

Community Collaborative Rain, Hail & Snow Network



Southern



New England

December 2021

Not much in the way of cold and snow to start this winter season. Not much in the way of rain either. At last. A chance to dry out from the July-October rainy period that we had.

For when the pendulum of precipitation swings back at us, Joe's feature article is about the mPING app. If you haven't used mPING, the winter season is a great time to start. Moving on, a new webinar to look at for Winter Precip. Mistakes tend to happen with reporting, so please focus, learn and understand, which value to put in which field.

More news items, more tips, and plenty about your station totals.

We lead off, as we always do, with our version of "The Grand List"

Let's get into it.

The “Grand” List

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

4000 Daily Reports

RI-NW-5 Little Compton 1.7 NW

2000 Daily Reports

CT-TL-15 Central Somers 0.3 N

CT-FR-41 Bethel 3.5 NNE

CT-FR-35 Darien 1.8 ENE

1000 Daily Reports

CT-HR-45 Wethersfield 1.9 SSW

CT-TL-30 Mansfield Center 2.7 NE

CT-FR-58 Ridgefield 3.6 N

MA-BR-58 Dighton 3.3 NNW

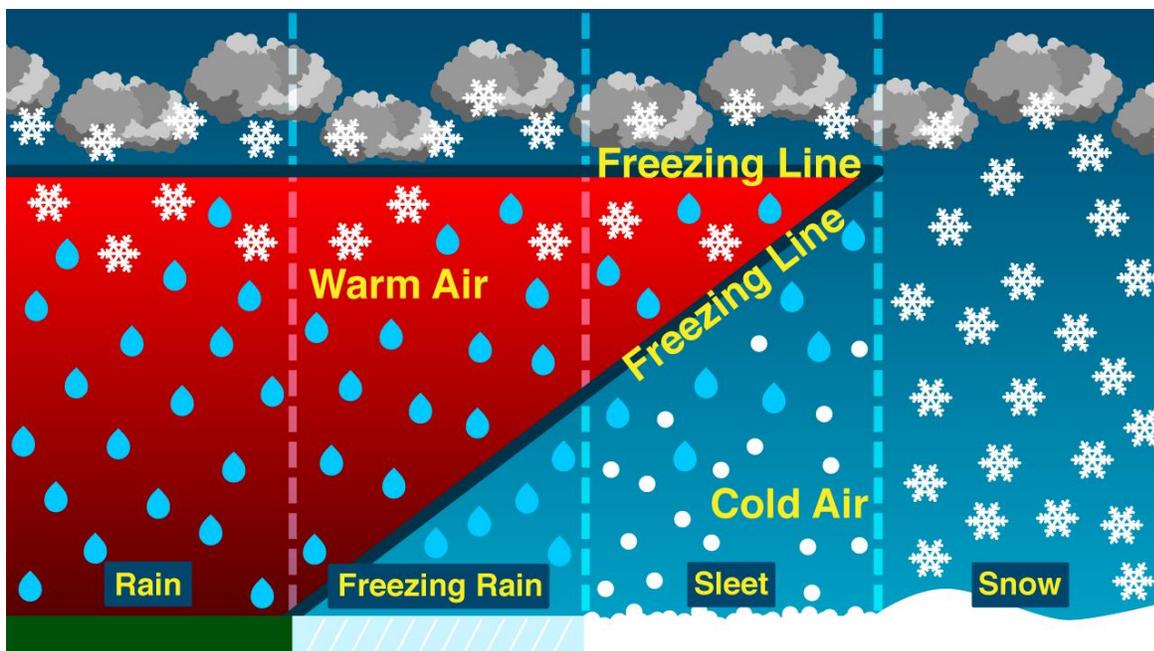
MA-ES-58 Middleton 1.4 SSW

Winter Precipitation Type and mPING

Joe DelliCarpini – Science & Operations Officer, NWS Boston/Norton MA

Now that we're heading into winter, many of us will observe the various types of wintry precipitation: snow, sleet, and freezing rain. What causes each type of precipitation to fall? It has to do with how much warm air, if any, is present and how far that warm air extends up in the atmosphere (think from the ground to the level where the clouds are). We'll refer to the distance between the ground and clouds as a "layer" of air.

Check out the diagram below. Let's follow it from right to left. If the entire layer is below freezing, then the precipitation falls as snow. If there is a small area where the temperature rises above freezing, but it remains cold near the ground, the snowflakes partially melt and refreeze as they reach the ground, forming sleet. These are small balls of ice that bounce around. It's not the same as hail which only occurs in thunderstorms. If the area of above-freezing air becomes deeper, but it remains cold right at the ground, then the snowflakes melt into rain drops, but the rain freezes upon contact with the ground, forming freezing rain. This causes trees, wires, and other objects to become coated with ice. Finally, if most of the air between the clouds and the ground is above freezing, the precipitation falls as rain.



We rely on your Significant Weather Reports (SWRs) to tell us what is falling. If you can, send a SWR whenever you observe a change in precipitation type such as snow to sleet, sleet to freezing rain, sleet to rain, etc. We can see where precipitation is falling on Doppler Radar and can get a sense of what type of precipitation is occurring, but often the radar is sampling what is happening a few thousand feet above the ground.

Another very useful option is to report precipitation type using the [mPing app](#), which is free and available for Android and iPhone. With just a couple of clicks, and GPS enabled, you can quickly report the precipitation type that is falling at your location.



Home screen on the mPing app

At NWS Boston, and many other NWS offices, we display a map of mPing reports on our large Situational Awareness display to help us see where the rain/snow line is or where icing is going to occur. mPing uses GPS so you can report from wherever you are, not just at home!



News Items

Multi-Day Reports with Daily Reports: We need your help. We need to gather more data on this topic. If you enter a Daily Report and a Multi-Day Report for the same day or same range of dates, and the system accepts both reports, **please email a Coordinator immediately.**

We need to know your station ID, the date in question, what report you submitted first and next, and if you used a web browser or the mobile app to enter the reports.

With these details, we hope to get to the bottom of why this occurs.
Thanks.

All that extra stuff: More than a precipitation network, this crew of observers gets it. Whether its Significant Weather Reports with the snow in February or with the tropical storms in August, Condition Monitoring Reports during the year, and hail reports in November, what you do throughout the year, this Year 2021, remains impressive.

We have 29 Consistent Stations reporting Conditions, a total of 1300 Condition Monitoring Reports from everyone, nearly 500 Significant Weather Reports for the year, and although Hail Reports are down across the network, seeing Hail Reports in November makes me smile.

Let's put all that in context of the larger network. Our 550 reporting stations this month makes up about 3% of the total network. 29 Consistent Stations is 9% of the total. 1300 Condition Reports is 7% of the total. 500 Significant Weather Reports is 9% of the total. Well... Southern New England isn't exactly Hail Country but come April you can see if you're fortunate enough to experience Rain, Hail and Snow in the same 24 hours, or even in the same month.

Thank you... for all that extra stuff that you do.

Observer Tips



Winter Weather Measurements: Late November, a webinar was held about Winter Weather Measurements. For new observers and seasoned observers alike, it is recommended to view and review these guidelines within this webinar. [Video](#). [Slides](#).

The Common Reporting Mistake: So far, snow fall has been sparse, so when snow fall returns in earnest, let us all avoid this, The Common Reporting Mistake which is: New Snow Fall amount where the melted precip value goes.

Focus on the Gauge Catch. If you can do one thing, and one thing only, that one thing is to find the *melted amount* of what falls in your gauge and report that value in the first position. Keep a running total of precipitation throughout the winter and the rest of the year.

Please. Avoid reports of '1.50' '3.20' and other common snow amounts in that first value when the snow comes. Those values jump off the map like a sore thumb. Instead, find the melted amount of what falls in your gauge and report that in the first value. Thanks.

Make a Hydrologist Happy: We measure and report precipitation to the nearest 0.01". We measure and report new snow to the nearest 0.1" If you want to make a hydrologist happy, please report total snow depth to the nearest half inch. An average. Avoid the piles of shoveled snow.

Zeros help. We define where the snow is and where the snow is not. Snow cover can be a flood, waiting for a rainy day or a 60F day to happen. "Days of Snow on the Ground" appears in each of your Water Year Summaries.

Make a hydrologist happy. If you can safely and accurately do so, please report snow depth all year round, an average, to the nearest half inch.

What to buy the Observer that has everything?: There is no obligation to spend more \$ on your CoCoRaHS hobby, but if you're looking for something more, if you have been at this network for more than a couple of years, allow me to make a few suggestions.

