

July 2025 Connecticut Precipitation

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

Preliminary Precipitation Data (inches) by County

Precipitation Data through July 2025
Includes CoCoRaHS data
Includes StageIV Data

CT 1-Month Jul 2025

County	Rainfall	Departure	Percent	Normal
Fairfield	3.64	-0.64	85	4.28
Hartford	4.19	-0.03	99	4.22
Litchfield	4.13	-0.51	89	4.64
Middlesex	2.63	-1.22	68	3.85
New Haven	3.16	-0.83	79	3.99
New London	2.82	-0.75	79	3.57
Tolland	4.74	0.70	117	4.04
Windham	4.71	0.79	120	3.92

CT 2-Month Jun 25-Jul25

County	Rainfall	Departure	Percent	Normal
Fairfield	6.41	-2.38	73	8.79
Hartford	6.50	-2.17	75	8.67
Litchfield	7.27	-2.05	78	9.32
Middlesex	4.37	-3.85	53	8.22
New Haven	5.11	-3.25	61	8.36
New London	4.65	-3.01	61	7.66
Tolland	7.16	-1.47	83	8.63
Windham	6.93	-1.33	84	8.26

CT 3-Month May 25-Jul25

County	Rainfall	Departure	Percent	Normal
Fairfield	13.00	0.22	102	12.78
Hartford	14.54	2.06	117	12.48
Litchfield	14.79	1.44	111	13.35
Middlesex	12.56	0.52	104	12.04
New Haven	13.04	0.70	106	12.34
New London	12.87	1.54	114	11.33
Tolland	14.71	2.42	120	12.29
Windham	15.66	3.85	133	11.81

CT 4-Month Apr 25-Jul25

County	Rainfall	Departure	Percent	Normal
Fairfield	16.19	-0.89	95	17.08
Hartford	18.13	1.36	108	16.77
Litchfield	18.56	1.25	107	17.31
Middlesex	15.82	-0.90	95	16.72
New Haven	16.14	-0.87	95	17.01
New London	16.48	0.62	104	15.86
Tolland	18.60	2.07	113	16.53
Windham	19.68	3.41	121	16.27

CT 5-Month Mar 25-Jul25

County	Rainfall	Departure	Percent	Normal
Fairfield	20.32	-1.05	95	21.37
Hartford	22.08	1.11	105	20.97
Litchfield	22.09	0.73	103	21.36
Middlesex	19.99	-1.36	94	21.35
New Haven	20.44	-1.11	95	21.55
New London	20.95	0.31	102	20.64
Tolland	22.52	1.76	108	20.76
Windham	23.64	2.84	114	20.80

CT 6-Month Feb 25-Jul25

County	Rainfall	Departure	Percent	Normal
Fairfield	23.52	-0.98	96	24.50
Hartford	25.33	1.23	105	24.10
Litchfield	25.14	0.80	103	24.34
Middlesex	23.12	-1.63	93	24.75
New Haven	23.58	-1.34	95	24.92
New London	24.24	0.29	101	23.95
Tolland	25.69	1.90	108	23.79
Windham	26.93	2.90	112	24.03

CT 7-Month Jan 25-Jul25

County	Rainfall	Departure	Percent	Normal
Fairfield	24.82	-3.44	88	28.26
Hartford	26.44	-1.35	95	27.79
Litchfield	26.36	-1.59	94	27.95
Middlesex	24.45	-4.30	85	28.75
New Haven	24.89	-3.91	86	28.80
New London	25.80	-2.07	93	27.87
Tolland	27.08	-0.28	99	27.36

Windham	28.47	0.58	102	27.89
---------	-------	------	-----	-------

CT 12-Month Aug 24-Jul25

County	Rainfall	Departure	Percent	Normal
Fairfield	44.74	-5.79	89	50.53
Hartford	41.80	-8.44	83	50.24
Litchfield	42.85	-7.99	84	50.84
Middlesex	41.10	-10.39	80	51.49
New Haven	43.13	-8.16	84	51.29
New London	42.21	-7.88	84	50.09
Tolland	42.03	-7.18	85	49.21
Windham	43.76	-6.05	88	49.81

CT 24-Month Aug 23-Jul25

County	Rainfall	Departure	Percent	Normal
Fairfield	115.05	13.88	114	101.17
Hartford	109.64	9.04	109	100.60
Litchfield	109.19	7.41	107	101.78
Middlesex	112.54	9.44	109	103.10
New Haven	114.36	11.66	111	102.70
New London	111.68	11.38	111	100.30
Tolland	108.96	10.43	111	98.53
Windham	115.29	15.55	116	99.74

CT 36-Month Aug 22-Jul25

County	Rainfall	Departure	Percent	Normal
Fairfield	165.48	13.78	109	151.70
Hartford	165.88	15.04	110	150.84
Litchfield	164.26	11.64	108	152.62
Middlesex	168.45	13.86	109	154.59
New Haven	168.72	14.73	110	153.99
New London	167.61	17.22	111	150.39
Tolland	168.16	20.42	114	147.74
Windham	177.17	27.62	118	149.55

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.