboag River	MA-WR-63	Rutland 3.1 SW	8.13"
0108020404	Chicopee River	MA-HD-25	Ludlow 2.3 SW	8.48"
01080205	Lower Connecticut			
0108020501	Mill River - Connecticut River	CT-HR-82	Suffield 0.5 NNE	7.96''
0108020501	Mill River - Connecticut River	CT-HR-5	Enfield 1.5 SE	9.15"
0108020502	Scantic River	CT-TL-15	Central Somers 0.3 N	9.49''
0108020503	Park River	CT-HR-39	Farmington 1.6 SW	8.07''
0108020503	Park River	CT-HR-49	West Hartford 1.1 W	7.85''
0108020503	Park River	CT-HR-11	West Hartford 2.7 SSE	7.94''
0108020504	Hockanum River	CT-HR-52	Central Manchester 0.8 N	7.75''
0108020504	Hockanum River	CT-TL-19	Vernon 2.8 N	8.09"

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0108020505	Roaring Brook - Connecticut River	CT-HR-6	Wethersfield 1.2 WSW	7.76''
0108020505	Roaring Brook - Connecticut River	CT-HR-45	Wethersfield 1.9 SSW	7.59''
0108020505	Roaring Brook - Connecticut River	CT-HR-68	Rocky Hill 1.3 E	7.75"
0108020505	Roaring Brook - Connecticut River	CT-HR-22	East Hartford 1.3 E	7.47"
0108020505	Roaring Brook - Connecticut River	CT-HR-7	Central Manchester 2.7 SW	8.56''
0108020506	Mattabesset River	CT-HR-15	Southington 3.0 E	8.52"
0108020506	Mattabesset River	CT-HR-80	Kensington 0.7 WSW	8.32"
0108020506	Mattabesset River	CT-HR-65	Newington 1.9 SSW	8.01"
0108020506	Mattabesset River	CT-MD-25	Middlefield 0.6 SE	7.92''
0108020506	Mattabesset River	CT-MD-24	Durham 1.2 W	7.73"
0108020507	Higganum Creek - Connecticut River	CT-MD-2	Portland 0.9 S	7.17''
0108020507	Higganum Creek - Connecticut River	CT-MD-23	Higganum 0.7 N	7.41"
0108020507	Higganum Creek - Connecticut River	CT-MD-26	Higganum 0.8 NE	7.00''
0108020508	Salmon River	CT-TL-29	Hebron 1.6 SW	7.54"
0108020509	Eightmile River - Connecticut River	CT-MD-19	Ivoryton 0.9 WSW	7.37"
0108020509	Eightmile River-Connecticut River	CT-MD-18	Essex Village 0.9 S	8.67"
01080206	Westfield			
0108020601	Headwaters Westfield River	MA-HS-7	Plainfield 2.2 SW	6.31"
0108020601	Headwaters Westfield River	MA-HS-14	Plainfield 2.4 ESE	6.18''
01080207	Farmington			
0108020701	Still River	CT-LT-15	Colebrook 1.0 NE	7.45"
0108020702	West Branch Farmington River	CT-LT-18	New Hartford Center 1.5 N	7.79"
0108020704	Headwaters Farmington River	CT-LT-9	New Hartford Center 3.2 SW	7.99''
0108020704	Headwaters Farmington River	CT-HR-70	Canton 1.5 W	7.75"
0108020704	Headwaters Farmington River	CT-HR-71	Bristol 2.7 NNE	8.00''
0108020704	Headwaters Farmington River	CT-HR-28	North Canton 0.8 SSW	8.43"
0108020705	Salmon Brook	CT-HR-60	North Granby 0.7 N	8.36''
0108020705	Salmon Brook	CT-HR-8	North Granby 1.3 ENE	8.43"
01090001	Charles			
0109000101	Plum Island Sound - Frontal Atlantic Ocean	MA-ES-46	Georgetown 1.3 ENE	6.03"
0109000101	Plum Island Sound - Frontal Atlantic Ocean	MA-ES-24	Newburyport 0.8 SW	5.50''
0109000102	Ipswich River	MA-MD-85	Wilmington 2.2 WNW	6.26''
0109000102	Ipswich River	MA-MD-125	Tewksbury 3.6 SSE	6.07''
0109000102	Ipswich River	MA-MD-45	Wilmington 1.5 NE	6.19"
0109000102	Ipswich River	MA-ES-58	Middleton 1.4 SSW	6.40''
0109000102	Ipswich River	MA-ES-12	Boxford 2.4 S	6.03"
0109000103	Essex River - Frontal Atlantic Ocean	MA-ES-41	Danvers 0.8 ESE	5.98''
0109000103	Essex River - Frontal Atlantic Ocean	MA-ES-54	Gloucester 2.1 NW	5.25"
0109000103	Essex River - Frontal Atlantic Ocean	MA-ES-25	Gloucester 4.3 N	5.22"
0109000103	Essex River - Frontal Atlantic Ocean	MA-ES-22	Rockport 1.0 E	4.43"
0109000104	Saugus River - Frontal Broad Sound	MA-MD-81	Wakefield 0.5 NNW	5.79"

0109000104	Saugus River - Frontal Broad Sound	MA-MD-126	Melrose 0.5 NE	6.07''
0109000104	Saugus River - Frontal Broad Sound	MA-ES-8	Marblehead 0.8 SW	7.14''
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-123	Lexington 1.3 SE	6.94''
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-7	Winchester 0.7 SE	6.48''
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-44	Medford 1.2 W	6.37''
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-11	Cambridge 0.9 NNW	6.96''
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-152	Medford 0.6 W	6.77"
0109000105	Mystic River - Frontal Boston Harbor	MA-SF-10	Chelsea 0.8 N	7.19''
0109000106	Upper Charles River	MA-WR-1	Milford 2.3 NNW	7.76''
0109000106	Upper Charles River	MA-MD-106	Holliston 2.4 W	7.94''
0109000106	Upper Charles River	MA-MD-55	Holliston 0.7 W	7.79"
0109000106	Upper Charles River	MA-MD-42	Holliston 0.8 S	7.38"
0109000106	Upper Charles River	MA-NF-11	Millis 2.0 SW	7.86"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-120	Natick 1.9 NNE	7.59"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-80	Lincoln 1.5 SW	7.28"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-NF-35	Wellesley 0.1 W	6.91"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-119	Watertown 1.1 W	7.12"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-151	Cambridge 0.9 SSE	6.37"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-134	Somerville 0.5 SSE	6.94"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-SF-1	Boston 0.5 WSW	5.74"
0109000108	Neponset River - Frontal Boston Harbor	MA-NF-1	Norwood 1.3 NW	7.42"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-NF-32	Quincy 1.8 WSW	7.49"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-NF-39	Weymouth 2.3 N	7.33"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-PL-36	Hingham 0.8 ESE	7.42"
01090002	Cape Cod			
0109000201	North River - Frontal Massachusetts Bay	MA-PL-43	Hanson 0.7 NW	7.55"
0109000201	North River - Frontal Massachusetts Bay	MA-PL-5	Kingston 3.3 WNW	7.30"
0109000201	North River - Frontal Massachusetts Bay	MA-PL-48	Marshfield 1.5 NNW	6.94"
0109000201	North River - Frontal Massachusetts Bay	MA-PL-47	Plymouth 1.1 NNW	7.26"
0109000201	North River - Frontal Massachusetts Bay	MA-PL-49	Plymouth 6.3 SE	5.77"
0109000201	North River - Frontal Massachusetts Bay	MA-PL-2	Sagamore Beach 1.0 NW	4.93"
0109000202	Cape Cod	MA-BA-8	Falmouth 1.8 WSW	4.36"
0109000202	Cape Cod	MA-BA-2	Falmouth 3.1 NNW	4.76"
0109000202	Cape Cod	MA-BA-57	Falmouth 5.7 N	4.38"
0109000202	Cape Cod	MA-BA-50	Falmouth 5.4 NNE	4.34"
0109000202	Cape Cod	MA-BA-19	East Falmouth 0.7 NW	5.07"
0109000202	Cape Cod	MA-BA-3	Falmouth 3.0 E	5.19"
0109000202	Cape Cod	MA-BA-11	East Falmouth 1.4 ESE	5.31"
0109000202	Cape Cod	MA-BA-18	Waquoit 0.6 SSW	5.61"
0109000202	Cape Cod	MA-BA-47	Mashpee 2.4 WSW	5.08"
0109000202	Cape Cod	MA-BA-45	Sandwich 0.9 NNE	4.65"