- A second gauge or outer cylinder. Helpful for snowy and rainy days alike, changing out the gauge on the post. And best acquired soon, before the March recruiting drive strains the available inventory.
- A precise weigh scale, grams or ounces. To determine liquid content of snow much quicker than watch-and-melt or add-hot-water pour-and-subtract.
- Metal snow ruler. I've used tape measures, and the plastic ruler that the school kids use. All work well when the powder is fresh. Here, the powder turns icy over a few days and weeks, and a metal ruler cuts through it all with ease, whereas the others bend and break.
- A weather radio. Old school. Why bother with the internet, everyone's take on model ensembles, Twitter and mobile apps? 😊 Go back to a simpler time when we listened to the radio!
- Feeling handy with a saw and a drill? Looking for an indoor project? I have built an inner cylinder stand for pouring, and sharpened teeth on a 4" PVC pipe for snow cores. Want details? Pictures? Just ask.



Significant Weather Reports: It is as easy to remember as 1-2-3

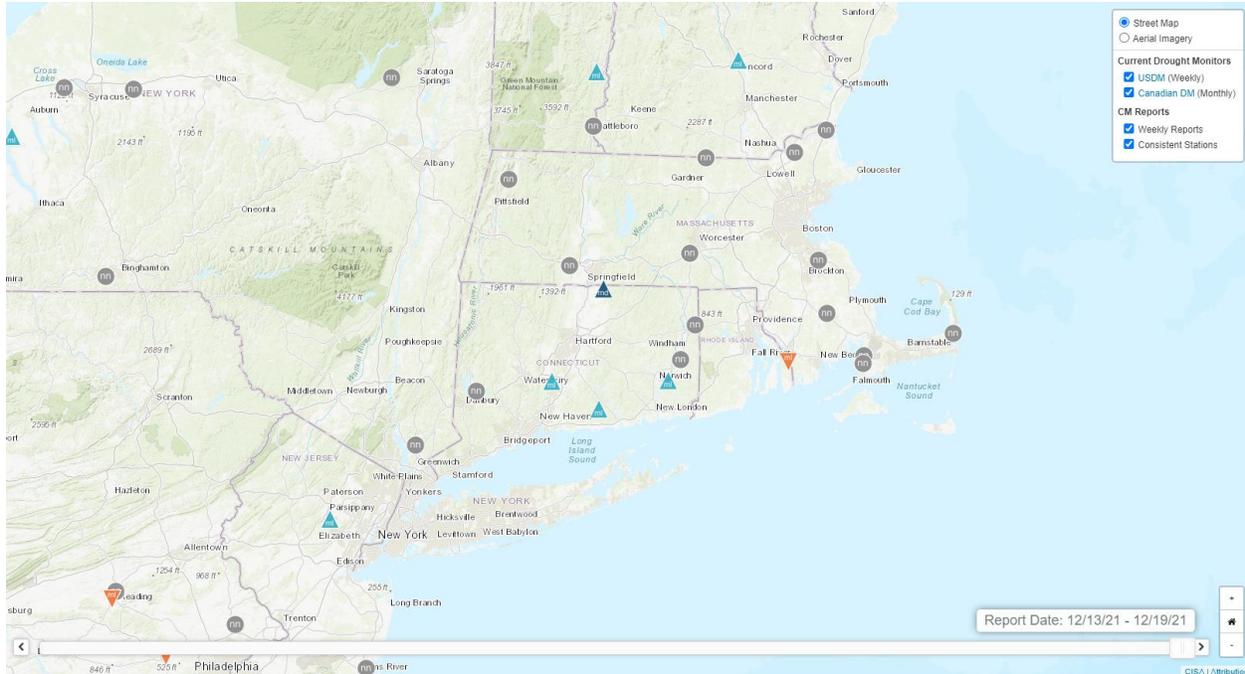
- **1" or more of rain or snow in 1 hour or less.**
- **2" or more of rain.**
- **3" of new snow.**
- **Flooding.**
- **Change of precip type.**
- **Snow total**
- **Anything you feel is significant!**

mPING app for Apple and Android: What Joe said earlier! Use mPING to report precip type and reduced visibility in real time.

Condition Monitoring Reports

Are we getting too much or too little rain or snow? Animal activity? Ground or lakes/ponds frozen yet? There is still plenty to observe in these winter months.

Thank you for being the standout group in our network.



nn Griswold 0.9 N
Sun Dec 19 2021

Since my last report on 12/12/2021 there has been 0.30" of precipitation. The water level in Hopeville Pond is about normal, with plenty of good quality and available of water for animals and human use. The soil is becoming less saturated with water. The animals are still using the pond and surrounding areas to their advantage with sightings of deer,foxes,raccoon prints,water fowl, and some birds. A lot of action is seen at the deer feeder.

CT-NL-21 -- General Awareness,Plants And Wildlife,Water Supply And Quality

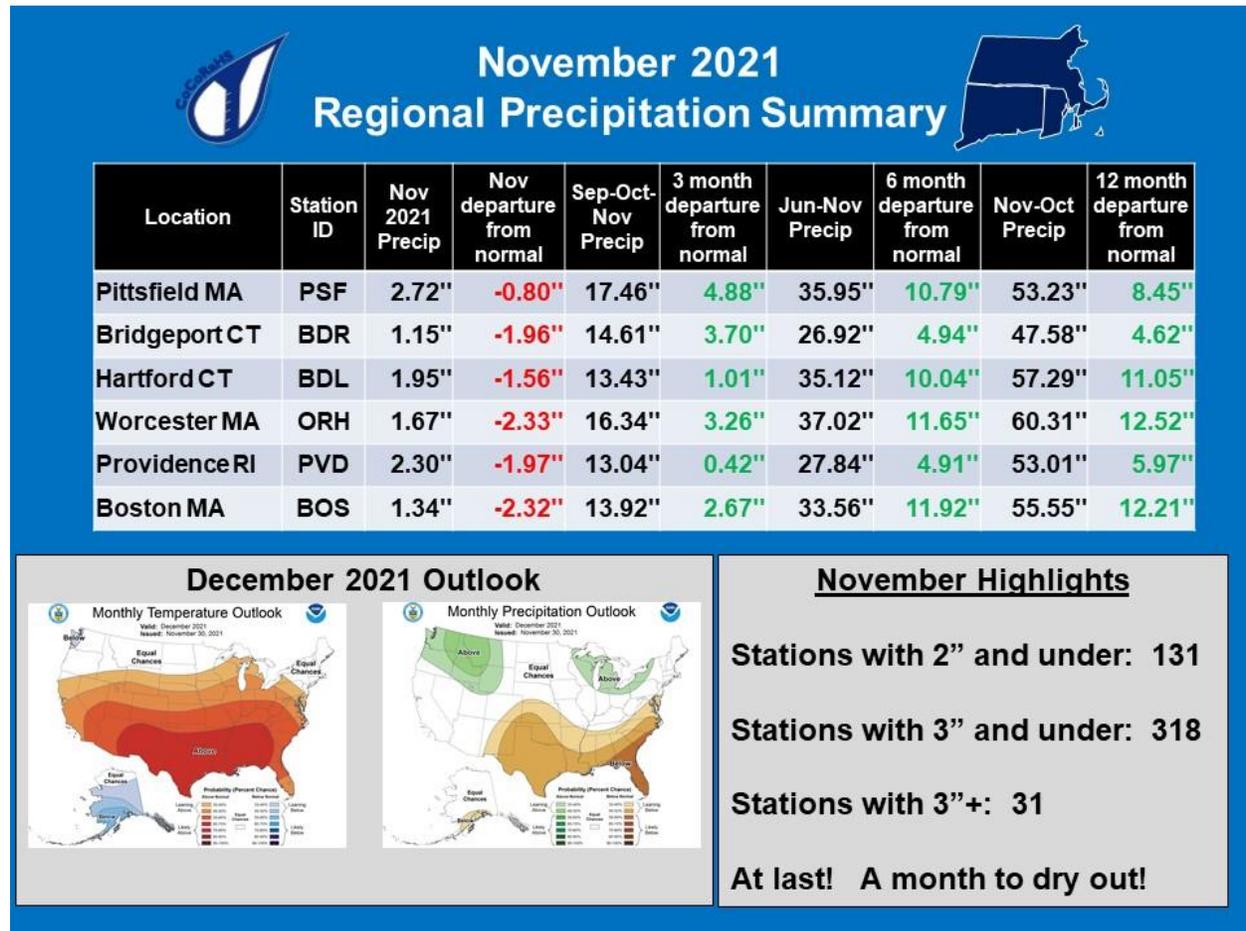
nn Newburyport 0.4 NNW
Sat Dec 18 2021

.97 inches of rain in the last week. Ground still not frozen. Some rhododendrons look like the buds are going to open up with the warm weather we've had.

MA-ES-64 -- General Awareness

Detail and Summary for November 2021

From the National Weather Service (NWS) Climate sites for Nov 2021.



