Community Collaborative Rain, Hail & Snow Network



July 2016

Take a closer look at that flag. It is not what you are used to seeing. Count the stars and stripes and then dive deeper into our history. 3 of those stars and stripes belong to our 3 states. If your travels ever take you through Baltimore MD, do see where that flag is gallantly streaming.

There have been a few reports of Trace or higher with clear skies day and night. With so many clear nights, morning dew appears often. What to do about dew?

Ours is the largest precipitation database ever built. Take a look at another inquiry tool that will total stations' reports for a certain date range. It's the same inquiry tool used every month to obtain your totals for this newsletter.

Despite the lack of rainy days, your reporting continues to be strong. Read ahead to see the reporting statistics for the month of June.

One of our feature articles is about NOAA Weather Radio, another way of obtaining weather information and warnings.

Two other additions from recent news. The first is about Watersheds. The second is our CoCoRaHS theme song.

Welcome to all of our new observers.

Precipitation and Condensation

It's time for Morning observation. A look at your gauge and there's moisture all over and some in the inner cylinder. What do you report?

Look around for confirming cues. Is the pavement wet? Are there puddles of water? Another way to tell is to look at the funnel. If the water droplets are very small, it is condensation. Bigger droplets means precipitation.

We measure and report precipitation, not condensation. If you receive a few drops of rain or flakes of snow, report a Trace. If you are not sure, if the fog was so dense you had to use your car's wipers, make a comment. With clear skies, day and night, think twice before submitting a report of Trace or 0.01" or 0.02".

Total Precipitation Summary

As an observer, spend some time with the inquiry tools on the website. One tool to use is Total Precipitation Summary. Select a state, county and date range. The number of reports, daily report total and multi-day precipitation total appear. Click on a column to change the sort sequence. Click on the station ID to see the detail reports of that station.

View Data	View Data	a : Total Precipitation	n Sum	mary	US Unit	ts 🔻	
Daily Precip Reports Daily Comments Reports Significant Weather Reports Multiple Day Reports Drought Impact Reports	Location Date Rar		ut		• Tolland	•	
Days with Hail Search Hail Reports Station Hail Reports Station Precip Summary	7 Stations <u>Station</u> <u>Number</u> ▲	with 210 Reports over 3 <u>Station Name</u>	Daily Precip	<u>Multi-</u>	Iotal	<u>Daily</u> Snow Sum	<u># of</u> Reports
<u>etadorritorip etaninary</u>			<u>in.</u>	in.	<u>in.</u>		Reports
	CT-TL-2	Staffordville 0.4 NNW	<u>in.</u> 2.55	<u></u>		<u>in.</u> 0.0	30
Water Year Summary		Staffordville 0.4 NNW Mansfield Center 1.9 SW	2.55	<u></u>	2.55	<u>in.</u>	
Water Year Summary Station Precip Summary	<u>CT-TL-4</u> CT-TL-13	Mansfield Center 1.9 SW Crystal Lake 1.2 W	2.55	<u></u>	2.55 1.74	<u>in.</u> 0.0	30
<u>Water Year Summary</u> <u>Station Precip Summary</u> <u>Station Snow Summary</u>	<u>CT-TL-4</u> CT-TL-13	Mansfield Center 1.9 SW Crystal Lake 1.2 W	2.55 1.74		2.55 1.74 2.29	<u>in.</u> 0.0 0.0	30 30
Water Year Summary Station Precip Summary Station Snow Summary Rainy Days Report	CT-TL-4 CT-TL-13 CT-TL-14	Mansfield Center 1.9 SW Crystal Lake 1.2 W Storrs 1.5 SW	2.55 1.74 2.29		2.55 1.74 2.29 2.40	<u>in.</u> 0.0 0.0 0.0	30 30 30
<u>Water Year Summary</u> <u>Station Precip Summary</u> <u>Station Snow Summary</u>	CT-TL-4 CT-TL-13 CT-TL-14 CT-TL-15 CT-TL-16	Mansfield Center 1.9 SW Crystal Lake 1.2 W Storrs 1.5 SW Central Somers 0.3 N	2.55 1.74 2.29 2.40		2.55 1.74 2.29 2.40 2.05 3.31	in. 0.0 0.0 0.0 0.0	30 30 30 30 30

