

May 2017

The fragrant lilacs are coming in bloom right on schedule, along with welcome rains and your reporting.

The rains finally came to April along with one last snow event. A wide swing in precipitation numbers range from the hills in the Berkshires to the south and eastern parts of our region.

The reporting records returned in April as well. Our growth has resumed from its winter's rest.

Before we get into the details, plenty to look at and take in. A sample Hail Report is given to see how it looks as a CoCoRaHS report and how it looks to the end customer, the NWS. Numerous observer tips are given for the new observers and as a reminder to the more seasoned observers. All about our precipitation reports and station totals for April. The Map of the Month is about Nantucket. If you haven't been to the faraway place, after you read the feature, you will want to go. One final wrap up on our snow totals for the season. This month, we salute the only state in the network among all of the states that continues to have year over year growth, the Commonwealth of Massachusetts.

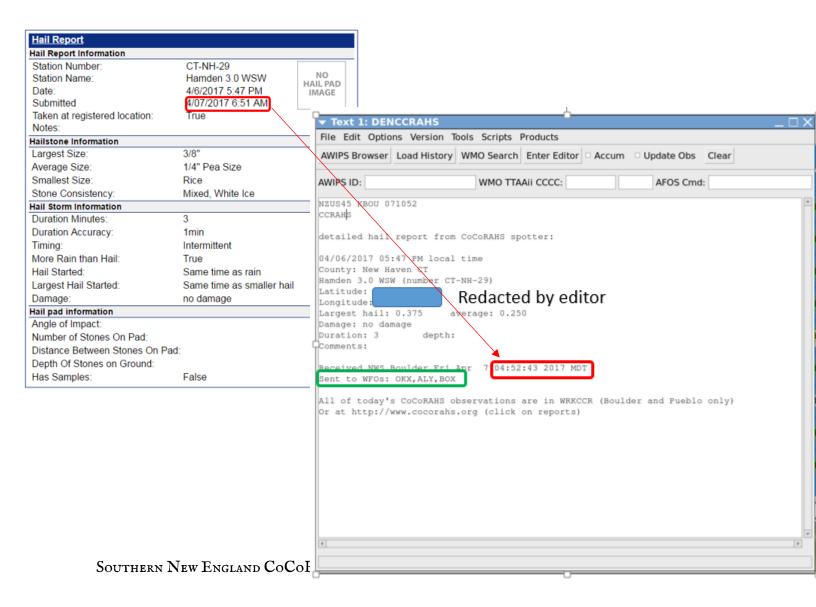
On we grow.

More on Hail Reports

Hail Reports serve two valuable purposes. The first is short term. Within a minute of submitting, an alarm comes on the forecasters' screen at your local National Weather Service Forecast Office. The second is long term. Our hail database is one of kind. Inquiries can be done by dates and states and hail size and number of occurrences.

You learn something new every day. The NWS reports a "T" for snow whenever they report hail. You can do so as well.

A hail report from April, from Southern CT, appears at the BOX office. Your Significant Weather Reports and Hail Reports are delivered in a minute to a local NWS Forecast Office.



Observer Tips

We are pleased to have so many new observers starting to report. The surge in reporting that has occurred since mid-April is encouraging to see. Rather than spend the next few months mentioning tips explained one topic at a time, we just wanted to briefly mention the following tips. Network wide, we've seen some trends that have caught our attention. Locally, we've seen a few items also. If you have questions about any of these tips, please ask and we will provide more details.

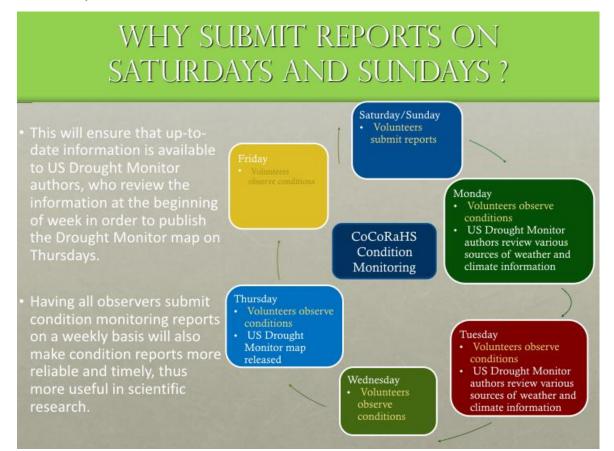
✓ Comments that clarify and verify your report of precipitation are helpful. Your report may be unique in some way on some day. We had over 4000 reports of precipitation last month, so we would like to see over 4000 Comments to go along with them. Here is a <u>YouTube</u> video about Comments. Comments find their way into your Water Year Summary. Use Comments to narrate your weather and precipitation experiences through the year. RI-WS-31 caught the eye of the State Coordinator of Illinois, our network's King of Quality.

| April 26 at 9:47am | | Y |
|---|--|---|
| Here is a great comment by an Clears up any doubt as to the re | observer in Rhode Island this morning. eality of the observation. 🙂 | |
| Daily Precipitation Report | | |
| Station Number: RI-WS-31 | Station Name: Kingston 7.5 NNE | |
| Observation Date | 4/26/2017 7:00 AM | |
| Submitted | 4/26/2017 7:05 AM | |
| Total Precip Amount | 3.07 in. | |
| Notes | this is not an error. i checked this three times. we got over 3 inches in the past 24 hours! | |
| Taken at registered location | Yes | |
| 👉 Like 🔲 Comment 🦽 | Share | |

- ✓ Accuracy matters. Decimal points matter. Please do not mix up 0.40" with 0.04" inches reporting these light spring rains.
- ✓ Significant Weather Reports and Hail Reports are real time reports and alarm your local NWS forecasters' AWIPS terminals. Be safe. Be timely. Be accurate. A <u>video</u> from our Founder, Nolan Doesken.
- ✓ If you are using the mobile app for reporting, please be careful and check your reported values BEFORE entering. The mobile app is easy for reporting zeros. Reporting a non-zero amount? Not as easy. That may involve backspacing the default value of zero BEFORE entering the amount, otherwise the reported value occurs ahead of the decimal point and wow, that error stands out. Throughout the network, it is easy and commonplace to see reporting errors from mobile devices. There is a "History" function on the mobile app. Check it for reporting mistakes and for missing reports.
- ✓ Look at your reports every month. Please fill in missing reports.
- ✓ Taking time off? Skipped a day or more? Please fill out a Multi-Day Accumulation report when you return. Submitting a Daily Report with your precip amount from the days away, is an error that sticks out like a sore thumb within our reports and maps.
- ✓ Be a hero. Report your zeros. Zeros are a verification to many that no precipitation occurred where you are.
- ✓ Did you see a few drops of rain fall? Barely got the pavement wet? Report a T for trace for those times that rain drops fall, but do not measure up to 0.01". Being outdoors helps discover traces.
- ✓ If you are new to the crew, know what to do about dew. Please do not mix up precipitation with condensation from dew. Another error that stands out are reports of T and 0.01" with not a cloud in the sky, day and night. If you are not sure what you found within the inner cylinder came from the sky or came from the dew, please make a Comment with your findings.

