

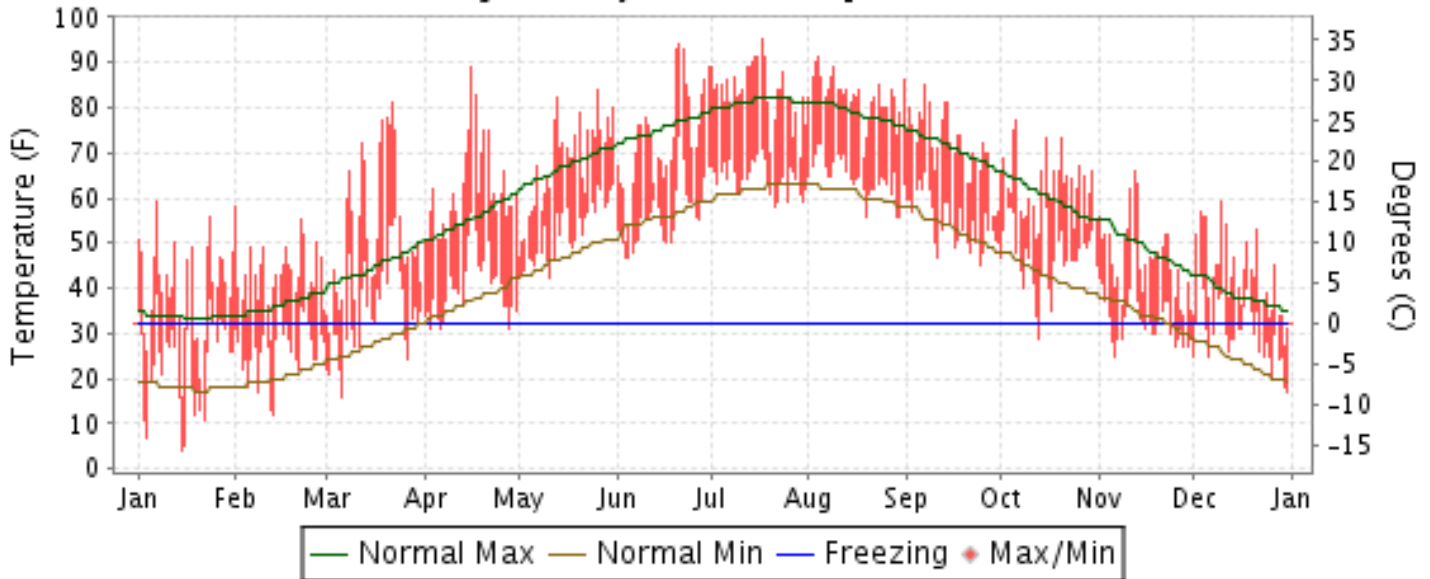


2012 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

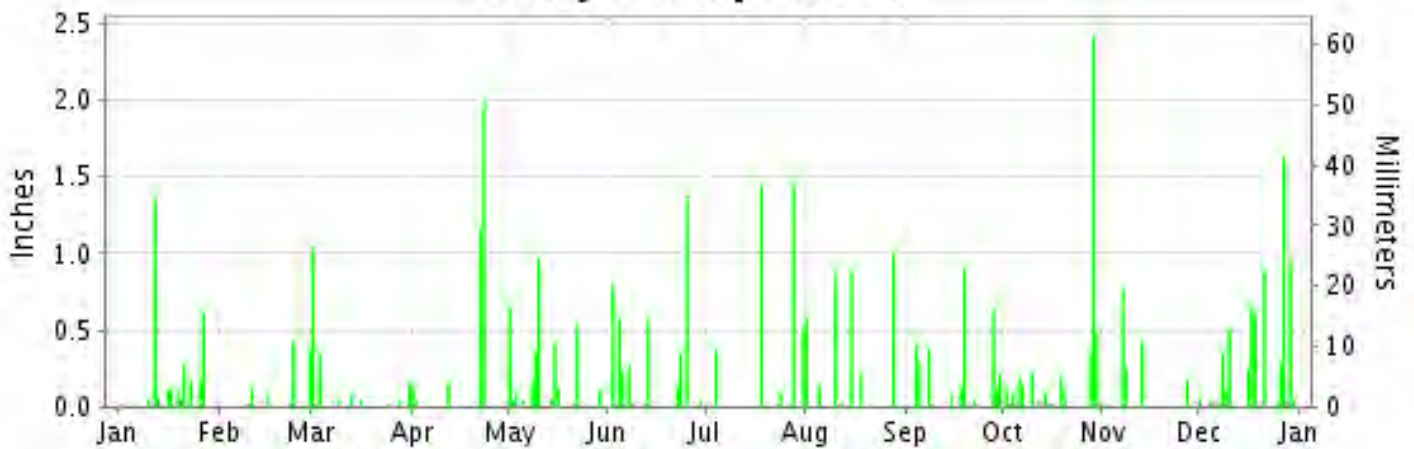
ISSN 0198-2435

MILTON, MILTON, MASSACHUSETTS (KMQE)

Daily Max/Min Temperature



Daily Precipitation



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

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NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2012

MILTON (KMQE)

