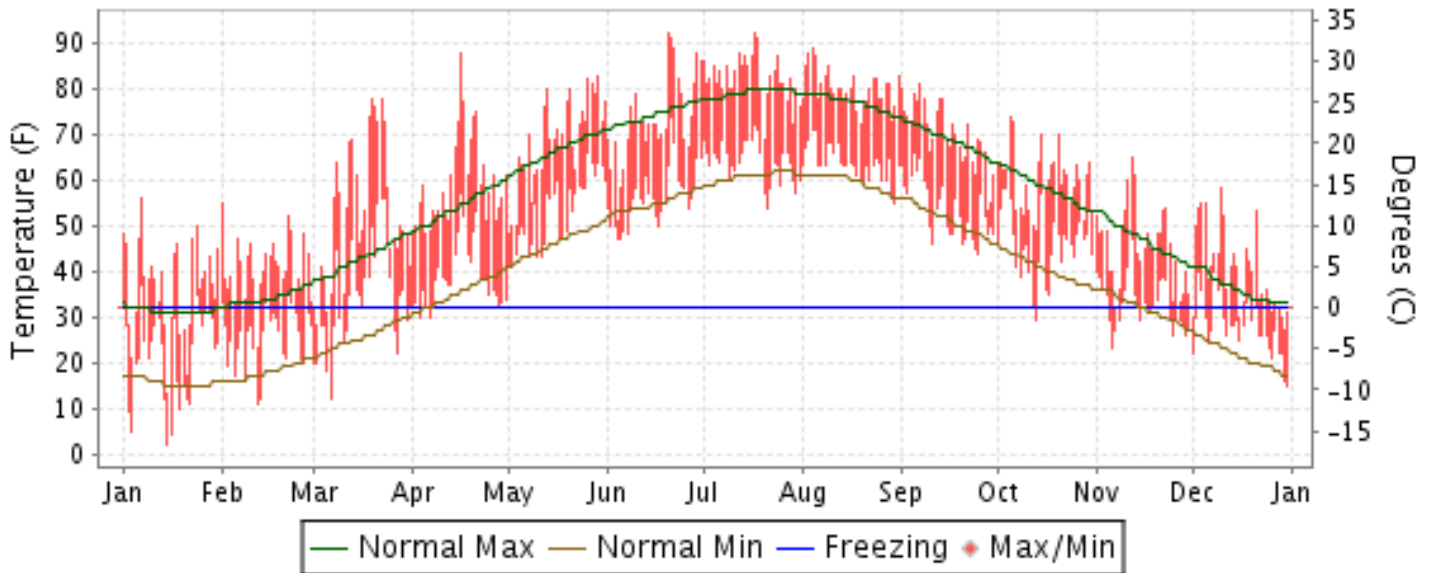




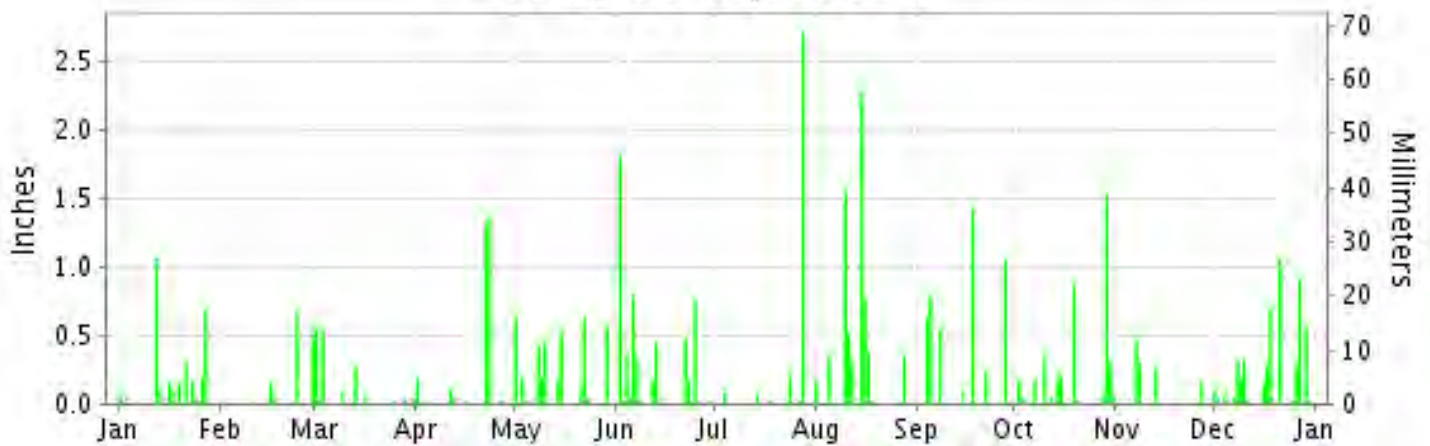
2012 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

