



Southern



New England

August 2017

We needed the umbrella to protect us from the sun. We needed the umbrella to protect us from the rain. The rain came in July and it did not fall the same on all.

How good are you at typing? Topics that put your typing to use are mentioned. Comments are mentioned. Our feature article uncovers where our Condition Monitoring Reports appear.

Cleanup activity took place last month, closing inactive stations and removing old email addresses from our distribution list. If you're reading this newsletter from an online source and want to be part of the email distribution list, do let us know.

Two recent, very timely and accurate Significant Weather Reports to mention.

No pictures of airplanes this time. As Hurricane season begins to heat up, just a few points to pass on about Hurricane Preparedness. We did receive more Gauge Photos from you. Those pictures at the end.

A new look to how the precip totals at the Climate Sites is shown.

Our Map of the Month is Bristol County RI.

We recognize observers who recently passed 2000 Daily Reports.

2000 Daily Reports

Congratulations to 11 Massachusetts and Connecticut observers who have submitted over 2000 Daily Reports within the past few months.

Those observers are

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
MA-BA-14	North Falmouth 0.5 ENE
CT-NL-5	Oakdale 2.6 WNW
MA-BA-11	East Falmouth 1.4 ESE
MA-BA-2	Falmouth 3.1 NNW
CT-NH-14	Prospect 1.9 ENE
CT-FR-20	Westport 2.5 ENE
CT-HR-7	Central Manchester 2.7 SW

Going forward, we are going take a section of the newsletter to mention those that recently crossed these multiples of 1000 Daily Reports. Next month, an even longer list of those that crossed 1000 Daily Reports.

Observation Notes - Comments

The summer downpours result in rain that does not fall the same as all. Your report may be unique in some way. Whether it's a trace on a clear day, a few hundredths or one of these 2" + rainfall reports, your report may catch the eye of others.

Without making a Comment, we are left looking at your reported value wondering "Really?" "Is that right?" "Decimal point error?" "Could it be a multi-day report entered as a daily report?" In Southern CT, your reports can catch the eye of the 10AM daily briefing that is held at the New York City/Upton Forecast Office.

Comments that verify and clarify your report can answer all of those questions, the questions by the group who quality check our data, the questions by the rest of us, the questions by anyone else looking at your report, including the NWS.



In early October, Comments will find their way in your Water Year Summary, serving as a narration of your reported measurements. What will your narration be? What will your journal of observations made these past 12 months say? Some of you are journaling your air temperatures. Will you remember your precipitation amounts too?

More about Comments in this [video](#). Some recent examples below.

7/8/2017	MA-WR-32	Auburn 1.9 ESE	0.64	A soaker from about 10:30 AM to 2:30 PM	View
7/25/2017	CT-HR-22	East Hartford 1.3 E	1.07	obs time cldy, 59°; 7-24 Rain continued from obs time ending at 2:30 pm = 1.07"	View
7/1/2017	RI-WS-1	Hope Valley 3.7 S	0.11	Thundershower ca. 8p	View

Significant Weather Reports

Afternoon rains came with high dew points on Wednesday August 2. Timely and valuable Significant Weather Reports were made by two Massachusetts observers.

Date ▲	Time	Station Number	Station Name	Duration Minutes	New Precip in.	Total Precip in.	New Snow in.	Total Snow in.	Flooding	State	County	View
8/2/2017	3:38 PM	MA-HS-7	Plainfield 2.2 SW	60	2.09	2.09	0.0	0.0	Minor	MA	Hampshire	
8/2/2017	4:05 PM	MA-MD-7	Winchester 0.7 SE	30	1.06	NA	NA	NA	Minor	MA	Middlesex	

Plainfield MA. Winchester MA. Two different parts of the state. Two completely different elevations with Plainfield being at nearly 1400' elevation and Winchester at 45' elevation. 2" in an hour. 1" in 30 minutes. Both reports were able to VALIDATE, spot on, the accuracy of the radar estimates. We are reminded by Nolan from the Spring Creek Flood experience that radar estimates are not always accurate and the consequences can be deadly and devastating.

We are not trying to break records with numbers of Significant Weather Reports. We are trying to call attention to Significant events as they occur, and it only takes a minute for your submitted report to alarm a forecaster's screen. The rule of thumb is 1" or more of rain or snow in 1 hour or less.

Be safe while being outdoors. Be timely, accurate and valuable as these observers were. Your report may validate what is occurring. Your report may call attention to what is occurring.

For significant weather, you can provide the ground truth.

Email Deliveries

Cleanup occurred this past month with removing email addresses. If you are seeing this newsletter through the CoCoRaHS sites and NOT through your email box AND would like to be added to our email list, please send a message to Joe joseph.dellicarpini@noaa.gov

In turn, we would like each of you to go through your email box and check your spam folders and white list our email addresses within your email box. The same goes for Nolan and his newsletter. We use email to communicate with each of you and would *not* want our messages to get blocked by your email provider, thinking that our messages or attached newsletters intend to harm your computer.

If you continue to receive our newsletter, messages, and Nolan's newsletter, no action is required.