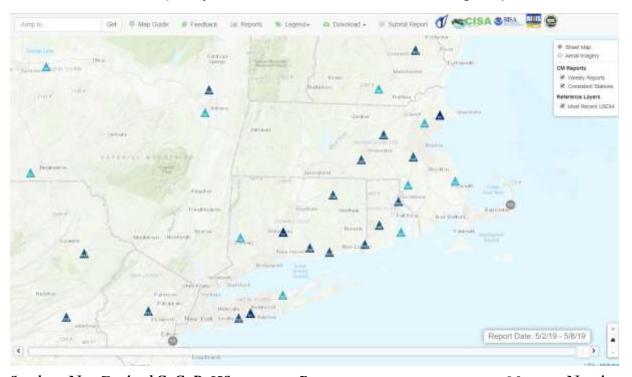
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0109000202	Cape Cod	MA-BA-79	Mashpee 0.8 SSW	5.85"
0109000202	Cape Cod	MA-BA-78	Mashpee 4.6 S	5.15"
0109000202	Cape Cod	MA-BA-10	East Sandwich 2.3 SE	5.28''
0109000202	Cape Cod	MA-BA-59	Barnstable 3.6 W	5.95"
0109000202	Cape Cod	MA-BA-76	Barnstable 0.7 NE	5.13"
0109000202	Cape Cod	MA-BA-22	Yarmouth 0.9 NNW	5.53"
0109000202	Cape Cod	MA-BA-72	Yarmouth 2.0 S	5.34"
0109000202	Cape Cod	MA-BA-52	Truro 0.8 E	5.72"
0109000202	Cape Cod	MA-BA-27	Wellfleet 0.7 NW	5.03"
0109000202	Cape Cod	MA-BA-36	Harwich 2.6 ENE	6.88''
0109000202	Cape Cod	MA-BA-37	Orleans 0.8 W	5.23"
0109000202	Cape Cod	MA-BA-42	Orleans 1.8 S	5.70"
0109000202	Cape Cod	MA-BA-51	Orleans 3.0 S	6.17''
0109000202	Cape Cod	MA-BA-30	Eastham 0.6 SW	5.20"
0109000202	Cape Cod	MA-BA-43	Chatham 0.4 WSW	6.24"
0109000203	Mattapoisett River - Frontal Buzzards Bay	MA-PL-19	Rochester 1.2 NNW	5.50"
0109000204	Paskamanset River - Frontal Buzzards Bay	MA-BR-14	Dartmouth 2.5 SSW	5.30"
0109000204	Paskamanset River - Frontal Buzzards Bay	MA-BR-52	New Bedford 4.3 N	5.42"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-5	Little Compton 1.7 NW	5.61"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-7	Little Compton 0.6 E	5.56"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	MA-BR-37	Westport 0.9 ESE	5.64"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-5	West Tisbury 2.9 N	5.64"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-2	Vineyard Haven 0.8 WSW	5.01"
0109000207	Nantucket Island	MA-NT-2	Nantucket 2.2 E	5.97"
01090003	Blackstone			
0109000301	Upper Blackstone River	MA-WR-41	Auburn 2.6 SW	8.49"
0109000301	Upper Blackstone River	MA-WR-43	Leicester 2.4 ESE	7.57"
0109000301	Upper Blackstone River	MA-WR-70	Grafton 1.5 W	7.97"
0109000302	Lower Blackstone River	RI-PR-50	Harrisville 1.2 SSE	8.39"
0109000302	Lower Blackstone River	RI-PR-28	North Smithfield 0.7 SE	8.24"
0109000302	Lower Blackstone River	RI-PR-45	Manville 0.4 WSW	8.33"
0109000302	Lower Blackstone River	MA-NF-26	Bellingham 2.4 S	8.41"
0109000302	Lower Blackstone River	RI-PR-55	Cumberland Hill 3.6 NNE	7.27"
01090004	Narragansett			
0109000401	Upper Taunton River	MA-BR-30	Taunton 3.9 N	7.20''
0109000401	Upper Taunton River	MA-PL-22	East Bridgewater 0.3 WSW	7.17"
0109000401	Upper Taunton River	MA-PL-15	Abington 1.2 NNE	6.37"
0109000401	Upper Taunton River	MA-PL-23	Pembroke 2.8 SW	6.87"
0109000402	Middle Taunton River	MA-PL-31	Bridgewater 1.8 SE	7.59"
0109000402	Middle Taunton River	MA-PL-17	Plympton 0.9 NNE	5.88"
0109000403	Threemile River	MA-NF-19	Foxborough 1.8 SSW	8.13"