ISSN 0198-2451

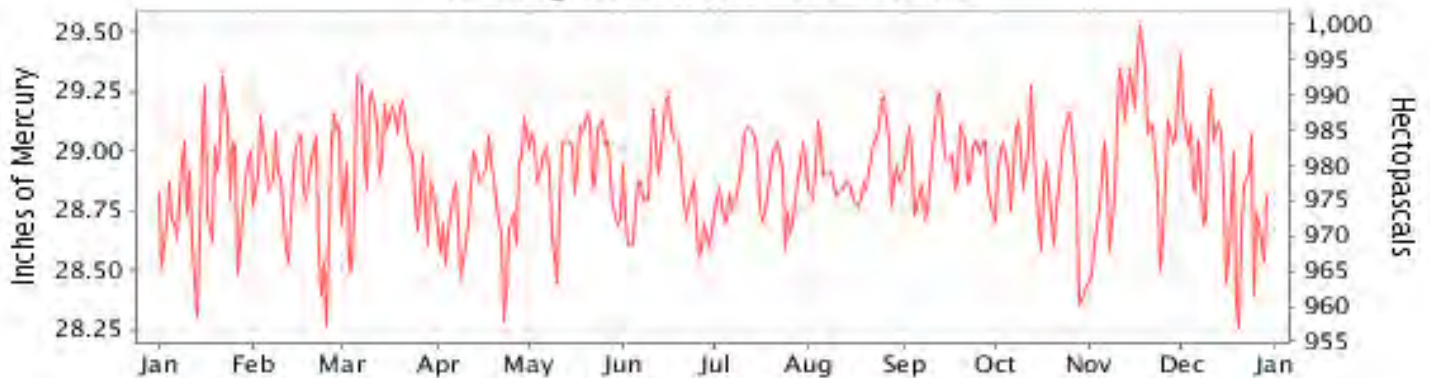
WORCESTER, MASSACHUSETTS (KORH) Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2012

WORCESTER (KORH)