Detail and Summary for June 2016

Location	Station ID	June 2016 Precip	June departure from normal	Apr- May- June Precip	3 month departure from normal	Jan-June Precip	6 month departure from normal
Pittsfield MA	PSF	2.50"	-1.90"	8.97"	-3.50"	16.60''	-4.84"
Bridgeport CT	BDR	1.26''	-2.35"	7.47"	-4.07"	16.80''	-4.68''
Hartford CT	BDL	2.01"	-2.34"	6.92''	-5.50"	15.95"	-6.21''
Worcester MA	ORH	1.66''	-2.53''	6.50''	-5.99''	17.38''	-6.04"
Providence RI	PVD	1.05"	-2.59"	8.14''	-3.41"	19.17"	-4.54"
Boston MA	BOS	1.33"	-2.35"	7.07"	-3.84"	17.67''	-4.17"

From the National Weather Service (NWS) Climate sites for June 2016.

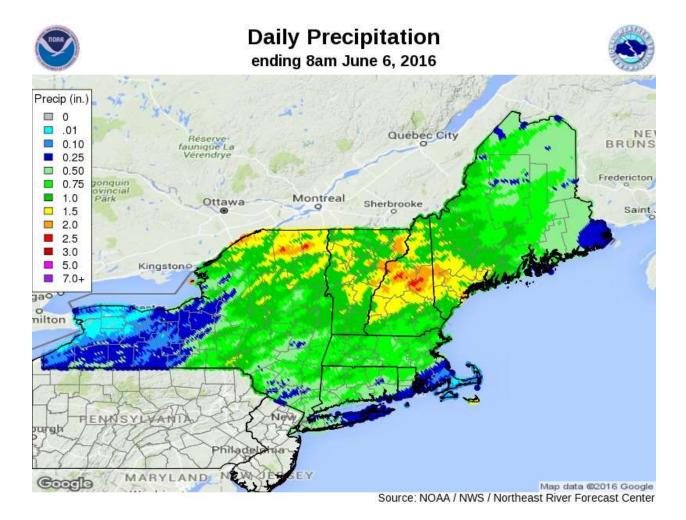
Another month of below normal precipitation. Spring rains were with us for the first week of June, with a widespread rain on June 5, a map from the NERFC included. Widespread rain on the 11th. Predawn thunderstorms woke some of us out of bed on the 21st. More rain on the 28th. Many days of clear skies, day and night.

Last June, our three states submitted 3464 daily reports. This month of June, our three states submitted over 3897 reports of zero! Add the remaining precipitation reports and our total was 5750 daily reports, which is very close to our record set last month on a 31 day month. Congratulations to all for making another record breaking month of 30 days and with so few days of precipitation to report.

It seems natural to report precipitation, but zeros, the stretch of clear days and nights, leaving no missing days by Daily or Multi-Day reporting, this is what helps define our climate. Currently, the climate is dry, and your volunteer efforts reporting for every day helps define that.

From your reports for June 2016

Observers reporting	245
Reported all 30 days	96
Completed by Multi-Day Reports	29
Missing 1 or 2 reports	40 *** Please look over your station data at end of the month.
Daily Reports	5750
Zero Reports	3897
Non-Zero Reports	1853
Comments	646
Multi-Day Reports	124
Significant Weather Reports	3
Hail Reports	0
Highest Daily Report	1.77 from Williamsburg MA (MA-HS-8) reported on 6/6



125 stations listed here. Another 4 page listing. With a little more effort, we can make it 5 pages long. Enjoy and learn from the variability that our network captures.

