

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

**1981-2010 Station Normals of Temperature,
 Precipitation, and Heating and Cooling Degree Days**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **LOWELL, MA US**

GHCND:USC00194313
 Elev: 110 ft. Lat: 42.641° N Lon: 71.364° W

December							January							February						
DATE	MAX	MIN	AVG	HDD	CDD	PRCP	DATE	MAX	MIN	AVG	HDD	CDD	PRCP	DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	45	26	35	30	0	35.1% a	1	34	16	25	40	0	33.5% a	1	35	14	25	41	0	29.9% a
2	44	26	35	30	0	35.0% a	2	34	16	25	40	0	33.5% a	2	35	15	25	40	0	29.7% a
3	44	26	35	30	0	34.9% a	3	34	15	24	41	0	33.5% a	3	35	15	25	40	0	29.6% a
4	43	25	34	31	0	34.8% a	4	33	15	24	41	0	33.6% a	4	35	15	25	40	0	29.5% a
5	43	25	34	31	0	34.6% a	5	33	15	24	41	0	33.6% a	5	35	15	25	40	0	29.3% a
6	43	25	34	31	0	34.5% a	6	33	15	24	41	0	33.6% a	6	36	15	25	40	0	29.2% a
7	42	24	33	32	0	34.5% a	7	33	15	24	41	0	33.5% a	7	36	15	26	40	0	29.1% a
8	42	24	33	32	0	34.4% a	8	33	14	24	41	0	33.5% a	8	36	16	26	39	0	29.0% a
9	41	24	32	33	0	34.3% a	9	33	14	24	41	0	33.4% a	9	36	16	26	39	0	29.0% a
10	41	23	32	33	0	34.3% a	10	33	14	23	42	0	33.3% a	10	36	16	26	39	0	29.0% a
11	41	23	32	33	0	34.2% a	11	33	14	23	42	0	33.2% a	11	37	16	26	39	0	29.1% a
12	40	22	31	34	0	34.2% a	12	33	14	23	42	0	33.1% a	12	37	16	27	39	0	29.3% a
13	40	22	31	34	0	34.1% a	13	33	14	23	42	0	33.0% a	13	37	16	27	38	0	29.4% a
14	39	22	31	34	0	34.0% a	14	33	14	23	42	0	32.8% a	14	37	17	27	38	0	29.5% a
15	39	21	30	35	0	33.9% a	15	33	14	23	42	0	32.7% a	15	38	17	27	38	0	29.6% a
16	39	21	30	35	0	33.8% a	16	33	14	23	42	0	32.6% a	16	38	17	27	38	0	29.7% a
17	38	21	29	36	0	33.8% a	17	33	14	23	42	0	32.5% a	17	38	17	28	38	0	29.9% a
18	38	20	29	36	0	33.7% a	18	33	14	23	42	0	32.3% a	18	38	17	28	37	0	30.1% a
19	38	20	29	36	0	33.6% a	19	33	14	23	42	0	32.1% a	19	38	18	28	37	0	30.3% a
20	37	20	28	37	0	33.5% a	20	33	14	23	42	0	31.9% a	20	39	18	28	37	0	30.4% a
21	37	19	28	37	0	33.5% a	21	33	14	23	42	0	31.6% a	21	39	18	28	37	0	30.6% a
22	37	19	28	37	0	33.4% a	22	33	14	23	42	0	31.4% a	22	39	18	29	36	0	30.8% a
23	36	18	27	38	0	33.3% a	23	33	14	23	42	0	31.3% a	23	39	18	29	36	0	31.0% a
24	36	18	27	38	0	33.3% a	24	33	14	24	42	0	31.1% a	24	40	19	29	36	0	31.2% a
25	36	18	27	38	0	33.2% a	25	33	14	24	41	0	30.9% a	25	40	19	29	36	0	31.3% a
26	35	18	26	39	0	33.2% a	26	34	14	24	41	0	30.7% a	26	40	19	30	36	0	31.5% a
27	35	17	26	39	0	33.2% a	27	34	14	24	41	0	30.6% a	27	40	19	30	35	0	31.6% a
28	35	17	26	39	0	33.2% a	28	34	14	24	41	0	30.4% a	28	41	19	30	35	0	31.7% a
29	35	17	26	39	0	33.3% a	29	34	14	24	41	0	30.3% a							
30	34	16	25	40	0	33.3% a	30	34	14	24	41	0	30.1% a							
31	34	16	25	40	0	33.4% a	31	34	14	24	41	0	30.0% a							
MNTH:	38.9	21.0	30.0	1086	0	3.96 b	MNTH:	33.2	14.1	23.6	1282	0	3.43 b	MNTH:	37.4	16.7	27.1	1063	0	2.98 b
							Winter	36.5	17.3	26.9	3431	0	10.37 b							
							Annual	59.8	37.2	48.5	6632	607	47.00 b							