LATITUDE: 42° 16'N LONGITUDE: 71° 52'W ELEVATION (FT): GRND: 1000 BARO: 966 TIME ZONE: EASTERN (UTC -5) WBAN: 94746

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	36.6	40.7	53.3	59.5	68.7	73.5	82.4	80.2	69.9	60.1	45.7	40.3	59.2	
	HIGHEST DAILY MAXIMUM	56	55	78	88	83	92	92	89	81	74	65	58	92	
	DATE OF OCCURRENCE	07	01	22+	16	29	20	17	04	07	05	12	10	JUL 17	
	MEAN DAILY MINIMUM	21.8	25.3	34.5	38.9	53.0	56.3	64.1	63.6	53.5	45.9	32.7	28.0	43.1	
	LOWEST DAILY MINIMUM	2	11	12	30	41	47	54	55	44	29	23	15	2	
	DATE OF OCCURRENCE	15	12	06	06+	02+	05+	21	30	25	13	06	31	JAN 15	
	AVERAGE DRY BULB	29.2	33.0	43.9	49.2	60.9	64.9	73.3	71.9	61.7	53.0	39.2	34.2	51.2	
	MEAN WET BULB	25.9	28.2	38.0	40.9	54.9	58.4	64.9	65.1	56.7	49.2	34.2	31.1	45.6	
	MEAN DEW POINT	18.8	18.6	29.4	29.6	50.1	53.9	59.6	61.0	52.8	45.2	27.2	26.1	39.4	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	2	2	0	0	0	0	0	0	4
	MAXIMUM <= 32°	10	1	3	0	0	0	0	0	0	0	1	7	22	
MINIMUM <= 32°	28	25	15	6	0	0	0	0	0	2	16	24	116		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	1102	920	646	475	170	82	2	0	134	363	766	950	5610	
	COOLING DEGREE DAYS	0	0	2	8	51	87	264	219	43	0	0	0	674	
RH	MEAN (PERCENT)	67	58	62	52	73	71	66	72	75	76	66	76	68	
	HOUR 01 LST	73	64	71	65	81	82	77	83	85	82	74	79	76	
	HOUR 07 LST	74	64	70	53	77	72	66	75	79	80	70	79	72	
	HOUR 13 LST	56	45	49	35	63	59	52	56	59	65	53	70	55	
	HOUR 19 LST	68	57	61	52	74	74	69	75	79	77	65	77	69	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	6	3	5	1	11	3	3	3	6	8	2	12	63	
	THUNDERSTORMS	0	0	0	0	0	4	2	4	1	0	0	0	11	
PR	MEAN STATION PRESS. (IN.)	28.84	28.86	28.97	28.76	28.94	28.86	28.87	28.92	28.95	28.87	29.00	28.85	28.89	
	MEAN SEA-LEVEL PRESS. (IN.)	29.97	29.98	30.07	29.85	30.03	29.94	29.94	30.00	30.04	29.97	30.12	29.98	29.99	
WINDS	RESULTANT SPEED (MPH)	6.5	6.8	5.2	6.7	2.1	3.2	4.6	5.1	3.4	2.9	4.4	5.2	4.4	
	RES. DIR. (TENS OF DEGS.)	27	28	27	28	23	28	27	25	25	26	31	30	28	
	MEAN SPEED (MPH)	10.6	9.9	10.1	10.8	7.3	8.3	7.9	7.4	8.0	8.6	9.1	10.8	9.1	
	PREVAIL.DIR.(TENS OF DEGS.)	27	27	25	27	27	27	26	26	23	23	02	29	26	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	36	38	36	38	33	25	30	35	30	40	33	33	40	
	DIR. (TENS OF DEGS.)	25	27	21	31	28	21	31	24	18	07	29	29	07	
	DATE OF OCCURRENCE	13	25	08	04	29	25	24	05	18	29	24	30	OCT 29	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	54	58	47	52	51	45	38	43	44	61	51	46	61	
DIR. (TENS OF DEGS.)	29	28	29	31	28	20	30	23	19	06	29	27	06		
DATE OF OCCURRENCE	27	25	09	04	29	25	24	05	18	29	24	22	OCT 29		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.03	1.42	1.66	3.12	4.00	5.53	3.16	6.70	4.80	4.16	1.19	5.11	43.88	
	GREATEST 24-HOUR (IN.)	1.06	0.67	0.57	2.66	0.72	1.81	2.71	3.02	1.43	1.58	0.77	1.20	3.02	
	DATE OF OCCURRENCE	12	24	02-03	22-23	21-22	02	28-29	15-16	18-19	29-30	07-08	26-27	AUG 15-16	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	14	7	10	9	14	16	10	10	11	14	4	18	137		
PRECIPITATION 0.10	7	3	3	3	9	9	2	9	6	8	4	10	73		
PRECIPITATION 1.00	1	0	0	2	0	1	1	2	2	1	0	1	11		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	13.6	4.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	18.5	49.7	
	GREATEST 24-HOUR (IN.)	4.3	4.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	9.3	9.3	
	DATE OF OCCURRENCE	21	29	01								07	29	DEC 29	
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	6	1	1	0	0	0	0	0	0	0	3	4	15		