Hurricane Preparedness

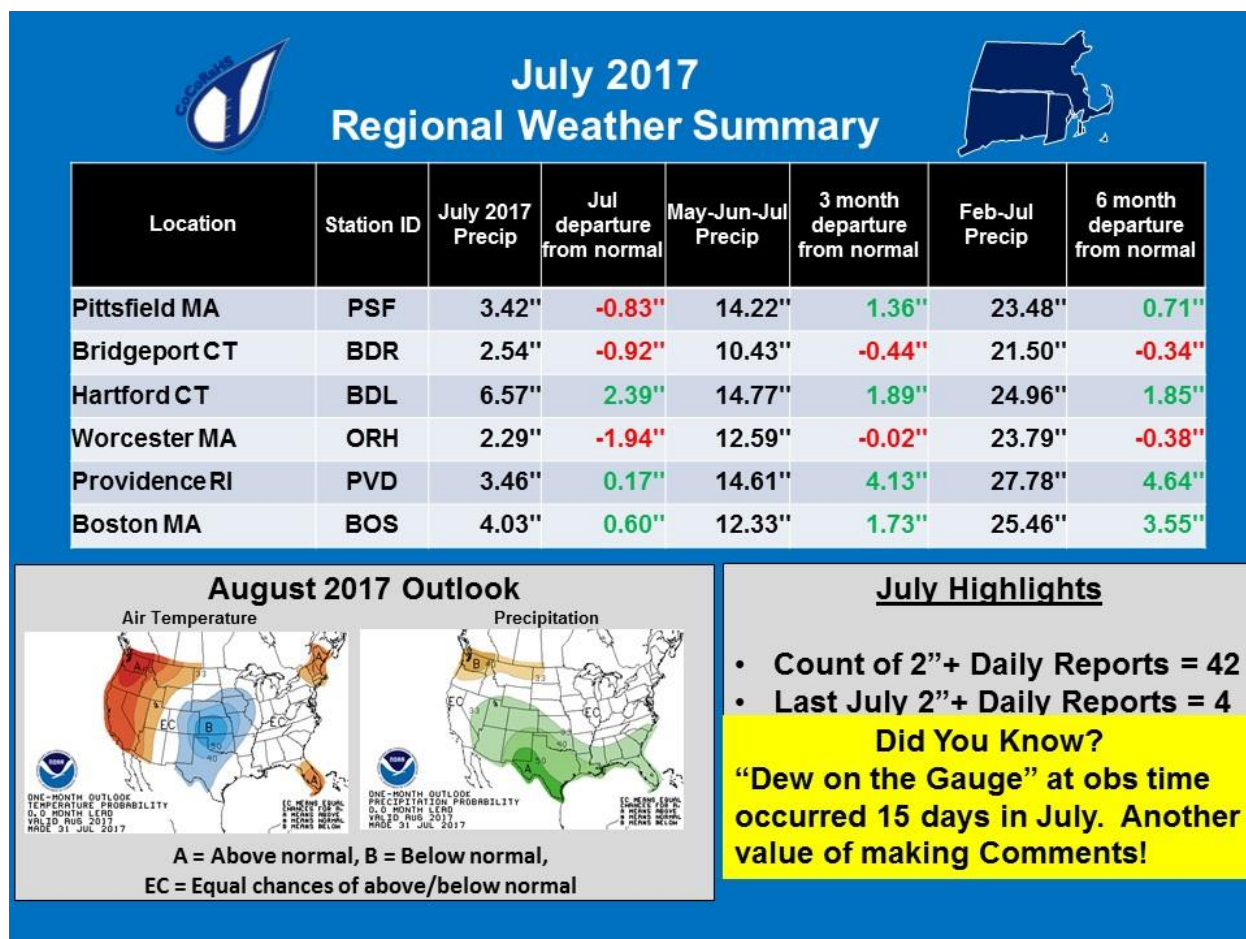
The climax of the Hurricane season is approaching. In mid-July, Hurricane Preparedness Week in Southern New England occurred. A summary of the points made is below.

- ☞ If there's a tropical system in the Bahamas, it's your business.
- ☞ Important impacts occur in advance of the eye making landfall.
- ☞ Know where you are relative to the expected track of the eye.
- ☞ Maximum wind gust potential = maximum sustained winds (+ forward speed if you are to the east) (- forward speed if you are to the west)
- ☞ With our New England Hurricanes, the most significant threat is flooding, either inland flooding or storm surge flooding along the coastlines coupled with our tide cycles.

If there's a point here that catches your eye, for further reading the link to all of the details is [here](#).

Detail and Summary for July 2017

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



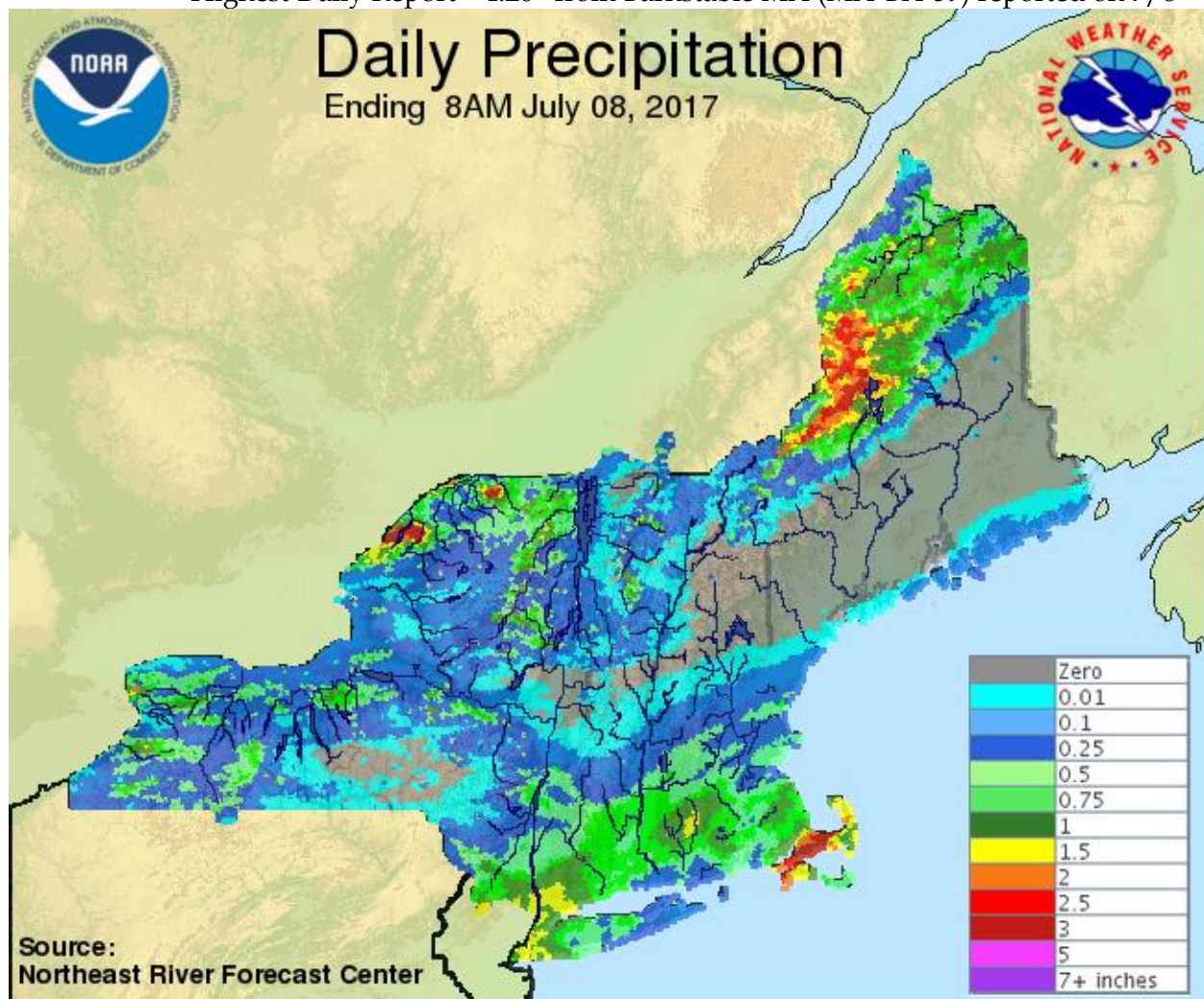
We haven't had a month with these wide ranging precip totals in years.