LATITUDE: 42° 12'N LONGITUDE: 71° 6'W ELEVATION (FT): GRND: 625 BARO: 657 TIME ZONE: EASTERN (UTC -5) WBAN: 14753

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	39.8	43.0	53.6	61.8	67.9	73.4	83.5	82.5	71.5	62.5	47.0	42.8	60.8	
	HIGHEST DAILY MAXIMUM	59	58	81	89	84	94	95	91	85	77	66	59	95	
	DATE OF OCCURRENCE	07	01	22	16	26	21	17	04	07	06	12	10	JUL 17	
	MEAN DAILY MINIMUM	23.4	26.4	35.2	40.1	52.5	56.1	64.5	64.6	54.8	47.0	33.0	30.1	44.0	
	LOWEST DAILY MINIMUM	4	12	16	31	42	47	58	56	45	29	25	17	4	
	DATE OF OCCURRENCE	15	13	06	28+	11+	05+	21	30+	24	13	06	31	JAN 15	
	AVERAGE DRY BULB	31.6	34.7	44.4	51.0	60.2	64.8	74.0	73.6	63.2	54.8	40.0	36.5	52.4	
	MEAN WET BULB														
	MEAN DEW POINT														
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	3	5	2	0	0	0	0	10	
	MAXIMUM <= 32°	8	1	1	0	0	0	0	0	0	0	0	2	12	
	MINIMUM <= 32°	27	26	14	4	0	0	0	0	0	1	17	22	111	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	1028	870	634	429	174	96	0	0	99	309	742	878	5259	
	COOLING DEGREE DAYS	0	0	4	11	38	97	289	273	53	2	0	0	767	
RH	MEAN (PERCENT)														
	HOUR 01 LST														
	HOUR 07 LST														
	HOUR 13 LST														
	HOUR 19 LST														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	1	3	1	11	4	1	1	2	6	2	7	40	
	THUNDERSTORMS	0	0	0	0	1	5	5	2	1	2	0	0	16	
PR	MEAN STATION PRESS. (IN.)														
	MEAN SEA-LEVEL PRESS. (IN.)														
WINDS	RESULTANT SPEED (MPH)														
	RES. DIR. (TENS OF DEGS.)														
	MEAN SPEED (MPH)	13.3	12.3	12.3	12.8	9.4	10.4	9.2	9.3	10.8	11.9	11.9	12.7	11.4	
	PREVAIL.DIR.(TENS OF DEGS.)														
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	45	44	45	37	31	34	31	28	47	58	33	51	58	
	DIR. (TENS OF DEGS.)	20	24	20	04	18	33	06	20	18	09	36	09	09	
	DATE OF OCCURRENCE	13	25	09	23	08	23	18	05	18	29	08	27	OCT 29	
MAXIMUM 3-SECOND WIND:															
SPEED (MPH)	63	61	62	49	35	48	43	37	60	76	48	70	76		
DIR. (TENS OF DEGS.)	22	27	20	04	18	33	31	18	18	09	02	09	09		
DATE OF OCCURRENCE	13	25	09	22	08	23	24	05	18	29	07	27	OCT 29		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.19	1.08	1.82	3.52	3.63	4.45	3.92	3.74	3.27	4.58	1.68	6.52	41.40	
	GREATEST 24-HOUR (IN.)	1.37	0.44	1.05	3.09	1.24	1.38	1.45	1.00	1.03	2.52	1.03	1.93	3.09	
	DATE OF OCCURRENCE	12	24	01	22-23	09-10	25	18	28	18-19	28-29	07-08	26-27	APR 22-23	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	15	7	9	8	15	13	8	8	13	16	5	17	134		
PRECIPITATION 0.10	8	3	3	4	8	8	4	6	8	9	4	10	75		
PRECIPITATION 1.00	1	0	1	2	0	1	2	1	0	1	0	1	10		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	8.0	3.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	9.4	31.1	
	GREATEST 24-HOUR (IN.)	3.4	3.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	6.0	6.0	
	DATE OF OCCURRENCE	21	29	01								07	29	DEC 29	
	MAXIMUM SNOW DEPTH (IN.)	4	0	5	0	0	0	0	0	0	0	4	7	7	
	DATE OF OCCURRENCE	23+		02								08	30	DEC 30	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	3	1	1	0	0	0	0	0	0	0	2	2	9		

NORMALS, MEANS, AND EXTREMES MILTON (KMQE)