From your reports for November 2021

Observers reporting	549
Reported all 30 days	272
Completed by Multi-Day Reports	79
Missing 1 or 2 reports	71
Daily Reports	13,301
Zero Reports	8,402
Non-Zero Reports	4,899
Daily Comments	2,227
Multi-Day Reports	252
Condition Monitoring Reports	103
Significant Weather Reports	10
Hail Reports	4
Snowfall Reports	10,146
Snow Depth Reports	4,042
Total SWE Reports	2,614
Highest Daily Report	2.53" from Falmouth 3.1 NNW (MA-BA-2) on 11/13

Welcome to another 5 new members to this list from around the area, Topsfield, Milton, Granby & Dudley MA along with Greenville RI.

94 out the 106 Watersheds in our area are in this month's list.

Cover all days in the month, no NA's for precip – even when it snows, no overlapping Multi-Day reports and your station can be listed here.

This list is sorted by Watershed which is explained further in this 5 minute [video](#).

Watershed	Watershed Name	Station Number	Station Name	Precip
01070004	Nashua			
0107000401	North Nashua River	MA-WR-44	Westminster 0.6 WSW	2.70"
0107000401	North Nashua River	MA-WR-8	Fitchburg 1.6 SSW	2.84"
0107000401	North Nashua River	MA-WR-22	Fitchburg 2.0 NNE	2.63"
0107000402	Headwaters Nashua River	MA-WR-56	Sterling 4.3 NW	1.75"
0107000402	Headwaters Nashua River	MA-WR-58	Lunenburg 0.6 NE	1.95"
0107000402	Headwaters Nashua River	MA-MD-25	Ayer 0.1 SW	1.09"
0107000402	Headwaters Nashua River	MA-MD-192	Ayer 0.4 SSE	1.58"
0107000403	Squannacook River	MA-MD-47	West Townsend 0.5 W	2.73"
0107000404	Nissitissit River-Nashua River	MA-MD-169	Pepperell 2.1 SSW	1.84"
01070005	Concord			
0107000501	Sudbury River	MA-MD-89	Sudbury 3.6 W	2.66"
0107000501	Sudbury River	MA-MD-178	Framingham 2.0 NNE	2.56"
0107000501	Sudbury River	MA-MD-107	Framingham 1.7 E	2.70"
0107000502	Concord River	MA-WR-30	Shrewsbury 1.6 NNE	1.81"
0107000502	Concord River	MA-WR-28	Berlin 1.3 WSW	1.66"
0107000502	Concord River	MA-WR-42	Northborough 2.3 N	1.76"
0107000502	Concord River	MA-MD-115	Hudson 1.4 NW	2.02"
0107000502	Concord River	MA-WR-55	Harvard 2.1 S	1.58"
0107000502	Concord River	MA-MD-12	Acton 1.3 SW	2.30"
0107000502	Concord River	MA-MD-166	Acton 0.5 SW	2.00"
0107000502	Concord River	MA-MD-51	Maynard 0.7 ESE	2.57"
0107000502	Concord River	MA-MD-62	Chelmsford 1.2 E	2.70"
01070006	Merrimack River			
0107000612	Stony Brook - Merrimack River	MA-MD-104	Littleton 2.8 NNW	1.79"
0107000612	Stony Brook - Merrimack River	MA-MD-93	Westford 1.5 SSW	1.74"
0107000613	Shawsheen River	MA-MD-96	Lexington 0.3 NE	2.63"
0107000613	Shawsheen River	MA-ES-48	Andover 0.6 E	2.80"
0107000614	Powwow River - Merrimack River	MA-ES-66	North Andover 0.3 NW	2.46"

0107000614	Powwow River - Merrimack River	MA-ES-20	Haverhill 0.7 N	3.20"
0107000614	Powwow River - Merrimack River	MA-ES-4	Groveland 0.5 WSW	2.71"
0107000614	Powwow River - Merrimack River	MA-ES-61	Amesbury 2.6 WSW	2.78"
0107000614	Powwow River - Merrimack River	MA-ES-59	Amesbury 1.2 N	3.08"
0107000614	Powwow River - Merrimack River	MA-ES-68	Newburyport 1.3 WNW	2.90"
0107000614	Powwow River - Merrimack River	MA-ES-64	Newburyport 0.4 NNW	2.78"
0107000614	Powwow River - Merrimack River	MA-ES-70	Newburyport 0.6 N	2.95"
0107000614	Powwow River - Merrimack River	MA-ES-56	Newburyport 1.0 ESE	2.46"
01080201	Middle Connecticut			
0108020105	Fall River - Connecticut River (Northfield MA)			
0108020106	Manhan River - Connecticut River	MA-HS-2	Westhampton 1.8 SW	3.23"
0108020106	Manhan River - Connecticut River	MA-HS-45	Westhampton 0.4 WNW	3.23"
0108020106	Manhan River - Connecticut River	MA-HS-8	Williamsburg 1.2 WSW	2.70"
0108020106	Manhan River - Connecticut River	MA-HS-21	Northampton 0.6 ESE	2.70"
0108020106	Manhan River - Connecticut River	MA-FR-12	Sunderland 1.3 SE	2.32"
0108020106	Manhan River - Connecticut River	MA-FR-36	Montague 3.4 NNW	2.24"
0108020107	Batchelor Brook - Connecticut River	MA-HD-36	West Springfield 0.3 E	2.81"
0108020107	Batchelor Brook - Connecticut River	MA-HD-13	Springfield 4.1 W	2.42"
0108020107	Batchelor Brook - Connecticut River	MA-HS-47	Granby 0.5 WSW	2.33"
01080202	Miller			
0108020201	Upper Millers River	NH-CH-20	Rindge 3.2 ESE	3.00"
0108020202	Lower Millers River	MA-WR-40	Gardner 1.4 SSW	2.26"
01080203	Deerfield			
0108020303	North River	MA-FR-31	Colrain 3.7 WNW	2.22"
0108020304	Green River (Leyden, E Shelburne, Greenfield MA)			
0108020305	Lower Deerfield River	MA-FR-17	Buckland 1.8 ESE	2.03"
0108020305	Lower Deerfield River	MA-FR-41	Conway 3.4 WSW	2.30"
0108020305	Lower Deerfield River	MA-FR-42	Shelburne Falls 0.4 ENE	1.94"
0108020305	Lower Deerfield River	MA-FR-13	Conway 2.9 NW	2.10"
0108020305	Lower Deerfield River	MA-FR-10	Conway 0.9 SW	2.28"
01080204	Chicopee			
0108020401	Swift River	MA-FR-8	New Salem 3.1 S	2.42"
0108020402	Ware River	MA-WR-54	Barre 1.4 NNE	2.23"
0108020403	Quaboag River	MA-HD-26	Brimfield 3.6 NW	2.30"
0108020403	Quaboag River	MA-WR-75	Warren 2.4 WSW	2.11"
0108020404	Chicopee River (Ludlow, Chicopee MA)			
01080205	Lower Connecticut			
0108020501	Mill River - Connecticut River	CT-HR-82	Suffield 0.5 NNE	1.53"
0108020501	Mill River - Connecticut River	CT-HR-57	Suffield Depot 3.3 NNE	2.24"
0108020501	Mill River - Connecticut River	MA-HD-33	Agawam 1.1 SSW	2.10"
0108020501	Mill River - Connecticut River	CT-HR-106	Southwood Acres 0.3 WSW	1.56"

0108020501	Mill River - Connecticut River	CT-HR-5	Enfield 1.5 SE	2.05''
0108020501	Mill River - Connecticut River	MA-HD-30	Hampden 2.0 NW	2.01''
0108020502	Scantic River	CT-TL-46	Broad Brook 3.3 SE	1.44''
0108020502	Scantic River	CT-TL-26	Broad Brook 2.6 ESE	2.01''
0108020502	Scantic River	CT-TL-35	Somersville 0.2 ENE	1.75''
0108020502	Scantic River	MA-HD-32	East Longmeadow 2.3 ESE	1.96''
0108020502	Scantic River	CT-TL-41	Somers 0.3 S	1.74''
0108020502	Scantic River	CT-TL-15	Central Somers 0.3 N	1.77''
0108020502	Scantic River	CT-TL-49	Somers 1.2 NE	1.74''
0108020503	Park River	CT-HR-39	Farmington 1.6 SW	1.98''
0108020503	Park River	CT-HR-63	West Hartford 1.1 NNE	1.91''
0108020503	Park River	CT-HR-85	West Hartford 2.3 NNE	2.07''
0108020503	Park River	CT-HR-115	West Hartford 1.6 SE	1.68''
0108020504	Hockanum River	CT-HR-100	Manchester 0.4 ENE	1.71''
0108020504	Hockanum River	CT-TL-19	Vernon 2.8 N	1.71''
0108020504	Hockanum River	CT-TL-50	Vernon 1.6 N	1.70''
0108020505	Roaring Brook - Connecticut River	CT-HR-6	Wethersfield 1.2 WSW	1.85''
0108020505	Roaring Brook - Connecticut River	CT-HR-68	Rocky Hill 1.3 E	1.67''
0108020506	Mattabeset River	CT-HR-15	Southington 3.0 E	2.11''
0108020506	Mattabeset River	CT-HR-65	Newington 1.9 SSW	1.93''
0108020507	Higganum Creek - Connecticut River	CT-MD-23	Higganum 0.7 N	1.89''
0108020507	Higganum Creek - Connecticut River	CT-MD-26	Higganum 0.8 NE	1.83''
0108020508	Salmon River	CT-NL-70	Colchester 0.6 ENE	1.92''
0108020509	Eightmile River - Connecticut River	CT-MD-18	Essex Village 0.9 S	1.71''
01080206	Westfield			
0108020601	Headwaters Westfield River	MA-HS-7	Plainfield 2.2 SW	2.17''
0108020602	West Branch Westfield River (Becket, Chester MA)			
0108020603	Outlet Westfield River	CT-HR-88	Suffield Depot 6.0 WNW	2.57''
0108020603	Outlet Westfield River	MA-HD-28	Westfield 2.8 SE	2.34''
0108020603	Outlet Westfield River	MA-HD-29	West Springfield 1.6 SSW	2.65''
01080207	Farmington			
0108020701	Still River	CT-LT-44	Winsted 1.0 WSW	3.31''
0108020702	West Branch Farmington River	CT-LT-43	Winsted 3.8 ESE	2.46''
0108020702	West Branch Farmington River	CT-LT-18	New Hartford Center 1.5 N	2.75''
0108020703	East Branch Farmington River (W Granville MA, Barkhamsted Res CT)			
0108020704	Headwaters Farmington River	CT-LT-9	New Hartford Center 3.2 SW	2.53''
0108020704	Headwaters Farmington River	CT-HR-70	Canton 1.5 W	2.65''
0108020704	Headwaters Farmington River	CT-HR-71	Bristol 2.7 NNE	2.70''
0108020704	Headwaters Farmington River	CT-HR-28	North Canton 0.8 SSW	2.94''

