

October 2025 Massachusetts Precipitation

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

Preliminary Precipitation Data (inches) by County

Precipitation Data through October 2025
Includes CoCoRaHS data
Includes StageIV Data

MA 1-Month Oct 2025

County	Rainfall	Departure	Percent	Normal
Barnstable	7.67	3.07	167	4.60
Berkshire	4.92	-0.08	98	5.00
Bristol	5.75	0.86	118	4.89
Dukes	5.91	1.25	127	4.66
Essex	4.38	-0.46	90	4.84
Franklin	4.60	-0.47	91	5.07
Hampden	4.79	-0.18	96	4.97
Hampshire	4.75	-0.27	95	5.02
Middlesex	4.83	0.03	101	4.80
Nantucket	4.49	-0.11	98	4.60
Norfolk	6.00	1.06	121	4.94
Plymouth	7.87	2.90	158	4.97
Suffolk	6.04	1.20	125	4.84
Worcester	4.93	0.05	101	4.88

MA 2-Month Sep 25-Oct25

County	Rainfall	Departure	Percent	Normal
Barnstable	10.90	2.32	127	8.58
Berkshire	8.74	-1.08	89	9.82
Bristol	10.65	1.75	120	8.90
Dukes	7.65	-0.86	90	8.51
Essex	7.23	-1.36	84	8.59
Franklin	8.43	-1.24	87	9.67
Hampden	8.61	-0.94	90	9.55
Hampshire	8.64	-1.04	89	9.68
Middlesex	7.94	-0.69	92	8.63
Nantucket	5.49	-3.01	65	8.50
Norfolk	9.88	1.00	111	8.88
Plymouth	12.45	3.46	138	8.99

Suffolk	9.55	0.95	111	8.60
Worcester	8.27	-0.70	92	8.97

MA 3-Month Aug 25-Oct25

County	Rainfall	Departure	Percent	Normal
Barnstable	12.81	0.74	106	12.07
Berkshire	11.76	-2.70	81	14.46
Bristol	13.55	0.85	107	12.70
Dukes	10.72	-1.37	89	12.09
Essex	10.24	-1.77	85	12.01
Franklin	10.91	-3.20	77	14.11
Hampden	12.52	-1.42	90	13.94
Hampshire	11.77	-2.32	84	14.09
Middlesex	10.95	-1.47	88	12.42
Nantucket	6.58	-5.12	56	11.70
Norfolk	12.61	-0.08	99	12.69
Plymouth	14.85	2.09	116	12.76
Suffolk	12.18	-0.03	100	12.21
Worcester	11.61	-1.55	88	13.16

MA 4-Month Jul 25-Oct25

County	Rainfall	Departure	Percent	Normal
Barnstable	14.95	0.09	101	14.86
Berkshire	14.96	-4.13	78	19.09
Bristol	16.75	0.70	104	16.05
Dukes	13.22	-1.62	89	14.84
Essex	12.10	-3.49	78	15.59
Franklin	12.85	-5.59	70	18.44
Hampden	16.28	-1.90	90	18.18
Hampshire	15.49	-2.91	84	18.40
Middlesex	13.33	-2.81	83	16.14
Nantucket	7.42	-6.81	52	14.23
Norfolk	17.49	1.26	108	16.23
Plymouth	18.41	2.32	114	16.09
Suffolk	15.73	-0.03	100	15.76
Worcester	14.55	-2.56	85	17.11

MA 5-Month Jun 25-Oct25

County	Rainfall	Departure	Percent	Normal
Barnstable	16.53	-1.80	90	18.33
Berkshire	18.33	-5.63	77	23.96
Bristol	18.06	-2.01	90	20.07
Dukes	15.06	-3.14	83	18.20

Essex	13.88	-5.91	70	19.79
Franklin	17.01	-6.19	73	23.20
Hampden	19.45	-3.34	85	22.79
Hampshire	19.16	-3.90	83	23.06
Middlesex	15.42	-4.89	76	20.31
Nantucket	7.81	-9.38	45	17.19
Norfolk	19.45	-0.96	95	20.41
Plymouth	19.90	-0.06	100	19.96
Suffolk	17.49	-2.33	88	19.82
Worcester	17.04	-4.37	80	21.41