LATITUDE: 42° 12'N LONGITUDE: 71° 6'W ELEVATION (FT): GRND: 625 BARO: 657 TIME ZONE: EASTERN (UTC -5) WBAN: 14753

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	33.8	36.8	44.3	55.7	66.3	75.0	80.8	79.2	71.6	60.3	50.0	39.1	57.7
	MEAN DAILY MAXIMUM	120	33.6	33.1	43.4	53.9	66.3	73.1	80.0	78.0	69.5	60.1	47.9	37.4	56.4
	HIGHEST DAILY MAXIMUM	127	68	68	89	94	94	99	100	101	99	88	81	74	101
	YEAR OF OCCURRENCE		1950	1985	1998	1976	2010	2008	1977	1975	1953	1963	1950	1998	AUG 1975
	MEAN OF EXTREME MAXS.	120	54.8	54.6	66.2	79.3	86.2	89.9	93.1	90.5	85.8	77.6	67.9	59.1	75.4
	NORMAL DAILY MINIMUM	30	17.1	19.1	26.6	37.7	47.8	57.1	62.9	61.8	54.6	42.9	33.5	23.6	40.4
	MEAN DAILY MINIMUM	120	18.4	18.1	27.0	35.8	46.4	54.3	61.6	60.3	52.4	43.3	33.2	22.9	39.5
	LOWEST DAILY MINIMUM	127	-16	-21	-5	6	27	36	44	39	28	21	5	-19	-21
	YEAR OF OCCURRENCE		1957	1934	1950	1923	1911	1945	1988	1965	1914	1936	1932	1933	FEB 1934
	MEAN OF EXTREME MINS.	120	-0.7	2.5	10.6	25.3	36.8	45.0	53.2	50.3	40.5	29.5	19.6	5.5	26.5
	NORMAL DRY BULB	30	25.5	27.9	35.5	46.7	57.1	66.1	71.9	70.5	63.1	51.6	41.7	31.3	49.1
	MEAN DRY BULB	120	25.8	25.6	35.0	44.9	56.4	63.8	70.8	69.2	61.0	51.7	40.5	30.2	47.9
	MEAN WET BULB	11	21.2	22.5	27.1	37.5	47.4	59.1	64.0	63.3	57.6	45.9	37.5	27.8	42.6
	MEAN DEW POINT	11	19.3	20.4	25.9	34.5	45.8	57.6	62.7	62.4	56.6	44.1	35.0	24.5	40.7
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	0.3	1.1	2.6	1.5	0.3	0.0	0.0	0.0	5.9
	MAXIMUM <= 32	30	14.0	8.8	3.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	7.9	34.6
MINIMUM <= 32	30	28.3	25.5	23.0	5.9	0.0	0.0	0.0	0.0	0.0	2.8	13.2	24.7	123.4	
MINIMUM <= 0	30	2.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.6	
H/C	NORMAL HEATING DEG. DAYS	30	1226	1037	916	551	268	73	9	16	117	421	698	1043	6375
	NORMAL COOLING DEG. DAYS	30	0	0	0	2	22	105	222	186	60	5	0	0	602
RH	NORMAL (PERCENT)	30													
	hour 01 LST	30													
	hour 07 LST	30													
	hour 13 LST	30													
	hour 19 LST	30													
S	PERCENT POSSIBLE SUNSHINE	116	46	50	48	49	52	55	57	58	56	55	47	46	52
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	20	3.4	3.1	4.2	4.1	5.3	3.7	3.3	3.5	4.1	4.8	3.5	3.5	46.5
	THUNDERSTORMS	20	0.2	0.2	0.3	0.7	1.7	2.7	3.0	2.5	1.2	0.6	0.2	0.0	13.3
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR														
	PARTLY CLOUDY CLOUDY														
PR	MEAN STATION PRESSURE(IN)	11	29.27	29.28	29.26	29.28	29.28	29.28	29.28	29.31	29.38	29.34	29.33	29.30	29.30
	MEAN SEA-LEVEL PRES. (IN)	11	30.00	30.02	29.99	30.00	29.99	29.98	29.98	30.01	30.09	30.06	30.05	30.03	30.02
WINDS	MEAN SPEED (MPH)	14	13.7	14.0	14.1	13.1	11.4	11.0	10.2	10.7	11.0	12.8	13.2	14.2	12.5
	PREVAIL.DIR(TENS OF DEGS)														
	MAXIMUM 2-MINUTE: SPEED (MPH)	13	61	58	55	54	51	49	46	57	49	58	56	60	61
	DIR. (TENS OF DEGS)		15	19	14	16	26	20	21	13	17	09	16	16	15
	YEAR OF OCCURRENCE		2006	2000	1999	2000	2002	2010	2006	2011	2005	2012	1999	2000	JAN 2006
	MAXIMUM 3-SECOND SPEED (MPH)	14	85	70	74	72	64	63	60	77	62	76	76	78	85
DIR. (TENS OF DEGS)		15	20	15	09	21	20	21	14	17	09	16	15	15	
YEAR OF OCCURRENCE		2006	2008	1999	2007	2000	2010	2006	2011	2005	2012	1999	2000	JAN 2006	
PRECIPITATION	NORMAL (IN)	30	4.35	4.07	5.58	4.55	4.11	4.31	4.02	4.03	4.06	4.69	4.76	4.89	53.42
	MAXIMUM MONTHLY (IN)	127	11.61	9.32	18.81	10.37	10.10	17.32	11.67	18.78	12.37	14.72	9.78	12.60	18.81
	YEAR OF OCCURRENCE		1979	1969	2010	1987	2006	1998	1938	1955	1999	2005	1983	1969	MAR 2010
	MINIMUM MONTHLY (IN)	127	0.89	0.71	0.06	0.92	0.50	0.14	0.13	0.53	0.45	0.22	0.55	0.92	0.06
	YEAR OF OCCURRENCE		1955	1987	1915	1892	1944	1999	1952	1981	1914	1924	1976	1955	MAR 1915
	MAXIMUM IN 24 HOURS (IN)	127	3.10	4.85	6.62	3.47	5.02	6.10	4.67	9.93	5.86	7.41	5.06	5.68	9.93
	YEAR OF OCCURRENCE		1889	1886	1968	2004	1984	1998	1979	1955	1961	1996	1955	1969	AUG 1955
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	12.6	10.6	12.3	12.2	12.8	12.0	10.5	10.2	9.1	10.3	11.1	12.5	136.2
PRECIPITATION >= 1.00	30	1.2	1.2	1.6	1.2	0.8	1.0	1.3	1.1	1.1	1.3	1.4	1.6	14.8	
SNOWFALL	NORMAL (IN)	30	17.1	13.9	12.7	3.0	0.0	0.0	0.0	0.0	0.0	0.3	2.3	13.4	62.7
	MAXIMUM MONTHLY (IN)	127	56.3	65.4	52.0	24.2	7.8	T	T	0.0	0.0	8.5	23.0	45.2	65.4
	YEAR OF OCCURRENCE		1948	1969	1956	1996	1977	1991	2004			2011	1889	1945	FEB 1969
	MAXIMUM IN 24 HOURS (IN)	23	20.0	28.2	27.2	15.1	7.8	T	T	0.0	0.0	6.8	16.0	21.0	28.2
	YEAR OF OCCURRENCE		1898	1969	1960	1996	1977	1991	2004			1979	1898	1960	FEB 1969
	MAXIMUM SNOW DEPTH (IN)	49	29	41	43	27	8	0	0	0	0	6	12	23	43
	YEAR OF OCCURRENCE		2011	1969	1969	1997	1977					2011	1971	2003	MAR 1969
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	4.7	3.1	3.1	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.6	2.8	15.0	