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0109000404 Ten Mile River MA-BR-23 Attleboro 0.9 ENE 6.89" 0109000405 Woonnasquatucket River-Moshassuck River RI-PR-31 Greenville 0.7 NNW 7.72" 0109000405 Woonnasquatucket River-Moshassuck River RI-PR-60 North Providence 0.9 E 7.98" 0109000405 Woonnasquatucket River-Moshassuck River RI-PR-60 North Providence 0.9 E 7.98" 0109000406 Pawtuxet River RI-PR-53 Providence 1.7 N 6.38" 0109000406 Pawtuxet River RI-PR-57 Cranston 1.2 SSE 7.89" 0109000406 Pawtuxet River RI-PR-17 Cranston 4.1 E 7.97" 0109000408 Pawtuxet River RI-PR-44 Cranston 4.2 ENE 7.28" 0109000408 Lower Taunton River - Frontal Mount Hope Bay MA-BR-3 Norton 1.8 NNE 7.41" 0109000409 Narragansett Bay RI-KN-17 East Greenwich 1.2 NNE 8.11" 0109000409 Narragansett Bay RI-WS-31 Kingston 7.5 NNE 7.32" 0109000409 Narragansett Bay RI-WS-31 Kingston 7.5 NNE	0109000403	Threemile River	MA-BR-55	NWS Boston/Norton 2.5 ESE	7.14"
0109000405 Wonnasquatucket River-Moshassuck River RI-PR-31 Greenville 0.7 NNW 7.72" 0109000405 Woonasquatucket River-Moshassuck River RI-PR-60 North Smithfield 0.6 S 8.34" 0109000405 Woonasquatucket River-Moshassuck River RI-PR-63 Proth Providence 0.9 E 7.88" 0109000405 Pawtuxet River RI-PR-53 Providence 1.7 N 6.38" 0109000406 Pawtuxet River RI-PR-57 Crostnot 1.2 SSE 7.89" 0109000406 Pawtuxet River RI-PR-17 Cranston 1.2 SSE 7.89" 0109000406 Pawtuxet River RI-PR-17 Cranston 4.1 E 7.97" 0109000406 Pawtuxet River RI-PR-17 Cranston 4.2 ENE 7.28" 0109000408 Lower Taunton River - Frontal Mount Hope Bay MA-BR-3 Norton 1.8 NNE 7.41" 0109000409 Narragansett Bay RI-KN-17 East Greenwich 1.2 NNE 8.11" 0109000409 Narragansett Bay RI-KN-15 Warwick 4.3 SSW 7.55" 0109000409 Narragansett Bay RI-NW-18 Jamestown 0.3 SSE <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
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0109000406 Pawtuxet River		·			
0109000406 Pawtuxet River RI-PR-57 Cranston 1.2 SSE 7.89" 0109000406 Pawtuxet River RI-PR-17 Cranston 4.1 E 7.97" 0109000408 Pawtuxet River RI-PR-44 Cranston 4.2 ENE 7.28" 0109000408 Lower Taunton River - Frontal Mount Hope Bay MA-BR-3 Norton 1.8 NNE 7.41" 0109000408 Lower Taunton River - Frontal Mount Hope Bay MA-BR-8 Dighton 3.3 NNW 6.20" 0109000409 Narragansett Bay RI-KN-17 East Greenwich 1.2 NNE 8.11" 0109000409 Narragansett Bay RI-KN-15 Warwick 4.3 SSW 7.55" 0109000409 Narragansett Bay RI-KN-15 Warwick 4.3 SSW 7.55" 0109000409 Narragansett Bay RI-W-18 Jamestown 0.3 SSE 5.55" 0109000409 Narragansett Bay RI-NW-19 Portsmouth 2.3 S 4.97" 0109000409 Narragansett Bay RI-NW-19 Portsmouth 2.3 S 4.97" 0109000409 Narragansett Bay RI-NW-10 Portsmouth 2.3 S 4.97" 01090004					
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0109000408 Lower Taunton River - Frontal Mount Hope Bay MA-BR-58 Dighton 3.3 NNW 6.20" 0109000408 Lower Taunton River - Frontal Mount Hope Bay MA-BR-8 Dighton 1.1 WSW 6.99" 0109000409 Narragansett Bay RI-KN-17 East Greenwich 1.2 NNE 8.11" 0109000409 Narragansett Bay RI-KN-15 Warwick 4.3 SSW 7.55" 0109000409 Narragansett Bay RI-KN-2 East Greenwich 2.3 ESE 6.61" 0109000409 Narragansett Bay RI-NW-18 Jamestown 0.3 SSE 5.55" 0109000409 Narragansett Bay RI-NW-19 Portsmouth 2.3 S 5.55" 0109000409 Narragansett Bay RI-NW-19 Portsmouth 2.3 S 4.97" 0109000409 Narragansett Bay RI-NW-10 Portsmouth 1.3 S 5.90" 0109000409 Narragansett Bay RI-NW-11 Tiverton 0.8 SSW 5.65" 0109000409 Narragansett Bay RI-NW-10 Portsmouth 1.3 S 5.90" 0109000409 Narragansett Bay RI-NW-11 Tiverton 0.8 SSW 5.65"					
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0109000409 Narragansett Bay RI-KN-17 East Greenwich 1.2 NNE 8.11" 0109000409 Narragansett Bay RI-WS-31 Kingston 7.5 NNE 7.32" 0109000409 Narragansett Bay RI-KN-15 Warwick 4.3 SSW 7.55" 0109000409 Narragansett Bay RI-KN-2 East Greenwich 2.3 ESE 6.61" 0109000409 Narragansett Bay RI-NW-18 Jamestown 0.3 SSE 5.55" 0109000409 Narragansett Bay RI-NW-19 Portsmouth 2.3 S 4.97" 0109000409 Narragansett Bay RI-NW-19 Portsmouth 2.3 S 4.97" 0109000409 Narragansett Bay RI-NW-16 Portsmouth 1.3 S 5.90" 0109000409 Narragansett Bay RI-NW-16 Portsmouth 1.3 S 5.90" 0109000409 Narragansett Bay RI-NW-10 Portsmouth 1.3 S 5.90" 0109000409 Narragansett Bay RI-NW-11 Tiverton 0.8 SSW 5.65" 0109000409 Narragansett Bay RI-NW-20 Tiverton 0.8 SSW 5.65" 0109000501 Wood River	0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-58	Dighton 3.3 NNW	6.20''
0109000409 Narragansett Bay RI-WS-31 Kingston 7.5 NNE 7.32" 0109000409 Narragansett Bay RI-KN-15 Warwick 4.3 SSW 7.55" 0109000409 Narragansett Bay RI-KN-2 East Greenwich 2.3 ESE 6.61" 0109000409 Narragansett Bay RI-NW-18 Jamestown 0.3 SSE 5.55" 0109000409 Narragansett Bay RI-NW-19 Portsmouth 2.3 S 4.97" 0109000409 Narragansett Bay RI-NW-19 Portsmouth 1.3 S 5.90" 0109000409 Narragansett Bay RI-NW-16 Portsmouth 1.3 S 5.90" 0109000409 Narragansett Bay RI-NW-11 Tiverton 0.8 SSW 5.65" 0109000409 Narragansett Bay RI-NW-11 Tiverton 0.8 SSW 5.65" 0109000409 Narragansett Bay RI-NW-20 Tiverton 0.8 SSW 5.65" 010900050 Pawcatuck-Wood Tiverton 1.0 SSW 5.91" 010900050 Wood River RI-WS-1 Hope Valley 3.7 S 7.74" 0109000501 Wood River RI-WS-4 Richm	0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-8	Dighton 1.1 WSW	6.99''
0109000409 Narragansett Bay RI-KN-15 Warwick 4.3 SSW 7.55" 0109000409 Narragansett Bay RI-KN-2 East Greenwich 2.3 ESE 6.61" 0109000409 Narragansett Bay RI-NW-18 Jamestown 0.3 SSE 5.55" 0109000409 Narragansett Bay RI-NW-19 Portsmouth 2.3 S 4.97" 0109000409 Narragansett Bay RI-NW-16 Portsmouth 1.3 S 5.90" 0109000409 Narragansett Bay RI-NW-11 Tiverton 0.8 SSW 5.65" 0109000409 Narragansett Bay RI-NW-20 Tiverton 1.0 SSW 5.65" 0109000409 Narragansett Bay RI-NW-20 Tiverton 0.8 SSW 5.65" 0109000409 Narragansett Bay RI-NW-20 Tiverton 0.8 SSW 5.65" 0109000502 Varragansett Bay RI-NW-20 Tiverton 1.0 SSW 5.91" 0109000503 Wood River RI-WS-42 Richmond 4.6 NNE 8.57" 0109000502 Upper Pawcatuck River RI-WS-42 Richmond 4.6 NNE 8.57" 0109000503 Lower Pawcatuck River </td <td>0109000409</td> <td>Narragansett Bay</td> <td>RI-KN-17</td> <td>East Greenwich 1.2 NNE</td> <td>8.11"</td>	0109000409	Narragansett Bay	RI-KN-17	East Greenwich 1.2 NNE	8.11"
0109000409 Narragansett Bay RI-KN-2 East Greenwich 2.3 ESE 6.61" 0109000409 Narragansett Bay RI-NW-18 Jamestown 0.3 SSE 5.55" 0109000409 Narragansett Bay RI-BR-5 Barrington 1.3 WNW 6.65" 0109000409 Narragansett Bay RI-NW-19 Portsmouth 2.3 S 4.97" 0109000409 Narragansett Bay RI-NW-16 Portsmouth 1.3 S 5.90" 0109000409 Narragansett Bay RI-NW-11 Tiverton 0.8 SSW 5.65" 0109000409 Narragansett Bay RI-NW-20 Tiverton 1.0 SSW 5.91" 0109000409 Narragansett Bay RI-NW-20 Tiverton 1.0 SSW 5.91" 0109000409 Narragansett Bay RI-NW-20 Tiverton 1.0 SSW 5.91" 0109000509 Narragansett Bay RI-NW-20 Tiverton 1.0 SSW 5.91" 010900050 Pawcatuck-Wood RI-WS-41 Hope Valley 3.7 S 7.74" 0109000502 Upper Pawcatuck River RI-WS-42 Richmond 4.6 NNE 8.57" 0109000503 Lower Pawcatuck R	0109000409	Narragansett Bay	RI-WS-31	Kingston 7.5 NNE	7.32"
0109000409 Narragansett Bay RI-NW-18 Jamestown 0.3 SSE 5.55" 0109000409 Narragansett Bay RI-BR-5 Barrington 1.3 WNW 6.65" 0109000409 Narragansett Bay RI-NW-19 Portsmouth 2.3 S 4.97" 0109000409 Narragansett Bay RI-NW-16 Portsmouth 1.3 S 5.90" 0109000409 Narragansett Bay RI-NW-11 Tiverton 0.8 SSW 5.65" 0109000409 Narragansett Bay RI-NW-20 Tiverton 1.0 SSW 5.65" 010900050 Narragansett Bay RI-NW-20 Tiverton 1.0 SSW 5.91" 010900050 Pawcatuck-Wood Pawcatuck-Wood File WS-1 Hope Valley 3.7 S 7.74" 0109000501 Wood River RI-WS-1 Hope Valley 3.7 S 7.74" 0109000502 Upper Pawcatuck River RI-WS-42 Richmond 4.6 NNE 8.57" 0109000502 Upper Pawcatuck River RI-WS-45 Charlestown 4.7 NNE 7.20" 0109000503 Lower Pawcatuck River RI-WS-40 West Warwick 7.7 S 7.93" 010900050	0109000409	Narragansett Bay	RI-KN-15	Warwick 4.3 SSW	7.55"
010900409 Narragansett Bay RI-BR-5 Barrington 1.3 WNW 6.65" 010900409 Narragansett Bay RI-NW-19 Portsmouth 2.3 S 4.97" 010900409 Narragansett Bay RI-NW-16 Portsmouth 1.3 S 5.90" 0109000409 Narragansett Bay RI-NW-11 Tiverton 0.8 SSW 5.65" 010900050 Narragansett Bay RI-NW-20 Tiverton 1.0 SSW 5.91" 010900050 Pawcatuck-Wood RI-WS-1 Hope Valley 3.7 S 7.74" 0109000501 Wood River RI-WS-1 Hope Valley 3.7 S 7.74" 0109000502 Upper Pawcatuck River RI-WS-42 Richmond 4.6 NNE 8.57" 0109000502 Upper Pawcatuck River RI-WS-45 Charlestown 4.7 NNE 7.20" 0109000502 Upper Pawcatuck River RI-WS-40 West Warwick 7.7 S 7.93" 0109000503 Lower Pawcatuck River CT-NL-40 Pawcatuck 1.8 SSE 7.41" 0109000504 Frontal Block Island Sound RI-WS-36 Charlestown 3.0 WSW 7.04" 011000010 F	0109000409	Narragansett Bay	RI-KN-2	East Greenwich 2.3 ESE	6.61"
0109000409 Narragansett Bay RI-NW-19 Portsmouth 2.3 S 4.97" 0109000409 Narragansett Bay RI-NW-16 Portsmouth 1.3 S 5.90" 0109000409 Narragansett Bay RI-NW-11 Tiverton 0.8 SSW 5.65" 0109000409 Narragansett Bay RI-NW-20 Tiverton 1.0 SSW 5.91" 010900050 Pawcatuck-Wood Tiverton 1.0 SSW 5.91" 0109000501 Wood River RI-WS-1 Hope Valley 3.7 S 7.74" 0109000502 Upper Pawcatuck River RI-WS-42 Richmond 4.6 NNE 8.57" 0109000502 Upper Pawcatuck River RI-WS-45 Charlestown 4.7 NNE 7.20" 0109000502 Upper Pawcatuck River RI-WS-40 West Warwick 7.7 S 7.93" 0109000503 Lower Pawcatuck River CT-NL-40 Pawcatuck 1.8 SSE 7.41" 0109000504 Frontal Block Island Sound RI-WS-47 Westerly 0.8 wNW 9.29" 0109000504 Frontal Block Island Sound RI-WS-36 Charlestown 1.1 ENE 6.70" 011000010 Quinebaug	0109000409	Narragansett Bay	RI-NW-18	Jamestown 0.3 SSE	5.55"