PRECIPITATION (inches) 2012 WORCESTER (KORH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1983	4.85	4.67	7.84	8.59	5.97	2.56	1.32	6.26	1.38	5.77	8.75	6.37	64.33
1984	2.44	5.78	5.47	4.23	9.94	2.85	5.69	1.17	1.68	3.99	2.71	2.84	48.79
1985	1.16	2.72	2.89	1.26	5.46	5.24	6.35	3.74	3.77	3.12	6.41	1.93	44.05
1986	5.56	3.14	2.93	1.59	3.14	7.21	4.83	3.20	0.69	2.72	5.63	7.25	47.89
1987	5.52	0.25	6.57	8.79	1.55	4.55	0.74	4.61	6.37	4.18	2.77	1.85	47.75
1988	2.71	2.78	3.46	3.45	4.47	1.25	6.27	2.19	2.70	3.66	7.91	1.42	42.27
1989	1.18	2.47	2.66	4.25	6.17	5.27	5.67	5.65	4.71	8.21	4.00	0.74	50.98
1990	3.75	3.88	1.52	4.78	7.65	1.74	2.44	6.84	1.73	10.19	2.41	5.46	52.39
1991	2.98	2.08	4.92	5.04	4.16	3.06	2.78	8.01	6.40	3.44	5.47	2.89	51.23
1992	3.01	2.51	4.15	2.59	2.54	4.68	5.25	4.83	3.58	2.36	4.94	4.61	45.05
1993	2.56	2.38	5.46	4.00	1.79	2.36	3.34	1.90	8.85	3.88	4.85	5.11	46.48
1994	4.78	1.86	5.38	2.73	5.87	2.48	3.09	7.64	4.84	1.24	4.54	4.81	49.26
1995	3.71	2.86	1.85	2.19	2.39	1.51	4.33	2.02	3.15	8.65	4.61	1.04	38.31
1996	6.30	2.66	2.20	6.70	3.34	3.01	6.50	3.99	6.07	5.81	2.93	6.91	56.42
1997	3.25	1.71	4.66	3.22	2.72	1.60	2.97	4.34	1.44	2.11	5.50	2.32	35.84
1998	4.59	3.17	5.82	3.30	5.89	9.68	1.76	2.38	1.69	4.93	2.28	1.46	46.95
1999	6.01	3.38	4.09	0.92	2.77	0.32	4.14	1.87	8.81	3.57	3.38	2.55	41.81
2000	3.11	2.59	3.82	6.85	3.51	5.84	4.04	2.09	3.01	2.05	3.61	3.62	44.14
2001	1.64	2.40	6.53	0.75	2.26	6.27	1.91	2.31	3.42	0.70	1.36	2.77	32.32
2002	2.36	1.43	4.21	3.67	5.55	4.83	2.65	2.94	3.97	4.39	3.83	4.24	44.07
2003	2.36	4.43	4.06	3.43	4.12	6.16	3.06	5.34	4.25	5.41	2.19	5.71	50.52
2004	1.43	1.45	3.35	6.57	3.23	1.45	4.84	5.07	7.52	2.22	3.93	4.78	45.84
2005	5.84	3.03	4.18	6.49	3.71	1.77	5.02	2.64	2.83	15.56	4.77	3.74	59.58
2006	5.23	3.51	0.50	2.35	6.64	6.91	3.22	4.07	2.37	6.91	7.09	2.49	51.29
2007	3.11	1.73	4.70	8.30	5.12	2.16	4.30	1.01	1.98	3.12	3.24	4.57	43.34
2008	2.45	9.68	5.62	4.24	2.45	5.55	7.97	3.53	9.22	2.62	4.25	5.63	63.21
2009	3.49	1.91	2.81	3.80	2.96	6.51	10.81	2.81	1.87	5.02	3.41	4.68	50.08
2010	3.29	4.77	10.24	1.37	2.86	4.02	2.59	4.36	2.27	6.20	4.26	5.15	51.38
2011	4.10	5.30	3.99	5.54	3.85	6.91	2.20	12.21	7.26	6.36	4.27	5.16	67.15
2012	3.03	1.42	1.66	3.12	4.00	5.53	3.16	6.70	4.80	4.16	1.19	5.11	43.88
POR= 64 YRS	3.67	3.25	4.10	4.02	4.00	3.87	3.89	4.19	4.05	4.35	4.33	4.01	47.73