PRECIPITATION (inches) 2012 MILTON (KMQE)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1983	5.53	6.15	10.02	7.57	3.33	1.27	1.11	6.59	1.67	3.35	9.78	6.08	62.45
1984	2.81	7.80	9.00	4.34	9.14	4.10	5.26	0.91	1.73	5.02	1.59	3.21	54.91
1985	1.31	2.91	3.17	1.80	3.58	4.66	4.53	4.04	2.74	1.83	8.16	1.32	40.05
1986	4.11	3.55	3.09	1.80	1.92	7.13	4.97	4.65	1.04	3.61	6.37	7.71	49.95
1987	7.94	0.71	5.42	10.37	2.45	2.18	1.23	4.09	9.62	2.38	4.91	2.99	54.29
1988	3.38	5.46	4.23	2.36	3.67	0.91	10.66	1.28	1.78	3.11	8.93	1.52	47.29
1989	1.00	3.45	3.83	5.03	4.74	4.44	7.31	6.96	5.39	8.07	4.77	1.14	56.13
1990	4.85	5.21	2.21	5.62	7.81	1.35	5.04	6.03	1.86	6.23	1.96	3.95	52.12
1991	4.00	2.03	5.64	5.05	1.54	3.30	2.95	6.46	6.72	6.51	5.01	2.80	52.01
1992	3.64	2.31	4.48	3.33	1.50	5.09	2.85	5.36	3.40	1.95	5.06	9.80	48.77
1993	3.15	4.42	8.72	6.59	1.23	2.12	1.77	1.67	4.16	4.36	2.97	8.01	49.17
1994	6.25	4.00	7.98	2.46	5.23	1.01	1.84	6.92	5.00	0.39	5.10	6.48	52.66
1995	4.32	3.28	2.20	1.86	2.12	1.83	2.54	2.21	3.63	5.94	6.01	3.42	39.36
1996	8.49	3.53	4.01	6.68	3.37	3.05	5.48	3.31	8.78	11.76	2.59	8.31	69.36
1997	3.43	2.16	6.75	4.96	3.07	1.33	1.18	2.94	1.36	2.00	7.41	3.31	39.90
1998	7.22	6.82	5.96	5.18	8.18	17.32	2.06	5.84	1.53	7.37	1.83	1.69	71.00
1999	8.47	6.02	5.04	1.17	3.82	0.14	4.77	2.08	12.37	4.35	2.43	2.38	53.04
2000	4.57	3.70	4.86	6.56	3.37	7.45	5.06	1.97	3.03	3.27	4.61	5.20	53.65
2001	3.15	2.68	13.07	1.48	2.48	7.51	2.16	4.83	2.72	0.79	1.10	3.56	45.53
2002	3.65	2.30	4.25	3.31	6.80	4.31	3.17	2.76	4.92	4.00	7.12	6.81	53.40
2003	2.88	5.76	5.15	5.74	4.60	5.61	3.25	4.75	2.54	6.10	3.20	8.21	57.79
2004	1.72	1.76	4.49	9.38	3.57	1.95	4.86	5.82	8.71	2.55	4.17	6.16	55.14
2005	6.23	4.10	6.12	4.63	8.65	1.07	2.72	5.56	3.81	14.72	4.65	3.96	66.22
2006	5.95	3.46	0.31	2.18	10.10	12.31	5.22	4.03	2.58	5.08	6.89	2.24	60.35
2007	2.94	2.78	6.02	8.68	3.74	2.82	3.38	0.63	1.89	2.66	3.30	6.94	45.78
2008	3.87	8.17	5.56	3.16	1.90	2.34	5.93	4.53	7.44	2.04	5.35	9.16	59.45
2009	4.16	2.37	3.55	4.53	3.89	5.14	7.62	3.51	3.11	7.23	4.46	5.69	55.26
2010	4.03	5.07	18.81	2.45	2.65	2.68	1.26	8.68	1.99	5.70	4.31	4.71	62.34
2011	6.01	4.92	2.68	4.61	3.97	5.12	2.38	8.35	6.02	9.96	4.67	3.84	62.53
2012	3.19	1.08	1.82	3.52	3.63	4.45	3.92	3.74	3.27	4.58	1.68	6.52	41.40
POR= 120 YRS	4.18	3.90	4.57	4.09	3.70	3.70	3.68	4.09	3.97	4.01	4.34	4.42	48.65