Station	Location	Precip	County & State
MA-BE-5	Tyringham 1.5 WNW	2.75"	Berkshire MA
CT-LT-14	Watertown 0.5 S	1.66''	Litchfield CT
CT-LT-9	New Hartford Center 3.2 SW	2.76"	Litchfield CT
CT-FR-39	Stamford 4.2 S	1.31"	Fairfield CT
CT-FR-37	Stamford 0.4 WNW	1.93"	Fairfield CT
CT-FR-29	Ridgefield 1.9 SSE	1.49''	Fairfield CT
CT-FR-3	New Canaan 1.9 ENE	1.22"	Fairfield CT
CT-FR-35	Darien 1.8 ENE	1.64''	Fairfield CT
CT-FR-41	Bethel 3.5 NNE	1.47"	Fairfield CT
CT-FR-9	Brookfield 3.3 SSE	1.61"	Fairfield CT
CT-FR-31	Newtown 4.6 SSW	1.43"	Fairfield CT
CT-FR-20	Westport 2.5 ENE	1.95"	Fairfield CT
CT-FR-32	Monroe 0.8 W	1.62"	Fairfield CT
CT-FR-42	Monroe 0.1 SE	1.56''	Fairfield CT
CT-FR-23	Shelton 1.3 W	1.35"	Fairfield CT
CT-NH-16	Milford 1.8 E	1.58''	New Haven CT
CT-NH-22	Prospect 0.5 SW	1.94''	New Haven CT
CT-NH-14	Prospect 1.9 ENE	1.19"	New Haven CT
CT-NH-21	East Haven 3.5 SSW	2.03"	New Haven CT
MA-FR-17	Buckland 1.8 ESE	2.29"	Franklin MA
MA-FR-13	Conway 2.9 NW	2.03"	Franklin MA
MA-FR-10	Conway 0.9 SW	1.85"	Franklin MA
MA-FR-12	Sunderland 1.3 SE	2.00"	Franklin MA
MA-HS-2	Westhampton 1.8 SW	2.32"	Hampshire MA
MA-HS-8	Williamsburg 1.2 WSW	2.31"	Hampshire MA
MA-HD-23	Springfield 2.5 WNW	2.10"	Hampden MA
MA-HD-16	Wales 0.4 SSW	2.09"	Hampden MA
CT-HR-24	Collinsville 0.9 NW	2.55"	Hartford CT
CT-HR-28	North Canton 0.8 SSW	2.84"	Hartford CT
CT-HR-23	Southington 0.9 SSE	1.61"	Hartford CT
CT-HR-15	Southington 3.0 E	1.83"	Hartford CT
CT-HR-8	North Granby 1.3 ENE	2.33"	Hartford CT
CT-HR-35	Weatogue 0.7 E	2.68"	Hartford CT
CT-HR-34	Granby 0.8 W	1.55"	Hartford CT
CT-HR-36	West Hartford 1.1 W	1.72"	Hartford CT
CT-HR-18	Berlin 2.4 SSE	1.82"	Hartford CT

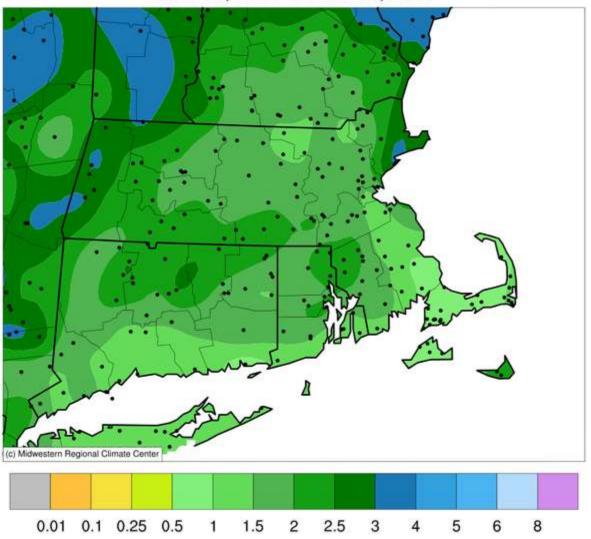
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RI-WS-31Kingston 7.5 NNE1.81''Washington RIRI-NW-4Middletown 1.1 SW0.80''Newport RI			-	<u> </u>
RI-NW-4 Middletown 1.1 SW 0.80'' Newport RI				
				<u> </u>
	RI-NW-7	Little Compton 0.6 E	1.62"	Newport RI