- There are no zeros like snow zeros. Continue reporting snow fall, snow depth and total SWE of zero throughout the warm weather months.
- Condition Monitoring Reports are new to our network and go to a customer *not* called the National Weather Service. I want to show all of you where these reports end up in an upcoming newsletter article. In the meantime, if you have precip totals to share from the past 7 days, 30 days, 90 days, or longer, or if you see your area stream flows, reservoir or lake levels, ground soaked muddy wet, dusty brown and caked dry, or anything in between, fill out and submit a Condition Monitoring Report over the weekend, once or more a month. Put the ground into your ground truth reporting!

How the Condition Monitoring Reports fit into a weekly cycle is explained below.



Detail and Summary for April 2017

| Location | Station ID | Apr 2017 Precip | Apr departure from normal | Feb-Mar- Apr Precip | 3 month departure from normal | Nov-Apr Precip | 6 month departure from normal |
|---------------|---------------|-----------------------|------------------------------------|---------------------------|--|-------------------|--|
| Pittsfield MA | PSF | 3.29" | -0.57" | 9.26'' | -0.65" | 17.85" | -1.91" |
| Bridgeport CT | BDR | 4.82" | 0.69'' | 11.07'' | 0.10" | 22.01" | 1.22" |
| Hartford CT | BDL | 3.77" | 0.05" | 10.19'' | -0.04" | 19.47" | -1.32" |
| Worcester MA | ORH | 4.75" | 0.64'' | 11.20'' | -0.36" | 22.80" | -0.35" |
| Providence RI | PVD | 7.10" | 2.74" | 13.17" | 0.51" | 24.73" | -0.52" |
| Boston MA | BOS | 5.73" | 1.99'' | 13.13" | 1.82" | 23.33" | 0.89" |

From the National Weather Service (NWS) Climate sites for April 2017.

Looking at the spread of precip amounts above reminds us that "Rain does not fall the same on all." April was our first rainy month in over a year, nearly two years. Three rain events came through during the first week of the month, yielding over 3" of rain in many places. Clear skies held on for the 2nd week of the month. Lighter spring rains for the 3rd week of the month, and the month ended warm and dry.

There was one last snow event. Thanks to those that answered the call and submitted 65 reports for one last SWE Monday on April 3.

Last April, we broke through 5000 Daily Reports. This April, we broke through 7000 Daily Reports, breaking a one month reporting record, and making a 37% increase in reporting year-over-year. On we grow.

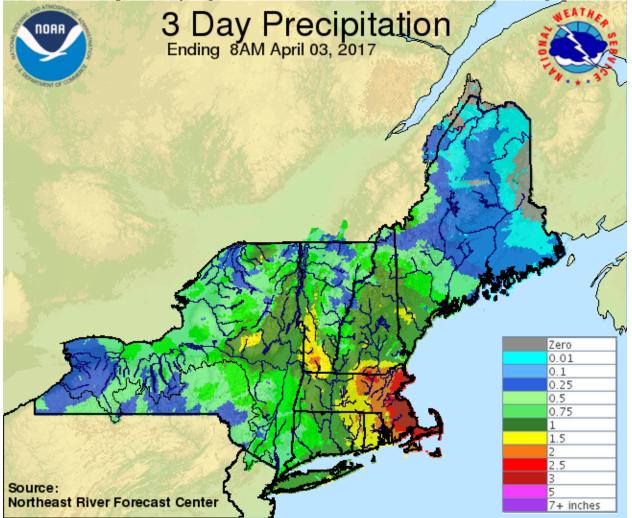
Making it more impressive was that this reporting record was done on a 30 day month. For the first half of April, there were 3242 Daily Reports. For the second half of April, there were 3809 Daily Reports. Over 550 more reports in the second half of the month, over 3800 Daily Reports in half of a month. May is off to a good start and we have hopes that this continues and climbs, yielding even more reporting records broken in May and beyond, like we did last year. We set our sights on breaking 8000 Daily reports and beyond as our growth resumes from its winter's rest.

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

From your reports for April 2017

- Observers reporting 311
- Reported all 30 days 127
- Completed by Multi-Day Reports 30
 - Missing 1 or 2 reports 37
 - Daily Reports 7051
 - Zero Reports 2971
 - Non-Zero Reports 4080
 - Daily Comments 1429
 - Multi-Day Reports 154
 - Condition Monitoring Reports 23
 - Significant Weather Reports 23
 - Hail Reports 5
 - Snowfall Reports 3473
 - Snow Depth Reports 1844

Highest Daily Report 3.25" from East Falmouth MA (MA-BA-46) reported on 4/2



For the benefit of the new observers: Every month, on the night before the newsletter comes out, your monthly reports are looked at to see if there are any missing reports and no Multi-Day Reports that overlap the beginning or the end of the month. If your station totals are complete for the month, it appears in this list, sorted by Watershed.

For the benefit of the more seasoned observers: Please look over your monthly reports, and fill in your missing reports. The website has a history of your past 7 days reporting, appearing after you submit a Daily Report. The mobile app has a "History" function also. There is the "Monthly Zeros" function. So many of you are close to having your totals appear in this long list with all of the others. For several reasons, time does not permit on the night before the newsletter to let a missing report or more, just slide by.

It is worth the effort to sort this by Watershed, because it does look amazing to see the similarities and the differences.

| Watershed | Watershed Name | Station | Station Name | Precip |
|------------|--|----------|----------------------|--------|
| 01060003 | Piscataqua-Salmon Falls | | | |
| 0106000310 | Hamptom River - Frontal Atlantic Ocean | MA-ES-1 | Salisbury 3.7 NW | 7.92'' |
| 01070004 | Nashua | | | |
| 0107000401 | North Nashua River | MA-WR-44 | Westminster 0.6 WSW | 5.64'' |
| 0107000401 | North Nashua River | MA-WR-8 | Fitchburg 1.6 SSW | 4.74" |
| 0107000401 | North Nashua River | MA-WR-13 | Leominster 1.5 S | 5.78'' |
| 0107000403 | Squannacook River | MA-MD-47 | West Townsend 0.5 W | 6.19" |
| 01070005 | Concord | | | |
| 0107000502 | Concord River | MA-WR-28 | Berlin 1.3 WSW | 6.86'' |
| 0107000502 | 0107000502 Concord River | | Northborough 2.3 N | 6.29'' |
| 0107000502 | 07000502 Concord River | | Harvard 2.1 S | 6.94'' |
| 0107000502 | 7000502 Concord River | | Acton 1.3 SW | 6.74'' |
| 0107000502 | Concord River | MA-MD-51 | Maynard 0.7 ESE | 6.80'' |
| 0107000502 | Concord River | MA-MD-62 | Chelmsford 1.2 E | 6.51'' |
| 01070006 | Merrimack River | | | |
| 0107000613 | Shawsheen River | MA-MD-52 | Lexington 0.6 SW | 6.71'' |
| 0107000614 | Powwow River - Merrimack River | MA-ES-3 | Haverhill 3.6 WNW | 6.29'' |
| 0107000614 | Powwow River - Merrimack River | MA-ES-20 | Haverhill 0.7 N | 5.60'' |
| 0107000614 | Powwow River - Merrimack River | MA-ES-27 | Amesbury 1.2 ENE | 7.86" |
| 01080201 | Middle Connecticut | | | |
| 0108020106 | Manhan River - Connecticut River | MA-HS-2 | Westhampton 1.8 SW | 6.73'' |
| 0108020106 | Manhan River - Connecticut River | MA-HS-8 | Williamsburg 1.2 WSW | 4.85" |
| 0108020106 | Manhan River - Connecticut River | MA-FR-12 | Sunderland 1.3 SE | 4.90'' |