WBAN : 14753

AVERAGE TEMPERATURE (°F) 2012 MILTON (KMQE)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1983	27.5	29.8	37.7	46.8	54.0	66.7	73.5	70.0	65.6	51.3	43.5	29.3	49.6
1984	23.9	35.2	30.0	45.0	56.2	67.6	70.6	70.9	60.3	53.6	42.0	36.3	49.3
1985	20.6	30.0	37.7	47.4	57.4	62.1	71.3	68.5	62.9	53.1	43.1	28.1	48.5
1986	28.7	25.5	38.7	47.1	57.4	63.0	68.3	67.2	60.4	50.9	39.4	32.4	48.3
1987	25.9	26.1	36.9	45.3	57.7	66.2	71.1	68.2	62.0	50.5	41.5	32.9	48.7
1988	24.8	29.4	36.9	44.7	56.9	66.0	72.8	73.3	61.5	47.8	44.1	29.4	49.0
1989	31.2	27.3	35.1	44.8	58.6	65.7	70.2	69.4	63.2	53.5	39.8	17.9	48.1
1990	34.2	31.2	38.2	46.2	53.6	65.5	71.0	71.0	62.1	56.0	44.8	36.8	50.9
1991	26.9	33.0	39.0	49.5	62.1	66.7	72.1	71.1	60.7	54.2	42.3	32.4	50.8
1992	27.9	29.2	32.6	44.0	55.2	65.3	67.9	68.2	61.1	49.2	39.7	31.1	47.6
1993	27.8	22.5	32.7	45.8	58.5	66.3	72.4	72.2	62.1	49.5	42.6	30.7	48.6
1994	19.1	23.8	35.6	49.5	55.5	68.9	75.3	69.0	60.9	52.7	45.8	35.4	49.3
1995	32.4	25.9	37.3	45.0	55.5	66.6	74.1	70.3	61.2	56.3	38.1	26.6	49.1
1996	26.1	27.3	33.6	46.6	56.3	66.5	69.8	69.5	62.0	51.4	37.5	36.6	48.6
1997	26.1	33.3	34.7	45.1	54.2	66.6	72.4	69.6	62.3	51.0	39.0	32.4	48.9
1998	31.8	34.3	39.4	48.6	59.9	63.7	72.0	71.3	64.5	52.1	42.2	36.9	51.4
1999	27.9	32.4	37.5	47.9	59.3	69.7	74.6	70.6	66.2	51.1	45.8	34.8	51.5
2000	24.9	32.0	41.7	45.3	57.0	65.8	67.9	68.6	61.5	52.0	41.1	26.1	48.7
2001	27.1	28.8	33.4	47.8	59.1	69.4	68.4	72.9	64.0	54.5	46.3	37.5	50.8
2002	34.4	34.0	38.8	48.5	55.8	64.2	72.2	73.0	66.1	49.5	40.1	30.1	50.6
2003	20.4	23.8	35.5	43.2	54.4	64.0	72.6	72.2	63.8	50.5	43.8	33.1	48.1
2004	16.8	29.3	36.6	47.8	58.1	64.5	69.4	69.7	63.4	51.5	41.6	32.4	48.4
2005	24.0	29.5	32.2	49.4	51.0	68.1	71.6	73.6	65.8	52.4	44.4	29.5	49.3
2006	34.0	28.9	37.2	49.5	56.4	66.8	74.4	69.5	62.5	52.1	48.0	38.5	51.5
2007	30.4	24.0	36.1	44.4	60.0	66.4	72.4	72.1	66.1	58.1	40.6	29.8	50.0
2008	30.2	29.9	36.1	49.2	55.6	68.8	74.2	68.5	63.7	51.2	41.3	32.8	50.1
2009	21.7	30.5	36.0	49.4	58.2	61.6	68.5	72.1	61.4	49.8	46.8	29.9	48.8
2010	26.6	30.0	42.3	52.0	61.4	68.8	76.2	72.0	66.1	52.2	42.0	29.6	51.6
2011	24.5	28.3	36.5	48.3	58.2	65.1	74.2	71.0	65.4	53.8	48.7	37.5	51.0
2012	31.6	34.7	44.4	51.0	60.2	64.8	74.0	73.6	63.2	54.8	40.0	36.5	52.4
POR= 120 YRS	25.8	25.6	35.0	44.9	56.4	63.8	70.8	69.2	61.0	51.7	40.5	30.2	47.9