a: Probability of precipitation >= 0.01 inches for 29-day windows centered on each day of the year.
 b: Long-term averages of seasonal or annual precipitation totals in Inches.

-4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
 -7777: a non-zero value that would round to zero
 blank: missing or insufficient data

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GHCND:USC00194313
 Elev: 110 ft. Lat: 42.641° N Lon: 71.364° W

March							April							May						
DATE	MAX	MIN	AVG	HDD	CDD	PRCP	DATE	MAX	MIN	AVG	HDD	CDD	PRCP	DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	41	20	30	35	0	31.9% a	1	52	29	40	25	-7777	34.7% a	1	65	39	52	13	-7777	36.3% a
2	41	20	30	35	0	32.1% a	2	52	29	41	24	-7777	34.8% a	2	66	40	53	13	-7777	36.5% a
3	41	20	31	34	0	32.3% a	3	53	30	41	24	-7777	34.7% a	3	66	40	53	12	-7777	36.6% a
4	42	20	31	34	0	32.5% a	4	53	30	42	23	-7777	34.7% a	4	66	40	53	12	-7777	36.7% a
5	42	21	31	34	0	32.8% a	5	54	30	42	23	-7777	34.7% a	5	67	41	54	12	-7777	36.8% a
6	42	21	31	34	0	33.0% a	6	54	31	43	23	-7777	34.7% a	6	67	41	54	11	-7777	36.9% a
7	42	21	32	33	0	33.2% a	7	55	31	43	22	-7777	34.7% a	7	67	41	54	11	-7777	37.0% a
8	43	21	32	33	0	33.4% a	8	55	31	43	22	-7777	34.7% a	8	68	42	55	11	-7777	37.1% a
9	43	22	32	33	0	33.6% a	9	56	32	44	21	-7777	34.7% a	9	68	42	55	10	-7777	37.2% a
10	43	22	33	32	0	33.7% a	10	56	32	44	21	-7777	34.7% a	10	68	42	55	10	-7777	37.3% a
11	44	22	33	32	0	33.8% a	11	57	33	45	20	-7777	34.7% a	11	69	43	56	10	-7777	37.4% a
12	44	22	33	32	0	33.8% a	12	57	33	45	20	-7777	34.7% a	12	69	43	56	9	-7777	37.5% a
13	44	23	33	32	0	33.9% a	13	58	33	46	20	-7777	34.8% a	13	69	43	56	9	-7777	37.6% a
14	45	23	34	31	0	33.9% a	14	58	34	46	19	-7777	34.8% a	14	69	44	57	9	-7777	37.7% a
15	45	23	34	31	0	34.0% a	15	59	34	46	19	-7777	34.9% a	15	70	44	57	9	-7777	37.7% a
16	45	24	34	31	0	34.0% a	16	59	34	47	18	-7777	34.9% a	16	70	44	57	8	-7777	37.8% a
17	46	24	35	30	0	34.1% a	17	60	35	47	18	-7777	35.0% a	17	70	45	57	8	1	37.9% a
18	46	24	35	30	0	34.1% a	18	60	35	48	18	-7777	35.0% a	18	71	45	58	8	1	38.0% a
19	46	24	35	30	0	34.1% a	19	61	35	48	17	-7777	35.1% a	19	71	45	58	8	1	38.0% a
20	47	25	36	29	-7777	34.2% a	20	61	36	48	17	-7777	35.2% a	20	71	46	58	7	1	37.9% a
21	47	25	36	29	-7777	34.2% a	21	61	36	49	16	-7777	35.4% a	21	71	46	59	7	1	37.9% a
22	47	25	36	29	-7777	34.2% a	22	62	36	49	16	-7777	35.5% a	22	72	46	59	7	1	37.9% a
23	48	26	37	28	-7777	34.2% a	23	62	37	50	16	-7777	35.6% a	23	72	47	59	7	1	37.8% a
24	48	26	37	28	-7777	34.2% a	24	63	37	50	15	-7777	35.8% a	24	72	47	60	6	1	37.8% a
25	49	26	38	27	-7777	34.2% a	25	63	38	50	15	-7777	35.8% a	25	72	47	60	6	1	37.8% a
26	49	27	38	27	-7777	34.2% a	26	64	38	51	15	-7777	35.9% a	26	73	48	60	6	1	37.7% a
27	50	27	38	27	-7777	34.3% a	27	64	38	51	14	-7777	36.0% a	27	73	48	61	6	1	37.7% a
28	50	27	39	26	-7777	34.4% a	28	64	39	51	14	-7777	36.1% a	28	73	48	61	6	1	37.7% a
29	50	28	39	26	-7777	34.6% a	29	65	39	52	14	-7777	36.2% a	29	74	49	61	5	1	37.6% a
30	51	28	40	25	-7777	34.6% a	30	65	39	52	13	-7777	36.3% a	30	74	49	61	5	2	37.6% a
31	51	29	40	25	-7777	34.7% a								31	74	49	62	5	2	37.5% a
MNTH:	45.5	23.7	34.6	942	-7777	4.23 b	MNTH:	58.7	34.1	46.4	561	3	4.14 b	MNTH:	69.9	44.3	57.1	266	21	3.84 b
							Spring	58.0	34.0	46.0	1769	24	12.21 b							
							Annual	59.8	37.2	48.5	6632	607	47.00 b							