| 0108020107 | Batchelor Brook - Connecticut River | MA-HD-13 | Springfield 4.1 W | 4.98'' |
|------------|--|----------|----------------------------|--------|
| 01080202 | Miller | | | |
| 0108020202 | Lower Millers River | MA-FR-21 | Millers Falls 0.2 SW | 4.93'' |
| 0108020202 | Lower Millers River | MA-WR-40 | Gardner 1.4 SSW | 3.66" |
| 01080203 | Deerfield | | | |
| 0108020305 | Lower Deerfield River | MA-FR-13 | Conway 2.9 NW | 6.20'' |
| 0108020305 | Lower Deerfield River | MA-FR-10 | Conway 0.9 SW | 5.72" |
| 01080204 | Chicopee | | | |
| 01080205 | Lower Connecticut | | | |
| 0108020502 | Scantic River | CT-TL-15 | Central Somers 0.3 N | 4.70" |
| 0108020503 | Park River | CT-HR-9 | West Hartford 2.7 NNW | 5.17" |
| 0108020503 | Park River | CT-HR-11 | West Hartford 2.7 SSE | 5.14" |
| 0108020504 | Hockanum River | CT-TL-16 | Vernon 3.5 NNE | 4.33" |
| 0108020505 | Roaring Brook - Connecticut River | CT-HR-6 | Wethersfield 1.2 WSW | 4.80" |
| 0108020505 | Roaring Brook - Connecticut River | CT-HR-22 | East Hartford 1.3 E | 4.62" |
| 0108020506 | Mattabesset River | CT-HR-15 | Southington 3.0 E | 6.89" |
| 0108020506 | Mattabesset River | CT-MD-12 | Middletown 3.1 WNW | 5.74" |
| 0108020507 | Higganum Creek - Connecticut River | CT-MD-2 | Portland 0.9 S | 5.36" |
| 01080206 | Westfield | | | |
| 0108020601 | Headwaters Westfield River | MA-HS-14 | Plainfield 2.4 ESE | 5.23" |
| 0108020603 | Outlet Westfield River | MA-HD-17 | Southwick 2.5 WSW | 5.49" |
| 01080207 | Farmington | | | |
| 0108020701 | Still River | CT-LT-15 | Colebrook 1.0 NE | 4.61" |
| 0108020702 | West Branch Farmington River | MA-BE-4 | Becket 5.6 SSW | 4.42" |
| 0108020704 | Headwaters Farmington River | CT-LT-9 | New Hartford Center 3.2 SW | 5.04" |
| 0108020704 | Headwaters Farmington River | CT-HR-24 | Collinsville 0.9 NW | 4.92" |
| 0108020704 | Headwaters Farmington River | CT-HR-28 | North Canton 0.8 SSW | 5.31" |
| 0108020705 | Salmon Brook | CT-HR-8 | North Granby 1.3 ENE | 5.40" |
| 01090001 | Charles | | | |
| 0109000101 | Plum Island Sound - Frontal Atlantic Ocean | MA-ES-24 | Newburyport 0.8 SW | 7.07" |
| 0109000102 | Ipswich River | MA-MD-85 | Wilmington 2.2 WNW | 7.07" |
| 0109000102 | Ipswich River | MA-MD-45 | Wilmington 1.5 NE | 6.76" |
| 0109000102 | Ipswich River | MA-ES-12 | Boxford 2.4 S | 6.92" |
| 0109000102 | Ipswich River | MA-ES-2 | Beverly 2.8 NW | 6.56" |
| 0109000103 | Essex River - Frontal Atlantic Ocean | MA-ES-41 | Danvers 0.8 ESE | 8.06" |
| 0109000104 | Saugus River - Frontal Broad Sound | MA-ES-8 | Marblehead 0.8 SW | 7.57" |
| 0109000105 | Mystic River - Frontal Boston Harbor | MA-MD-67 | Lexington 2.3 SE | 7.78" |
| 0109000105 | Mystic River - Frontal Boston Harbor | MA-MD-44 | Medford 1.2 W | 7.26" |
| 0109000105 | Mystic River - Frontal Boston Harbor | MA-MD-11 | Cambridge 0.9 NNW | 7.95" |
| 0109000106 | Upper Charles River | MA-WR-1 | Milford 2.3 NNW | 6.08'' |
| 0109000106 | Upper Charles River | MA-MD-55 | Holliston 0.7 W | 6.22'' |