Widespread rain began the reporting for the month, and then the rains were more localized for northern CT for the 3rd, our new Wallingford CT observers for the 7th, the western part of Cape Cod for the 8th, noted with the NERFC map below, a narrow band in Hartford County CT for the 11th, a few isolated stations in Bristol, Plymouth and Cape Cod for the 12th, eastern CT for the 13th, Washington County RI on the 14th, Hampden County MA, and other isolated stations on the 19th, and many 1" reports from northern CT to Rockport MA for the 25th.

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

From your reports for July 2017

Observers reporting	317
Reported all 31 days	130
Completed by Multi-Day Reports	38
Missing 1 or 2 reports	48
Daily Reports	7684
Zero Reports	4119
Non-Zero Reports	3565
Daily Comments	1153
Multi-Day Reports	165
Condition Monitoring Reports	20
Significant Weather Reports	18
Hail Reports	1
Snowfall Reports	3670
Snow Depth Reports	1227
Highest Daily Report	4.26" from Barnstable MA (MA-BA-59) reported on 7/8



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

Watershed	Watershed Name	Station	Station Name	Precip
01060003	Piscataqua-Salmon Falls			
0106000310	Hampton River - Frontal Atlantic Ocean	MA-ES-1	Salisbury 3.7 NW	2.78"
01070004	Nashua			
0107000401	North Nashua River	MA-WR-44	Westminster 0.6 WSW	3.76"
0107000401	North Nashua River	MA-WR-8	Fitchburg 1.6 SSW	2.18"
0107000401	North Nashua River	MA-WR-13	Leominster 1.5 S	4.41"
0107000402	Headwaters Nashua River	MA-WR-56	Sterling 4.3 NW	4.43"
0107000403	Squannacook River	MA-MD-47	West Townsend 0.5 W	3.09"
01070005	Concord			
0107000501	Sudbury River	MA-MD-90	Marlborough 0.1 SW	2.74"
0107000501	Sudbury River	MA-MD-75	Sherborn 2.3 WNW	4.01"
0107000501	Sudbury River	MA-MD-88	Wayland 2.1 SSE	3.63"
0107000502	Concord River	MA-WR-28	Berlin 1.3 WSW	2.47"
0107000502	Concord River	MA-WR-18	Northborough 0.6 SSE	2.64"
0107000502	Concord River	MA-WR-42	Northborough 2.3 N	3.88"
0107000502	Concord River	MA-MD-12	Acton 1.3 SW	4.43"
0107000502	Concord River	MA-MD-51	Maynard 0.7 ESE	3.31"
0107000502	Concord River	MA-MD-62	Chelmsford 1.2 E	6.67"
01070006	Merrimack River			
0107000611	Spicket River	MA-ES-38	Methuen 1.6 NNE	3.14"
0107000614	Powwow River - Merrimack River	MA-ES-3	Haverhill 3.6 WNW	3.32"
01080201	Middle Connecticut			
0108020106	Manhan River - Connecticut River	MA-HS-2	Westhampton 1.8 SW	3.65"
0108020106	Manhan River - Connecticut River	MA-HS-8	Williamsburg 1.2 WSW	4.78"
0108020106	Manhan River - Connecticut River	MA-HS-10	Northampton 1.6 NE	3.21"
0108020106	Manhan River - Connecticut River	MA-FR-12	Sunderland 1.3 SE	3.16"
0108020107	Batchelor Brook - Connecticut River	MA-HD-13	Springfield 4.1 W	6.13"
01080202	Miller			
0108020202	Lower Millers River	MA-WR-40	Gardner 1.4 SSW	3.24"
01080203	Deerfield			
0108020305	Lower Deerfield River	MA-FR-17	Buckland 1.8 ESE	5.07"
0108020305	Lower Deerfield River	MA-FR-13	Conway 2.9 NW	3.17"
0108020305	Lower Deerfield River	MA-FR-10	Conway 0.9 SW	2.92"
01080204	Chicopee			
01080205	Lower Connecticut			
0108020501	Mill River - Connecticut River	CT-HR-5	Enfield 1.5 SE	6.31"