MA-BR-23	Attleboro 0.9 ENE	2.09''	Bristol MA
MA-BR-2	Rehoboth 2.1 N	2.56"	Bristol MA
MA-BR-3	Norton 1.8 NNE	2.54"	Bristol MA
MA-BR-8	Dighton 1.1 WSW	2.00"	Bristol MA
MA-BR-30	Taunton 3.9 N	2.35"	Bristol MA
MA-BR-14	Dartmouth 2.5 SSW	1.10"	Bristol MA
MA-BR-32	Acushnet 1.8 SSE	1.97"	Bristol MA
MA-MD-47	West Townsend 0.5 W	1.32"	Middlesex MA
MA-MD-61	Stow 2.3 NW	1.40"	Middlesex MA
MA-MD-12	Acton 1.3 SW	1.54"	Middlesex MA
MA-MD-51	Maynard 0.7 ESE	1.34"	Middlesex MA
MA-MD-42	Holliston 0.8 S	2.49"	Middlesex MA
MA-MD-52	Lexington 0.6 SW	1.23"	Middlesex MA
MA-MD-54	Belmont 0.3 SE	1.39"	Middlesex MA
MA-MD-45	Wilmington 1.5 NE	1.90"	Middlesex MA
MA-MD-66	Woburn 1.2 SE	1.54"	Middlesex MA
MA-MD-7	Winchester 0.7 SE	1.68"	Middlesex MA
MA-MD-44	Medford 1.2 W	1.50"	Middlesex MA
MA-MD-11	Cambridge 0.9 NNW	1.55"	Middlesex MA
MA-ES-3	Haverhill 3.6 WNW	2.24"	Essex MA
MA-ES-20	Haverhill 0.7 N	2.12"	Essex MA
MA-ES-26	Haverhill 2.6 ESE	1.83"	Essex MA
MA-ES-12	Boxford 2.4 S	1.57''	Essex MA
MA-ES-1	Salisbury 3.7 NW	1.91''	Essex MA
MA-ES-2	Beverly 2.8 NW	0.54''	Essex MA
MA-ES-8	Marblehead 0.8 SW	3.16"	Essex MA
MA-SF-4	Brighton 0.5 W	1.90''	Suffolk MA
MA-SF-10	Chelsea 0.8 N	2.06"	Suffolk MA
MA-NF-11	Millis 2.0 SW	1.30''	Norfolk MA
MA-NF-1	Norwood 1.3 NW	1.97"	Norfolk MA
MA-NF-5	Weymouth 0.5 NW	1.05''	Norfolk MA
MA-PL-24	Whitman 1.1 WSW	1.35"	Plymouth MA
MA-PL-23	Pembroke 2.8 SW	1.11"	Plymouth MA
MA-PL-19	Rochester 1.2 NNW	1.39''	Plymouth MA
MA-PL-6	Middleborough 5.5 E	1.01''	Plymouth MA
MA-PL-5	Kingston 3.3 WNW	1.06''	Plymouth MA
MA-BA-8	Falmouth 1.8 WSW	0.67''	Barnstable MA
MA-BA-17	East Falmouth 1.2 WNW	0.92''	Barnstable MA
MA-BA-11	East Falmouth 1.4 ESE	0.98''	Barnstable MA
MA-BA-18	Waquoit 0.6 SSW	0.73''	Barnstable MA
MA-BA-47	Mashpee 2.4 WSW	0.83''	Barnstable MA

MA-BA-33	Brewster 1.5 ESE	0.81''	Barnstable MA
MA-BA-51	Orleans 3.0 S	1.08''	Barnstable MA
MA-BA-12	Orleans 1.1 E	0.83"	Barnstable MA
MA-BA-7	Wellfleet 3.0 E	0.63''	Barnstable MA
MA-BA-30	Eastham 0.6 SW	0.88''	Barnstable MA
MA-NT-1	Nantucket 3.8 WNW	1.29''	Nantucket MA
MA-DK-5	West Tisbury 2.9 N	0.75''	Dukes MA

Accumulated Precipitation (in)