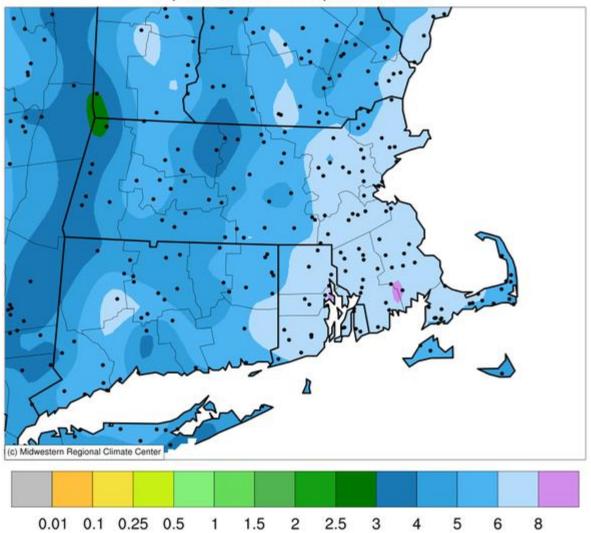
| 0109000106 | Upper Charles River | MA-MD-42 | Holliston 0.8 S | 6.05" |
|------------|---|----------|-------------------------|--------|
| 0109000106 | Upper Charles River | MA-NF-11 | Millis 2.0 SW | 5.72" |
| 0109000107 | Lower Charles River - Frontal Boston Harbor | MA-SF-1 | Boston 0.5 WSW | 5.54" |
| 0109000108 | Neponset River - Frontal Boston Harbor | MA-NF-1 | Norwood 1.3 NW | 6.78" |
| 0109000109 | Whitmans Pond - Frontal Boston Harbor | MA-NF-5 | Weymouth 0.5 NW | 7.55" |
| 01090002 | Cape Cod | | | |
| 0109000201 | North River - Frontal Massachusetts Bay | MA-PL-5 | Kingston 3.3 WNW | 8.16" |
| 0109000201 | North River - Frontal Massachusetts Bay | MA-PL-30 | Duxbury 3.7 W | 7.72" |
| 0109000202 | Cape Cod | MA-BA-57 | Falmouth 5.7 N | 6.59'' |
| 0109000202 | Cape Cod | MA-BA-14 | North Falmouth 0.5 ENE | 6.19" |
| 0109000202 | Cape Cod | MA-BA-50 | Falmouth 5.4 NNE | 5.59" |
| 0109000202 | Cape Cod | MA-BA-17 | East Falmouth 1.2 WNW | 4.39" |
| 0109000202 | Cape Cod | MA-BA-19 | East Falmouth 0.7 NW | 6.99'' |
| 0109000202 | Cape Cod | MA-BA-3 | Falmouth 3.0 E | 6.14" |
| 0109000202 | Cape Cod | MA-BA-11 | East Falmouth 1.4 ESE | 5.92" |
| 0109000202 | Cape Cod | MA-BA-18 | Waquoit 0.6 SSW | 6.92" |
| 0109000202 | Cape Cod | MA-BA-47 | Mashpee 2.4 WSW | 6.92" |
| 0109000202 | Cape Cod | MA-BA-45 | Sandwich 0.9 NNE | 6.26'' |
| 0109000202 | Cape Cod | MA-BA-49 | Sandwich 3.5 SSE | 7.29" |
| 0109000202 | Cape Cod | MA-BA-22 | Yarmouth 0.9 NNW | 6.62'' |
| 0109000202 | Cape Cod | MA-BA-33 | Brewster 1.5 ESE | 6.15" |
| 0109000202 | Cape Cod | MA-BA-52 | Truro 0.8 E | 5.91" |
| 0109000202 | Cape Cod | MA-BA-27 | Wellfleet 0.7 NW | 4.59'' |
| 0109000202 | Cape Cod | MA-BA-37 | Orleans 0.8 W | 6.04'' |
| 0109000202 | Cape Cod | MA-BA-51 | Orleans 3.0 S | 6.83'' |
| 0109000202 | Cape Cod | MA-BA-12 | Orleans 1.1 E | 5.62" |
| 0109000202 | Cape Cod | MA-BA-30 | Eastham 0.6 SW | 5.73" |
| 0109000203 | Mattapoisett River - Frontal Buzzards Bay | MA-PL-19 | Rochester 1.2 NNW | 9.16" |
| 0109000203 | Mattapoisett River - Frontal Buzzards Bay | MA-PL-6 | Middleborough 5.5 E | 7.17" |
| 0109000204 | Paskamanset River - Frontal Buzzards Bay | MA-BR-14 | Dartmouth 2.5 SSW | 7.05" |
| 0109000205 | Sakonnet Point - Frontal Rhode Island Sound | RI-NW-5 | Little Compton 1.7 NW | 8.00'' |
| 0109000205 | Sakonnet Point - Frontal Rhode Island Sound | RI-NW-7 | Little Compton 0.6 E | 8.19" |
| 0109000206 | Elizabeth Islands - Marthas Vineyard | MA-DK-2 | Vineyard Haven 0.8 WSW | 6.34'' |
| 0109000207 | Nantucket Island | MA-NT-1 | Nantucket 3.8 WNW | 5.58'' |
| 0109000207 | Nantucket Island | MA-NT-2 | Nantucket 2.2 E | 5.28" |
| 01090003 | Blackstone | | | |
| 0109000301 | Upper Blackstone River | MA-WR-41 | Auburn 2.6 SW | 5.96" |
| 0109000301 | Upper Blackstone River | MA-WR-43 | Leicester 2.4 ESE | 4.89" |
| 0109000302 | Lower Blackstone River | RI-PR-50 | Harrisville 1.2 SSE | 5.71" |
| 0109000302 | Lower Blackstone River | RI-PR-28 | North Smithfield 0.7 SE | 6.13" |
| 0109000302 | Lower Blackstone River | RI-PR-45 | Manville 0.4 WSW | 6.82" |

| 0109000302 | Lower Blackstone River | MA-NF-26 | Bellingham 2.4 S | 5.70" |
|------------|--|----------|---------------------------------|--------|
| 01090004 | Narragansett | | | |
| 0109000401 | Upper Taunton River | MA-BR-30 | Taunton 3.9 N | 7.94'' |
| 0109000403 | Threemile River | MA-NF-19 | Foxborough 1.8 SSW | 6.75" |
| 0109000403 | Threemile River | MA-BR-33 | Taunton 2.4 W | 8.36" |
| 0109000404 | Ten Mile River | MA-BR-40 | North Attleboro 0.3 E | 6.54" |
| 0109000404 | Ten Mile River | MA-BR-17 | North Attleboro 0.8 E | 6.70'' |
| 0109000405 | Wonnasquatucket River-Moshassuck River | RI-PR-33 | Greenville 0.7 NNW | 6.68'' |
| 0109000405 | Woonasquatucket River-Moshassuck River | RI-PR-51 | North Smithfield 0.6 S | 6.33" |
| 0109000406 | Pawtuxet River | RI-PR-44 | Cranston 4.2 ENE | 7.93" |
| 0109000407 | Palmer River | MA-BR-2 | Rehoboth 2.1 N | 7.57" |
| 0109000407 | Palmer River | MA-BR-35 | Swansea 4.6 WNW | 8.39" |
| 0109000408 | Lower Taunton River - Frontal Mount Hope Bay | MA-BR-3 | Norton 1.8 NNE | 7.97" |
| 0109000408 | Lower Taunton River - Frontal Mount Hope Bay | MA-BR-16 | Somerset 0.4 SSE | 7.24" |
| 0109000408 | Lower Taunton River - Frontal Mount Hope Bay | MA-BR-19 | Somerset 2.0 NNE | 7.14" |
| 0109000408 | Lower Taunton River - Frontal Mount Hope Bay | MA-BR-8 | Dighton 1.1 WSW | 8.11" |
| 0109000409 | Narragansett Bay | RI-WS-31 | Kingston 7.5 NNE | 8.86" |
| 0109000409 | Narragansett Bay | RI-KN-2 | East Greenwich 2.3 ESE | 8.74" |
| 0109000409 | Narragansett Bay | RI-PR-32 | Providence 2.3 NE | 7.40'' |
| 0109000409 | | | Middletown 1.1 SW | 5.90" |
| 0109000409 | Narragansett Bay | RI-NW-11 | Tiverton 0.8 SSW | 7.67" |
| 01090005 | Pawcatuck-Wood | | | |
| 0109000501 | Wood River | RI-WS-25 | Rockville 0.4 E | 8.27" |
| 0109000501 | Wood River | RI-WS-1 | Hope Valley 3.7 S | 8.06" |
| 0109000502 | Upper Pawcatuck River | RI-WS-37 | Kingston 2.4 SW | 6.03'' |
| 0109000504 | Frontal Block Island Sound | RI-WS-36 | Charlestown 3.0 WSW | 7.51" |
| 0109000504 | Frontal Block Island Sound | RI-WS-26 | Charlestown 1.1 ENE | 6.31'' |
| 01100001 | Quinebaug | | | |
| 0110000103 | Fivemile River | CT-WN-6 | Dayville 2.0 ENE | 4.96" |
| 0110000103 | Fivemile River | CT-WN-4 | East Killingly 1.3 SW | 5.04" |
| 0110000105 | Mossup River | CT-WN-8 | Moosup 1.7 NE | 5.62" |
| 0110000106 | Pachaug River | CT-NL-21 | Griswold 0.9 N | 5.50" |
| 01100002 | Shetucket | | | |
| 0110000201 | Willmantic River | CT-TL-18 | Hebron 5.3 NW | 4.88" |
| 0110000201 | Willmantic River | CT-TL-2 | Staffordville 0.4 NNW | 4.94" |
| 0110000203 | Shetucket River | CT-WN-10 | South Windham 1.3 NNE | 5.12" |
| 0110000203 | Shetucket River | CT-NL-10 | Norwich 2.5 NNE | 6.70'' |
| 01100003 | Thames | | | |
| 0110000302 | Thames River-Frontal New London Harbor | CT-NL-7 | Uncasville-Oxoboxo Valley 5.6 W | 7.29" |
| 0110000302 | Thames River-Frontal New London Harbor | CT-NL-17 | Waterford 2.2 N | 7.92" |
| 0110000302 | Thames River-Frontal New London Harbor | CT-NL-6 | New London 1.0 NNW | 7.55" |