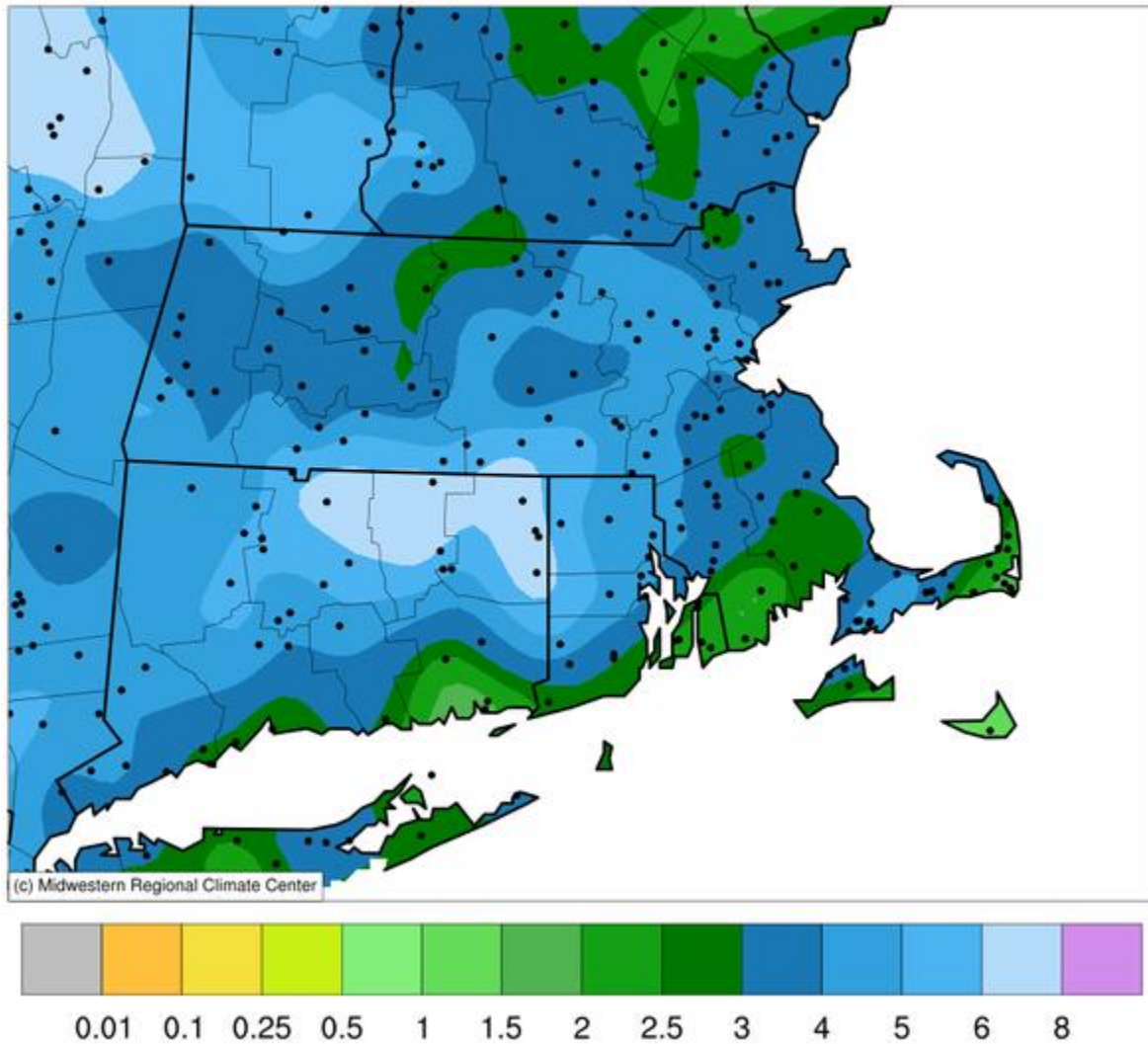
0108020502	Scantic River	MA-HD-20	Wilbraham 3.7 SSW	6.84"
0108020502	Scantic River	CT-TL-15	Central Somers 0.3 N	6.74"
0108020503	Park River	CT-HR-39	Farmington 1.6 SW	3.92"
0108020503	Park River	CT-HR-49	West Hartford 1.1 W	4.64"
0108020504	Hockanum River	CT-TL-13	Crystal Lake 1.2 W	6.17"
0108020505	Roaring Brook - Connecticut River	CT-HR-6	Wethersfield 1.2 WSW	4.80"
0108020505	Roaring Brook - Connecticut River	CT-HR-51	Wethersfield 1.3 S	4.66"
0108020505	Roaring Brook - Connecticut River	CT-HR-22	East Hartford 1.3 E	5.91"
0108020506	Mattabesset River	CT-HR-15	Southington 3.0 E	4.37"
0108020507	Higganum Creek - Connecticut River	CT-MD-2	Portland 0.9 S	4.69"
01080206	Westfield			
0108020603	Outlet Westfield River	MA-HD-17	Southwick 2.5 WSW	5.91"
01080207	Farmington			
0108020701	Still River	CT-LT-15	Colebrook 1.0 NE	3.83"
0108020702	West Branch Farmington River	MA-BE-4	Becket 5.6 SSW	3.51"
0108020702	West Branch Farmington River	CT-LT-18	New Hartford Center 1.5 N	5.37"
0108020704	Headwaters Farmington River	CT-HR-24	Collinsville 0.9 NW	5.80"
0108020705	Salmon Brook	CT-HR-8	North Granby 1.3 ENE	5.97"
01090001	Charles			
0109000101	Plum Island Sound - Frontal Atlantic Ocean	MA-ES-24	Newburyport 0.8 SW	3.02"
0109000102	Ipswich River	MA-MD-85	Wilmington 2.2 WNW	4.95"
0109000102	Ipswich River	MA-MD-45	Wilmington 1.5 NE	4.49"
0109000102	Ipswich River	MA-ES-12	Boxford 2.4 S	3.28"
0109000102	Ipswich River	MA-ES-2	Beverly 2.8 NW	3.62"
0109000103	Essex River - Frontal Atlantic Ocean	MA-ES-41	Danvers 0.8 ESE	3.61"
0109000104	Saugus River - Frontal Broad Sound	MA-SF-2	Winthrop 0.2 N	5.21"
0109000104	Saugus River - Frontal Broad Sound	MA-ES-8	Marblehead 0.8 SW	3.74"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-54	Belmont 0.3 SE	5.06"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-7	Winchester 0.7 SE	4.18"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-44	Medford 1.2 W	4.41"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-11	Cambridge 0.9 NNW	4.59"
0109000105	Mystic River - Frontal Boston Harbor	MA-SF-10	Chelsea 0.8 N	6.06"
0109000106	Upper Charles River	MA-MD-55	Holliston 0.7 W	3.76"
0109000106	Upper Charles River	MA-MD-42	Holliston 0.8 S	4.08"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-71	Newton 2.2 NNW	3.14"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-74	Somerville 0.7 SSE	3.39"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-SF-1	Boston 0.5 WSW	3.22"
0109000108	Neponset River - Frontal Boston Harbor	MA-NF-1	Norwood 1.3 NW	4.09"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-NF-32	Quincy 1.8 WSW	4.41"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-NF-5	Weymouth 0.5 NW	4.23"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-PL-36	Hingham 0.8 ESE	3.56"

