

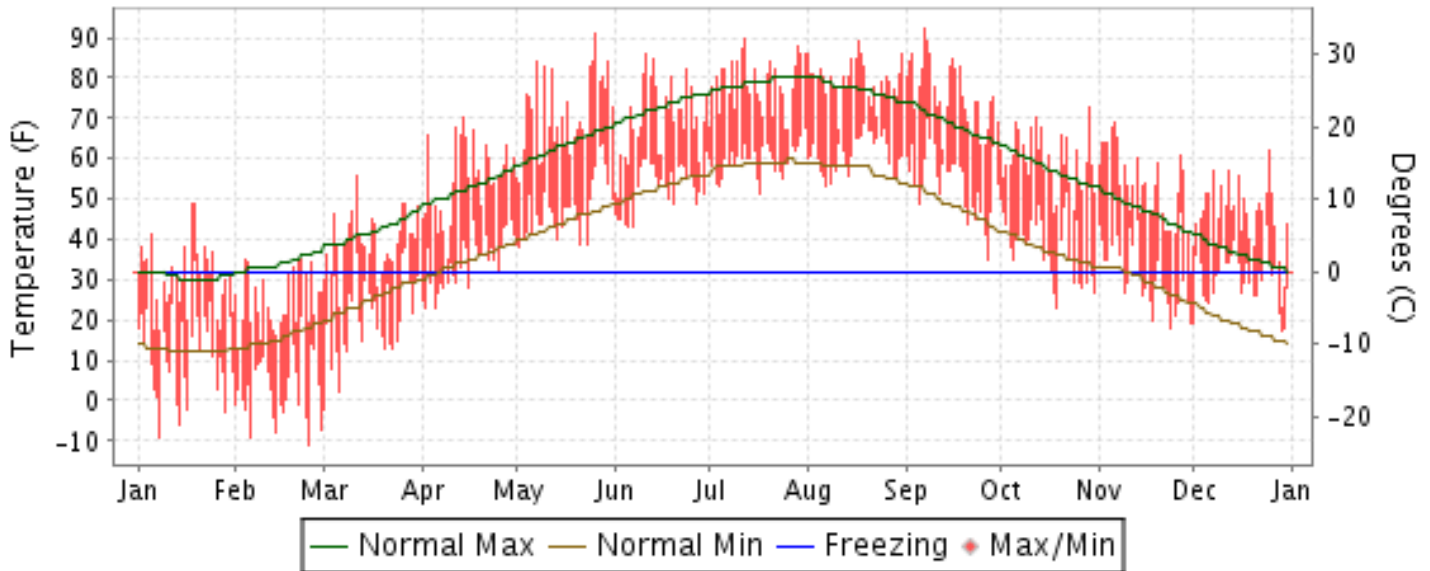


2015 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

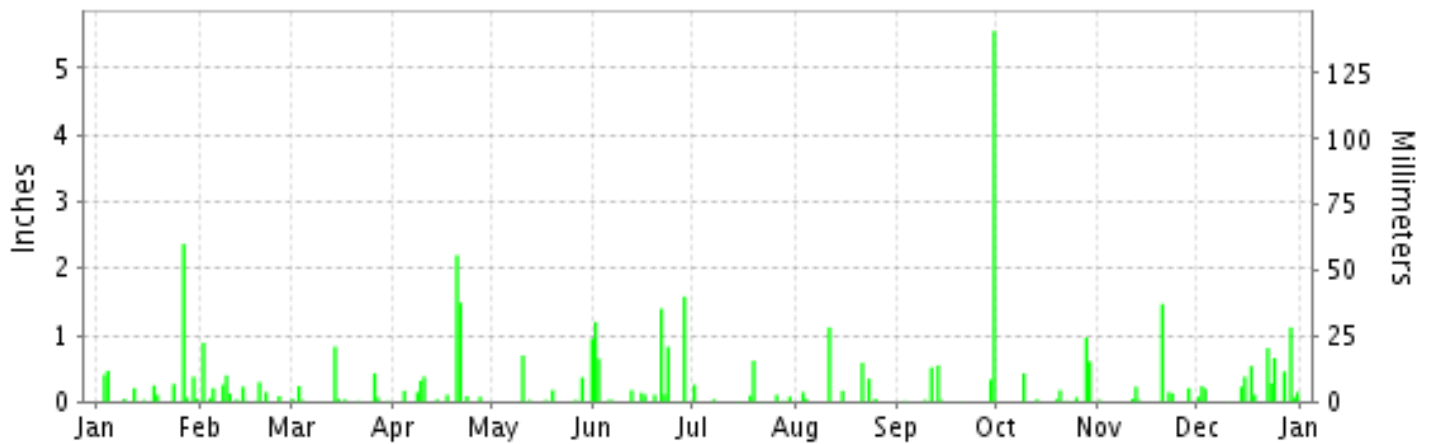
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PORTLAND, MAINE (KPWM)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ENVIRONMENTAL SATELLITE, DATA
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NATIONAL CENTERS for
ENVIRONMENTAL INFORMATION (NCEI)
ASHEVILLE, NORTH CAROLINA