| 0110000303 Mystic River - Frontal Fishers Island Sound CT-NL-19 Mystic 0.9 W 6.15" 0110000303 Mystic River - Frontal Fishers Island Sound CT-NL-24 Stonington 1.4 NNW 5.71" 011000040 Quinnipiac CT-NL-18 Stonington 0.5 NNE 6.31" 011000041 Quinnipiac River CT-NH-30 Cheshire Village 2.2 SE 6.75" 0110000401 Quinnipiac River CT-NH-33 Southington 0.9 SSE 6.21" 0110000402 Hammonasset River - Frontal Long Island Sound CT-NH-16 Westbrook Center 1.1 N 6.72" 0110000403 Mill River - Frontal Long Island Sound CT-NH-19 Hamden 3.0 WSW 7.34" 0110000501 Headwaters Housatonic River MA-BE-11 Great Barrington 3.0 N 3.74" 0110000501 Headwaters Housatonic River MA-BE-3 Stockbridge 2 NNE 3.63" 0110000503 Still River - Housatonic River CT-FR-43 Bethel 0.5 E 4.84" 0110000508 Still River - Housatonic River CT-FR-44 Newtown 4.3 E 5.72" 0110000512 Outlet Naugatuck River | 0110000303 | Mystic River - Frontal Fishers Island Sound | CT-NL-22 | Central Waterford 2.7 SSW | 6.90'' |
|---|------------|--|-----------|---------------------------------------|--------|
| 0110000303 Mystic River - Frontal Fishers Island Sound CT-NL-24 Stonington 1.4 NNW 5.71" 0110000303 Mystic River - Frontal Fishers Island Sound CT-NL-18 Stonington 0.5 NNE 6.31" 0110000401 Quinnipiac River CT-NH-30 Cheshire Village 2.2 SE 6.75" 0110000402 Hammonasset River - Frontal Long Island Sound CT-MR-33 Southington 0.9 SSE 6.21" 0110000402 Hammonasset River - Frontal Long Island Sound CT-MD-5 Westbrook Center 1.1 N 6.72" 0110000403 Mill River - Frontal Long Island Sound CT-NH-16 Milford 1.8 E 6.36" 0110000501 Headwaters Housatonic River MA-BE-11 Great Barrington 3.0 N 3.74" 0110000501 Headwaters Housatonic River MA-BE-3 Stockfirdge 2.0 NNW 3.63" 0110000508 Still River - Housatonic River CT-FR-43 Bethel 0.5 E 4.84" 0110000512 Gipttmile Brook - Housatonic River CT-FR-44 Newtom 4.3 E 5.72" 0110000512 Gipttmile Brook - Housatonic River CT-R4.4 Newtom 4.3 E 5.72" 01 | | | | | |
| 0110000303 Mystic River - Frontal Fishers Island Sound CT-NL-18 Stonington 0.5 NNE 6.31" 0110000401 Quinnipiac River CT-NH-30 Cheshire Village 2.2 SE 6.75" 0110000401 Quinnipiac River CT-HR-23 Southington 0.9 SSE 6.21" 0110000402 Hammonasset River - Frontal Long Island Sound CT-ML-35 Westbrook Center 1.1 N 6.72" 0110000402 Hammonasset River - Frontal Long Island Sound CT-NH-24 Milford 1.8 E 6.36" 0110000403 Mill River - Frontal Long Island Sound CT-NH-29 Hamen 3.0 WSW 7.34" 011000050 Housatonic Frontal Long Island Sound CT-NH-29 Hamen 3.0 WSW 7.34" 011000051 Headwaters Housatonic River MA-BE-11 Great Barrington 3.0 N 3.74" 0110000501 Headwaters Housatonic River MA-BE-10 Pittsfield 2.0 NNW 3.63" 0110000508 Still River - Housatonic River CT-FR-43 Bethel 0.5 E 4.84" 0110000508 Still River - Housatonic River CT-FR-44 Newtown 4.3 E 5.72" 0110000512 | | | | | |
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| 0110000401Quinnipiac RiverCT-NH-30Cheshire Village 2.2 SE6.75"0110000402Hammonasset River - Frontal Long Island SoundCT-MD-5Westbrook Center 1.1 N6.72"0110000403Hammonasset River - Frontal Long Island SoundCT-MD-11Westbrook Center 1.5 NE6.71"0110000403Mill River - Frontal Long Island SoundCT-NH-16Milford 1.8 E6.36"0110000403Mill River - Frontal Long Island SoundCT-NH-29Hamden 3.0 WSW7.34"0110000501Headwaters Housatonic RiverMA-BE-11Great Barrington 3.0 N3.74"0110000501Headwaters Housatonic RiverMA-BE-10Pittsfield 2.0 NNW3.63"0110000501Headwaters Housatonic RiverCT-FR-43Bethel 0.5 E4.84"0110000503Still River - Housatonic RiverCT-FR-41Bethel 3.5 NNE4.37"0110000504Still River - Housatonic RiverCT-FR-41Bethel 3.5 NNE4.37"0110000505Still River - Housatonic RiverCT-FR-42Newtown 4.3 E5.72"0110000512Outlet Naugatuck RiverCT-NH-26Prospect 1.5 NW5.90"0110000513Housatonic River - Frontal Long Island SoundCT-FR-23Shelton 1.3 W6.06"0110000513Housatonic River - Frontal Long Island SoundCT-FR-24Monroe 0.1 SE5.75"0110000513Housatonic River - Frontal Long Island SoundCT-FR-23Shelton 1.3 W6.06"0110000513Housatonic River - Frontal Long Island SoundCT-FR-24Monroe 0.1 SE5.75"< | | | CI-INL-10 | | 0.51 |
| 0110000401 Quinnipiac River CT-HR-23 Southington 0.9 SSE 6.21" 0110000402 Hammonasset River - Frontal Long Island Sound CT-MD-5 Westbrook Center 1.1 N 6.72" 0110000403 Mill River - Frontal Long Island Sound CT-MD-11 Westbrook Center 1.5 NE 6.71" 0110000403 Mill River - Frontal Long Island Sound CT-NH-16 Milford 1.8 E 6.36" 0110000403 Mill River - Frontal Long Island Sound CT-NH-29 Hamden 3.0 WSW 7.34" 011000050 Housatonic Malkers Housatonic River MA-BE-11 Great Barrington 3.0 N 3.74" 0110000501 Headwaters Housatonic River MA-BE-3 Stockbridge .2 NNE 3.63" 0110000503 Still River - Housatonic River CT-FR-43 Bethel 0.5 E 4.84" 0110000508 Still River - Housatonic River CT-FR-44 Newtown 4.3 E 5.72" 0110000512 Outlet Naugatuck River CT-FR-42 Nonroe 0.1 SE 5.75" 0110000513 Housatonic River - Frontal Long Island Sound CT-FR-42 Monroe 0.1 SE 5.75" 0110000513 </td <td colspan="2"></td> <td></td> <td>Cheshire Village 2.2 SE</td> <td>6 75"</td> | | | | Cheshire Village 2.2 SE | 6 75" |