01090002	Cape Cod			
0109000201	North River - Frontal Massachusetts Bay	MA-PL-30	Duxbury 3.7 W	3.53"
0109000202	Cape Cod	MA-BA-2	Falmouth 3.1 NNW	4.21"
0109000202	Cape Cod	MA-BA-13	Falmouth 0.6 NNW	4.57"
0109000202	Cape Cod	MA-BA-17	East Falmouth 1.2 WNW	3.15"
0109000202	Cape Cod	MA-BA-19	East Falmouth 0.7 NW	4.42"
0109000202	Cape Cod	MA-BA-3	Falmouth 3.0 E	4.05"
0109000202	Cape Cod	MA-BA-11	East Falmouth 1.4 ESE	5.16"
0109000202	Cape Cod	MA-BA-18	Waquoit 0.6 SSW	5.01"
0109000202	Cape Cod	MA-BA-47	Mashpee 2.4 WSW	4.11"
0109000202	Cape Cod	MA-BA-45	Sandwich 0.9 NNE	3.08"
0109000202	Cape Cod	MA-BA-10	East Sandwich 2.3 SE	3.85"
0109000202	Cape Cod	MA-BA-59	Barnstable 3.6 W	5.03"
0109000202	Cape Cod	MA-BA-22	Yarmouth 0.9 NNW	4.42"
0109000202	Cape Cod	MA-BA-33	Brewster 1.5 ESE	2.69"
0109000202	Cape Cod	MA-BA-36	Harwich 2.6 ENE	1.94"
0109000202	Cape Cod	MA-BA-51	Orleans 3.0 S	2.10"
0109000202	Cape Cod	MA-BA-12	Orleans 1.1 E	2.51"
0109000202	Cape Cod	MA-BA-7	Wellfleet 3.0 E	3.16"
0109000202	Cape Cod	MA-BA-30	Eastham 0.6 SW	2.82"
0109000202	Cape Cod	MA-BA-43	Chatham 0.4 WSW	2.10"
0109000203	Mattapoissett River - Frontal Buzzards Bay	MA-PL-19	Rochester 1.2 NNW	2.56"
0109000204	Paskamanset River - Frontal Buzzards Bay	MA-BR-14	Dartmouth 2.5 SSW	1.87"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-5	Little Compton 1.7 NW	1.81"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-7	Little Compton 0.6 E	2.25"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-9	West Tisbury 0.4 S	3.23"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-2	Vineyard Haven 0.8 WSW	3.13"
0109000207	Nantucket Island	MA-NT-1	Nantucket 3.8 WNW	1.67"
01090003	Blackstone			
0109000301	Upper Blackstone River	MA-WR-41	Auburn 2.6 SW	5.11"
0109000301	Upper Blackstone River	MA-WR-43	Leicester 2.4 ESE	3.33"
0109000301	Upper Blackstone River	MA-WR-32	Auburn 1.9 ESE	4.53"
0109000302	Lower Blackstone River	RI-PR-50	Harrisville 1.2 SSE	3.83"
0109000302	Lower Blackstone River	RI-PR-28	North Smithfield 0.7 SE	4.55"
0109000302	Lower Blackstone River	MA-NF-16	Bellingham 4.7 S	4.55"
01090004	Narragansett			
0109000401	Upper Taunton River	MA-BR-30	Taunton 3.9 N	3.34"
0109000401	Upper Taunton River	MA-NF-31	Stoughton 1.2 E	3.79"
0109000401	Upper Taunton River	MA-PL-22	East Bridgewater 0.3 WSW	3.05"
0109000401	Upper Taunton River	MA-PL-15	Abington 1.2 NNE	2.59"
0109000401	Upper Taunton River	MA-PL-23	Pembroke 2.8 SW	3.51"

0109000402	Middle Taunton River	MA-PL-17	Plympton 0.9 NNE	2.59"
0109000403	Threemile River	MA-NF-19	Foxborough 1.8 SSW	4.59"
0109000403	Threemile River	MA-NF-8	Foxborough 0.4 S	4.81"
0109000403	Threemile River	MA-BR-33	Taunton 2.4 W	3.29"
0109000403	Threemile River	MA-BR-9	Taunton 2.6 NW	3.34"
0109000404	Ten Mile River	MA-BR-17	North Attleboro 0.8 E	5.16"
0109000404	Ten Mile River	MA-BR-23	Attleboro 0.9 ENE	4.22"
0109000405	Wonnasquatucket River-Moshassuck River	RI-PR-33	Greenville 0.7 NNW	4.35"
0109000405	Woonasquatucket River-Moshassuck River	RI-PR-51	North Smithfield 0.6 S	4.12"
0109000406	Pawtuxet River	RI-PR-20	West Glocester 3.4 SE	4.49"
0109000407	Palmer River	MA-BR-2	Rehoboth 2.1 N	4.21"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-3	Norton 1.8 NNE	3.37"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-16	Somerset 0.4 SSE	3.32"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-19	Somerset 2.0 NNE	3.63"
0109000409	Narragansett Bay	RI-KN-2	East Greenwich 2.3 ESE	4.84"
0109000409	Narragansett Bay	RI-PR-32	Providence 2.3 NE	4.10"
0109000409	Narragansett Bay	RI-BR-5	Barrington 1.3 WNW	4.04"
0109000409	Narragansett Bay	RI-NW-4	Middletown 1.1 SW	2.05"
0109000409	Narragansett Bay	RI-NW-11	Tiverton 0.8 SSW	2.80"
01090005	Pawcatuck-Wood			
0109000501	Wood River	RI-WS-25	Rockville 0.4 E	5.38"
0109000501	Wood River	RI-WS-1	Hope Valley 3.7 S	3.55"
0109000502	Upper Pawcatuck River	RI-WS-32	Kingston 6.9 NNW	4.67"
0109000502	Upper Pawcatuck River	RI-WS-37	Kingston 2.4 SW	3.60"
0109000503	Lower Pawcatuck River	RI-WS-35	Westerly 1.0 SW	2.45"
0109000504	Frontal Block Island Sound	RI-WS-36	Charlestown 3.0 WSW	2.45"
01100001	Quinebaug			
0110000101	Upper Quinebaug River	MA-HD-16	Wales 0.4 SSW	4.91"
0110000103	Fivemile River	CT-WN-6	Dayville 2.0 ENE	6.92"
0110000103	Fivemile River	CT-WN-4	East Killingly 1.3 SW	7.16"
0110000105	Mossup River	CT-WN-8	Moosup 1.7 NE	7.05"
0110000106	Pachaug River	CT-NL-21	Griswold 0.9 N	4.34"
01100002	Shetucket			
0110000201	Willimantic River	CT-TL-18	Hebron 5.3 NW	6.26"
0110000201	Willimantic River	CT-TL-2	Staffordville 0.4 NNW	7.04"
0110000202	Natchaug River	CT-TL-4	Mansfield Center 1.9 SW	6.14"
0110000203	Shetucket River	CT-WN-10	South Windham 1.3 NNE	5.25"
0110000203	Shetucket River	CT-NL-10	Norwich 2.5 NNE	5.27"
0110000203	Shetucket River	CT-NL-28	Lisbon 2.0 SW	4.32"
01100003	Thames			
0110000302	Thames River-Frontal New London Harbor	CT-NL-6	New London 1.0 NNW	2.21"

