

October 2025 Rhode Island Precipitation

National Weather Service Offices
Boston/Norton MA, Albany NY, Upton NY

Preliminary Precipitation Data (inches) by Drought Region

Precipitation Data through October 2025

Includes CoCoRaHS data

Includes StageIV Data

RI 1-Month Oct 2025

Drought Region	Rainfall	Departure	Percent	Normal
Central East	5.74	0.99	121	4.75
Central West	6.88	2.08	143	4.80
Eastern	5.27	0.71	116	4.56
New Shoreham	4.20	-0.41	91	4.61
North East	6.07	1.06	121	5.01
North West	7.04	2.01	140	5.03
Southern	6.03	1.27	127	4.76

RI 2-Month Sep 25-Oct25

Drought Region	Rainfall	Departure	Percent	Normal
Central East	12.08	3.22	136	8.86
Central West	12.32	3.26	136	9.06
Eastern	8.57	0.24	103	8.33
New Shoreham	5.79	-2.22	72	8.01
North East	10.91	1.80	120	9.11
North West	11.55	2.35	126	9.20
Southern	10.28	1.54	118	8.74

RI 3-Month Aug 25-Oct25

Drought Region	Rainfall	Departure	Percent	Normal
Central East	15.37	2.68	121	12.69
Central West	15.34	2.23	117	13.11
Eastern	11.54	-0.43	96	11.97
New Shoreham	7.06	-4.28	62	11.34
North East	13.88	0.81	106	13.07
North West	14.58	1.18	109	13.40
Southern	12.86	0.21	102	12.65

RI 4-Month Jul 25-Oct25

Drought Region	Rainfall	Departure	Percent	Normal
Central East	18.94	2.95	118	15.99
Central West	18.28	1.65	110	16.63
Eastern	14.25	-0.86	94	15.11
New Shoreham	8.01	-6.14	57	14.15
North East	17.89	1.26	108	16.63
North West	18.80	1.71	110	17.09
Southern	15.24	-0.64	96	15.88

RI 5-Month Jun 25-Oct25

Drought Region	Rainfall	Departure	Percent	Normal
Central East	20.56	0.47	102	20.09
Central West	19.97	-0.80	96	20.77
Eastern	15.54	-3.32	82	18.86
New Shoreham	9.16	-8.42	52	17.58
North East	20.22	-0.68	97	20.90
North West	21.30	-0.15	99	21.45
Southern	16.38	-3.39	83	19.77

RI 6-Month May 25-Oct25

Drought Region	Rainfall	Departure	Percent	Normal
Central East	28.99	5.44	123	23.55
Central West	28.12	3.80	116	24.32
Eastern	23.76	1.52	107	22.24
New Shoreham	15.47	-5.37	74	20.84
North East	28.69	4.24	117	24.45
North West	29.64	4.59	118	25.05
Southern	24.47	1.18	105	23.29

RI 7-Month Apr 25-Oct25

Drought Region	Rainfall	Departure	Percent	Normal
Central East	32.59	4.36	115	28.23
Central West	31.67	2.79	110	28.88
Eastern	27.57	0.73	103	26.84
New Shoreham	18.26	-7.02	72	25.28
North East	32.56	3.47	112	29.09

North West	33.73	4.04	114	29.69
Southern	28.13	0.20	101	27.93

RI 12-Month Nov 24-Oct25

Drought Region	Rainfall	Departure	Percent	Normal
Central East	53.56	3.39	107	50.17
Central West	52.75	2.44	105	50.31
Eastern	46.04	-2.84	94	48.88
New Shoreham	31.10	-15.66	67	46.76
North East	53.85	3.05	106	50.80
North West	53.48	2.00	104	51.48
Southern	49.20	-0.71	99	49.91

RI 24-Month Nov 23-Oct25

Drought Region	Rainfall	Departure	Percent	Normal
Central East	117.91	17.45	117	100.46
Central West	120.20	19.46	119	100.74
Eastern	100.11	2.22	102	97.89
New Shoreham	78.27	-15.37	84	93.64
North East	114.95	13.23	113	101.72
North West	115.74	12.66	112	103.08
Southern	109.45	9.50	110	99.95

RI 36-Month Nov 22-Oct25

Drought Region	Rainfall	Departure	Percent	Normal
Central East	178.60	27.97	119	150.63
Central West	181.53	30.48	120	151.05
Eastern	153.66	6.89	105	146.77
New Shoreham	125.09	-15.31	89	140.40
North East	177.66	25.14	116	152.52
North West	179.63	25.07	116	154.56
Southern	165.28	15.42	110	149.86

How This Report Was Generated

Monthly precipitation totals by Drought Region are derived through a blend of observational data and gridded analysis techniques. Precipitation observations from multiple regional networks—including the Community Collaborative Rain, Hail, and Snow Network (CoCoRaHS), the National Weather Service Cooperative Observer Program (COOP), and

Automated Surface Observing Systems (ASOS)—are first quality-controlled and then interpolated to two separate grids using distinct methodologies:

- Barnes Interpolation, a smoothing technique that accounts for the spatial distribution of observations
- Inverse Distance Weighting (IDW), which estimates values based on proximity to known observations

These two interpolated grids are then combined with NOAA's Stage IV precipitation analysis, a radar- and gauge-based dataset produced operationally by the National Weather Service. The three grids are averaged to produce a final observed precipitation field.

Using this gridded product, spatial averaging is performed over each Drought Region polygon to compute region-specific monthly totals through geographic information system (GIS) techniques.

Monthly precipitation normals (long-term averages) for each Drought Region are sourced directly from the NOAA Stage IV climatology dataset.

Note: COOP and ASOS stations are official National Weather Service observation networks. CoCoRaHS is a volunteer-driven network that provides high-resolution, local-scale precipitation reports.