0108020705	Salmon Brook	CT-HR-8	North Granby 1.3 ENE	2.60"
0108020706	Outlet Farmington River	CT-HR-102	Windsor Locks 3.2 SW	1.97"
01090001	Charles			
0109000101	Plum Island Sound - Frontal Atlantic Ocean	MA-ES-77	Groveland 1.2 NE	2.77"
0109000101	Plum Island Sound - Frontal Atlantic Ocean	MA-ES-19	West Newbury 1.8 SSE	2.89"
0109000101	Plum Island Sound - Frontal Atlantic Ocean	MA-ES-24	Newburyport 0.8 SW	2.90"
0109000102	Ipswich River	MA-MD-85	Wilmington 2.2 WNW	2.70"
0109000102	Ipswich River	MA-MD-125	Tewksbury 3.6 SSE	2.76"
0109000102	Ipswich River	MA-MD-160	Reading 1.2 N	2.68"
0109000102	Ipswich River	MA-ES-58	Middleton 1.4 SSW	2.41"
0109000102	Ipswich River	MA-ES-12	Boxford 2.4 S	2.64"
0109000102	Ipswich River	MA-ES-85	Topsfield 1.7 N	2.62"
0109000102	Ipswich River	MA-ES-71	Danvers 2.5 NNE	2.36"
0109000103	Essex River - Frontal Atlantic Ocean	MA-ES-41	Danvers 0.8 ESE	2.14"
0109000103	Essex River - Frontal Atlantic Ocean	MA-ES-22	Rockport 1.0 E	1.66"
0109000104	Saugus River - Frontal Broad Sound	MA-MD-81	Wakefield 0.5 NNW	2.24"
0109000104	Saugus River - Frontal Broad Sound	MA-MD-126	Melrose 0.5 NE	2.16"
0109000104	Saugus River - Frontal Broad Sound	MA-ES-76	Nahant 0.7 N	1.48"
0109000104	Saugus River - Frontal Broad Sound	MA-ES-45	Nahant 0.4 N	1.51"
0109000104	Saugus River - Frontal Broad Sound	MA-ES-8	Marblehead 0.8 SW	1.36"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-123	Lexington 1.3 SE	2.16"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-175	Arlington 0.4 WNW	2.27"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-7	Winchester 0.7 SE	1.95"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-44	Medford 1.2 W	2.28"
0109000105	Mystic River - Frontal Boston Harbor	MA-MD-11	Cambridge 0.9 NNW	2.27"
0109000105	Mystic River - Frontal Boston Harbor	MA-SF-10	Chelsea 0.8 N	1.86"
0109000106	Upper Charles River	MA-MD-55	Holliston 0.7 W	2.55"
0109000106	Upper Charles River	MA-NF-64	Medway 2.1 W	2.51"
0109000106	Upper Charles River	MA-MD-42	Holliston 0.8 S	2.43"
0109000106	Upper Charles River	MA-NF-62	Franklin 1.4 SW	2.27"
0109000106	Upper Charles River	MA-MD-158	Sherborn 1.1 NW	2.45"
0109000106	Upper Charles River	MA-NF-50	Millis 1.4 ENE	2.39"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-120	Natick 1.9 NNE	1.92"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-71	Newton 2.2 NNW	2.35"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-119	Watertown 1.1 W	2.34"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-SF-31	Boston 6.5 SW	1.83"
0109000107	Lower Charles River - Frontal Boston Harbor	MA-MD-134	Somerville 0.5 SSE	1.76"
0109000108	Neponset River - Frontal Boston Harbor	MA-NF-1	Norwood 1.3 NW	1.66"
0109000108	Neponset River - Frontal Boston Harbor	MA-NF-65	Milton 1.3 N	1.74"
0109000108	Neponset River - Frontal Boston Harbor	MA-NF-54	Quincy 1.2 W	1.64"
0109000109	Whitmans Pond - Frontal Boston Harbor	MA-NF-39	Weymouth 2.3 N	1.73"

0109000109	Whitmans Pond - Frontal Boston Harbor	MA-PL-36	Hingham 0.8 ESE	1.80"
01090002	Cape Cod			
0109000201	North River - Frontal Massachusetts Bay	MA-PL-5	Kingston 3.3 WNW	1.91"
0109000201	North River - Frontal Massachusetts Bay	MA-PL-48	Marshfield 1.5 NNW	1.71"
0109000201	North River - Frontal Massachusetts Bay	MA-PL-2	Sagamore Beach 1.0 NW	2.86"
0109000202	Cape Cod	MA-BA-2	Falmouth 3.1 NNW	3.52"
0109000202	Cape Cod	MA-BA-57	Falmouth 5.7 N	2.96"
0109000202	Cape Cod	MA-BA-87	Falmouth 1.5 NNW	3.04"
0109000202	Cape Cod	MA-BA-13	Falmouth 0.6 NNW	3.57"
0109000202	Cape Cod	MA-BA-50	Falmouth 5.4 NNE	3.25"
0109000202	Cape Cod	MA-BA-17	East Falmouth 1.2 WNW	3.37"
0109000202	Cape Cod	MA-BA-19	East Falmouth 0.7 NW	3.34"
0109000202	Cape Cod	MA-BA-46	East Falmouth 0.2 ESE	3.46"
0109000202	Cape Cod	MA-BA-3	Falmouth 3.0 E	3.08"
0109000202	Cape Cod	MA-BA-92	Mashpee 3.2 WSW	2.88"
0109000202	Cape Cod	MA-BA-11	East Falmouth 1.4 ESE	3.15"
0109000202	Cape Cod	MA-BA-83	Mashpee 2.5 W	3.46"
0109000202	Cape Cod	MA-BA-18	Waquoit 0.6 SSW	3.15"
0109000202	Cape Cod	MA-BA-47	Mashpee 2.4 WSW	3.25"
0109000202	Cape Cod	MA-BA-45	Sandwich 0.9 NNE	3.19"
0109000202	Cape Cod	MA-BA-64	Sandwich 1.5 SSE	2.69"
0109000202	Cape Cod	MA-BA-79	Mashpee 0.8 SSW	2.92"
0109000202	Cape Cod	MA-BA-78	Mashpee 4.6 S	3.02"
0109000202	Cape Cod	MA-BA-10	East Sandwich 2.3 SE	2.70"
0109000202	Cape Cod	MA-BA-59	Barnstable 3.6 W	3.03"
0109000202	Cape Cod	MA-BA-76	Barnstable 0.7 NE	2.63"
0109000202	Cape Cod	MA-BA-22	Yarmouth 0.9 NNW	2.31"
0109000202	Cape Cod	MA-BA-72	Yarmouth 2.0 S	2.15"
0109000202	Cape Cod	MA-BA-1	Yarmouth 2.3 SSE	2.05"
0109000202	Cape Cod	MA-BA-77	South Dennis 1.0 NW	2.11"
0109000202	Cape Cod	MA-BA-52	Truro 0.8 E	2.13"
0109000202	Cape Cod	MA-BA-68	Eastham 1.9 WSW	1.98"
0109000202	Cape Cod	MA-BA-42	Orleans 1.8 S	2.14"
0109000202	Cape Cod	MA-BA-51	Orleans 3.0 S	2.15"
0109000202	Cape Cod	MA-BA-12	Orleans 1.1 E	1.89"
0109000202	Cape Cod	MA-BA-43	Chatham 0.4 WSW	1.36"
0109000203	Mattapoisett River - Frontal Buzzards Bay	MA-PL-63	Wareham 5.6 NE	2.38"
0109000204	Paskamanset River - Frontal Buzzards Bay	MA-BR-14	Dartmouth 2.5 SSW	1.72"
0109000204	Paskamanset River - Frontal Buzzards Bay	MA-BR-52	New Bedford 4.3 N	1.69"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-5	Little Compton 1.7 NW	1.41"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-17	Tiverton 4.4 SSE	1.87"