0109000409 Narragansett Bay RI-NW-16 Portsmouth 1.3 S 5.90" 0109000409 Narragansett Bay RI-NW-11 Tiverton 0.8 SSW 5.65" 0109000409 Narragansett Bay RI-NW-20 Tiverton 1.0 SSW 5.91" 01090005 Pawcatuck-Wood Fawcatuck-Wood Fawcatuck-Wood Fawcatuck-Wood Fawcatuck-Wood Fawcatuck Fawcatuck River RI-WS-1 Hope Valley 3.7 S 7.74" 7.74" Fawcatuck Fawcatuck River RI-WS-42 Richmond 4.6 NNE 8.57" 8.57" 7.09" 100900502 Upper Pawcatuck River RI-WS-45 Charlestown 4.7 NNE 7.20" 7.20" 100900502 Upper Pawcatuck River RI-WS-40 West Warwick 7.7 S 7.93" 7.93" 100900503 Lower Pawcatuck River CT-NL-40 Pawcatuck 1.8 SSE 7.41" 100900503 Lower Pawcatuck River RI-WS-47 Westerly 0.8 WNW 9.29" 10109000504 Frontal Block Island Sound RI-WS-36 Charlestown 3.0 WSW 7.04" 10100000 7.04" 10100000 1000000 7.45" 101000000 10000000 7.45" 101000000	0109000409	Narragansett Bay	RI-BR-5	Barrington 1.3 WNW	6.65"
0109000409 Narragansett Bay RI-NW-11 Tiverton 0.8 SSW 5.65" 0109000409 Narragansett Bay RI-NW-20 Tiverton 1.0 SSW 5.91" 010900050 Pawcatuck-Wood Fal-WS-1 Hope Valley 3.7 S 7.74" 0109000502 Upper Pawcatuck River RI-WS-42 Richmond 4.6 NNE 8.57" 0109000502 Upper Pawcatuck River RI-WS-45 Charlestown 4.7 NNE 7.20" 0109000502 Upper Pawcatuck River RI-WS-40 West Warwick 7.7 S 7.93" 0109000503 Lower Pawcatuck River CT-NL-40 Pawcatuck 1.8 SSE 7.41" 0109000504 Frontal Block Island Sound RI-WS-47 Westerly 0.8 WNW 9.29" 010900504 Frontal Block Island Sound RI-WS-36 Charlestown 3.0 WSW 7.04" 01100001 Quinebaug MA-WR-68 Oxford 0.9 SSW 7.45" 0110000105 French River MA-WR-68 Oxford 0.9 SSW 7.58" 0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 01100002 Shetucke	0109000409	Narragansett Bay	RI-NW-19	Portsmouth 2.3 S	4.97"
0109000409 Narragansett Bay RI-NW-20 Tiverton 1.0 SSW 5.91" 01090005 Pawcatuck-Wood	0109000409	Narragansett Bay	RI-NW-16	Portsmouth 1.3 S	5.90"
01090005 Pawcatuck-Wood 0109000501 Wood River RI-WS-1 Hope Valley 3.7 S 7.74" 0109000502 Upper Pawcatuck River RI-WS-42 Richmond 4.6 NNE 8.57" 0109000502 Upper Pawcatuck River RI-WS-45 Charlestown 4.7 NNE 7.20" 0109000502 Upper Pawcatuck River RI-WS-40 West Warwick 7.7 S 7.93" 0109000503 Lower Pawcatuck River CT-NL-40 Pawcatuck 1.8 SSE 7.41" 0109000504 Frontal Block Island Sound RI-WS-47 Westerly 0.8 WNW 9.29" 0109000504 Frontal Block Island Sound RI-WS-36 Charlestown 3.0 WSW 7.04" 0109000504 Frontal Block Island Sound RI-WS-26 Charlestown 1.1 ENE 6.70" 01100001 Quinebaug NA-WR-68 Oxford 0.9 SSW 7.45" 0110000102 French River CT-WN-4 East Killingly 1.3 SW 7.58" 0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 01100002 Shetucket CT-TL-18 Hebron 5.3 NW	0109000409	Narragansett Bay	RI-NW-11	Tiverton 0.8 SSW	5.65"
0109000501 Wood River RI-WS-1 Hope Valley 3.7 S 7.74" 0109000502 Upper Pawcatuck River RI-WS-42 Richmond 4.6 NNE 8.57" 0109000502 Upper Pawcatuck River RI-WS-45 Charlestown 4.7 NNE 7.20" 0109000502 Upper Pawcatuck River RI-WS-40 West Warwick 7.7 S 7.93" 0109000503 Lower Pawcatuck River CT-NL-40 Pawcatuck 1.8 SSE 7.41" 0109000504 Frontal Block Island Sound RI-WS-47 Westerly 0.8 WNW 9.29" 0109000504 Frontal Block Island Sound RI-WS-36 Charlestown 3.0 WSW 7.04" 01100001 Quinebaug RI-WS-26 Charlestown 1.1 ENE 6.70" 0110000102 French River MA-WR-68 Oxford 0.9 SSW 7.45" 0110000103 Fivemile River CT-WN-4 East Killingly 1.3 SW 7.58" 0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 01100002 Shetucket CT-NL-21 Griswold 0.9 N 7.70" 0110000201 Willimantic R	0109000409	Narragansett Bay	RI-NW-20	Tiverton 1.0 SSW	5.91"
0109000502 Upper Pawcatuck River RI-WS-42 Richmond 4.6 NNE 8.57" 0109000502 Upper Pawcatuck River RI-WS-45 Charlestown 4.7 NNE 7.20" 0109000502 Upper Pawcatuck River RI-WS-40 West Warwick 7.7 S 7.93" 0109000503 Lower Pawcatuck River CT-NL-40 Pawcatuck 1.8 SSE 7.41" 0109000504 Frontal Block Island Sound RI-WS-47 Westerly 0.8 WNW 9.29" 0109000504 Frontal Block Island Sound RI-WS-36 Charlestown 3.0 WSW 7.04" 0109000504 Frontal Block Island Sound RI-WS-26 Charlestown 1.1 ENE 6.70" 01100001 Quinebaug NA-WR-68 Oxford 0.9 SSW 7.45" 0110000103 Fivemile River CT-WN-4 East Killingly 1.3 SW 7.58" 0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 01100002 Shetucket CT-NL-21 Griswold 0.9 N 7.70" 0110000201 Willimantic River CT-TL-18 Hebron 5.3 NW 9.57"	01090005	Pawcatuck-Wood			
0109000502 Upper Pawcatuck River RI-WS-45 Charlestown 4.7 NNE 7.20" 0109000502 Upper Pawcatuck River RI-WS-40 West Warwick 7.7 S 7.93" 0109000503 Lower Pawcatuck River CT-NL-40 Pawcatuck 1.8 SSE 7.41" 0109000503 Lower Pawcatuck River RI-WS-47 Westerly 0.8 WNW 9.29" 0109000504 Frontal Block Island Sound RI-WS-36 Charlestown 3.0 WSW 7.04" 0109000504 Frontal Block Island Sound RI-WS-26 Charlestown 1.1 ENE 6.70" 01100001 Quinebaug Willimobility MA-WR-68 Oxford 0.9 SSW 7.45" 0110000102 French River MA-WR-68 Oxford 0.9 SSW 7.58" 0110000105 Moosup River CT-WN-4 East Killingly 1.3 SW 7.58" 0110000106 Pachaug River CT-NL-21 Griswold 0.9 N 7.70" 01100002 Shetucket CT-TL-18 Hebron 5.3 NW 9.57"	0109000501	Wood River	RI-WS-1	Hope Valley 3.7 S	7.74"
0109000502 Upper Pawcatuck River RI-WS-40 West Warwick 7.7 S 7.93" 0109000503 Lower Pawcatuck River CT-NL-40 Pawcatuck 1.8 SSE 7.41" 0109000503 Lower Pawcatuck River RI-WS-47 Westerly 0.8 WNW 9.29" 0109000504 Frontal Block Island Sound RI-WS-36 Charlestown 3.0 WSW 7.04" 0109000504 Frontal Block Island Sound RI-WS-26 Charlestown 1.1 ENE 6.70" 01100001 Quinebaug MA-WR-68 Oxford 0.9 SSW 7.45" 0110000103 Fivemile River CT-WN-4 East Killingly 1.3 SW 7.58" 0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 01100002 Shetucket CT-NL-21 Griswold 0.9 N 7.70" 0110000201 Willimantic River CT-TL-18 Hebron 5.3 NW 9.57"	0109000502	Upper Pawcatuck River	RI-WS-42	Richmond 4.6 NNE	8.57"
0109000503 Lower Pawcatuck River CT-NL-40 Pawcatuck 1.8 SSE 7.41" 0109000503 Lower Pawcatuck River RI-WS-47 Westerly 0.8 WNW 9.29" 0109000504 Frontal Block Island Sound RI-WS-36 Charlestown 3.0 WSW 7.04" 0109000504 Frontal Block Island Sound RI-WS-26 Charlestown 1.1 ENE 6.70" 01100001 Quinebaug WA-WR-68 Oxford 0.9 SSW 7.45" 0110000103 Fivemile River CT-WN-4 East Killingly 1.3 SW 7.58" 0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 0110000106 Pachaug River CT-NL-21 Griswold 0.9 N 7.70" 01100002 Shetucket CT-TL-18 Hebron 5.3 NW 9.57"	0109000502	Upper Pawcatuck River	RI-WS-45	Charlestown 4.7 NNE	7.20"
0109000503 Lower Pawcatuck River RI-WS-47 Westerly 0.8 WNW 9.29" 0109000504 Frontal Block Island Sound RI-WS-36 Charlestown 3.0 WSW 7.04" 0109000504 Frontal Block Island Sound RI-WS-26 Charlestown 1.1 ENE 6.70" 01100001 Quinebaug WA-WR-68 Oxford 0.9 SSW 7.45" 0110000103 Fivemile River CT-WN-4 East Killingly 1.3 SW 7.58" 0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 0110000106 Pachaug River CT-NL-21 Griswold 0.9 N 7.70" 01100002 Shetucket CT-TL-18 Hebron 5.3 NW 9.57"	0109000502	Upper Pawcatuck River	RI-WS-40	West Warwick 7.7 S	7.93"
0109000504 Frontal Block Island Sound RI-WS-36 Charlestown 3.0 WSW 7.04" 0109000504 Frontal Block Island Sound RI-WS-26 Charlestown 1.1 ENE 6.70" 01100001 Quinebaug WA-WR-68 Oxford 0.9 SSW 7.45" 0110000103 Fivemile River CT-WN-4 East Killingly 1.3 SW 7.58" 0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 0110000106 Pachaug River CT-NL-21 Griswold 0.9 N 7.70" 01100002 Shetucket CT-TL-18 Hebron 5.3 NW 9.57"	0109000503	Lower Pawcatuck River	CT-NL-40	Pawcatuck 1.8 SSE	7.41"
0109000504 Frontal Block Island Sound RI-WS-26 Charlestown 1.1 ENE 6.70" 01100001 Quinebaug MA-WR-68 Oxford 0.9 SSW 7.45" 0110000103 Fivemile River CT-WN-4 East Killingly 1.3 SW 7.58" 0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 0110000106 Pachaug River CT-NL-21 Griswold 0.9 N 7.70" 01100002 Shetucket CT-TL-18 Hebron 5.3 NW 9.57"	0109000503	Lower Pawcatuck River	RI-WS-47	Westerly 0.8 WNW	9.29"
01100001 Quinebaug MA-WR-68 Oxford 0.9 SSW 7.45" 0110000103 Fivemile River CT-WN-4 East Killingly 1.3 SW 7.58" 0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 0110000106 Pachaug River CT-NL-21 Griswold 0.9 N 7.70" 01100002 Shetucket CT-TL-18 Hebron 5.3 NW 9.57"	0109000504	Frontal Block Island Sound	RI-WS-36	Charlestown 3.0 WSW	7.04"
0110000102 French River MA-WR-68 Oxford 0.9 SSW 7.45" 0110000103 Fivemile River CT-WN-4 East Killingly 1.3 SW 7.58" 0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 0110000106 Pachaug River CT-NL-21 Griswold 0.9 N 7.70" 01100002 Shetucket CT-TL-18 Hebron 5.3 NW 9.57"	0109000504	Frontal Block Island Sound	RI-WS-26	Charlestown 1.1 ENE	6.70"
0110000103 Fivemile River CT-WN-4 East Killingly 1.3 SW 7.58" 0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 0110000106 Pachaug River CT-NL-21 Griswold 0.9 N 7.70" 01100002 Shetucket CT-TL-18 Hebron 5.3 NW 9.57"	01100001	Quinebaug			
0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 0110000106 Pachaug River CT-NL-21 Griswold 0.9 N 7.70" 01100002 Shetucket CT-TL-18 Hebron 5.3 NW 9.57"	0110000102	French River	MA-WR-68	Oxford 0.9 SSW	7.45"
0110000105 Moosup River CT-WN-8 Moosup 1.7 NE 9.11" 0110000106 Pachaug River CT-NL-21 Griswold 0.9 N 7.70" 01100002 Shetucket CT-TL-18 Hebron 5.3 NW 9.57"	0110000103		CT-WN-4	East Killingly 1.3 SW	7.58''
0110000106 Pachaug River CT-NL-21 Griswold 0.9 N 7.70" 01100002 Shetucket CT-TL-18 Hebron 5.3 NW 9.57"	0110000105		CT-WN-8		
01100002 Shetucket CT-TL-18 Hebron 5.3 NW 9.57"		·		·	
0110000201 Willimantic River CT-TL-18 Hebron 5.3 NW 9.57"		3			
			CT-TL-18	Hebron 5.3 NW	9.57''
	0110000201	Willimantic River	CT-TL-2	Staffordville 0.4 NNW	