a: Probability of precipitation >= 0.01 inches for 29-day windows centered on each day of the year.
 b: Long-term averages of seasonal or annual precipitation totals in Inches.

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June							July							August							
DATE	MAX	MIN	AVG	HDD	CDD	PRCP	DATE	MAX	MIN	AVG	HDD	CDD	PRCP	DATE	MAX	MIN	AVG	HDD	CDD	PRCP	
1	74	50	62	5	2	37.5% a	1	83	58	71	1	6	32.3% a	1	85	60	72	-7777	7	30.4% a	
2	75	50	62	4	2	37.4% a	2	83	59	71	1	6	32.1% a	2	84	60	72	-7777	7	30.4% a	
3	75	50	63	4	2	37.3% a	3	83	59	71	1	6	32.0% a	3	84	60	72	-7777	7	30.4% a	
4	75	51	63	4	2	37.2% a	4	83	59	71	-7777	7	31.8% a	4	84	60	72	-7777	7	30.3% a	
5	76	51	63	4	2	37.1% a	5	83	59	71	-7777	7	31.7% a	5	84	60	72	-7777	7	30.3% a	
6	76	52	64	4	2	37.0% a	6	84	59	71	-7777	7	31.6% a	6	84	60	72	-7777	7	30.2% a	
7	76	52	64	3	2	36.8% a	7	84	59	72	-7777	7	31.5% a	7	84	60	72	-7777	7	30.1% a	
8	76	52	64	3	3	36.6% a	8	84	59	72	-7777	7	31.4% a	8	84	60	72	-7777	7	30.0% a	
9	77	53	65	3	3	36.4% a	9	84	60	72	-7777	7	31.3% a	9	84	60	72	-7777	7	29.9% a	
10	77	53	65	3	3	36.3% a	10	84	60	72	-7777	7	31.2% a	10	84	60	72	-7777	7	29.8% a	
11	77	53	65	3	3	36.1% a	11	84	60	72	-7777	7	31.0% a	11	84	59	72	-7777	7	29.6% a	
12	78	54	66	3	3	36.1% a	12	84	60	72	-7777	7	30.8% a	12	83	59	71	-7777	7	29.5% a	
13	78	54	66	2	3	35.9% a	13	85	60	72	-7777	7	30.7% a	13	83	59	71	-7777	7	29.3% a	
14	78	54	66	2	3	35.8% a	14	85	60	72	-7777	7	30.6% a	14	83	59	71	-7777	6	29.2% a	
15	79	55	67	2	3	35.6% a	15	85	60	72	-7777	8	30.6% a	15	83	59	71	-7777	6	28.9% a	
16	79	55	67	2	4	35.4% a	16	85	60	72	-7777	8	30.5% a	16	83	59	71	-7777	6	28.7% a	
17	79	55	67	2	4	35.2% a	17	85	60	72	-7777	8	30.5% a	17	83	59	71	-7777	6	28.4% a	