0109000205	Sakonnet Point - Frontal Rhode Island Sound	RI-NW-7	Little Compton 0.6 E	1.33"
0109000205	Sakonnet Point - Frontal Rhode Island Sound	MA-BR-37	Westport 0.9 ESE	2.05"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-21	Chilmark 0.9 E	2.81"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-5	West Tisbury 2.9 N	4.34"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-9	West Tisbury 0.4 S	2.84"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-2	Vineyard Haven 0.8 WSW	2.83"
0109000206	Elizabeth Islands - Marthas Vineyard	MA-DK-18	Oak Bluffs 0.1 SW	2.37"
0109000207	Nantucket Island	MA-NT-1	Nantucket 3.8 WNW	2.15"
01090003	Blackstone			
0109000301	Upper Blackstone River	MA-WR-41	Auburn 2.6 SW	2.02"
0109000301	Upper Blackstone River	MA-WR-43	Leicester 2.4 ESE	1.52"
0109000301	Upper Blackstone River	MA-WR-81	Worcester 1.6 SE	1.63"
0109000301	Upper Blackstone River	MA-WR-69	Northbridge 1.7 WNW	2.01"
0109000302	Lower Blackstone River	RI-PR-50	Harrisville 1.2 SSE	2.78"
0109000302	Lower Blackstone River	MA-WR-90	Upton 0.4 NE	2.75"
0109000302	Lower Blackstone River	RI-PR-28	North Smithfield 0.7 SE	2.19"
0109000302	Lower Blackstone River	RI-PR-89	Woonsocket 1.8 WNW	2.52"
0109000302	Lower Blackstone River	MA-NF-67	Bellingham 3.6 SSW	2.10"
0109000302	Lower Blackstone River	RI-PR-45	Manville 0.4 WSW	2.13"
0109000302	Lower Blackstone River	MA-NF-26	Bellingham 2.4 S	2.30"
0109000302	Lower Blackstone River	RI-PR-106	Valley Falls 1.1 W	2.88"
01090004	Narragansett			
0109000401	Upper Taunton River	MA-BR-30	Taunton 3.9 N	1.70"
0109000401	Upper Taunton River	MA-NF-31	Stoughton 1.2 E	2.56"
0109000401	Upper Taunton River	MA-PL-22	East Bridgewater 0.3 WSW	2.11"
0109000401	Upper Taunton River	MA-PL-15	Abington 1.2 NNE	1.52"
0109000401	Upper Taunton River	MA-PL-60	Abington 1.7 ESE	2.05"
0109000401	Upper Taunton River	MA-PL-23	Pembroke 2.8 SW	1.94"
0109000402	Middle Taunton River	MA-PL-61	Middleborough 3.5 SSE	1.95"
0109000402	Middle Taunton River	MA-PL-17	Plympton 0.9 NNE	1.99"
0109000403	Threemile River	MA-BR-55	NWS Boston/Norton 2.5 ESE	1.69"
0109000404	Ten Mile River	MA-BR-23	Attleboro 0.9 ENE	2.14"
0109000405	Woonasquatucket River-Moshassuck River	RI-PR-33	Greenville 0.7 NNW	2.19"
0109000405	Woonasquatucket River-Moshassuck River	RI-PR-51	North Smithfield 0.6 S	2.28"
0109000406	Pawtuxet River	RI-PR-121	Greenville 6.7 WSW	2.71"
0109000406	Pawtuxet River	RI-KN-51	Coventry 3.7 W	2.71"
0109000406	Pawtuxet River	RI-KN-36	Coventry 2.5 NW	2.83"
0109000406	Pawtuxet River	RI-KN-59	Coventry 1.2 SW	3.21"
0109000406	Pawtuxet River	RI-KN-21	Coventry 1.9 NE	3.29"
0109000406	Pawtuxet River	RI-KN-58	Coventry 1.0 E	2.80"
0109000406	Pawtuxet River	RI-PR-57	Cranston 1.2 SSE	2.98"

0109000406	Pawtuxet River	RI-PR-112	Cranston 1.7 NNE	3.02"
0109000407	Palmer River	RI-BR-11	Bristol 2.0 NNW	1.57"
0109000407	Palmer River	MA-BR-2	Rehoboth 2.1 N	2.30"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-NF-73	Foxborough 3.1 E	2.66"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-61	Mansfield 2.4 ENE	2.51"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-16	Somerset 0.4 SSE	1.68"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-58	Dighton 3.3 NNW	1.92"
0109000408	Lower Taunton River - Frontal Mount Hope Bay	MA-BR-8	Dighton 1.1 WSW	1.93"
0109000409	Narragansett Bay	RI-KN-17	East Greenwich 1.2 NNE	2.53"
0109000409	Narragansett Bay	RI-WS-54	North Kingstown 2.7 WSW	2.09"
0109000409	Narragansett Bay	RI-WS-50	North Kingstown 3.1 NW	3.08"
0109000409	Narragansett Bay	RI-WS-31	Kingston 7.5 NNE	2.20"
0109000409	Narragansett Bay	RI-KN-45	East Greenwich 2.8 NE	2.54"
0109000409	Narragansett Bay	RI-WS-44	North Kingstown 1.5 SSW	1.82"
0109000409	Narragansett Bay	RI-KN-15	Warwick 4.3 SSW	2.10"
0109000409	Narragansett Bay	RI-KN-30	East Greenwich 2.0 NE	2.22"
0109000409	Narragansett Bay	RI-WS-66	Narragansett 2.9 N	1.41"
0109000409	Narragansett Bay	RI-KN-2	East Greenwich 2.3 ESE	2.23"
0109000409	Narragansett Bay	RI-KN-23	Warwick 3.2 NNE	2.13"
0109000409	Narragansett Bay	RI-KN-31	Warwick 0.8 ENE	1.68"
0109000409	Narragansett Bay	RI-KN-37	Warwick 2.3 NNE	2.30"
0109000409	Narragansett Bay	RI-PR-67	Providence 1.6 NE	2.61"
0109000409	Narragansett Bay	RI-KN-38	Warwick 3.9 NNE	2.37"
0109000409	Narragansett Bay	RI-PR-104	Providence 2.1 NE	2.64"
0109000409	Narragansett Bay	RI-PR-84	Providence 2.7 NNE	2.67"
0109000409	Narragansett Bay	RI-NW-18	Jamestown 0.3 SSE	1.31"
0109000409	Narragansett Bay	RI-PR-108	East Providence 0.8 SSW	2.13"
0109000409	Narragansett Bay	RI-NW-30	Jamestown 0.7 NNE	1.57"
0109000409	Narragansett Bay	RI-BR-5	Barrington 1.3 WNW	1.94"
0109000409	Narragansett Bay	RI-NW-27	Newport 1.3 SW	1.47"
0109000409	Narragansett Bay	RI-NW-4	Middletown 1.1 SW	0.68"
0109000409	Narragansett Bay	RI-NW-16	Portsmouth 1.3 S	1.57"
0109000409	Narragansett Bay	RI-NW-32	Portsmouth 5.2 SSE	1.41"
0109000409	Narragansett Bay	MA-BR-63	Swansea 2.1 W	1.94"
0109000409	Narragansett Bay	RI-NW-20	Tiverton 1.0 SSW	1.55"
01090005	Pawcatuck-Wood			
0109000501	Wood River	RI-WS-1	Hope Valley 3.7 S	2.49"
0109000502	Upper Pawcatuck River	RI-WS-51	Richmond 2.4 SSE	2.64"
0109000502	Upper Pawcatuck River	RI-WS-42	Richmond 4.6 NNE	2.87"
0109000502	Upper Pawcatuck River	RI-WS-45	Charlestown 4.7 NNE	2.23"
0109000502	Upper Pawcatuck River	RI-WS-80	South Kingston 4.3 WSW	1.82"