HEATING DEGREE DAYS (base 65°F) 2012 MILTON (KMQE)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84	4	23	108	431	638	1101	1267	857	1079	592	277	58	6435
1984-85	14	5	170	349	679	882	1370	975	839	522	247	113	6165
1985-86	0	20	110	363	651	1138	1119	1100	803	527	278	113	6222
1986-87	42	39	156	435	762	1003	1205	1081	866	584	272	55	6500
1987-88	6	41	121	442	699	987	1238	1025	864	605	267	90	6385
1988-89	17	22	117	531	615	1098	1043	1050	923	598	207	72	6293
1989-90	9	20	123	349	751	1454	948	941	825	563	350	63	6396
1990-91	10	17	128	299	603	866	1171	889	798	461	147	69	5458
1991-92	6	12	168	333	675	1004	1143	1033	998	624	333	64	6393
1992-93	30	29	160	482	756	1043	1146	1184	996	567	204	61	6658
1993-94	4	2	148	474	665	1054	1417	1149	905	456	300	22	6596
1994-95	4	22	139	373	571	910	1004	1089	852	593	296	52	5905
1995-96	0	17	152	275	801	1181	1196	1086	968	551	290	29	6546
1996-97	4	15	137	416	819	873	1200	878	935	591	329	102	6299
1997-98	8	9	127	437	772	1005	1026	855	799	489	183	84	5794
1998-99	0	6	67	394	676	865	1141	908	845	505	192	34	5633
1999-00	3	16	56	423	568	929	1236	948	719	583	261	89	5831
2000-01	19	17	146	399	708	1199	1168	1007	973	512	238	26	6412
2001-02	15	1	86	333	550	847	943	863	805	495	294	108	5340
2002-03	10	20	53	487	742	1073	1373	1148	906	651	328	107	6898
2003-04	3	9	62	442	629	981	1486	1030	875	510	224	83	6334
2004-05	12	18	83	413	696	1002	1264	988	1009	466	428	65	6444
2005-06	16	2	55	396	612	1095	952	1005	858	458	288	71	5808
2006-07	0	24	107	396	504	815	1064	1140	890	617	205	73	5835
2007-08	8	17	57	249	727	1083	1073	1015	892	468	285	40	5914
2008-09	0	11	96	423	706	993	1336	960	1336	478	225	117	6681
2009-10	20	14	123	464	539	1084	1182	974	697	386	159	37	5679
2010-11	1	12	66	398	683	1092	1249	1021	876	497	258	86	6239
2011-12	1	3	68	351	481	846	1028	870	634	429	174	96	4981
2012-	0	0	99	309	742	878							

WBAN : 14753

COOLING DEGREE DAYS (base 65°F) 2012 MILTON (KMQE)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1983	0	0	0	2	4	115	274	190	134	13	0	0	732
1984	0	0	0	0	11	142	195	191	36	2	0	0	577
1985	0	0	0	3	17	32	203	135	54	1	0	0	445
1986	0	0	0	0	49	61	149	113	22	4	0	0	398
1987	0	0	0	0	52	100	203	148	36	0	1	0	540
1988	0	0	0	0	23	128	266	289	23	4	0	0	733
1989	0	0	0	0	16	100	178	163	76	1	0	0	534
1990	0	0	0	8	0	84	203	208	48	26	3	0	580
1991	0	0	0	0	64	124	234	208	50	5	0	0	685
1992	0	0	0	0	36	77	123	135	48	0	0	0	419
1993	0	0	0	0	12	108	244	233	66	1	0	0	664
1994	0	0	0	0	12	146	329	154	20	0	0	0	661
1995	0	0	0	0	11	108	291	185	44	10	0	0	649
1996	0	0	0	4	27	81	159	163	55	0	0	0	489
1997	0	0	0	0	2	157	243	159	54	6	0	0	621
1998	0	0	14	2	32	54	225	206	61	0	0	0	594
1999	0	0	0	0	23	180	308	194	100	0	0	0	805
2000	0	0	0	0	23	121	118	133	49	2	0	0	446
2001	0	0	0	4	60	167	126	253	61	15	0	0	686
2002	0	0	0	8	13	92	240	277	92	12	0	0	734
2003	0	0	0	3	5	84	246	239	32	0	0	0	609
2004	0	0	0	1	22	74	155	170	43	0	0	0	465
2005	0	0	0	1	0	166	225	278	87	14	0	0	771
2006	0	0	0	0	26	133	289	170	36	3	0	0	657
2007	0	0	0	3	58	121	243	243	97	38	0	0	803
2008	0	0	0	2	3	163	294	127	63	0	0	0	652
2009	0	0	0	18	21	22	137	244	22	0	0	0	464
2010	0	0	0	3	51	157	355	236	105	9	0	0	916
2011	0	0	0	3	54	94	292	195	86	12	0	0	736
2012	0	0	4	11	38	97	289	273	53	2	0	0	767