WBAN : 94746

AVERAGE TEMPERATURE (°F) 2012 WORCESTER (KORH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1983	26.1	29.1	36.6	46.6	54.7	67.9	72.3	70.2	64.9	50.3	42.0	27.3	49.0
1984	22.7	34.0	29.2	45.6	55.4	68.1	70.0	71.4	59.6	53.9	41.1	34.9	48.8
1985	20.1	28.6	37.2	47.4	57.8	61.4	70.4	67.9	62.0	51.7	40.9	25.3	47.6
1986	25.9	23.1	36.4	48.1	57.9	62.6	68.2	66.8	59.4	49.6	37.1	30.3	47.1
1987	24.0	24.5	36.8	45.7	57.6	65.8	70.7	66.6	60.6	48.8	39.4	30.8	47.6
1988	23.0	26.6	35.0	43.8	57.3	64.6	72.6	72.3	60.2	45.5	41.7	27.2	47.5
1989	28.5	24.4	33.0	42.4	57.0	64.0	68.7	67.3	60.6	50.7	36.5	15.1	45.7
1990	31.3	28.8	36.2	43.9	51.5	64.6	69.2	68.8	59.3	53.0	42.1	34.0	48.6
1991	23.8	30.3	36.5	48.2	61.2	64.7	70.0	69.1	58.7	51.9	40.2	29.7	48.7
1992	25.3	27.1	30.7	42.3	55.5	63.5	65.9	65.5	59.2	46.8	37.8	28.7	45.7
1993	26.0	19.6	31.3	45.7	57.8	64.5	70.4	70.0	59.5	47.2	39.7	28.9	46.7
1994	15.9	21.1	33.5	47.7	54.3	67.2	72.9	66.3	59.0	50.9	43.5	33.3	47.1
1995	29.8	23.0	36.1	42.6	54.4	65.5			59.4	53.5	35.5	24.1	
1996	23.4	24.9	31.6	45.3	54.9	65.9		68.9	61.1	49.7	35.9	33.2	
1997	23.6	0.0	31.9	43.5	52.2	65.8	69.1	67.6	60.3	48.8	36.2	30.0	44.1
1998		32.9	37.0	47.2	59.7	62.9	70.0	70.3	63.1	50.3	40.2	35.7	
1999	26.0	31.3	36.3	46.7	58.1	68.2	72.4	68.5	64.6	49.1	44.5	32.9	49.9
2000	23.0	30.0	40.4	44.7	56.2	64.6	66.5	66.9	59.5	50.1	39.2	23.7	47.1
2001	24.7	26.1	31.1	46.8	58.1	67.0	66.6	72.2	62.2	52.5	44.5	35.4	48.9
2002	31.8	32.1	36.0	47.7	54.2	63.4	70.8	71.1	64.7	47.7	37.6	28.1	48.8
2003	17.7	21.6	35.0	42.5	54.0	63.8	70.6	70.7	62.5	48.7	43.4	31.3	46.8
2004	15.1	27.4	35.9	47.3	58.4	64.1	69.0	68.9	62.7	49.9	40.6	29.4	47.4
2005	22.2	28.6	30.9	49.3	51.4	68.6	71.5	72.5	65.4	51.5	42.1	27.2	48.4
2006	32.4	26.6	35.7	49.3	55.6	66.1	73.4	68.7	60.8	50.0	45.9	36.4	50.1
2007	28.4	20.7	33.5	43.4	59.4	65.4	71.0	70.1	64.4	56.5	38.2	27.5	48.2
2008	27.9	26.9	34.3	49.4	55.0	67.8	72.6	68.1	63.4	49.8	38.5	29.2	48.6
2009	18.9	28.2	35.3	48.4	57.1	61.9	66.8	70.4	60.0	47.9	44.6	27.9	47.3
2010	24.5	27.7	41.1	51.2	60.6	67.5	74.1	70.1	63.8	50.2	40.3	26.8	49.8
2011	21.9	25.0	34.2	47.4	58.1	64.6	73.1	69.5	64.6	46.8	36.1	36.1	49.8
2012	29.2	33.0	43.9	49.2	60.9	64.9	73.3	71.9	61.7	53.0	39.2	34.2	51.2
POR= 64 YRS	24.0	25.9	34.0	45.5	56.1	64.7	70.2	68.6	60.7	50.4	40.0	28.8	47.4

