

Summary of Monthly Normals
1991-2020

Generated on 06/04/2024

Current Location: Elev: 84 ft. Lat: 42.5008° N Lon: 70.8644° W
Station: MARBLEHEAD, MA US USC00194502

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (above)									
Month	Daily Max	Daily Min	Mean	Long Term Max Std Dev	Long Term Min Std Dev	Long Term Avg Std Dev	55	57	60	65	70	72	55	57	60	65	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
01	36.1	17.9	27.0	4.1	4.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	867.9	929.8	1022.8	1177.9	0.0	0.0	3.8	9.8	26.1	1.2
02	37.9	19.6	28.7	4.4	4.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	735.0	791.0	875.0	1015.0	0.0	0.0	3.7	6.5	23.0	0.3
03	44.3	26.3	35.3	3.6	3.3	3.4	1.8	1.2	0.7	0.2	0.0	0.0	612.5	673.8	766.3	920.9	0.0	0.0	9.0	2.5	19.4	0.0
04	55.1	35.6	45.4	3.0	2.0	2.4	16.6	11.4	6.3	2.1	0.4	0.2	306.1	360.9	445.8	591.6	0.0	0.1	22.5	0.0	5.0	0.0
05	65.2	45.0	55.1	3.1	2.1	2.4	91.0	65.2	37.9	12.8	3.2	1.9	87.9	124.1	189.8	319.7	0.0	0.5	30.2	0.0	0.2	0.0
06	74.2	54.4	64.3	2.5	1.5	1.8	288.1	236.2	165.9	77.2	25.4	14.2	9.1	17.3	36.9	98.3	0.0	1.7	30.0	0.0	0.0	0.0
07	80.3	60.7	70.5	2.3	2.2	2.1	480.4	418.6	326.6	183.8	75.4	46.9	0.0	0.2	1.2	13.4	0.1	3.6	31.0	0.0	0.0	0.0
08	79.0	59.6	69.3	1.9	2.0	1.8	443.3	381.5	289.8	149.8	54.1	31.4	0.1	0.2	1.5	16.5	0.0	2.2	31.0	0.0	0.0	0.0
09	72.3	53.0	62.6	2.1	1.9	1.8	241.7	191.3	126.0	50.3	14.5	7.6	12.3	21.9	46.6	120.8	0.0	0.7	30.0	0.0	0.0	0.0
10	61.2	42.3	51.8	2.2	2.6	2.2	47.1	30.0	14.2	3.1	0.3	0.1	147.8	192.7	269.9	413.8	0.0	0.0	29.3	0.0	1.3	0.0
11	50.7	32.9	41.8	3.4	2.7	2.9	4.6	2.0	0.5	0.0	0.0	0.0	400.6	458.0	546.5	696.0	0.0	0.0	17.4	0.3	10.8	0.0
12	41.6	24.3	33.0	3.6	3.7	3.6	0.4	0.2	0.0	0.0	0.0	0.0	683.9	745.7	838.5	993.5	0.0	0.0	6.8	4.1	21.8	0.1
Summary	58.2	39.3	48.7	3.0	2.7	2.7	1615	1338	968	479	173	102	3863	4316	5041	6377	0.1	8.8	244.7	23.2	107.6	1.6

Empty or blank cells indicate data is missing or insufficient occurrences to compute value

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Precipitation (in.)								
	Totals	Mean Number of Days				Precipitation Probabilities Probability that precipitation will be equal to or less than the indicated amount		
	Means	Daily Precipitation				Monthly Precipitation vs. Probability Levels		
Month	Mean	>= 0.01	>= 0.10	>= 0.50	>= 1.00	0.25	0.50	0.75
01	3.75	9.7	7.4	2.5	1.0	2.90	3.56	4.64
02	3.50	8.5	6.5	2.6	0.7	2.51	3.18	4.09
03	4.71	9.5	7.3	3.1	1.4	3.06	4.13	5.08
04	4.30	10.8	7.7	2.6	1.0	2.41	4.11	5.28
05	3.48	11.2	7.6	2.1	0.7	2.19	2.99	4.05
06	4.14	9.9	7.3	2.7	1.2	1.99	3.56	5.53
07	3.48	9.0	6.4	2.4	0.8	2.26	3.20	4.24
08	3.25	8.0	5.7	2.2	0.9	1.52	2.89	4.53
09	3.56	8.3	6.1	2.2	0.9	1.94	2.67	4.74
10	5.00	10.3	7.1	3.1	1.6	3.49	4.65	6.41
11	4.15	10.0	7.3	2.7	1.2	2.69	4.06	4.87
12	4.70	10.2	7.8	3.3	1.2	3.64	4.41	6.22
Summary	48.02	115.4	84.2	31.5	12.6	30.60	43.41	59.68

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Snow (in.)													
	Totals	Mean Number of Days									Snow Probabilities Probability that snow will be equal to or less than the indicated amount		
	Means	Snowfall >= Thresholds					Snow Depth >= Thresholds				Monthly Snow vs. Probability Levels Values derived from the incomplete gamma distribution.		
Month	Snowfall Mean	0.01	1.0	3.0	5.00	10.00	1	3	5	10	.25	.50	.75
01	13.30	4.0	3.6	1.7	0.8	0.3	13.3	9.3	5.6	2.7	5.20	8.00	14.00
02	8.50	3.6	3.1	1.7	1.0	0.3	11.3	8.6	6.1	3.4	2.30	6.80	12.00
03	7.50	2.4	2.0	1.2	0.7	0.2	7.8	6.0	4.2	1.7	1.00	4.00	12.50
04	1.50	0.4	0.3	0.1	0.1	0.0	0.5	0.2	0.1	0.1	0.00	0.00	0.20
05	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
06	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
07	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
08	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
09	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
10	0.10	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.00	0.00	0.00
11	0.80	0.4	0.3	0.1	0.0	0.0	0.3	0.2	0.1	0.0	0.00	0.00	0.00
12	7.40	2.1	1.8	0.8	0.6	0.2	5.9	3.7	2.6	1.0	0.50	7.10	11.50
Summary	39.1	13.0	11.2	5.6	3.2	1.0	39.2	28.0	18.7	8.9	9.0	25.9	50.2

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Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12.1	10.6	43.6	189.4	468.3	728.9	945.4	908.2	679.4	369.3	125.0	30.7
45	3.4	2.3	16.0	97.3	317.1	579.0	790.4	753.2	529.6	230.9	56.9	9.3
50	0.8	0.3	5.4	42.6	184.7	430.4	635.5	598.3	381.4	119.1	20.0	2.4
55	0.0	0.0	1.8	16.6	91.0	288.1	480.4	443.3	241.7	47.1	4.6	0.4
60	0.0	0.0	0.7	6.3	37.9	165.9	326.6	289.8	126.0	14.2	0.5	0.0
Growing Degree Units for Corn (Monthly)												
50/86	7.1	7.5	28.0	103.6	250.0	439.4	623.0	592.5	402.3	187.2	58.0	14.4

Growing Degree Units (Accumulated Monthly)												
40	12	23	66	256	724	1453	2398	3306	3986	4355	4480	4511
45	3	6	22	119	436	1015	1806	2559	3088	3319	3376	3385
50	1	1	6	49	234	664	1300	1898	2279	2398	2418	2421
55	0	0	2	18	109	398	878	1321	1563	1610	1615	1615
60	0	0	1	7	45	211	537	827	953	967	968	968
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	7	15	43	146	396	836	1459	2051	2453	2641	2699	2713

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86.

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