0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-22	Central Waterford 2.7 SSW	2.01"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-19	Mystic 0.9 W	1.97"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-24	Stonington 1.4 NNW	1.99"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-18	Stonington 0.5 NNE	1.99"
01100004	Quinnipiac			
0110000401	Quinnipiac River	CT-NH-14	Prospect 1.9 ENE	5.08"
0110000401	Quinnipiac River	CT-NH-30	Cheshire Village 2.2 SE	4.79"
0110000401	Quinnipiac River	CT-HR-23	Southington 0.9 SSE	4.97"
0110000401	Quinnipiac River	CT-NH-44	Wallingford Center 1.9 WNW	5.70"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-41	Madison Center 1.6 W	2.75"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-MD-15	Clinton 3.5 N	4.87"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-MD-5	Westbrook Center 1.1 N	3.14"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-MD-11	Westbrook Center 1.5 NE	3.03"
0110000403	Mill River - Frontal Long Island Sound	CT-NH-39	West Haven 0.8 W	3.13"
01100005	Housatonic			
0110000501	Headwaters Housatonic River	MA-BE-10	Pittsfield 2.0 NNW	3.76"
0110000501	Headwaters Housatonic River	MA-BE-5	Tyringham 1.5 WNW	4.23"
0110000508	Still River - Housatonic River	CT-FR-43	Bethel 0.5 E	4.36"
0110000508	Still River - Housatonic River	CT-FR-41	Bethel 3.5 NNE	4.42"
0110000508	Still River - Housatonic River	CT-FR-9	Brookfield 3.3 SSE	5.02"
0110000510	Eightmile Brook - Housatonic River	CT-FR-44	Newtown 4.3 E	4.61"
0110000512	Outlet Naugatuck River	CT-LT-14	Watertown 0.5 S	5.32"
0110000512	Outlet Naugatuck River	CT-NH-22	Prospect 0.5 SW	4.41"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-42	Monroe 0.1 SE	3.61"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-23	Shelton 1.3 W	2.95"
01100006	Saugatuck			
0110000601	Saugatuck River - Frontal Long Island Sound	CT-FR-31	Newtown 4.6 SSW	4.25"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-29	Ridgefield 1.9 SSE	4.28"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-25	Norwalk 2.9 NNW	4.31"
0110000604	Mianus River-Rippowam River	CT-FR-12	Stamford 3.3 NW	4.03"
0110000604	Mianus River-Rippowam River	CT-FR-50	Darien 2.8 NW	4.23"

Accumulated Precipitation (in)
July 01, 2017 to July 31, 2017

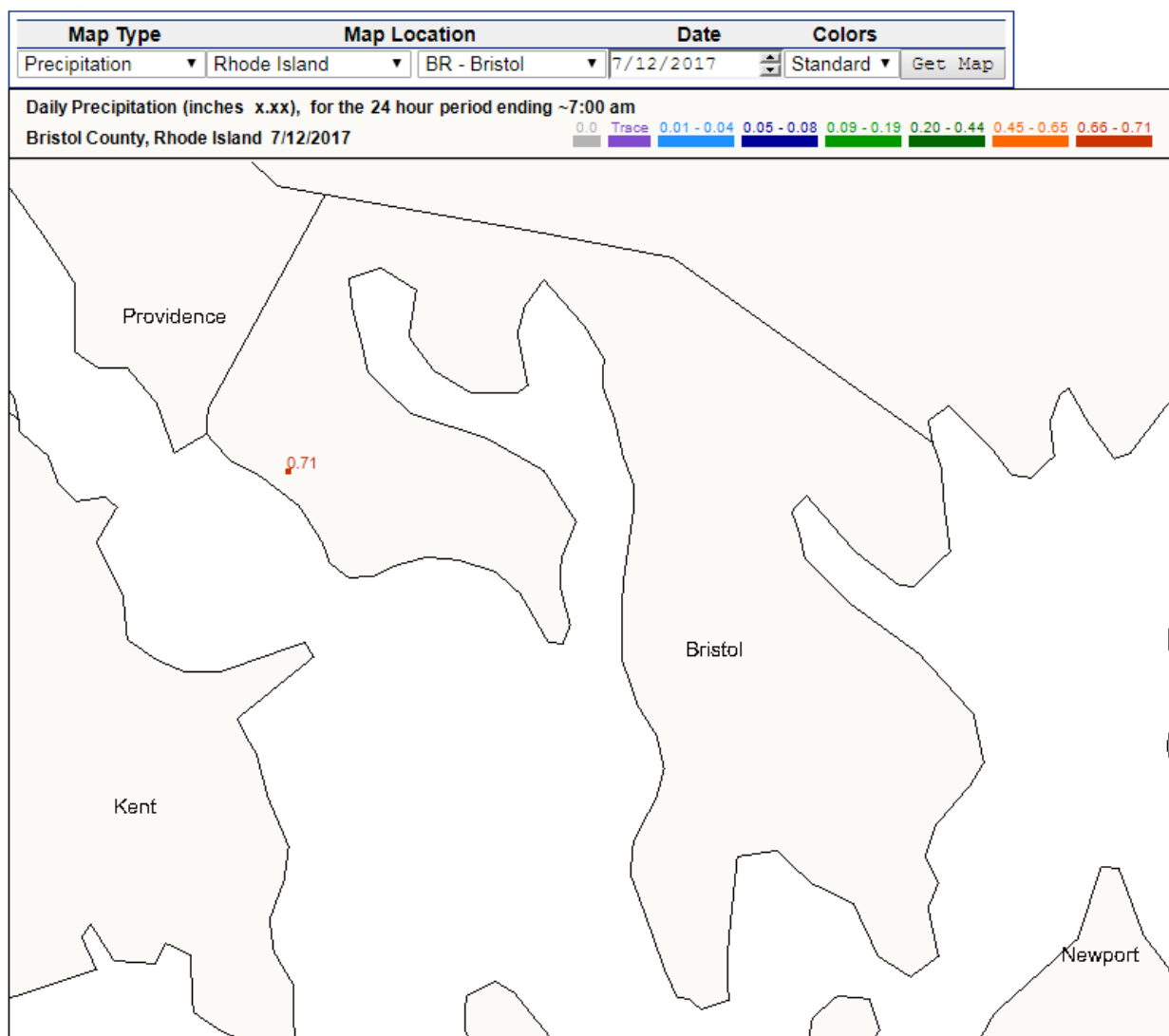


Map of the Month – Bristol County RI

Rhode Island's smallest county is adjacent to a county of the same name in Massachusetts. Bristol County RI is the 3rd smallest county in our nation ahead of a small county in Hawaii and Manhattan Island in New York City.

Only 24 square miles of land and 50,000 residents, with historic buildings, mansions, lighthouses, bridges, and plenty of ways to enjoy the rivers and the bays.