	T			
0110000202	Natchaug River	CT-TL-27	Willington 2.7 SE	8.04''
0110000202	Natchaug River	CT-TL-30	Mansfield Center 2.7 NE	7.66"
0110000202	Natchaug River	CT-WN-12	Eastford 2.0 W	8.40''
0110000203	Shetucket River	CT-WN-10	South Windham 1.3 NNE	7.44''
0110000203	Shetucket River	CT-NL-10	Norwich 2.5 NNE	7.99''
01100003	Thames			
0110000302	Thames River-Frontal New London Harbor	CT-NL-5	Oakdale 2.6 WNW	8.56''
0110000302	Thames River-Frontal New London Harbor	CT-NL-6	New London 1.0 NNW	6.76''
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-38	Old Lyme 3.4 ESE	6.95''
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-32	Niantic 1.1 SW	6.41''
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-22	Central Waterford 2.7 SSW	6.60''
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-37	Mystic 1.6 W	7.89''
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-19	Mystic 0.9 W	7.51''
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-24	Stonington 1.4 NNW	7.61''
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-18	Stonington 0.5 NNE	7.90''
01100004	Quinnipiac			
0110000401	Quinnipiac River	CT-NH-14	Prospect 1.9 ENE	7.88''
0110000401	Quinnipiac River	CT-HR-23	Southington 0.9 SSE	8.37"
0110000401	Quinnipiac River	CT-HR-76	Southington 1.0 ENE	7.64"
0110000401	Quinnipiac River	CT-NH-44	Wallingford Center 1.9 WNW	7.75"
0110000401	Quinnipiac River	CT-NH-43	Wallingford Center 3.3 NNW	7.82''
0110000401	Quinnipiac River	CT-NH-42	Wallingford Center 1.1 N	7.65"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-50	Madison Center 4.1 N	7.24''
0110000403	Mill River - Frontal Long Island Sound	CT-NH-16	Milford 1.8 E	7.71"
01100005	Housatonic			
0110000501	Headwaters Housatonic River	MA-BE-11	Great Barrington 3.0 N	5.60''
0110000501	Headwaters Housatonic River	MA-BE-3	Stockbridge .2 NNE	5.75"
0110000501	Headwaters Housatonic River	MA-BE-10	Pittsfield 2.0 NNW	5.52"
0110000504	Macedonia Brook - Housatonic River	CT-LT-20	Warren 2.4 WNW	6.44''
0110000508	Still River - Housatonic River	CT-FR-43	Bethel 0.5 E	7.69''
0110000508	Still River - Housatonic River	CT-FR-41	Bethel 3.5 NNE	7.51''
0110000508	Still River - Housatonic River	CT-FR-9	Brookfield 3.3 SSE	7.35"
0110000511	Headwaters Naugatuck River	CT-LT-7	Litchfield 2.3 NNE	8.16''
0110000512	Outlet Naugatuck River	CT-LT-14	Watertown 0.5 S	7.92"
0110000512	Outlet Naugatuck River	CT-NH-47	Seymour 1.5 NE	7.34''
0110000512	Outlet Naugatuck River	CT-NH-45	Naugatuck 1.7 NNE	8.53"
0110000512	Outlet Naugatuck River	CT-NH-22	Prospect 0.5 SW	7.94"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-42	Monroe 0.1 SE	7.41"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-23	Shelton 1.3 W	6.88''
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-46	Stratford 0.2 ESE	7.11"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-55	Shelton 2.7 SSE	6.93"