HEATING DEGREE DAYS (base 65°F) 2012 WORCESTER (KORH)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84	5	20	115	459	682	1163	1303	892	1099	577	300	54	6669
1984-85	9	1	184	338	713	928	1382	1011	855	518	230	121	6290
1985-86	2	25	128	406	713	1223	1206	1166	879	501	262	119	6630
1986-87	48	49	182	471	830	1069	1266	1130	867	571	273	58	6814
1987-88	9	56	152	495	761	1052	1298	1107	922	629	253	115	6849
1988-89	19	32	155	597	693	1166	1123	1129	984	674	257	90	6919
1989-90	7	38	172	436	846	1540	1035	1006	884	632	413	58	7067
1990-91	22	30	192	379	683	957	1270	965	877	501	167	80	6123
1991-92	13	16	222	402	739	1090	1222	1092	1056	676	321	82	6931
1992-93	40	55	203	558	810	1117	1204	1259	1039	574	229	74	7162
1993-94	10	5	201	545	754	1115	1515	1226	968	515	337	49	7240
1994-95	5	48	182	431	636	975	1086	1170	887	667	329	58	6474
1995-96			191	352	877	1260	1279	1158	1031	587	331	36	
1996-97		14	159	467	863	980	1277		1020	638	394	93	
1997-98	15	18	158	498	858	1079		891	872	527	180	111	
1998-99	3	8	98	450	736	902	1201	938	882	540	226	39	6023
1999-00	7	27	91	486	609	989	1295	1008	758	602	289	100	6261
2000-01	26	38	190	455	769	1273	1243	1081	1045	544	258	44	6966
2001-02	38	1	117	391	608	910	1022	913	892	527	337	125	5881
2002-03	13	28	73	537	816	1137	1456	1209	925	667	337	104	7302
2003-04	4	16	91	497	641	1040	1540	1083	897	526	220	88	6643
2004-05	11	22	94	459	728	1095	1320	1014	1047	466	411	61	6728
2005-06	14	0	59	420	682	1163	1005	1069	900	465	313	76	6166
2006-07	0	33	144	458	568	883	1129	1233	969	643	212	82	6354
2007-08	14	29	81	282	796	1155	1141	1098	948	464	303	39	6350
2008-09	1	10	101	468	790	1104	1421	1024	913	510	252	111	6705
2009-10	31	29	165	520	610	1148	1248	1039	731	408	184	48	6161
2010-11	6	16	103	455	731	1181	1330	1114	948	521	259	89	6753
2011-12	1	5	82		535	889	1102	920	646	475	170	82	
2012-	2	0	134	363	766	950							

WBAN : 94746

COOLING DEGREE DAYS (base 65°F) 2012 WORCESTER (KORH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1983	0	0	0	4	4	138	238	188	118	11	0	0	701
1984	0	0	0	2	10	156	171	209	30	0	0	0	578
1985	0	0	0	0	15	22	177	120	47	0	0	0	381
1986	0	0	0	0	50	54	151	111	21	2	0	0	389
1987	0	0	0	0	49	90	193	110	25	0	0	0	467
1988	0	0	0	0	24	112	260	266	17	1	0	0	680
1989	0	0	0	0	16	70	131	116	47	0	0	0	380
1990	0	0	0	6	0	52	159	153	25	10	0	0	405
1991	0	0	0	4	57	79	173	149	40	2	0	0	504
1992	0	0	0	0	30	44	75	78	37	0	0	0	264
1993	0	0	0	0	12	67	181	163	44	0	0	0	467
1994	0	0	0	0	12	122	260	97	9	0	0	0	500
1995	0	0	0	0	6	77			29	3	0	0	
1996	0	0	0	2	23	70		143	47	0	0	0	
1997	0		0	0	0	123	148	106	25	2	0	0	
1998		0	10	0	21	58	165	181	47	0	0	0	
1999	0	0	0	0	19	142	245	140	86	0	0	0	632
2000	0	0	0	0	22	95	82	104	31	1	0	0	335
2001	0	0	0	4	51	109	95	232	41	7	0	0	539
2002	0	0	0	16	10	82	199	226	70	6	0	0	609
2003	0	0	0	0	4	76	185	200	23	0	0	0	488
2004	0	0	0	1	23	66	143	149	33	0	0	0	415
2005	0	0	0	2	0	177	219	242	80	8	0	0	728
2006	0	0	0	0	29	113	271	155	24	1	0	0	593
2007	0	0	0	4	45	103	206	195	70	27	0	0	650
2008	0	0	0	2	2	128	245	112	60	0	0	0	549
2009	0	0	0	18	15	25	94	202	20	0	0	0	374
2010	0	0	0	1	53	126	294	178	76	2	0	0	730
2011	0	0	0	0	51	85	261	152	77		0	0	
2012	0	0	2	8	51	87	264	219	43	0	0	0	674