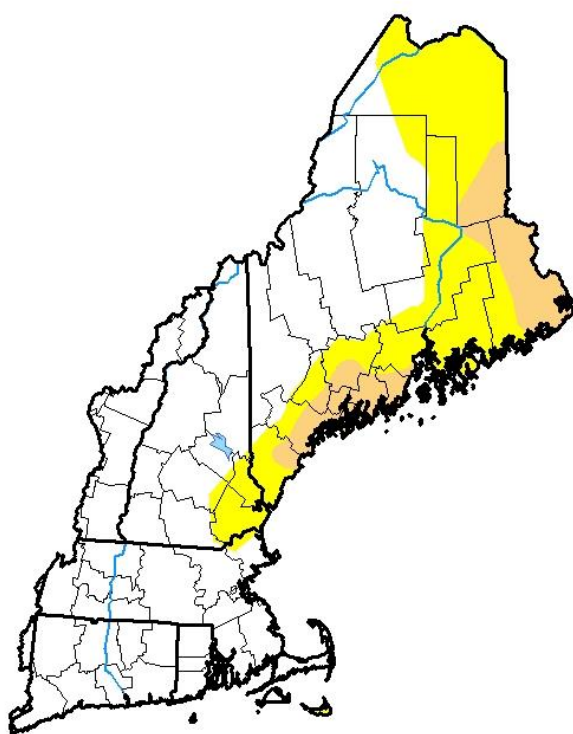
In Rhode Island, we would like to have an observer in every town. We have an active observer in Barrington. Let's get one in Bristol and Warren also. If you know of someone who might be interested in measuring and mapping precipitation, ask them to join CoCoRaHS.



From the Drought Monitor.

D0 has returned to Nantucket Island, and is deepening and creeping down the coastline of Maine towards the mouth of the Merrimack River. Every drop counts and zeros do too!

U.S. Drought Monitor New England Watershed



August 8, 2017

(Released Thursday, Aug. 10, 2017)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	66.22	24.77	9.01	0.00	0.00	0.00
Last Week 08-01-2017	68.58	26.09	5.33	0.00	0.00	0.00
3 Months Ago 05-09-2017	97.99	2.01	0.00	0.00	0.00	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 08-09-2016	34.80	27.84	22.95	13.92	0.50	0.00

Intensity:

D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought
D2 Severe Drought	

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

Deborah Bathke
National Drought Mitigation Center



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

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

You can be a Drought Reporter with Condition Monitoring Reports

Condition Monitoring Reports are relatively new to us, introduced last October. But where do the reports go? Who would really look at them besides the bunch of us?

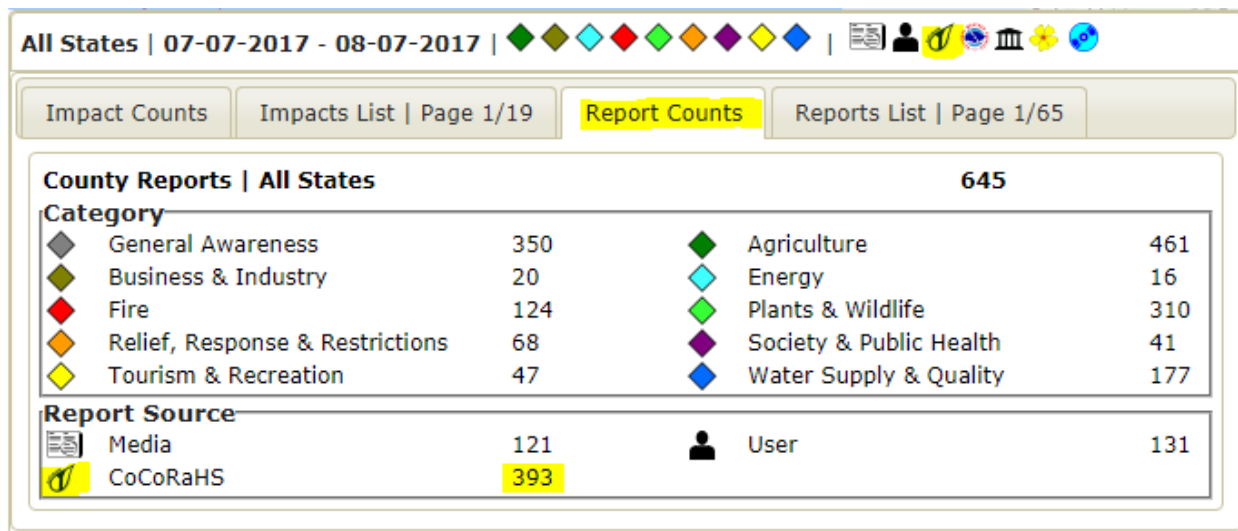
The National Drought Mitigation Center (NDMC) at the University of Nebraska in Lincoln begins each and every Monday throughout the year looking to update our nation's drought conditions, state by state, region by region. By Thursday morning, 8:30am eastern time, they publish their US Drought Monitor for all to see. This Thursday update goes into our Monthly Newsletter, which goes to why you see this Newsletter on a Thursday.





























There are many items the Drought Monitor looks at to determine drought conditions and the severity of them. River and stream flows, soil and crop conditions, and precipitation totals. Whenever there is uncertainty about what to level to determine for a certain area, your reports get looked at.

Let's look at the Drought Impact Reporter (DIR).

<http://droughtreporter.unl.edu>

This is big. But I see a small CoCoRaHS logo here on the screen. Yellow highlights are made by the editor.



All States 07-07-2017 - 08-07-2017               			
Impact Counts		Impacts List Page 1/19	
Report Counts		Reports List Page 1/65	
County Reports All States			645
Category			
 General Awareness	350	 Agriculture	461
 Business & Industry	20	 Energy	16
 Fire	124	 Plants & Wildlife	310
 Relief, Response & Restrictions	68	 Society & Public Health	41
 Tourism & Recreation	47	 Water Supply & Quality	177
Report Source			
 Media	121	 User	131
 CoCoRaHS	393		

There are "Impacts" and "Reports". It appears that items start in "Reports" and the NDMC staff take the reports that detail the severity to "Impacts"

Let's take a look at a Condition Monitoring Report I submitted earlier.

The screenshot shows a web interface for Condition Monitoring Reports. At the top, there is a green 'Refresh' button with a circular arrow icon, which is highlighted with a red rectangle. To its right is a warning icon and the text 'Refresh to see results'. Below this are two tabs: 'Impacts & Reports' (active) and 'Overlays'. The 'Impacts & Reports' section contains several expandable panels. The 'Scales' panel has radio buttons for 'National', 'Multistate', 'State', 'County' (selected and highlighted in yellow), and 'City'. The 'Impacts' panel shows an 'Opacity' slider at 80% and a bar chart for 'Impacts' with a value of 0. The 'Reports' panel is expanded and highlighted in yellow. Below it is a 'Drought Declarations' panel. The 'Time Period' panel has a dropdown menu set to 'Last Week' (highlighted in yellow). The 'Location' panel has dropdown menus for 'State' (set to 'Connecticut', highlighted in yellow) and 'County' (set to 'All Counties'). At the bottom are 'Categories' and 'Report Types' panels.