01100006	Saugatuck			
0110000601	Saugatuck River - Frontal Long Island Sound	CT-FR-58	Ridgefield 3.6 N	6.89"
0110000601	Saugatuck River - Frontal Long Island Sound	CT-FR-31	Newtown 4.6 SSW	7.84"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-59	New Canaan 3.8 N	6.77"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-29	Ridgefield 1.9 SSE	6.83''
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-3	New Canaan 1.9 ENE	6.63''
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-25	Norwalk 2.9 NNW	6.57"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-20	Westport 2.5 ENE	6.23"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-60	Fairfield 1.5 NE	5.97"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-32	Monroe 0.8 W	7.74"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-26	Stratford 0.9 W	6.56"
0110000604	Mianus River-Rippowam River	CT-FR-39	Stamford 4.2 S	5.69"
0110000604	Mianus River-Rippowam River	CT-FR-50	Darien 2.8 NW	5.97"
0110000604	Mianus River-Rippowam River	CT-FR-35	Darien 1.8 ENE	5.49"
02020003	Hudson-Hoosic			
0202000306	Upper Hoosic River	MA-BE-18	North Adams 3.0 WNW	4.04''
02020006	Middle Hudson			
0202000603	Wynants Kill - Hudson River	NY-AB-21	NWS Albany	4.24"
02030203	Long Island Sound			
0203020300	Long Island Sound	NY-SF-114	Fishers Island 0.5 NE	6.71"