SNOWFALL (inches) 2012 WORCESTER (KORH)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84	0.0	0.0	0.0	T	1.1	17.2	24.1	3.3	30.9	T	T	0.0	76.6
1984-85	0.0	0.0	0.0	0.0	T	7.0	9.7	11.0	7.2	4.9	0.0	0.0	39.8
1985-86	0.0	0.0	0.0	0.0	6.9	9.1	5.8	14.5	2.3	0.1	0.3	0.0	39.0
1986-87	0.0	0.0	0.0	0.0	11.5	4.9	46.8	3.0	6.4	21.0	0.0	0.0	93.6
1987-88	0.0	0.0	0.0	0.0	10.2	12.9	25.2	15.8	6.4	0.6	0.0	0.0	71.1
1988-89	0.0	0.0	0.0	0.4	T	5.0	2.8	7.7	8.5	3.7	0.0	0.0	28.1
1989-90	0.0	0.0	0.0	0.0	7.9	10.2	11.3	15.2	6.4	2.1	0.0	T	53.1
1990-91	0.0	0.0	0.0	0.0	0.7	5.0	11.3	9.1	9.3	0.2	0.0	0.0	35.6
1991-92	0.0	0.0	0.0	0.0	5.8	14.5	2.7	8.4	11.8	2.7	0.0	0.1	46.0
1992-93	0.0	0.0	T	0.0	1.9	37.0	14.6	19.7	44.1	2.8	0.0	T	120.1
1993-94	0.0	0.0	0.0	T	0.2	12.9	34.1	25.9	27.1	0.0	T	0.0	100.2
1994-95	0.0	T	T	0.0	2.9	3.2	4.5	14.3	T	T	0.0	0.0	24.9
1995-96	0.0	0.0	0.0	0.0									
1996-97													
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03							22.0	38.9	8.3	5.1	0.0	0.0	
2003-04	0.0	0.0	0.0	1.5	T	21.5	13.0	5.9	7.6	T	0.0	0.0	49.5
2004-05	0.0	0.0	0.0	0.0	3.0	11.9	50.9	23.9	24.6	0.0	0.0	T	114.3
2005-06	0.0	0.0	0.0	T	3.2	18.0	24.1	18.9	T	1.5	0.0	0.0	65.7
2006-07	0.0	0.0	0.0	0.0	0.0	1.1	3.9	20.8	20.8	2.5	0.0	0.0	49.1
2007-08	0.0	0.0	0.0	0.0	0.7	27.1	12.3	22.6	7.4	0.0	0.0	0.0	70.1
2008-09	0.0	0.0	0.0	T	T	31.4	24.7	7.7	13.1	T	0.0	0.0	76.9
2009-10	0.0	0.0	0.0	2.4	T	20.7	18.8	20.9	1.8	0.0	0.0	0.0	64.6
2010-11	0.0	0.0	T	T	T	14.0	48.4	23.0	3.4	3.8	0.0	0.0	92.6
2011-12	0.0	0.0	0.0	16.0	T	0.3	13.6	4.7	5.1	0.0	0.0	0.0	39.7
2012-	0.0	0.0	0.0	0.0	7.8	18.5							
POR= 64 YRS	0.0	T	T	0.4	2.7	11.6	15.7	14.9	11.4	2.7	0.2	T	59.6

WBAN : 94746

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 WORCESTER MASSACHUSETTS (KORH)

Worcester Municipal Airport is located on the crest of a hill, 1,000 feet above sea level. It is about 500 feet above and 3 1/2 miles northwest of the city proper. The airport is surrounded by ridges and valleys with many of the valleys containing reservoirs. Only two of the ridges extend above the airport elevation. One is 400 feet higher and 2 1/2 miles to the northwest, and the other is 1,000 feet higher and 15 miles to the north.