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| 0110000512Outlet Naugatuck RiverCT-NH-22Prospect 0.5 SW5.84"0110000513Housatonic River - Frontal Long Island SoundCT-FR-42Monroe 0.1 SE5.75"0110000513Housatonic River - Frontal Long Island SoundCT-FR-23Shelton 1.3 W6.06"0110000513Housatonic River - Frontal Long Island SoundCT-FR-46Stratford 0.2 ESE6.60"01100006SaugatuckCT-FR-31Newtown 4.6 SSW4.50"0110000601Saugatuck River - Frontal Long Island SoundCT-FR-31Newtown 4.6 SSW4.50"0110000602Norwalk River - Frontal Norwalk HarborCT-FR-3New Canaan 1.9 ENE5.63"0110000602Norwalk River - Frontal Norwalk HarborCT-FR-3New Canaan 1.9 ENE5.63"0110000603Pequonnock River - Frontal Long Island SoundCT-FR-32Monroe 0.8 W5.83"0110000604Mianus River-Rippowam RiverCT-FR-39Stamford 4.2 S5.46"0110000604Mianus River-Rippowam RiverCT-FR-50Darien 2.8 NW6.05" | 0110000510 | Eightmile Brook - Housatonic River | CT-FR-44 | Newtown 4.3 E | 5.72" |
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| 0110000513Housatonic River - Frontal Long Island SoundCT-FR-46Stratford 0.2 ESE6.60"01100006SaugatuckSaugatuck0110000601Saugatuck River - Frontal Long Island SoundCT-FR-31Newtown 4.6 SSW4.50"0110000602Norwalk River - Frontal Norwalk HarborCT-FR-29Ridgefield 1.9 SSE5.54"0110000602Norwalk River - Frontal Norwalk HarborCT-FR-3New Canaan 1.9 ENE5.63"0110000602Norwalk River - Frontal Norwalk HarborCT-FR-25Norwalk 2.9 NNW5.94"0110000603Pequonnock River - Frontal Long Island SoundCT-FR-32Monroe 0.8 W5.83"0110000604Mianus River-Rippowam RiverCT-FR-39Stamford 4.2 S5.46"0110000604Mianus River-Rippowam RiverCT-FR-50Darien 2.8 NW6.05" | 0110000513 | Housatonic River - Frontal Long Island Sound | CT-FR-42 | Monroe 0.1 SE | 5.75" |
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| 0110000602Norwalk River - Frontal Norwalk HarborCT-FR-29Ridgefield 1.9 SSE5.54"0110000602Norwalk River - Frontal Norwalk HarborCT-FR-3New Canaan 1.9 ENE5.63"0110000602Norwalk River - Frontal Norwalk HarborCT-FR-25Norwalk 2.9 NNW5.94"0110000603Pequonnock River - Frontal Long Island SoundCT-FR-32Monroe 0.8 W5.83"0110000604Mianus River-Rippowam RiverCT-FR-39Stamford 4.2 S5.46"0110000604Mianus River-Rippowam RiverCT-FR-50Darien 2.8 NW6.05" | 01100006 | Saugatuck | | | |
| 0110000602Norwalk River - Frontal Norwalk HarborCT-FR-29Ridgefield 1.9 SSE5.54"0110000602Norwalk River - Frontal Norwalk HarborCT-FR-3New Canaan 1.9 ENE5.63"0110000602Norwalk River - Frontal Norwalk HarborCT-FR-25Norwalk 2.9 NNW5.94"0110000603Pequonnock River - Frontal Long Island SoundCT-FR-32Monroe 0.8 W5.83"0110000604Mianus River-Rippowam RiverCT-FR-39Stamford 4.2 S5.46"0110000604Mianus River-Rippowam RiverCT-FR-50Darien 2.8 NW6.05" | 0110000601 | Saugatuck River - Frontal Long Island Sound | CT-FR-31 | Newtown 4.6 SSW | 4.50" |
| 0110000602 Norwalk River - Frontal Norwalk Harbor CT-FR-25 Norwalk 2.9 NNW 5.94" 0110000603 Pequonnock River - Frontal Long Island Sound CT-FR-32 Monroe 0.8 W 5.83" 0110000604 Mianus River-Rippowam River CT-FR-39 Stamford 4.2 S 5.46" 0110000604 Mianus River-Rippowam River CT-FR-50 Darien 2.8 NW 6.05" | 0110000602 | | CT-FR-29 | Ridgefield 1.9 SSE | 5.54" |
| 0110000603 Pequonnock River - Frontal Long Island Sound CT-FR-32 Monroe 0.8 W 5.83" 0110000604 Mianus River-Rippowam River CT-FR-39 Stamford 4.2 S 5.46" 0110000604 Mianus River-Rippowam River CT-FR-50 Darien 2.8 NW 6.05" | 0110000602 | Norwalk River - Frontal Norwalk Harbor | CT-FR-3 | New Canaan 1.9 ENE | 5.63" |
| 0110000604 Mianus River-Rippowam River CT-FR-39 Stamford 4.2 S 5.46" 0110000604 Mianus River-Rippowam River CT-FR-50 Darien 2.8 NW 6.05" | 0110000602 | | | Norwalk 2.9 NNW | 5.94" |
| 0110000604 Mianus River-Rippowam River CT-FR-39 Stamford 4.2 S 5.46" 0110000604 Mianus River-Rippowam River CT-FR-50 Darien 2.8 NW 6.05" | 0110000603 | Pequonnock River - Frontal Long Island Sound | CT-FR-32 | Monroe 0.8 W | 5.83" |
| 011000604 Mianus River-Rippowam River CT-FR-50 Darien 2.8 NW 6.05" | | | | Stamford 4.2 S | 5.46" |
| | 0110000604 | | | Darien 2.8 NW | 6.05" |
| | 0110000604 | Mianus River-Rippowam River | CT-FR-35 | Darien 1.8 ENE | 5.58" |