SNOWFALL (inches) 2012 MILTON (KMQE)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84	0.0	0.0	0.0	0.0	T	9.5	23.6	0.6	26.7	T	0.0	0.0	60.4
1984-85	0.0	0.0	0.0	0.0	0.2	5.2	11.1	16.7	10.4	3.5	T	0.0	47.1
1985-86	0.0	0.0	0.0	0.0	5.1	2.9	1.6	13.8	3.0	T	T	0.0	26.4
1986-87	0.0	0.0	0.0	0.0	13.5	6.4	38.3	5.6	8.4	13.5	0.0	0.0	85.7
1987-88	0.0	0.0	0.0	0.0	11.4	12.1	20.3	16.3	8.5	T	0.0	0.0	68.6
1988-89	0.0	0.0	0.0	T	0.0	8.4	1.4	10.2	9.3	4.7	0.0	0.0	34.0
1989-90	0.0	0.0	0.0	0.0	5.6	7.3	13.3	25.8	5.7	1.5	0.2	0.0	59.4
1990-91	0.0	0.0	0.0	0.0	0.4	5.6	11.7	5.8	5.5	T	0.0	T	29.0
1991-92	0.0	0.0	0.0	T	0.2	7.5	1.1	5.0	11.9	1.5	0.0	0.0	27.2
1992-93	0.0	0.0	0.0	0.0	0.5	19.0	13.5	12.8	35.5	3.0	0.0	0.0	84.3
1993-94	0.0	0.0	0.0	0.0	0.3	15.0	33.0	33.9	18.9	0.0	0.0	0.0	101.1
1994-95	0.0	0.0	0.0	0.0	1.6	1.3	4.3	10.0	0.7	T	T	0.0	17.9
1995-96	0.0	0.0	0.0	0.0	5.8	25.3	47.6	18.3	23.2	24.2	T	0.0	144.4
1996-97	0.0	0.0	0.0	T	2.6	9.3	12.2	7.8	22.6	15.1	0.0	0.0	69.6
1997-98	0.0	0.0	0.0	0.0	4.1	15.3	15.8	1.0	5.3	0.1	0.0	0.0	41.6
1998-99	0.0	0.0	0.0	0.0			19.7	14.4	22.5	T	0.0	0.0	
1999-00	0.0	0.0	0.0	T	T	T	18.6	11.1	3.0	1.0	0.0	0.0	33.7
2000-01	0.0	0.0	0.0	0.6	T	9.6	19.7	19.3	41.4	0.0	0.0	0.0	90.6
2001-02	0.0	0.0	0.0	T	T	10.1	15.7	6.4	6.8	1.3	T	0.0	40.3
2002-03	0.0	0.0	0.0	1.3	8.2	21.8	12.7	51.3	13.3	4.5	0.0	0.0	113.1
2003-04	0.0	0.0	0.0	0.5	T	29.7	8.5	3.0	15.8	0.5	0.0	0.0	58.0
2004-05	T	0.0	0.0	0.0	7.8	16.2	44.8	25.4	25.0	0.2	0.0	0.0	119.4
2005-06	0.0	0.0	0.0	1.5	0.6	14.4	18.1	16.5	0.1	1.0	0.0	0.0	52.2
2006-07	0.0	0.0	0.0	0.0	0.0	3.7	2.9	7.3	13.5	0.2	0.0	0.0	27.6
2007-08	0.0	0.0	0.0	0.0	0.8	29.7	13.6	16.0	6.4	0.0	0.0	0.0	66.5
2008-09	0.0	0.0	0.0	0.0	T	30.4	24.7	10.2	24.7	0.2	T	0.0	90.2
2009-10	0.0	0.0	0.0	3.0	0.0	26.8	14.7	12.0	7.9	T	0.0	0.0	64.4
2010-11	0.0	0.0	0.0	T	0.1	22.9	48.2	18.7	5.5	1.6	0.0	0.0	97.0
2011-12	0.0	0.0	0.0	8.5	0.0	T	8.0	3.7	4.0	0.0	0.0	0.0	24.2
2012-	0.0	0.0	0.0	0.0	6.0	9.4							
POR= 70 YRS	T	0.0	0.0	0.6	2.6	11.5	16.3	15.9	11.8	3.2	0.1	T	62.0

WBAN : 14753

REFERENCE NOTES :

PAGE 1:
THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).

PAGE 2 AND 3:

H/C INDICATES HEATING AND COOLING DEGREE DAYS.

RH INDICATES RELATIVE HUMIDITY

W/O INDICATES WEATHER AND OBSTRUCTIONS

S INDICATES SUNSHINE.

PR INDICATES PRESSURE.

CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).

GENERAL:

T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.

+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.

BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.

PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.

POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA

MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE

THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY

BE MISSING.

WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS,

THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER

OF YEARS INDICATED.

0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH

IS BETWEEN 0.00 AND 0.05.

CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS

OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION

CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA

FOR CLOUDS AT OR BELOW 12,000 FEET

CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES

3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.

GENERAL CONTINUED:

WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS)

CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36"

INDICATES TRUE NORTH.

RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND

DIRECTION.

AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM

AND MINIMUM TEMPERATURE DIVIDED BY 2.

SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN

PRECIPITATION, INCLUDING HAIL.

A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F.

DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.

DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE

COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.

WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.

ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.

STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS:

<http://www.ncdc.noaa.gov/homr/>

SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:

The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

The 2012 Annual Publications were reproduced on 6/05/13 to correct two problems that occurred when the Publications were first produced on 02/28/13.

- 1) A small number of stations did not correctly show number of days with thunderstorms and heavy fog.
- 2) Climate Normals in the Annual Publications were based on a first edition of the 1981-2010 Normals release. With the release of Service Pack 1 (SP1) new normals for 83 stations are available and now included. Additional information on SP1 is available at:
<http://www1.ncdc.noaa.gov/pub/data/normals/1981-2010/status.txt>.

2012

BLUE HILL OBSERVATORY

MILTON, MASSACHUSETTS (KMQE)

The altitude of the Observatory and its proximity to Massachusetts Bay play major roles in determining the climate of Blue Hill. The elevation of 635 feet marks the summit as the highest point of a wooded range that extends east-northeast to west-southwest. The station lies at the southwest end of this range and has a three-quadrant unrestricted exposure, at approximately 400 feet above the surrounding terrain. The orographic effect created by this difference in elevation is responsible for lower temperatures, more precipitation, higher winds, more frequent occurrences of fog, and longer periods of snow cover than at nearby lower elevations. Eight miles to the northeast lies the nearest approach of Boston Harbor, and thus, the station is within range of the sea breeze.

Summer temperatures are generally comfortable. Winters at the summit are more severe than those experienced at surrounding areas. Average occurrence of last freezing temperature in the spring is late April and the first in the fall is late October. The freeze-free period is about 178 days. Records indicate that the freeze-free period at base stations is from 6 to 7 weeks shorter than at the summit. This seeming paradox is due to temperature inversions, in which the colder air is found at lower elevations. This condition develops on clear, calm nights, and is responsible for the shorter freeze-free period in base areas.

Total precipitation is fairly evenly distributed throughout the year. Precipitation occurrences are most frequent January through March and least frequent August through October. Hourly precipitation occurrences indicate a coastal type distribution for the year as a whole, with maxima in the early morning and minima in the early afternoon. In the summer, however, convective action or the continental influence dominates, causing a late afternoon maximum. Coastal storms or northeasters are prolific producers of rain and snow.

The main snow season extends from November through early April. Nearly 14 percent of the annual total precipitation occurs as snow or sleet.

Wind velocities are higher in winter than in summer. Speeds average greatest from January through March and least in August. Surface contour is a factor in the stations wind force, particularly from the southerly and westerly directions. These are the steepest slopes of the hill, and winds velocities increase. Peak winds have been recorded from these directions. Winds from the east-northeast and northeast are somewhat slowed by striking the lower range first.

Station History

MILTON, MA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
BLUE HILL LCD	2012-07-01	Present	42° 12'	-71° 6'	625		COOP, UNKNOWN
MILTON BLUE HILL OBSERVATORY	1965-01-01	1970-02-27	42° 13'	-71° 7'	640		COOP, SYNOPTIC, USHCN, WXSVC
MILTON BLUE HILL OBSERVATORY	1970-02-27	1981-12-31	42° 13'	-71° 7'	629		COOP, SYNOPTIC, USHCN, WXSVC
MILTON BLUE HILL OBSERVATORY	1986-01-01	1998-10-15	42° 13'	-71° 7'	630		COOP, SYNOPTIC, USHCN
BLUE HILL LCD	1998-10-15	2012-07-01	42° 12'	-71° 6'	625		UNKNOWN
MILTON BLUE HILL OBSERVATORY	1959-06-01	1965-01-01	42° 13'	-71° 7'	640		COOP, SYNOPTIC, USHCN
BLUE HILL LCD	1959-06-01	1998-10-15	42° 12'	-71° 6'	625		UNKNOWN
MILTON BLUE HILL OBSERVATORY	1981-12-31	1986-01-01	42° 13'	-71° 7'	629		COOP, SYNOPTIC, USHCN

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1986-01-01	1990-09-27	HOURLY	2400			
PRECIP	1990-09-27	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1998-10-15	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1998-10-15	HOURLY	2400	UNIV	RCRD	
PRECIP	1998-10-15	Present	HOURLY	2400	UNIV	RCRD	
PRECIP	1998-10-15	Present	DAILY	2400	PCPNX		
WIND	1998-10-15	Present	DAILY	2400	ACCUM		ROOF
TEMP	1959-06-01	1986-01-01	DAILY	2400			
DEWPNTTEMP	1998-10-15	Present	DAILY	2400	HTG		
PRECIP	1959-06-01	1986-01-01	DAILY	2400	SRG		
PRECIP	1959-06-01	1986-01-01	HOURLY	2400			
TEMP	1998-10-15	Present	DAILY	2400	HTG		
PRECIP	1990-09-27	1995-07-01	HOURLY	2400			
TEMP	1990-09-27	1995-07-01	DAILY	2400	MMTS		
TEMP	1995-07-01	1998-10-15	DAILY	2400	MMTS		
PRECIP	1986-01-01	1990-09-27	DAILY	2400	UNIV	RCRD	
TEMP	1986-01-01	1990-09-27	DAILY	2400	HYGR		

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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