The proximity to the Atlantic Ocean, Long Island Sound, and the Berkshire Hills plays an important part in determining the weather and, hence, the climate of Worcester. Rapid weather changes occur when storms move up the east coast after developing off the Carolina Coast. In the majority of these cases, they pass to the south and east, resulting in northeast and easterly winds with rain or snow and fog. Storms developing in the Texas-Oklahoma area normally travel up the St. Lawrence River Valley and, depending on the movement and intensity, usually deposit little precipitation over the area. However, they do bring an influx of warm air into the region. Wintertime cold snaps are quite frequent, but temperatures are usually modified by the passage of the air over land and mountains before reaching the county. Summertime thunderstorms develop over the hills to the west, with a majority moving toward the northeast. From the use of radar, we find many break up just before reaching Worcester, or pass either north or south of the city proper.

Airport site temperatures are moderate. The normal mean for the warmest month, July, is around 70 degrees. Though winters are reasonably cold, prolonged periods of severe cold weather are extremely rare. The three coldest months, December through February, have an average temperature of over 25 degrees. A review of Worcester Cooperative records since 1901 shows maximum temperatures above 100 degrees and minimum temperatures below -24 degrees.

Precipitation is usually plentiful and well distributed throughout the year. The annual snowfall for all Worcester sites since 1901, averages slightly less than 60 inches. The airport location averages slightly higher.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 17 and the average last occurrence in the spring is April 27.

Station History

WORCESTER, MA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
WORCESTER REGIONAL AP	1995-07-01	2009-10-09	42° 16'	-71° 52'	986		ASOS, COOP
WORCESTER REGIONAL AP	1946-05-01	1947-01-01	42° 16'	-71° 52'			AIRWAYS
WORCESTER MUNICIPAL AP	1977-01-01	1981-12-31	42° 16'	-71° 52'	986		AIRWAYS, COOP, WXSVC
WORCESTER REGIONAL AP	1947-01-01	1947-11-29	42° 16'	-71° 52'	986		AIRWAYS
WORCESTER AP	1948-06-01	1954-04-27	42° 16'	-71° 52'	986		AIRWAYS, COOP
WORCESTER MUNICIPAL AP	1954-04-27	1973-01-01	42° 16'	-71° 52'	986		AIRWAYS, COOP
WORCESTER MUNICIPAL AP	1973-01-01	1977-01-01	42° 16'	-71° 52'	986		COOP, WXSVC
WORCESTER MUNICIPAL AP	1981-12-31	1995-07-01	42° 16'	-71° 52'	986		COOP
WORCESTER AP	1947-11-29	1948-06-01	42° 16'	-71° 52'	986		AIRWAYS
WORCESTER REGIONAL AP	2009-10-09	Present	42° 16'	-71° 52'	1000		ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1946-05-01	1956-05-01	DAILY	2400			
PRECIP	1989-06-01	1995-07-01	DAILY	2400	TB	RCRD	
PRECIP	2009-10-09	Present	HOURLY	2400	AWPAG	RCRD;HTD	
TEMP	2009-10-09	Present	DAILY	2400	HYGR		
PRECIP	1946-05-01	1956-05-01	DAILY	2400	TB	RCRD	
PRECIP	1956-05-01	1989-06-01	DAILY	2400	TB	RCRD	
PRECIP	1956-05-01	1989-06-01	HOURLY	2400			
TEMP	1995-07-01	2009-10-09	DAILY	2400	HYGR		
PRECIP	1995-07-01	2009-10-09	DAILY	2400		RCRD	
TEMP	1989-06-01	1995-07-01	DAILY	2400	HYGR		
PRECIP	2009-10-09	Present	DAILY	2400	PCPNX		
TEMP	1956-05-01	1989-06-01	DAILY	2400			
PRECIP	1989-06-01	1995-07-01	HOURLY	2400			
PRECIP	1995-07-01	2009-10-09	HOURLY	2400	TB	RCRD	

* 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

Visit our Web Site for other weather data: www.ncdc.noaa.gov