18	79	55	67	2	4	35.0% a	18	85	60	73	-7777	8	30.5% a	18	83	59	71	-7777	6	28.2% a	
19	80	56	68	1	4	34.8% a	19	85	60	73	-7777	8	30.5% a	19	82	58	70	-7777	6	28.0% a	
20	80	56	68	1	4	34.6% a	20	85	60	73	-7777	8	30.6% a	20	82	58	70	1	6	27.8% a	
21	80	56	68	1	4	34.4% a	21	85	60	73	-7777	8	30.5% a	21	82	58	70	1	6	27.6% a	
22	81	57	69	1	5	34.2% a	22	85	60	73	-7777	8	30.5% a	22	82	58	70	1	6	27.4% a	
23	81	57	69	1	5	34.1% a	23	85	60	73	-7777	8	30.5% a	23	82	58	70	1	5	27.2% a	
24	81	57	69	1	5	33.9% a	24	85	60	73	-7777	8	30.5% a	24	81	57	69	1	5	27.0% a	
25	81	57	69	1	5	33.6% a	25	85	60	73	-7777	8	30.5% a	25	81	57	69	1	5	26.8% a	
26	82	57	70	1	5	33.4% a	26	85	60	73	-7777	8	30.5% a	26	81	57	69	1	5	26.7% a	
27	82	58	70	1	5	33.2% a	27	85	60	73	-7777	8	30.6% a	27	81	57	69	1	5	26.5% a	
28	82	58	70	1	6	33.0% a	28	85	60	73	-7777	8	30.6% a	28	81	57	69	1	5	26.5% a	
29	82	58	70	1	6	32.8% a	29	85	60	72	-7777	8	30.6% a	29	80	56	68	1	4	26.4% a	
30	83	58	70	1	6	32.5% a	30	85	60	72	-7777	8	30.5% a	30	80	56	68	1	4	26.3% a	
							31	85	60	72	-7777	8	30.5% a	31	80	56	68	1	4	26.2% a	
MNTH:	78.6	54.4	66.5	65	110	4.17 b	MNTH:	84.3	59.8	72.1	8	226	3.81 b	MNTH:	82.6	58.5	70.5	17	189	3.83 b	
Summer							Summer	81.9	57.6	69.7	90	525	11.81 b								
Annual							Annual	59.8	37.2	48.5	6632	607	47.00 b								

a: Probability of precipitation >= 0.01 inches for 29-day windows centered on each day of the year.
 b: Long-term averages of seasonal or annual precipitation totals in Inches.

-4444: year-round risk of frost-freeze
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GHCND:USC00194313
 Elev: 110 ft. Lat: 42.641° N Lon: 71.364° W