0109000502	Upper Pawcatuck River	RI-WS-37	Kingston 2.4 SW	1.96"
0109000502	Upper Pawcatuck River	RI-WS-77	Kingston 0.7 WSW	2.00"
0109000502	Upper Pawcatuck River	RI-WS-69	Exeter 3.9 S	2.34"
0109000503	Lower Pawcatuck River	CT-NL-40	Pawcatuck 1.8 SSE	2.36"
0109000503	Lower Pawcatuck River	CT-NL-52	Pawcatuck 0.8 SE	2.14"
0109000503	Lower Pawcatuck River	RI-WS-47	Westerly 0.8 WNW	2.37"
0109000504	Frontal Block Island Sound	RI-WS-36	Charlestown 3.0 WSW	2.21"
0109000504	Frontal Block Island Sound	RI-WS-53	Charlestown 0.7 SE	2.04"
0109000504	Frontal Block Island Sound	RI-WS-65	Wakefield-Peacedale 0.9 W	1.69"
0109000504	Frontal Block Island Sound	RI-WS-81	Wakefield-Peacedale 0.4 SW	1.56"
0109000504	Frontal Block Island Sound	RI-WS-83	Wakefield-Peacedale 0.4 NNW	1.69"
0109000504	Frontal Block Island Sound	RI-WS-55	Wakefield 0.8 ENE	1.69"
0109000504	Frontal Block Island Sound	RI-WS-70	Wakefield-Peacedale 1.7 NNE	1.73"
01100001	Quinebaug			
0110000101	Upper Quinebaug River (Brimfield, Sturbridge, Dudley MA)			
0110000102	French River	MA-WR-88	Leicester 2.5 WSW	1.97"
0110000102	French River	MA-WR-105	Dudley 1.0 ESE	1.92"
0110000102	French River	MA-WR-68	Oxford 0.9 SSW	2.10"
0110000103	Fivemile River	CT-WN-4	East Killingly 1.3 SW	2.63"
0110000104	Middle Quinebaug River (Woodstock, Putnam, East Brooklyn CT)			
0110000105	Moosup River	CT-WN-8	Moosup 1.7 NE	3.41"
0110000105	Moosup River	CT-WN-25	Sterling 2.6 N	3.08"
0110000105	Moosup River	CT-WN-26	Danielson 3.2 ESE	3.13"
0110000105	Moosup River	RI-KN-14	Greene 1.4 E	2.57"
0110000106	Pachaug River	CT-NL-21	Griswold 0.9 N	2.69"
0110000107	Lower Quinebaug River (Brooklyn, Plainfield, Jewett City CT)			
01100002	Shetucket			
0110000201	Willimantic River	CT-TL-18	Hebron 5.3 NW	2.31"
0110000201	Willimantic River	CT-TL-40	Coventry 0.3 NNE	1.65"
0110000201	Willimantic River	CT-TL-2	Staffordville 0.4 NNW	1.95"
0110000202	Natchaug River	CT-TL-27	Willington 2.7 SE	2.01"
0110000202	Natchaug River	CT-TL-30	Mansfield Center 2.7 NE	1.91"
0110000202	Natchaug River	CT-WN-12	Eastford 2.0 W	2.16"
0110000203	Shetucket River	CT-WN-10	South Windham 1.3 NNE	2.67"
0110000203	Shetucket River	CT-NL-10	Norwich 2.5 NNE	2.42"
01100003	Thames			
0110000301	Yantic River (Lebanon, Bozrah CT)			
0110000302	Thames River-Frontal New London Harbor	CT-NL-5	Oakdale 2.6 WNW	2.35"
0110000302	Thames River-Frontal New London Harbor	CT-NL-6	New London 1.0 NNW	2.15"

0110000302	Thames River-Frontal New London Harbor	CT-NL-56	Norwich 5.2 SE	2.37"
0110000302	Thames River-Frontal New London Harbor	CT-NL-50	Norwich 5.4 SE	2.37"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-38	Old Lyme 3.4 ESE	2.18"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-29	East Lyme 0.5 SW	2.43"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-32	Niantic 1.1 SW	1.55"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-22	Central Waterford 2.7 SSW	1.68"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-37	Mystic 1.6 W	2.09"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-19	Mystic 0.9 W	1.82"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-24	Stonington 1.4 NNW	2.24"
0110000303	Mystic River - Frontal Fishers Island Sound	CT-NL-18	Stonington 0.5 NNE	2.26"
01100004	Quinnipiac			
0110000401	Quinnipiac River	CT-NH-14	Prospect 1.9 ENE	2.22"
0110000401	Quinnipiac River	CT-HR-55	Southington 1.7 WNW	2.35"
0110000401	Quinnipiac River	CT-HR-83	Plainville 1.7 SW	2.31"
0110000401	Quinnipiac River	CT-HR-76	Southington 1.0 ENE	1.81"
0110000401	Quinnipiac River	CT-NH-44	Wallingford Center 1.9 WNW	1.58"
0110000401	Quinnipiac River	CT-NH-43	Wallingford Center 3.3 NNW	1.61"
0110000401	Quinnipiac River	CT-NH-42	Wallingford Center 1.1 N	1.61"
0110000401	Quinnipiac River	CT-NH-72	Northford 0.8 SW	1.78"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-21	East Haven 3.5 SSW	1.24"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-56	Guilford Center 2.7 WSW	1.25"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-NH-50	Madison Center 4.1 N	1.36"
0110000402	Hammonasset River - Frontal Long Island Sound	CT-MD-21	Killingworth 2.6 ESE	1.15"
0110000403	Mill River - Frontal Long Island Sound	CT-NH-39	West Haven 0.8 W	1.65"
01100005	Housatonic			
0110000501	Headwaters Housatonic River	MA-BE-11	Great Barrington 3.0 N	2.72"
0110000502	Williams River - Housatonic River	MA-BE-23	Sheffield 1.6 NW	2.58"
0110000503	Konkapot River-Housatonic River	CT-LT-28	Canaan 4.2 ESE	2.23"
0110000504	Macedonia Brook - Housatonic River	CT-LT-47	Kent 1.0 NE	1.99"
0110000504	Macedonia Brook - Housatonic River	CT-LT-20	Warren 2.4 WNW	2.09"
0110000505	Tenmile River (Dover Plains NY, Sharon CT)			
0110000506	Candlewood Lake-Housatonic River	CT-LT-37	New Milford 3.1 WNW	2.22"
0110000506	Candlewood Lake-Housatonic River	CT-LT-22	New Milford 5.3 SSW	2.39"
0110000507	Shepaug River (Litchfield, Washington CT)			
0110000508	Still River - Housatonic River	CT-FR-43	Bethel 0.5 E	2.12"
0110000508	Still River - Housatonic River	CT-FR-9	Brookfield 3.3 SSE	2.38"
0110000509	Pomperaug River	CT-NH-77	Southbury 2.3 W	2.24"
0110000509	Pomperaug River	CT-LT-34	Woodbury Center 1.5 SSW	1.70"
0110000510	Eightmile Brook - Housatonic River (Newtown, Middlebury CT)			
0110000511	Headwaters Naugatuck River	CT-LT-7	Litchfield 2.3 NNE	3.18"