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METEOROLOGICAL DATA FOR 2015

PORTLAND (KPWM)

LATITUDE: 43° 38'N LONGITUDE: 70° 18'W ELEVATION (FT): GRND: 45 BARO: 72 TIME ZONE: EASTERN (UTC -5) WBAN: 14764

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	30.5	24.6	39.4	54.9	71.4	69.7	78.5	79.4	76.1	59.5	53.0	45.8	56.9	
	HIGHEST DAILY MAXIMUM	49	35	56	70	91	86	90	89	92	73	69	62	92	
	DATE OF OCCURRENCE	19+	22+	11	14	26	11	12	17	07	30+	06	25	SEP 07	
	MEAN DAILY MINIMUM	11.6	3.0	21.0	34.4	47.6	53.1	59.6	61.2	54.5	38.6	32.1	30.0	37.2	
	LOWEST DAILY MINIMUM	-9	-11	-2	23	38	43	51	53	35	23	18	17	-11	
	DATE OF OCCURRENCE	08	24	01	05+	02	07+	17	07	27	19	24	29	FEB 24	
	AVERAGE DRY BULB	21.1	13.8	30.2	44.7	59.5	61.4	69.1	70.3	65.3	49.0	42.5	37.9	47.1	
	MEAN WET BULB	18.8	12.5	26.5	39.4	52.6	56.5	63.7	65.5	60.3	44.7	39.2	35.7	43.0	
	MEAN DEW POINT	9.4	3.0	15.4	30.9	46.0	52.7	60.4	62.6	56.6	39.3	33.9	31.9	36.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	0	0	1	0	1	0	0	0	3
	MAXIMUM <= 32°	19	22	5	0	0	0	0	0	0	0	0	1	2	49
MINIMUM <= 32°	30	28	28	12	0	0	0	0	0	0	9	17	19	143	
MINIMUM <= 0°	5	13	1	0	0	0	0	0	0	0	0	0	0	19	
H/C	HEATING DEGREE DAYS	1355	1427	1070	602	206	144	10	0	81	488	667	831	6881	
	COOLING DEGREE DAYS	0	0	0	0	40	43	143	169	97	0	0	0	492	
RH	MEAN (PERCENT)	60	59	55	61	65	76	77	79	76	71	73	81	69	
	HOUR 01 LST	63	65	62	71	76	85	90	92	90	82	81	85	79	
	HOUR 07 LST	66	65	55	60	64	76	76	80	77	73	81	86	72	
	HOUR 13 LST	51	47	46	49	49	63	61	64	57	55	56	70	56	
	HOUR 19 LST	60	59	56	62	66	76	79	82	80	74	74	84	71	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	2	0	0	3	1	6	7	1	1	0	6	28	
	THUNDERSTORMS	0	0	0	1	2	2	3	3	1	0	0	0	12	
PR	MEAN STATION PRESS. (IN.)	29.95	29.94	29.95	29.88	30.01	29.91	29.82	29.89	30.00	30.00	30.08	29.99	29.95	
	MEAN SEA-LEVEL PRESS. (IN.)	30.03	30.02	30.02	29.95	30.08	29.98	29.89	29.96	30.07	30.07	30.15	30.07	30.02	
WINDS	RESULTANT SPEED (MPH)	5.2	4.7	5.5	1.9	2.4	1.0	1.0	2.2	0.7	2.0	2.5	2.2	1.9	
	RES. DIR. (TENS OF DEGS.)	30	33	29	31	20	18	23	20	23	29	28	32	29	
	MEAN SPEED (MPH)	8.9	8.3	9.6	8.9	8.0	6.9	5.8	5.8	6.1	7.3	6.6	5.6	7.3	
	PREVAIL.DIR.(TENS OF DEGS.)	32	02	32	33	19	19	18	18	19	29	01	35	32	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	39	35	39	30	30	26	23	35	28	30	26	28	39	
	DIR. (TENS OF DEGS.)	29	31	32	33	27	06	10	32	03	16	25	34	32	
	DATE OF OCCURRENCE	05	16	17	04	12	28	29	04	30	29	13	28	MAR 17	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	51	46	53	42	43	36	29	43	38	48	38	40	53	
DIR. (TENS OF DEGS.)	28	31	30	30	26	06	25	01	02	16	28	33	30		
DATE OF OCCURRENCE	05	15	17	04	12	28	02	15	30	29	13	28	MAR 17		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	4.67	2.81	1.79	5.03	2.31	6.40	1.26	2.49	7.06	2.36	2.30	5.34	43.82	
	GREATEST 24-HOUR (IN.)	2.37	0.89	0.88	3.69	0.95	1.58	0.62	1.12	5.90	1.58	1.47	1.13	5.90	
	DATE OF OCCURRENCE	27	02	14-15	20-21	31	28	19	11	29-30	28-29	20	29-30	SEP 29-30	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	12	14	11	10	9	14	10	8	8	8	8	15	127		
PRECIPITATION 0.10	8	8	3	7	4	10	4	5	4	4	5	12	74		
PRECIPITATION 1.00	1	0	0	2	0	3	0	1	1	0	1	1	10		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	40.7	34.2	2.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	T	7.3	87.5	
	GREATEST 24-HOUR (IN.)	22.2	9.1	1.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	T	7.0	22.2	
	DATE OF OCCURRENCE	27	02	03	09							23	29	JAN 27	
	MAXIMUM SNOW DEPTH (IN.)	18	25	22	7	0	0	0	0	0	0	0	6	25	
	DATE OF OCCURRENCE	31	19	04+	02+								30	FEB 19	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	8	10	1	2	0	0	0	0	0	0	0	1	22		