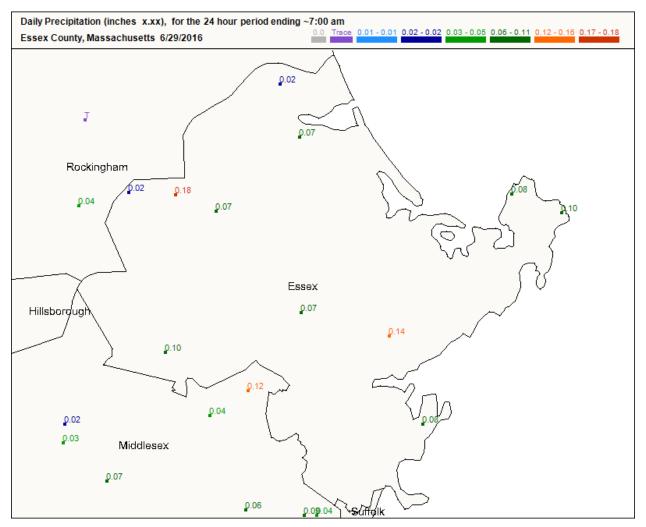
June 01, 2016 to June 30, 2016



Map of the Month – Essex County MA

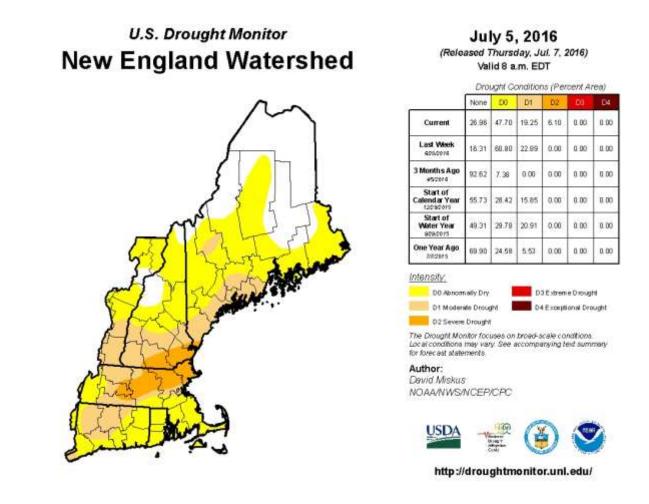
A county by the bay and by the ocean. One of the original 4 counties of the Massachusetts Bay Company in 1643. Water, water, water everywhere in this county. The Merrimack River starts in New Hampshire and ends in the northern part. The Parker River and the Ipswich River south of that. In addition to the rivers, are lakes, marshes and swamps. 500 square miles of land, including 100 square miles of wetlands.

Our observers have all measured and reported 31"-36" in the past 12 months, confirming that this county is dry. With 750,000 residents, we could use more CoCoRaHS observers to monitor this drought condition within Essex County. If you know of someone who might be interested in measuring and mapping precipitation, ask them to join CoCoRaHS.



From the Drought Monitor.

No surprises here. The drought is getting worse while your reporting continues to get better. Every drop counts and zeros do too!



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

NOAA Weather Radio

Before The Weather Channel broadcasted on cable TV and before internet access became commonplace in residences, the National Weather Service continuously broadcasted weather forecasts and observations, around the clock, on VHF radio frequencies. What started out in 1974 with 64 transmitters now has over 1000 transmitters.

NOAA Weather Radio (NWR) has evolved from forecasters making recorded messages to automated digital text to speech voices. In addition to broadcasting weather forecasts and information, county specific alerts or Warnings can be broadcasted, alerting equipped radios of that county to Warnings. If your Weather Radio is equipped to receive these county specific warnings, think of a smoke detector going off, followed by the warning which is usually weather related.

While all of this seems outdated and obsolete with Wireless Emergency Alerts coming across cell phones and alerts coming across TV sets, consider the answers to these questions

- How can you receive alerts when you are asleep?
- Your cellphone may alert you to Tornado and Flash Flood warnings, but do you get alerted for any other Warnings, like Severe Thunderstorm?
- Do you know of anyone that doesn't have a cell phone, is elderly or unable to receive weather alerts?

Going to show you a website, but before that occurs, keep this important point in mind. Because of broadcast ranges and your local terrain, you may not be able to receive alerts, and you may not be able to receive a broadcasting station from your local NWS forecast office. Broadcast ranges do not stop at county or state borders. Pay attention to the location of other NWR stations in neighboring states and counties.