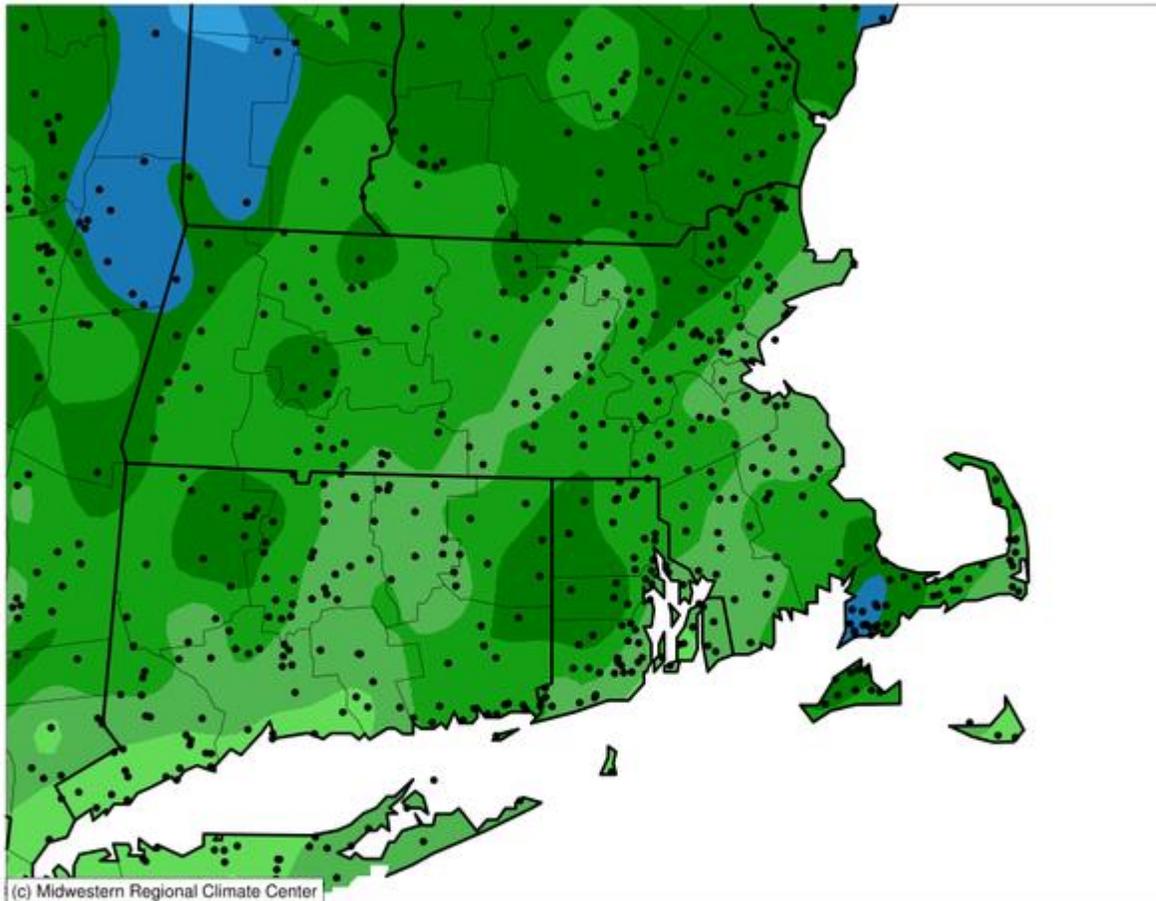
0110000512	Outlet Naugatuck River	CT-NH-80	Seymour 1.2 WSW	1.74"
0110000512	Outlet Naugatuck River	CT-NH-67	Waterbury 1.3 WNW	2.22"
0110000512	Outlet Naugatuck River	CT-NH-45	Naugatuck 1.7 NNE	2.26"
0110000512	Outlet Naugatuck River	CT-NH-22	Prospect 0.5 SW	2.23"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-23	Shelton 1.3 W	1.50"
0110000513	Housatonic River - Frontal Long Island Sound	CT-FR-46	Stratford 0.2 ESE	1.44"
01100006	Saugatuck			
0110000601	Saugatuck River - Frontal Long Island Sound	CT-FR-64	Bethel 4.5 SSE	1.90"
0110000601	Saugatuck River - Frontal Long Island Sound	CT-FR-78	Redding 1.4 E	1.91"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-59	New Canaan 3.8 N	1.60"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-63	Wilton 1.9 NW	1.27"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-3	New Canaan 1.9 ENE	1.29"
0110000602	Norwalk River - Frontal Norwalk Harbor	CT-FR-25	Norwalk 2.9 NNW	1.07"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-20	Westport 2.5 ENE	1.15"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-68	Fairfield 1.1 SSE	1.25"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-60	Fairfield 1.5 NE	1.14"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-57	Trumbull 0.9 W	1.12"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-70	Bridgeport 2.9 NNW	2.43"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-67	Trumbull 1.2 S	1.69"
0110000603	Pequonnock River - Frontal Long Island Sound	CT-FR-26	Stratford 0.9 W	1.27"
0110000604	Mianus River-Rippowam River	CT-FR-39	Stamford 4.2 S	0.96"
0110000604	Mianus River-Rippowam River	CT-FR-83	Darien 2.4 NW	0.92"
0110000604	Mianus River-Rippowam River	CT-FR-35	Darien 1.8 ENE	0.91"
0110000604	Mianus River-Rippowam River	CT-FR-66	Norwalk 1.4 ENE	0.97"
02020003	Hudson-Hoosic			
0202000306	Upper Hoosic River	MA-BE-21	Cheshire 0.5 NNW	2.69"
02020006	Middle Hudson			
0202000606	Kinderhook Creek	MA-BE-24	Hancock 3.6 NNE	3.86"
02030203	Long Island Sound			
0203020300	Long Island Sound	NY-SF-114	Fishers Island 0.5 NE	2.16"
10190007	Cache La Poudre			
1019000708	Horsetooth Reservoir - Cache La Poudre River	CO-LR-273	FCL 2.2 NW	0.40"
19020401	Anchorage			
1902040107	Rabbit Creek - Frontal Turnagain Arm	AK-AB-55	Anchorage 7.6 SSE	1.43"

November was a dry month, our first since June

Blue shade over 3". Dark green over 2.5". 1" shade over the southwest CT coastline.

Accumulated Precipitation (in)

November 01, 2021 to November 30, 2021



0.01 0.1 0.25 0.5 1 1.5 2 2.5 3 4 5 6 8

Stations from the following networks used: COOP, FAA, CoCoRaHS,

Midwestern Regional Climate Center

cli-MATE: MRCC Application Tools Environment

Generated at: 12/19/2021 7:44:33 PM CST

“We do not live at the airport”

An average of 1.86” of precip in this list for November. Our list of complete stations averaged 2.21”. It happened yet again. The analog gauges capture more than the automated gauges.

Please use and report from the 4” diameter gauge all year round. Our network does not use automated gauges. And we do not live at the airport!

Location	Station ID	Nov 2021 Precip	Nov departure from normal	Sep-Oct-Nov Precip	3 month departure from normal	Jun-Nov Precip	6 month departure from normal	Dec-Nov Precip	12 month departure from normal
White Plains NY	HPN	1.11"	-2.86"	15.64"	2.54"	28.60"	3.38"	44.67"	-4.68"
Danbury CT	DXR	1.83"	-2.42"	18.19"	4.93"	28.60"	1.74"	42.74"	-7.13"
New Haven CT	HVN	1.18"	-2.75"	15.47"	2.93"	26.25"	1.73"	44.71"	-2.40"
Meriden CT	MMK	1.56"	-2.37"	16.33"	3.79"	31.05"	6.53"	52.94"	5.83"
Hartford CT	HFD	1.84"	-2.00"	14.22"	2.76"	33.32"	10.21"	51.47"	7.87"
Willimantic CT	IJD	1.40"	-2.93"	12.32"	-0.41"	26.95"	2.05"	44.62"	-3.80"
New London CT	GON	1.92"	-2.39"	13.73"	1.56"	20.52"	-3.69"	42.34"	-4.15"
Westerly RI	WST	1.96"	-2.56"	12.85"	0.49"	21.33"	-2.65"	39.14"	-8.25"
Newport RI	UUU	1.34"	-3.13"	15.48"	3.25"	27.29"	4.09"	48.87"	2.54"
New Bedford MA	EWB	1.35"	-3.30"	16.26"	3.88"	26.56"	2.84"	45.26"	-3.10"
Hyannis MA	HYA	2.01"	-2.47"	21.18"	8.72"	26.01"	3.13"	47.18"	-0.51"
Nantucket MA	ACK	1.34"	-3.09"	8.79"	-3.60"	10.81"	-12.07"	28.88"	-15.54"
Marthas Vineyard MA	MVY	1.85"	-2.69"	14.45"	1.64"	18.35"	-4.67"	39.02"	-6.14"
Taunton MA	TAN	2.02"	-2.48"	16.47"	3.36"	35.07"	10.50"	57.43"	7.69"
Plymouth MA	PYM	2.42"	-2.24"	21.60"	8.94"	30.64"	6.75"	57.37"	8.22"
Norwood MA	OWD	1.91"	-2.58"	14.75"	2.37"	31.62"	7.64"	54.42"	7.36"
Bedford MA	BED	2.38"	-1.91"	15.33"	3.26"	36.69"	13.33"	57.99"	12.28"
Lawrence MA	LWM	2.87"	-0.96"	15.78"	4.27"	33.43"	10.76"	48.79"	5.63"
Fitchburg MA	FIT	2.05"	-2.20"	11.26"	-1.12"	24.42"	-0.09"	44.43"	-2.71"
Orange MA	ORE	1.97"	-1.91"	15.84"	4.62"	31.68"	8.35"	48.82"	6.27"
Westfield MA	BAF	2.24"	-1.88"	13.62"	0.26"	36.30"	10.34"	56.30"	7.91"
North Adams MA	AQW	2.42"	-1.54"	17.10"	4.29"	37.92"	11.41"	54.17"	7.56"

Rulers of the Snow

We are the Rulers of the Snow.

A list of 87 stations in November, plus a little extra from our friends, who reported snow fall and snow depth for all days.