Follow the yellow highlights.

Pick "County" or "City" Other radio buttons were selected and received NO reports.

Select "Reports"

Time Period "Last Week". You can select any time period that satisfies your curiosity.

State. I selected "Connecticut" from the lengthy drop down box of all of our states.

THE MOST COUNTERINTUITIVE part is moving the mouse back to the top and clicking on the green "Refresh" button last, to see results.

On the panel, below the map, should appear the list of reports.

Well, well, well, what do we have here? Another location where CoCoRaHS reports appear.

A left click on ANY part of the bold black title of the report should display the report.

Below is the same report in the CoCoRaHS database.

Report Date ▲	Station Number	State	County	Scale Bar	Categories	Description	View
8/6/2017	CT-FR-9	CT	Fairfield	Near Normal	General Awareness Water Supply And Quality	River flows recharged after 1" rain this weekend. Precip totals have been: 5.26" in the past 30 days. 8.17" in the past 60 days. 13.64" in the past 90 days. 27.00" in the past 180 days. The long term drought easing with 46.95" in the past 365 days.	

While preparing this article, a few things learned to pass on to all of you.

- ★ When submitting a Condition Monitoring Report, select a category “General Awareness”, and only “General Awareness”, and your Condition Monitoring Report will not appear in this Drought Impact Reporter. Pick an additional category. I usually say something about my nearby rivers and my precip totals so I select “General Awareness” and “Water and Quality”. You may have something to say about “Agriculture” or “Plants and Wildlife”. The point is to pick an additional category that best fits your report.
- ★ Why some reports end up categorized under “County” and others are categorized under “City” is a quirk that NDMC is aware of.
- ★ What NDMC is looking for in a report is what has happened because of the low precipitation, not the low precipitation in and of itself. Keep that in mind while typing your Report.

- ★ Some recent examples of Reports that were placed under “Impacts”

Nurseries watering plants more often, creeks drying in Nash County, North Carolina



Duration: 07-18-2017 - 07-18-2017

Affected Areas Nash County; Nashville

Description Grass is DRY. Public pools and ice cream shops are staying busy with locals and tourists this week to stay cool. Farmers have to water their crops throughout the day to stay moist. Nurseries have to water plants more than once to stay alive and sell. Creeks are starting to show signs of drying out with dry small spots in the creek. Tar River is low.

CoCoRaHS Report from Station #Nashville 0.3 NNW on 7/18/2017

Associated Reports

CoCoRaHS Report from Station #Nashville 0.3 NNW on 7/18/2017

Warm lake water causing problems for trout fishing in Washington County, Tennessee



Duration: 07-26-2017 - 07-26-2017

Affected Areas Washington County; Johnson City

Description We are actually more than 4 inches under normal for rainfall the past 2 months - and the period of June-July is drier than last year! Small trees and plants are wilting even near lakes. Lake levels still ok but water is warm and bad for trout fishing. Watauga Lake is warm and very cloudy green with extensive algae growth, not normal for this colder mountain lake.

CoCoRaHS Report from Station #Johnson City 5.9 NW on 7/26/2017

Associated Reports

CoCoRaHS Report from Station #Johnson City 5.9 NW on 7/26/2017

★ If you have drought related pictures that you want to send to NDMC, the email address is DIRinfo@unl.edu , there is a form at <http://droughtreporter.unl.edu/submitreport> or tweet with #Drought17
A recent [video](#) explains more.

Before submitting a report, before the new work week begins, I will look at <http://waterdata.usgs.gov> and find a few area river gauges to see how nearby rivers are flowing *relative* to normal. There is one small nearby river I drive by and look at that *relative* to normal. I use the “Total Precip Summary” inquiry of our website and change the dates to get a 30, 60, 90, 180, and 365 day precip totals for my station. You remember what our normal precipitation amounts for our area, don’t you? 4” per month, 12”-13” in 3 months and so on to 45”-50” for 12 months.

My attitude about Condition Monitoring Reports is “No automated tipping gauge at a nearby airport is going to be the sole source of precip totals for my area.” “I can look at nearby rivers” “I can find horticulture easier than agriculture” “I measure and report every day. Here are my totals.” With last year’s drought behind us “If something made you look for drought conditions here, look elsewhere, they are not here.” Some at that thinking will change if our precip totals change over time, but most of that thinking will not change.

Without drought conditions, and plenty of umbrella use for downpours, some may not feel the urge to submit a Condition Monitoring Report. The urgency is not there, however, you can get into the habit of looking at your conditions and putting together a detailed statement about them.

For years, observers have asked “Who looks at our reports?” Time and time again in these Monthly Newsletters, it has been mentioned with screen shots where your precip reports go, last month we mentioned where your monthly totals go, snow reports to NOHRSC, Significant Weather Reports and Hail Reports alarming forecaster’s screens.

What do we have here? Another place where our CoCoRaHS reports appear. Another dimension has been added to our contribution as CoCoRaHS observers. The National Drought Mitigation Center can receive our Condition Monitoring Reports.

Gauge Photos



MA-HS-26



MA-MD-81

Wrap up

The upcoming celestial event that is all of the news is the total eclipse of the sun occurring on Monday August 21. Although New England is not in the path of a total eclipse, if sky conditions permit in the afternoon, we can experience about 65% of the sun being eclipsed by the moon. Links to animation for our states: [CT](#) [MA](#) [RI](#) Pay attention to your location within the state and the clock within this animation. It appears that the eclipse will begin after 130pm, reach its maximum around 245pm and return to normal by 400pm.

The first weekend in September is Labor Day Weekend, and Labor Day Weekend is our last [Field Photo](#) Weekend of the year. A chance to send a photo about your location instead of a report with numbers in them. Also a chance to find a place nearby to photograph the change in seasons.

The next WxTalk Webinar will probably occur on the same day our next Monthly Newsletter comes out. Thursday September 7 at 1pm eastern, the topic is very appropriate to our many miles of coastline and our exposure to tropical cyclones, coming at the climax of the season, titled ***Storm Surge, Run From the Water, Hide from the Wind***, by Jamie Rhome, Storm Surge Specialist, at the National Hurricane Center in Coral Gables FL.

It is not too early to mention that September 30 will close our Water Year and Water Year Summaries will appear afterwards. Anytime over these next two months is a good time to look over your station reporting. We notice that this Newsletter is a good prompt to fill in missing reports.

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