NORMALS, MEANS, AND EXTREMES PORTLAND (KPWM)

LATITUDE: 43° 38'N LONGITUDE: 70° 18'W ELEVATION (FT): GRND: 45 BARO: 72 TIME ZONE: EASTERN (UTC -5) WBAN: 14764

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	31.2	34.6	42.1	53.3	63.5	73.2	78.8	77.7	70.0	58.7	48.0	37.3	55.7
	MEAN DAILY MAXIMUM	96	31.1	32.4	41.2	51.9	63.1	71.7	78.4	77.0	68.9	58.9	47.0	35.9	54.8
	HIGHEST DAILY MAXIMUM	75	67	64	88	92	94	98	100	103	95	88	74	71	103
	YEAR OF OCCURRENCE		2007	1957	1998	2009	1987	1991	2011	1975	1983	1963	2003	2001	AUG 1975
	MEAN OF EXTREME MAXS.	96	49.6	50.1	59.7	72.9	83.4	89.1	91.7	90.1	86.1	75.6	64.9	54.6	72.3
	NORMAL DAILY MINIMUM	30	13.4	16.4	24.9	34.7	44.2	53.6	59.4	58.2	50.3	38.9	30.9	20.4	37.1
	MEAN DAILY MINIMUM	96	13.2	14.4	24.4	33.8	43.8	52.3	58.8	57.5	49.3	39.5	30.4	19.1	36.4
	LOWEST DAILY MINIMUM	75	-26	-39	-21	8	23	33	40	33	23	15	3	-21	-39
	YEAR OF OCCURRENCE		1971	1943	1950	1954	1956	1944	1965	1965	1941	1976	1989	1963	FEB 1943
	MEAN OF EXTREME MINS.	96	-8.3	-5.7	4.3	22.2	31.2	41.1	48.5	45.4	34.3	24.2	15.3	-0.7	21.0
	NORMAL DRY BULB	30	22.3	25.5	33.5	44.0	53.9	63.4	69.1	68.0	60.1	48.8	39.4	28.8	46.4
	MEAN DRY BULB	96	22.2	23.4	32.8	42.9	53.4	62.1	68.6	67.3	59.1	49.2	38.7	27.5	45.6
	MEAN WET BULB	32	18.5	20.1	27.1	37.1	47.4	56.9	62.6	61.9	55.0	44.3	34.3	25.0	40.9
	MEAN DEW POINT	32	15.7	16.7	24.5	34.3	45.3	55.0	61.1	60.5	53.5	42.3	32.1	22.0	38.6
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.2	0.7	1.5	1.1	0.3	0.0	0.0	0.0	3.8
	MAXIMUM <= 32	30	16.3	10.1	3.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	8.7	39.8
	MINIMUM <= 32	30	29.6	25.8	23.7	10.4	0.8	0.0	0.0	0.0	0.2	6.8	17.7	27.2	142.2
MINIMUM <= 0	30	3.9	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	6.9	
H/C	NORMAL HEATING DEG. DAYS	30	1324	1106	976	630	353	106	17	28	176	503	767	1121	7107
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	7	57	144	120	30	1	0	0	359
RH	NORMAL (PERCENT)	30	68	65	66	67	72	73	74	76	76	74	71	69	71
	HOURLY 01 LST	30	72	70	73	76	83	86	87	88	87	83	77	75	80
	HOURLY 07 LST	30	75	73	74	72	76	78	80	83	86	84	80	77	78
	HOURLY 13 LST	30	59	55	56	55	59	61	60	60	61	58	59	59	59
	HOURLY 19 LST	30	66	64	66	66	70	72	73	76	78	75	71	69	71
S	PERCENT POSSIBLE SUNSHINE	55	56	60	56	55	54	60	63	64	63	57	48	53	57
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	52	2.0	2.4	3.3	2.4	4.0	4.7	5.4	5.1	4.2	3.5	2.7	2.3	42.0
	THUNDERSTORMS	68	0.1	0.1	0.3	0.5	1.9	3.6	4.2	3.2	1.3	0.5	0.3	0.1	16.1
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)						5.6	6.4							