September							October							November									
DATE	MAX	MIN	AVG	HDD	CDD	PRCP	DATE	MAX	MIN	AVG	HDD	CDD	PRCP	DATE	MAX	MIN	AVG	HDD	CDD	PRCP			
1	80	55	67	1	4	26.2% a	1	68	43	56	10	-7777	30.2% a	1	56	34	45	20	-7777	32.2% a			
2	79	55	67	2	4	26.1% a	2	68	43	55	10	-7777	30.3% a	2	56	33	44	21	-7777	32.4% a			
3	79	55	67	2	4	26.1% a	3	68	43	55	10	-7777	30.4% a	3	55	33	44	21	-7777	32.5% a			
4	79	55	67	2	3	26.1% a	4	67	42	55	11	-7777	30.5% a	4	55	33	44	21	-7777	32.7% a			
5	78	54	66	2	3	26.1% a	5	67	42	54	11	-7777	30.6% a	5	54	33	44	21	-7777	32.8% a			
6	78	54	66	2	3	26.1% a	6	66	41	54	12	-7777	30.6% a	6	54	33	43	22	-7777	33.0% a			
7	78	53	66	2	3	26.2% a	7	66	41	53	12	-7777	30.7% a	7	54	32	43	22	-7777	33.1% a			
8	77	53	65	2	3	26.3% a	8	65	41	53	12	-7777	30.7% a	8	53	32	43	22	-7777	33.1% a			
9	77	53	65	3	3	26.4% a	9	65	40	53	13	-7777	30.8% a	9	53	32	43	23	-7777	33.2% a			
10	77	52	65	3	2	26.5% a	10	65	40	52	13	-7777	30.9% a	10	53	32	42	23	-7777	33.4% a			
11	76	52	64	3	2	26.7% a	11	64	39	52	13	-7777	31.0% a	11	52	32	42	23	-7777	33.5% a			
12	76	52	64	3	2	26.8% a	12	64	39	51	14	-7777	31.0% a	12	52	31	42	23	-7777	33.6% a			
13	76	51	63	4	2	27.0% a	13	63	39	51	14	-7777	31.1% a	13	52	31	41	24	-7777	33.7% a			
14	75	51	63	4	2	27.2% a	14	63	38	51	15	-7777	31.1% a	14	51	31	41	24	-7777	33.9% a			
15	75	50	63	4	2	27.5% a	15	62	38	50	15	-7777	31.1% a	15	51	31	41	24	-7777	34.0% a			
16	75	50	62	4	2	27.7% a	16	62	38	50	15	-7777	31.1% a	16	50	31	40	25	-7777	34.2% a			
17	74	50	62	5	1	27.9% a	17	62	37	50	16	-7777	31.1% a	17	50	30	40	25	-7777	34.3% a			
18	74	49	61	5	1	28.1% a	18	61	37	49	16	-7777	31.2% a	18	50	30	40	25	-7777	34.4% a			
19	73	49	61	5	1	28.3% a	19	61	37	49	16	-7777	31.3% a	19	49	30	40	26	0	34.5% a			
20	73	48	61	6	1	28.5% a	20	60	37	48	17	-7777	31.3% a	20	49	30	39	26	0	34.6% a			
21	73	48	60	6	1	28.6% a	21	60	36	48	17	-7777	31.4% a	21	49	29	39	26	0	34.7% a			
22	72	47	60	6	1	28.8% a	22	60	36	48	17	-7777	31.5% a	22	48	29	39	26	0	34.8% a			
23	72	47	59	7	1	29.0% a	23	59	36	48	18	-7777	31.6% a	23	48	29	38	27	0	34.9% a			
24	71	46	59	7	1	29.1% a	24	59	35	47	18	-7777	31.7% a	24	47	28	38	27	0	35.0% a			
25	71	46	58	7	1	29.3% a	25	59	35	47	18	-7777	31.7% a	25	47	28	38	27	0	35.2% a			
26	71	46	58	8	1	29.5% a	26	58	35	47	18	-7777	31.7% a	26	47	28	37	28	0	35.3% a			
27	70	45	58	8	1	29.7% a	27	58	35	46	19	-7777	31.8% a	27	46	28	37	28	0	35.3% a			
28	70	45	57	8	1	29.8% a	28	57	35	46	19	-7777	31.8% a	28	46	27	37	29	0	35.3% a			
29	69	44	57	9	1	30.0% a	29	57	34	46	19	-7777	31.9% a	29	45	27	36	29	0	35.3% a			
30	69	44	56	9	1	30.1% a	30	57	34	45	20	-7777	31.9% a	30	45	27	36	29	0	35.2% a			
							31	56	34	45	20	-7777	32.1% a										
MNTH:	74.5	49.9	62.2	138	54	3.79 b	MNTH:	62.1	38.0	50.0	468	4	4.46 b	MNTH:	50.5	30.4	40.4	737	-7777	4.36 b			
							Autumn	62.3	39.4	50.9	1343	59	12.61 b										
							Annual	59.8	37.2	48.5	6632	607	47.00 b										

a: Probability of precipitation >= 0.01 inches for 29-day windows centered on each day of the year.
 b: Long-term averages of seasonal or annual precipitation totals in Inches.

-4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
 -7777: a non-zero value that would round to zero
 blank: missing or insufficient data