What's this? A map of your recent Condition Monitoring Reports!



Southern New England CoCoRaHS

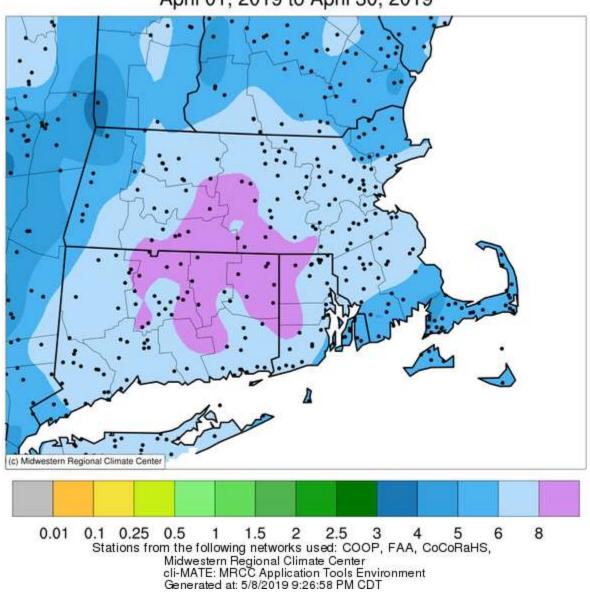
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May 2019 Newsletter

The pink contour color is for 8"+ and our network found those 8" totals more than anyone else.

Accumulated Precipitation (in)

April 01, 2019 to April 30, 2019



"We do not live at the airport"

Do compare your monthly total to one of these airports, closest to you. Suspiciously low totals were asked and verified as stated.

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

Location	Station ID	April 2019 Precip	Mar departure from normal	Feb- Mar- Apr Precip	3 month departure from normal	Nov- Apr Precip	6 month departure from normal	May- Apr Precip	12 month departure from normal
White Plains NY	HPN	4.76''	0.36"	10.13"	-1.78"	27.14"	3.16"	59.74"	10.39"
Danbury CT	DXR	6.20''	1.96''	11.03"	-0.08''	28.47"	5.65"	57.22"	7.35"
New Haven CT	HVN	6.39"	1.95"	11.50"	-0.12"	27.07"	4.72"	52.30"	5.19''
Meriden CT	MMK	7.37"	2.93''	13.46"	1.84"	32.84"	10.49''	60.35"	13.24"
Hartford CT	HFD	6.75"	2.87"	11.55"	1.45"	27.80"	7.36''	56.43"	12.83"
Willimantic CT	IJD	6.41''	1.98''	11.51"	-0.32"	28.17"	4.31"	54.27"	5.85"
New London CT	GON	6.27''	1.86''	12.19"	0.76"	28.10"	5.36"	45.81"	-0.68''
Westerly RI	WST	7.05"	2.41"	13.67"	1.20"	32.83"	8.69"	54.73"	7.34"
Newport RI	UUU	4.99''	0.44"	11.90"	-0.30"	30.67"	6.59"	51.76"	5.43"
New Bedford MA	EWB	2.84''	-1.66''	8.27"	-4.78"	27.14"	1.54"	47.20''	-1.16''
Hyannis MA	HYA	4.54''	0.03"	11.32"	-1.68"	29.17"	3.38"	46.15"	-1.54"
Nantucket MA	ACK	5.93"	2.19"	11.52"	0.81"	26.28"	3.73"	42.22"	-2.20"
Marthas Vineyard MA	MVY	4.61''	0.77"	10.64"	-0.96"	28.86"	5.49"	46.41"	1.25"
Taunton MA	TAN	6.70"	2.09"	13.09"	-0.19''	31.60"	5.52"	56.65"	6.91''
Plymouth MA	PYM	6.15"	1.51"	11.98"	-1.51"	31.73"	5.50"	56.69"	7.54"
Norwood MA	OWD	6.97''	2.78"	11.49"	-0.40''	23.41"	-0.48''	50.28"	3.22"
Bedford MA	BED	6.29"	2.20"	12.14"	0.79"	26.73"	3.94"	48.64"	2.93"
Beverly MA	BVY	6.02"	1.65"	12.41"	0.20"	29.01"	5.84"	53.22"	7.04''
Lawrence MA	LWM	3.67"	-0.15"	7.12"	-3.61"	17.83"	-2.73"	39.36"	-3.80"
Fitchburg MA	FIT	6.71"	2.59"	11.64"	0.14"	27.70"	4.88"	60.01"	12.87"
Orange MA	ORE	6.98"	3.66"	10.95"	1.50"	25.89"	6.63"	58.89"	16.34"
Westfield MA	BAF	7.04"	2.67"	11.86"	0.56"	29.01"	6.90''	62.56"	14.17''
North Adams MA	AQW	3.28"	-0.55"	6.01"	-3.94"	17.22"	-2.73"	43.13"	-3.48"

Rulers of the Snow

A listing of all observers that reported precip, snow fall, and snow depth for all 30 daily reports this month. No NA's.