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	1	4.0	2.0	7.0		7.0	6.0	1.0	9.0	3.0	8.0		5.0	
	PARTLY CLOUDY			1.0	3.0		4.0	5.0	1.0	1.0	2.0			4.0	
	CLOUDY	1	4.0	5.0	7.0		10.0	9.0	2.0	3.0	6.0	3.0		8.0	
PR	MEAN STATION PRESSURE(IN)	32	29.92	29.91	29.93	29.89	29.91	29.86	29.87	29.92	29.97	29.96	29.97	29.94	29.92
	MEAN SEA-LEVEL PRES. (IN)	32	29.99	29.98	30.00	29.96	29.98	29.93	29.94	29.99	30.04	30.03	30.04	30.01	29.99
WINDS	MEAN SPEED (MPH)	32	8.2	8.6	9.3	9.3	8.3	7.5	6.9	6.7	7.0	7.8	7.9	8.1	8.0
	PREVAIL.DIR(TENS OF DEGS)	38	28	33	33	19	19	19	19	19	19	28	36	35	19
	MAXIMUM 2-MINUTE: SPEED (MPH)	21	39	45	41	43	39	38	37	57	37	43	49	44	57
	DIR. (TENS OF DEGS)		29	00	11	07	07	33	29	28	30	07	36	03	28
	YEAR OF OCCURRENCE		2015	1995	1999	2007	2005	2006	2002	1998	2013	2012	2010	2002	AUG 1998
	MAXIMUM 3-SECOND SPEED (MPH)	21	54	67	54	59	51	46	47	61	47	63	72	54	72
	DIR. (TENS OF DEGS)		15	04	13	07	08	32	29	28	29	06	15	11	15
YEAR OF OCCURRENCE		2010	2010	2000	2007	2005	2006	2008	1998	2013	2012	1995	2012	NOV 1995	
PRECIPITATION	NORMAL (IN)	30	3.38	3.25	4.24	4.32	4.01	3.79	3.61	3.14	3.69	4.87	4.93	4.02	47.25
	MAXIMUM MONTHLY (IN)	75	11.92	8.06	11.24	9.90	12.34	9.18	8.60	15.22	10.84	16.83	13.50	9.69	16.83
	YEAR OF OCCURRENCE		1979	2008	2010	1973	2006	2006	2009	1991	2008	1996	1983	1969	OCT 1996
	MINIMUM MONTHLY (IN)	75	0.28	0.04	0.81	0.28	0.49	0.70	0.61	0.27	0.30	0.26	0.90	0.98	0.04
	YEAR OF OCCURRENCE		2004	1987	1965	1999	1965	1941	1965	1947	1948	1947	1976	1955	FEB 1987
	MAXIMUM IN 24 HOURS (IN)	75	3.56	4.24	3.47	5.26	4.66	5.58	3.01	7.83	7.49	13.32	5.25	3.82	13.32
	YEAR OF OCCURRENCE		1977	2010	1951	1973	1989	1967	2009	1991	1954	1996	2009	1969	OCT 1996
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	11.1	9.8	11.7	11.2	12.6	11.8	11.0	9.3	9.2	10.5	11.2	11.5	130.9
PRECIPITATION >= 1.00	30	0.8	0.8	0.9	1.0	0.8	0.9	0.8	0.7	1.1	1.2	1.3	1.2	11.5	
SNOWFALL	NORMAL (IN)	30	19.2	12.1	12.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	1.9	13.2	61.9
	MAXIMUM MONTHLY (IN)	74	62.4	61.2	49.0	15.9	7.0	T	T	0.0	T	5.2	20.5	54.8	62.4
	YEAR OF OCCURRENCE		1979	1969	1993	1982	1945	2011	2002		1992	2011	1997	1970	JAN 1979
	MAXIMUM IN 24 HOURS (IN)	74	27.1	21.5	18.6	15.9	7.0	T	T	0.0	T	3.6	11.1	22.8	27.1
	YEAR OF OCCURRENCE		1979	1969	1993	1982	1945	2011	2002		1992	1969	1972	1970	JAN 1979
	MAXIMUM SNOW DEPTH (IN)	63	31	31	33	17	1	0	0	0	0	4	10	40	40
	YEAR OF OCCURRENCE		1979	1967	1967	1956	1966					2011	1972	1970	DEC 1970
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	4.8	3.3	3.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.4	15.9	