Editor's note: After purchasing a Midland WR300 radio, and walking it around my residence in Brookfield CT, I am able to find a NWR station from Highlands NY, on the west side of the Hudson River, part of Albany's Forecast Office. Pay attention to this next part. Proximity to broadcast antennas and terrain play important parts as to whether or not you will have success or may be inclined to return your radio, or get an external antenna. I kept mine and use it to listen to Albany's broadcast and forecast periodically and receive alerts from the Albany area.

This link is a good starting point <u>http://www.weather.gov/box/nwr</u> Neighboring states are included. One correction: The broadcast antenna at Pack Monadnock NH is now part of the Gray (Portland) ME forecast office.

For those of you close to Boston MA, the area transmitters are listed and can be clicked upon for more details. For everyone else, click on the two letter abbreviation for the states, listed to the right.

Click on, scroll down, and read ALL of the tabs from "Introduction" to "Help".

	LINE - HULL DANK	- NOAA Weather Radio	(NIMH)				972037	er Forecas
Introduction	Transmitters	Broadcast Suites	SAME / FIPS (Codes Weekh	Test Help			
Boston H	tyannis Provid	ence Worcestel	Hartford Gi	oucester Paci	Monadnock •	MA	CT RI NH VT	
County ¢	FIPS Code 🕴	Transmitter 🕈	Call Sign \$	Frequency 4	Channel Number	• ^		
Bamstable	025001	Hyannis	KEC73	162.550	7			
Berkshire	025003	Albany	WXL34	162.550	7			
Seriative	025003	Corrwall	WMH33	162.500	論。		-	-
Berkshire	025003	Egremont	WXMB2	162:450	3			
Berkshire	025003	Mariboro	WXM68	162.425	2		and the second	- J
Berkshire	025003	Mt. Greylocii.	WWF48	162.525	6		Line miller	5
Briefol	025005	Baston	KHB35	162.475	4			1
Bristol	025005	Hyannis	KEC73	162.550	7		1 - AND	2
Bristol	025005	Providance	WXJ39	162.400	3		All and a set of the set	·
Dukes	025007	Hyannis	KEC73	162.550	1		Har	
Essex	025009	Baston	KHB35	162.475	4			
Essex	025009	Deerfold	KZZ40	162.450	3			

Quick explanation on FIPS Codes. FIPS stands for Federal Information Processing Standards. FIPS is the county code. SAME is the tone alert that the radio can make. If you buy a Weather Radio with a SAME receiver, program your county's 6 digit FIPS code <u>and</u> tune in your radio to a station that broadcasts that code. SAME programming and tuning is how a Weather Radio can sound off like a smoke detector for weather warnings and tests. Websites for further exploration http://www.nws.noaa.gov/nwr/

http://www.nws.noaa.gov/nwr/info/usingsame.html

http://www.nws.noaa.gov/nwr/coverage/station_listing.html

Especially if you live near a transmitter, try NOAA Weather Radio with SAME alerting.

Watersheds

Certainly, you all know where you live; a state, a county, a town, a street, a number. To hydrologists, inland locations are known by a region, subregion, basin, subbasin, and watershed; a location where water flows from a starting point to an ending point. Recently, CoCoRaHS headquarters released another animated <u>video</u> explaining watersheds.

Hydrologic Unit Codes are mentioned. Looking back at the Drought Monitor map is a good example of a Hydrologic Unit Code. That map is of Hydrologic Unit Code = 01, the New England Region, east of the Hudson River and Lake Champlain area.

To help find your hydrologic address, click on this <u>map</u>. And click within that map to get to where you live. Try to locate your hydrologic address to 8 digits. Another <u>map</u> is here.

Come Hail or High Water

Someone finally did it. A theme song for our network has been created. Listen to Dewey Longuski's "Come Hail or High Water"

We're CoCoRaHS! Water is what we're all about!

Keep reporting your zeros, too.

<u>Wrap up</u>

Keep Significant Weather Reports and Hail Reports in mind as we continue in this season of convective thunderstorms. The flooding that struck West Virginia two weeks ago should remind us all that sometimes our low cost gauges can have a high value impact in real time should a significant event occur in your area.

Keep track of the start and stop times of the event. A simple guideline to use is 1" or more of precip in 1 hour or less of time. But if you feel it is significant, fill out a Significant Weather Report in real time.

Summer time is time for shorter newsletters.

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