Accumulated Precipitation (in)

April 01, 2017 to April 30, 2017



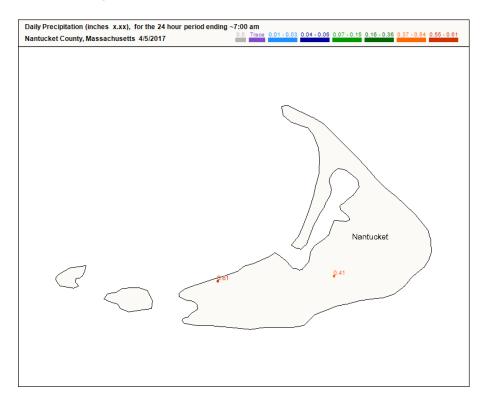
Map of the Month – Nantucket County MA

What Herman Melville called "an elbow of sand; all beach, without a background", a leftover pile of sand and gravel from the retreating ice age, 30 miles south of the coast of Cape Cod, once the whaling capital of the world, where the land meets the sky and the sea, the smell of salt air, the thunder of the waves, the chimes from the clock tower, what the Algonquins called "Natockete", the far away place.

When the ferry boat comes around Brant Point Lighthouse, a harbor opens up a location locked in time but always moving, church steeples, the oldest functioning windmill in the US from 1746, no traffic lights, cobblestone streets near the harbor, buildings sided with greying cedar shingles and white trim, a bustling airport and ferry terminal, quiet hamlets, bike paths, conservation lands and farm lands, lighthouses, and home to well over 10,000 people during the winter, and nearly 50,000 people during the summer on 50 square miles of land.

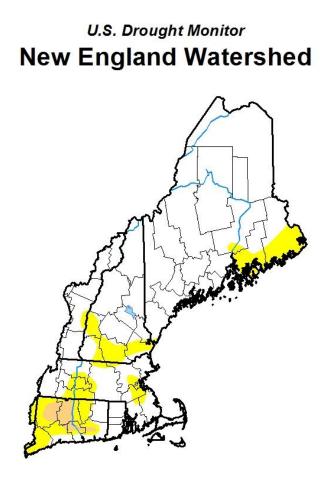
They all get their water from the same aquifer, barely 40 feet below the surface, a narrow interface between salt water and fresh water. Quantity of water is not the biggest problem, but quality is as development, insecticdes and herbicides can affect the underground aquifer.

This locale is so different, being out among the currents of the North Atlantic. If you know of someone who wants to find and make a difference, ask them to join us at CoCoRaHS.



From the Drought Monitor.

A year ago, this image looked about the same as it does now. A warm and dry summer followed and the drought worsened. Winter snows and spring rains help fill reservoirs. Summer rains help sustain a growing season. Every drop counts and zeros do too!



May 2, 2017 (Released Thursday, May. 4, 2017) Valid 8 a.m. EDT

| | None | D0 | D1 | D2 | D3 | D4 |
|---|-------|-------|-------|---------------------|-------|------|
| Current | 82.86 | 15.13 | 2.00 | 0.00 | 0.00 | 0.00 |
| Last Week 04-25-2017 | 70.05 | 26.82 | 3.12 | 0.00 | 0.00 | 0.00 |
| 3 Month s Ago 01-31-2017 | 17.02 | 23.02 | 40.65 | <mark>15.5</mark> 9 | 3.72 | 0.00 |
| Start of Calendar Year 01-03-2017 | 14.64 | 11.89 | 49.23 | 19.61 | 4.63 | 0.00 |
| Start of Water Year 09-27-2016 | 26.77 | 14.45 | 18.64 | 25.58 | 14.56 | 0.00 |
| One Year Ago 05-03-2016 | 90.13 | 9.87 | 0.00 | 0.00 | 0.00 | 0.00 |

Intensity:

D2 Severe Drought

D0 Abnormally Dry 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: Brian Fuchs National Drought Mitigation Center



http://droughtmonitor.unl.edu/

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

Rulers of the Snow

If we say that "Rain does not fall the same on all", snowfall is even more dynamic among our three states. To start the snow season, the hills of western Massachusetts saw the Lake Effect snows stream into their area, for February and March, Blizzard Warnings came to southern, coastal and eastern ends of our area, and one late season snow event for the northern parts of Massachusetts.

Throughout the snow season, your reports of snow are seen and used by many. We mentioned in a newsletter article about NOHRSC and evidence that your reports are directly used into their snow modeling and hydrologic forecasts. Every month, that newsletter article from Nevada was mentioned on how some group at syracuse.com was looking at CoCoRaHS and others for stations that did not miss any days of snow reporting.

Measuring and reporting snowfall, snow depth, and SWE is not something automated machines can do. What you do, by sticking a ruler in the snow and taking core samples and melting core samples, reporting zeros in the snow section, is extremely valuable and noteworthy work.

Our observers in Berkshire, Franklin and Hampshire Counties did outstanding work this winter season. Their reports, and their Comments such as these, highlighted the often difficult conditions encountered in obtaining snowfall, snow depth and our SWE Monday custom.

| | | | | | SW, clear. Snow pack has become ice. |
|----------|----------|--------------|-----|------|---------------------------------------|
| 2/6/2017 | MA-FR-17 | Buckland 1.8 | ESE | 0.00 | Weekly SWE had to be chipped out with |
| | | | | | ice pick making it inaccurate |

Our observer in Becket MA, MA-BE-4, has once again stood out above all others when it comes to measuring and reporting snow. While most of us saw snow come and go, pile up and melt away, this observer measured snowfall and snow depth every day, and reported snow cover on the ground for over 128 days out of 135 days from a period from around Thanksgiving in late November through all of March into early April.

Thank you one and all for measuring and reporting snow during this past season. Sometimes easy, sometimes difficult, but always valuable.

In this next section, your snowfall and snow depth reports were looked at from a period ranging from October 1, 2016 to April 3, 2017, a period of 185 days.

The following observers submitted the most snow fall reports, mostly zeros, during that period of time. The sort is by County from west to east, north to south. You are the Rulers of the Snow.

| Station | Name | 2016-2017 Snowfall | 185 Days Snowfall Reports | 185 Days Snow Depth Reports |
|----------|----------------------------|-----------------------|---------------------------------|-----------------------------------|
| MA-BE-4 | Becket 5.6 SSW | 93.8'' | \checkmark | ✓ |
| CT-LT-9 | New Hartford Center 3.2 SW | 72.1" | | |
| CT-FR-23 | Shelton 1.3 W | 48.7'' | \checkmark | |
| CT-FR-9 | Brookfield 3.3 SSE | 51.6'' | \checkmark | ✓ |
| CT-FR-44 | Newtown 4.3 E | 48.9'' | | |
| CT-FR-29 | Ridgefield 1.9 SSE | 56.9'' | | |
| CT-FR-25 | Norwalk 2.9 NNW | 40.3'' | | |
| MA-FR-13 | Conway 2.9 NW | 74.2'' | | |
| MA-FR-17 | Buckland 1.8 ESE | 74.3'' | | |
| MA-FR-10 | Conway 0.9 SW | 66.5'' | | |
| CT-HR-24 | Collinsville 0.9 NW | 65.2'' | \checkmark | ✓ |
| CT-HR-11 | West Hartford 2.7 SSE | 55.2'' | | |
| CT-HR-8 | North Granby 1.3 ENE | 65.9'' | | |
| MA-WR-42 | Northborough 2.3 N | 54.7'' | | |
| CT-NL-6 | New London 1.0 NNW | 40.7'' | | |
| CT-NL-21 | Griswold 0.9 N | 39.5'' | | |
| RI-PR-33 | Greenville 0.7 NNW | 59.2'' | \checkmark | |
| RI-NW-7 | Little Compton 0.6 E | 22.2'' | | |
| RI-NW-11 | Tiverton 0.8 SSW | 40.1'' | | |
| MA-BR-8 | Dighton 1.1 WSW | 50.8'' | | |
| MA-MD-51 | Maynard 0.7 ESE | 58.7'' | | |
| MA-MD-12 | Acton 1.3 SW | 63.7'' | | |
| MA-ES-12 | Boxford 2.4 S | 57.1" | ✓ | ✓ |
| MA-ES-4 | Groveland 0.5 WSW | 71.9'' | \checkmark | ✓ |
| MA-ES-3 | Haverhill 3.6 WNW | 71.8" | | |
| MA-NF-1 | Norwood 1.3 NW | 53.2" | ✓ | ✓ |
| MA-NF-11 | Millis 2.0 SW | 44.1'' | | |
| MA-BA-3 | Falmouth 3.0 E | 40.9'' | ✓ | ✓ |
| MA-BA-8 | Falmouth 1.8 WSW | 29.0'' | | |
| MA-BA-12 | Orleans 1.1 E | 21.2" | | |

Happy Anniversary, Massachusetts!