Using the mobile app? Look at the 2nd page of the mobile app, “More Details” on the Apple App, and fill in those snow values. Make a snow fall and snow depth measurement with every Daily Report, if you can safely do so, ***all year round.***

Station	Name	Nov 2021 Snowfall	Station	Name	Nov 2021 Snowfall
AK-AB-55	Anchorage 7.6 SSE	24.0"	CT-NL-6	New London 1.0 NNW	0.0"
MA-BE-21	Cheshire 0.5 NNW	3.9"	RI-PR-28	North Smithfield 0.7 SE	0.0"
MA-WR-75	Warren 2.4 WSW	3.4"	RI-PR-33	Greenville 0.7 NNW	0.0"
CT-TL-2	Staffordville 0.4 NNW	3.0"	RI-PR-45	Manville 0.4 WSW	0.0"
MA-WR-88	Leicester 2.5 WSW	2.3"	RI-PR-50	Harrisville 1.2 SSE	0.0"
MA-WR-54	Barre 1.4 NNE	2.0"	RI-PR-51	North Smithfield 0.6 S	0.0"
MA-WR-41	Auburn 2.6 SW	1.8"	RI-KN-14	Greene 1.4 E	0.0"
CT-TL-27	Willington 2.7 SE	1.6"	RI-KN-2	East Greenwich 2.3 ESE	0.0"
MA-WR-8	Fitchburg 1.6 SSW	1.0"	RI-KN-38	Warwick 3.9 NNE	0.0"
CO-LR-273	FCL 2.2 NW	0.6"	RI-WS-31	Kingston 7.5 NNE	0.0"
CT-LT-34	Woodbury Center 1.5 SSW	0.5"	RI-WS-37	Kingston 2.4 SW	0.0"
CT-LT-44	Winsted 1.0 WSW	0.4"	RI-WS-42	Richmond 4.6 NNE	0.0"
CT-LT-47	Kent 1.0 NE	0.4"	RI-WS-47	Westerly 0.8 WNW	0.0"
MA-MD-158	Sherborn 1.1 NW	0.3"	RI-WS-55	Wakefield 0.8 ENE	0.0"
CT-LT-22	New Milford 5.3 SSW	0.2"	RI-NW-18	Jamestown 0.3 SSE	0.0"
MA-HS-45	Westhampton 0.4 WNW	0.2"	RI-NW-7	Little Compton 0.6 E	0.0"
MA-MD-125	Tewksbury 3.6 SSE	0.2"	MA-BR-30	Taunton 3.9 N	0.0"
MA-MD-47	West Townsend 0.5 W	0.2"	MA-BR-55	NWS Boston/Norton 2.5 ESE	0.0"
MA-FR-17	Buckland 1.8 ESE	0.1"	MA-BR-61	Mansfield 2.4 ENE	0.0"
CT-TL-18	Hebron 5.3 NW	0.1"	MA-MD-104	Littleton 2.8 NNW	0.0"
MA-WR-28	Berlin 1.3 WSW	0.1"	MA-MD-115	Hudson 1.4 NW	0.0"
CT-FR-25	Norwalk 2.9 NNW	0.0"	MA-MD-119	Watertown 1.1 W	0.0"
CT-FR-3	New Canaan 1.9 ENE	0.0"	MA-MD-12	Acton 1.3 SW	0.0"

CT-FR-9	Brookfield 3.3 SSE	0.0"	MA-MD-126	Melrose 0.5 NE	0.0"
CT-NH-43	Wallingford Center 3.3 NNW	0.0"	MA-MD-44	Medford 1.2 W	0.0"
MA-FR-10	Conway 0.9 SW	0.0"	MA-MD-51	Maynard 0.7 ESE	0.0"
MA-FR-12	Sunderland 1.3 SE	0.0"	MA-ES-12	Boxford 2.4 S	0.0"
MA-HD-28	Westfield 2.8 SE	0.0"	MA-ES-4	Groveland 0.5 WSW	0.0"
MA-HD-30	Hampden 2.0 NW	0.0"	MA-ES-41	Danvers 0.8 ESE	0.0"
MA-HD-33	Agawam 1.1 SSW	0.0"	MA-ES-48	Andover 0.6 E	0.0"
CT-HR-57	Suffield Depot 3.3 NNE	0.0"	MA-ES-58	Middleton 1.4 SSW	0.0"
CT-HR-8	North Granby 1.3 ENE	0.0"	MA-ES-64	Newburyport 0.4 NNW	0.0"
CT-MD-21	Killingworth 2.6 ESE	0.0"	MA-ES-71	Danvers 2.5 NNE	0.0"
CT-MD-23	Higganum 0.7 N	0.0"	MA-NF-1	Norwood 1.3 NW	0.0"
CT-WN-26	Danielson 3.2 ESE	0.0"	MA-PL-15	Abington 1.2 NNE	0.0"
CT-WN-4	East Killingly 1.3 SW	0.0"	MA-PL-60	Abington 1.7 ESE	0.0"
CT-WN-8	Moosup 1.7 NE	0.0"	MA-BA-2	Falmouth 3.1 NNW	0.0"
CT-NL-10	Norwich 2.5 NNE	0.0"	MA-BA-3	Falmouth 3.0 E	0.0"
CT-NL-19	Mystic 0.9 W	0.0"	MA-BA-47	Mashpee 2.4 WSW	0.0"
CT-NL-21	Griswold 0.9 N	0.0"	MA-BA-50	Falmouth 5.4 NNE	0.0"
CT-NL-22	Central Waterford 2.7 SSW	0.0"	MA-BA-51	Orleans 3.0 S	0.0"
CT-NL-24	Stonington 1.4 NNW	0.0"	MA-BA-72	Yarmouth 2.0 S	0.0"
CT-NL-29	East Lyme 0.5 SW	0.0"	MA-BA-76	Barnstable 0.7 NE	0.0"
CT-NL-32	Niantic 1.1 SW	0.0"	MA-DK-2	Vineyard Haven 0.8 WSW	0.0"
CT-NL-56	Norwich 5.2 SE	0.0"	NY-SF-114	Fishers Island 0.5 NE	0.0"

November 2021 as a calendar. Bright magenta for the highest number of reports. Green for the lowest number of reports.

443 Reports per Day was our reporting average for October 2021.

November 2021

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 454	2 445	3 452	4 456	5 447	6 441
7 436	8 438	9 444	10 446	11 436	12 455	13 471
14 474	15 453	16 433	17 446	18 441	19 483	20 441
21 437	22 478	23 438	24 426	25 413	26 418	27 421
28 417	29 426	30 435				

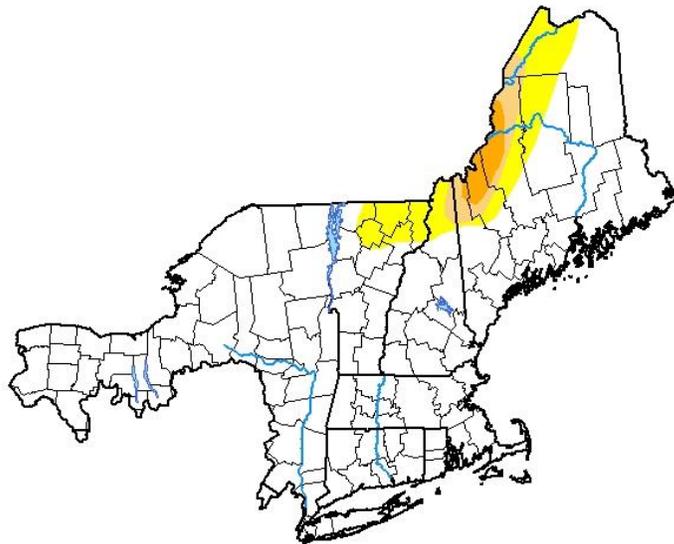
Please continue to report the conditions where you are.

There is always more room for more “Consistent Stations”. What do you have to do? Submit over 20 Condition Monitoring Reports in a 52-week period.

Every drop counts and zeros do too!

U.S. Drought Monitor Northeast RFC

December 14, 2021
(Released Thursday, Dec. 16, 2021)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	87.86	8.13	2.34	1.67	0.00	0.00
Last Week <small>12-07-2021</small>	87.86	8.13	2.34	1.67	0.00	0.00
3 Months Ago <small>09-14-2021</small>	72.91	15.12	10.40	1.57	0.00	0.00
Start of Calendar Year <small>12-29-2020</small>	67.52	25.33	7.15	0.00	0.00	0.00
Start of Water Year <small>09-28-2021</small>	81.64	12.18	4.62	1.57	0.00	0.00
One Year Ago <small>12-15-2020</small>	53.47	24.91	20.76	0.87	0.00	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

David Simeral
Western Regional Climate Center



droughtmonitor.unl.edu

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

Wrap up

We are at the point in the orbit around the Sun where you are reminded that the word **solstice** is derived from the Latin sol ("sun") and sistere ("to stand still"). Take in the stillness and the quiet that the early mornings and evenings have during this time of year. The Winter Solstice occurs on 10:59am on Tuesday December 21. Daylight will increase when we get into January.

Our next WxTalk Webinar is slated for Thursday, January 13th, at 1pm, on **A Review of Significant Weather Events Occurring in 2021** from Greg Carbin at the Weather Prediction Center (WPC) in College Park MD. Do you think that you remember them all? Or has recency bias affected your memory? Cold and Snow in February, and the impacts in Texas. Remember that? Refresh your memory about all of the noteworthy events that took place in Year 2021. All of our WxTalk Webinars are recorded and uploaded on YouTube for later viewing and listening.

Our best wishes to you all, however you spend your year-end holidays.

On we grow to Year 2022.

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