MA 6-Month May 25-Oct25

County	Rainfall	Departure	Percent	Normal
Barnstable	21.49	-0.27	99	21.76
Berkshire	25.46	-2.60	91	28.06
Bristol	25.38	1.77	107	23.61
Dukes	21.37	-0.31	99	21.68
Essex	20.43	-3.05	87	23.48
Franklin	26.25	-0.93	97	27.18
Hampden	27.88	1.22	105	26.66
Hampshire	28.39	1.38	105	27.01
Middlesex	22.94	-0.98	96	23.92
Nantucket	10.80	-9.65	53	20.45
Norfolk	27.38	3.37	114	24.01
Plymouth	27.84	4.28	118	23.56
Suffolk	24.89	1.50	106	23.39
Worcester	25.70	0.67	103	25.03

MA 7-Month Apr 25-Oct25

County	Rainfall	Departure	Percent	Normal
Barnstable	26.15	0.15	101	26.00
Berkshire	29.77	-2.20	93	31.97
Bristol	28.96	0.72	103	28.24
Dukes	25.60	-0.38	99	25.98
Essex	24.45	-3.22	88	27.67
Franklin	30.51	-0.69	98	31.20
Hampden	31.89	1.10	104	30.79
Hampshire	32.54	1.51	105	31.03
Middlesex	26.89	-1.20	96	28.09
Nantucket	14.27	-10.44	58	24.71
Norfolk	31.16	2.67	109	28.49
Plymouth	31.71	3.55	113	28.16
Suffolk	28.57	0.84	103	27.73
Worcester	30.19	1.06	104	29.13

MA 12-Month Nov 24-Oct25

County	Rainfall	Departure	Percent	Normal
Barnstable	42.85	-4.89	90	47.74
Berkshire	45.27	-5.53	89	50.80
Bristol	48.09	-2.65	95	50.74
Dukes	42.52	-5.31	89	47.83
Essex	42.19	-5.81	88	48.00
Franklin	46.17	-4.06	92	50.23
Hampden	47.06	-2.73	95	49.79
Hampshire	47.94	-1.82	96	49.76
Middlesex	44.50	-3.33	93	47.83
Nantucket	25.30	-21.07	55	46.37
Norfolk	51.42	1.82	104	49.60
Plymouth	50.86	-0.14	100	51.00
Suffolk	48.36	-0.21	100	48.57
Worcester	47.29	-1.11	98	48.40

MA 24-Month Nov 23-Oct25

County	Rainfall	Departure	Percent	Normal
Barnstable	89.77	-5.83	94	95.60
Berkshire	92.26	-9.45	91	101.71
Bristol	102.33	0.72	101	101.61
Dukes	91.21	-4.57	95	95.78
Essex	87.85	-8.27	91	96.12
Franklin	96.69	-3.88	96	100.57
Hampden	96.90	-2.79	97	99.69
Hampshire	98.27	-1.36	99	99.63
Middlesex	92.53	-3.25	97	95.78
Nantucket	59.42	-33.44	64	92.86
Norfolk	105.28	5.96	106	99.32
Plymouth	104.52	2.39	102	102.13
Suffolk	96.82	-0.44	100	97.26
Worcester	97.95	1.04	101	96.91

MA 36-Month Nov 22-Oct25

County	Rainfall	Departure	Percent	Normal
Barnstable	140.88	-2.46	98	143.34
Berkshire	151.38	-1.13	99	152.51
Bristol	158.81	6.46	104	152.35
Dukes	137.86	-5.75	96	143.61
Essex	146.82	2.70	102	144.12
Franklin	158.78	7.98	105	150.80
Hampden	157.53	8.05	105	149.48
Hampshire	160.08	10.69	107	149.39

Middlesex	155.55	11.94	108	143.61
Nantucket	93.60	-45.63	67	139.23
Norfolk	164.00	15.08	110	148.92
Plymouth	160.14	7.01	105	153.13
Suffolk	153.67	7.84	105	145.83
Worcester	161.08	15.77	111	145.31

How This Report Was Generated

Monthly precipitation totals by County 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 County polygon to compute region-specific monthly totals through geographic information system (GIS) techniques.

Monthly precipitation normals (long-term averages) for each County 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.