March 1, 2009. Massachusetts is admitted to CoCoRaHS, the 40th state to join the network.

As of May 1, 2017, these 30 active observers have submitted over 2000 Daily Reports.

MA-NF-1 Norwood 1.3 NW MA-BR-3 Norton 1.8 NNE MA-BA-3 Falmouth 3.0 E MA-ES-3 Haverhill 3.6 WNW MA-ES-4 Groveland 0.5 WSW MA-BR-8 Dighton 1.1 WSW Salisbury 3.7 NW MA-ES-1 MA-PL-5 Kingston 3.3 WNW MA-ES-8 Marblehead 0.8 SW MA-ES-2 Beverly 2.8 NW MA-WR-1 Milford 2.3 NNW MA-BA-1 Yarmouth 2.3 SSE MA-BR-2 Rehoboth 2.1 N MA-MD-7 Winchester 0.7 SE MA-BA-8 Falmouth 1.8 WSW Massachusetts CoCoRaHS

MA-NF-5 Weymouth 0.5 NW MA-MD-12 Acton 1.3 SW MA-PL-6 Middleborough 5.5 E Taunton 2.6 NW MA-BR-9 MA-BE-4 Becket 5.6 SSW MA-BA-18 Waquoit 0.6 SSW East Falmouth 1.2 WNW MA-BA-17 MA-BE-3 Stockbridge .2 NNE **MA-WR-13** Leominster 1.5 S MA-MD-11 Cambridge 0.9 NNW MA-BA-13 Falmouth 0.6 NNW MA-BA-12 Orleans 1.1 E MA-BA-19 East Falmouth 0.7 NW MA-ES-12 Boxford 2.4 S MA-HS-2 Westhampton 1.8 SW

Comments by Joe DelliCarpini – Science & Operations Officer, NWS Taunton MA and State Coordinator for Massachusetts



PROMOTIONAL PHOTO FOR MASSACHUSETTS COCORAHS (HENRY REGES)

After Rhode Island was established as the first state in New England to join CoCoRaHS in April 2008, Henry Reges set his sights on Massachusetts to join the growing network. As a frequent visitor to Plymouth to see family and friends, he provided us with a special photo which we still use today (left). It's not every day you see a 4-inch rain gauge next to a historical landmark!

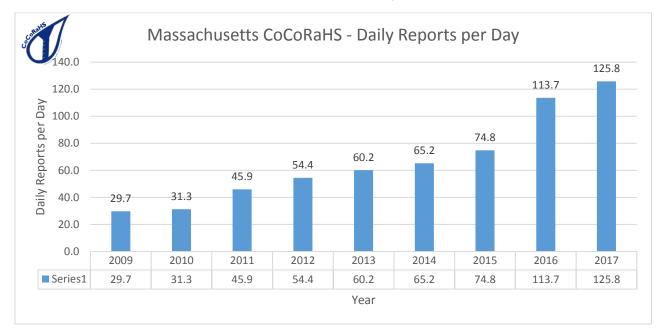


GAUGE PICTURE OF AMS HQ ON BEACON STREET IN BOSTON, MA-SF-1

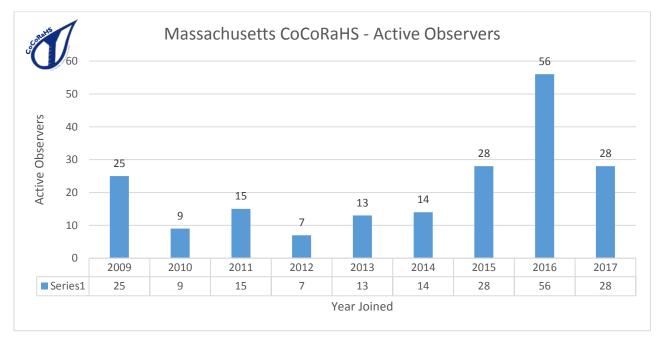
Henry worked with our office to set up a meeting at the American Meteorological Society's (AMS) Headquarters in Boston. We also invited representatives from Massachusetts DCR (Department of Conservation and Recreation) to join us since they were a key partner of ours for drought and water resource management in the state. Henry felt it would be appropriate for the AMS Headquarters to be the first CoCoRaHS station in the Commonwealth and to this day you

can see their reports listed under MA-SF-1. We began an aggressive recruiting campaign that included newspapers, TV meteorologists, and NWS Skywarn training sessions.

Prior to the March 1, 2009 startup we had 16 observers ready to go! During the first month, another 32 observers signed up, and as of this month we have grown to a total of 191 actively reporting observers in Massachusetts. We want to give a special welcome to the 53 observers who signed up during this year's CoCoRaHS March Madness recruiting drive! All of the other states have had their ups and downs with reporting, except one. Be proud of the Massachusetts reporting.



Recruiting helps! If you know of someone who would like the measure and map precipitation, ask them to join us at CoCoRaHS.



<u>Wrap up</u>

As the days get longer, the storms get stronger. Be safe and informed with severe thunderstorm, tornado, hail and lightning events should they occur in your locale. Pay attention to your National Weather Service Forecast Office's issuance of Hazardous Weather Outlooks (HWO's), Watches and Warnings or Advisories.

This time of the year is a relevant time of year to look at the Storm Prediction Center's website from Norman OK. A nationwide outlook is given to the risk of storms occurring in a certain area across our continent.

We have mentioned Hail in the past two newsletters. The "H" is CoCoRaHS is for Hail. If you do experience hail, keep track of the start and end time of the hailstones, and when it's safe to do so, measure and report a Hail Report on the website. It only takes a minute for that report to find its way to your local NWS Forecast Office.

This month's WxTalk Webinar on May 11th is from one our first observers in the area, the AMS headquarters, MA-SF-1, in Boston. Join in live or watch the recording on YouTube.

We did this last year and it worked out well, so we are going to do it again this year. A call to all of you to take 1 digital picture of your rain gauge. With your permission and your station ID, we would like to make a photo montage of all of your gauges, a close up picture of your gauge and point the camera in a direction that can make for a good background. Please make the digital picture more about the gauge. If you want to include a little background story, we will print that too.

We will make this call for pictures over the next 1 or 2 monthly newsletters. By the end of summer, we hope to have a photo montage put together. Email your photo along with your CoCoRaHS Station ID to joseph.dellicarpini@noaa.gov for MA & RI observers or to matt.spies@att.net for the CT observers. Subject: Gauge Photo please, so we can group these email messages together within our inbox.

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