We are the Rulers of the Snow. 58 stations and growing. Make a snow fall and snow depth measurement, if you can safely do so, *all year round*.

Station	Name	Apr 2019 Snowfall	Station Name		Apr 2019 Snowfall
MA-FR-31	Colrain 3.7 WNW	2.0''	MA-ES-4	Groveland 0.5 WSW	0.0''
MA-FR-13	Conway 2.9 NW	1.0''	MA-ES-41	Danvers 0.8 ESE	0.0''
MA-FR-17	Buckland 1.8 ESE	1.0''	MA-ES-48	Andover 0.6 E	0.0''
CT-LT-9	New Hartford Center 3.2 SW	0.3''	MA-FR-10	Conway 0.9 SW	0.0''
MA-FR-12	Sunderland 1.3 SE	0.1''	MA-HD-25	Ludlow 2.3 SW	0.0''
CT-FR-23	Shelton 1.3 W	0.0''	MA-MD-104	Littleton 2.8 NNW	0.0''
CT-FR-25	Norwalk 2.9 NNW	0.0''	MA-MD-119	Watertown 1.1 W	0.0''
CT-FR-29	Ridgefield 1.9 SSE	0.0''	MA-MD-12	Acton 1.3 SW	0.0''
CT-FR-3	New Canaan 1.9 ENE	0.0''	MA-MD-151	Cambridge 0.9 SSE	0.0''
CT-FR-59	New Canaan 3.8 N	0.0''	MA-MD-44	Medford 1.2 W	0.0''
CT-FR-9	Brookfield 3.3 SSE	0.0''	MA-MD-51	Maynard 0.7 ESE	0.0''
CT-HR-8	North Granby 1.3 ENE	0.0''	MA-MD-52	Lexington 0.6 SW	0.0''
CT-LT-15	Colebrook 1.0 NE	0.0''	MA-MD-88	Wayland 2.1 SSE	0.0''
CT-MD-23	Higganum 0.7 N	0.0''	MA-NF-1	Norwood 1.3 NW	0.0''
CT-NH-43	Wallingford Center 3.3 NNW	0.0''	MA-NF-11	Millis 2.0 SW	0.0''
CT-NH-45	Naugatuck 1.7 NNE	0.0''	MA-PL-15	Abington 1.2 NNE	0.0''
CT-NL-10	Norwich 2.5 NNE	0.0''	MA-PL-19	Rochester 1.2 NNW	0.0''
CT-NL-32	Niantic 1.1 SW	0.0''	MA-PL-31	Bridgewater 1.8 SE	0.0''
CT-NL-40	Pawcatuck 1.8 SSE	0.0''	MA-WR-42	Northborough 2.3 N	0.0''
CT-NL-6	New London 1.0 NNW	0.0''	MA-WR-44	Westminster 0.6 WSW	0.0''
MA-BA-47	Mashpee 2.4 WSW	0.0''	MA-WR-75	Warren 2.4 WSW	0.0''
MA-BA-50	Falmouth 5.4 NNE	0.0''	MA-WR-8	Fitchburg 1.6 SSW	0.0''
MA-BA-76	Barnstable 0.7 NE	0.0''	RI-KN-2	East Greenwich 2.3 ESE	0.0''
MA-BE-18	North Adams 3.0 WNW	0.0''	RI-NW-11	Tiverton 0.8 SSW	0.0''
MA-BR-23	Attleboro 0.9 ENE	0.0''	RI-NW-18	Jamestown 0.3 SSE	0.0''
MA-BR-30	Taunton 3.9 N	0.0''	RI-NW-7	Little Compton 0.6 E	0.0''
MA-BR-55	NWS Boston/Norton 2.5 ESE	0.0''	RI-PR-33	Greenville 0.7 NNW	0.0''
MA-BR-8	Dighton 1.1 WSW	0.0''	RI-PR-51	North Smithfield 0.6 S	0.0''
MA-ES-12	Boxford 2.4 S	0.0''	RI-WS-42	Richmond 4.6 NNE	0.0''

April 2019 as a calendar. A count of your Daily Reports by Date. Magenta colors are for the highest counts. Lime green color for the lowest counts. Easy to see our big rainy days.

Pleased to see no large differences between our highest and lowest values. Report your zeros!

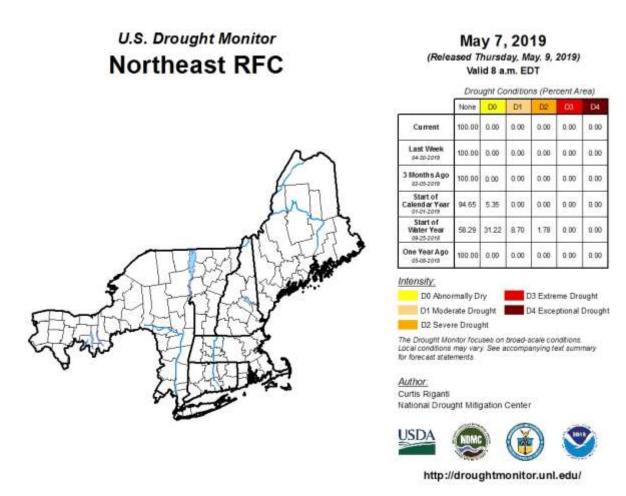
Our average was a single month record of 326 Daily Reports per day.

April 2019						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	321	2 315	3 331	4 322	5 323	6 322
309 309	8 323	9 324	10 333	11 324	12 320	13 321
14 318	15 326	16 322	17 315	18 323	19 325	20 319
21 327	22 323	23 344	24 345	25 330	26 333	27 336
28 324	29 331	30 340				

From the Drought Monitor.

After our rain-filled month of April, no sign of drought.

Every drop counts and zeros do too!



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

Wrap up

You deserve credit for getting to the end of this edition. Thank you.

Hopefully, there will be no repeats of last year's severe weather outbreak that took place in mid-May. Significant Weather Reports and Hail Reports are available on the website, should you need to call attention to what is occurring in real-time.

For those that are in our three states, Observer of the Month is for YOU. What made you join? Why do you continue with CoCoRaHS? What have you learned along your journey with a 4" diameter rain gauge? It doesn't have to be 1900 words and span over 35 years. Each one of you has a story to tell.

We're not done with the spring rains yet. Keep seeing if we ever get three dry days in a row. It might happen before the summer warmth kicks in.

Looking ahead to June's edition, we will mark Connecticut's 10 year in CoCoRaHS.

In year's past, we have used July and August editions for "Gauge Photos". If you want to do again this year, please send along a good photo of your gauge, along with your station ID, as your station ID will serve as the caption of your gauge photo.

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