PRECIPITATION (inches) 2015 PORTLAND (KPWM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986	6.58	2.61	4.21	3.49	2.51	3.91	3.44	1.87	2.64	2.09	5.18	5.91	44.44
1987	5.21	0.04	4.29	6.33	2.62	5.01	1.79	2.48	4.64	2.54	3.82	2.01	40.78
1988	1.97	3.34	1.85	3.68	4.27	2.36	5.89	5.24	1.50	3.47	8.84	1.21	43.62
1989	1.15	2.37	2.14	2.94	8.74	4.49	2.50	1.73	4.48	4.81	3.97	2.23	41.55
1990	3.19	2.49	1.42	5.16	5.23	4.12	3.21	1.89	3.12	7.46	7.50	7.90	52.69
1991	2.91	1.85	6.19	6.71	3.77	1.47	2.35	15.22	5.44	2.83	4.34	4.06	57.14
1992	4.80	3.42	3.93	2.47	1.15	3.99	4.06	2.59	3.11	2.48	4.39	2.12	38.51
1993	2.80	3.84	6.26	5.69	1.14	2.89	2.73	1.21	4.10	3.74	4.05	5.40	43.85
1994	5.34	1.29	6.71	2.94	4.87	1.25	1.73	2.82	6.60	0.63	3.67	6.20	44.05
1995	4.92	3.55	2.14	2.36	3.31	2.60	3.14	0.47	2.40	4.78	7.27	4.35	41.29
1996	5.30	3.03	2.68	6.44	3.72	1.80	6.19	0.50	3.55	16.86	1.79	6.53	58.39
1997	4.59	2.59	4.05	5.21	2.41	0.76	2.01	4.15	2.68	1.37	5.22	2.57	37.61
1998	4.83	5.72	4.23	3.36	3.83	9.01	2.92	4.03	3.02	10.45	1.80	1.56	54.76
1999	5.97	3.87	4.52	0.28	4.98	0.95	1.62	1.53	8.80	3.89	2.25	2.00	40.66
2000	3.41	2.90	3.66	5.44	3.07	2.06	4.03	1.81	2.46	3.17	4.19	4.49	40.69
2001	1.33	2.58	8.01	1.26	1.14	5.37	2.05	1.28	4.14	1.72	2.20	2.03	33.11
2002	2.98	2.48	4.18	3.85	4.42	4.38	3.33	1.28	3.58	4.17	5.08	4.51	44.24
2003	1.14	3.51	3.65	3.20	3.12	2.15	1.50	2.10	4.68	5.60	3.06	4.54	38.25
2004	0.28	1.94	1.94	6.46	4.69	2.19	3.83	6.14	3.24	2.19	4.04	4.28	41.22
2005	3.33	3.34	4.81	8.72	6.40	5.12	2.83	2.37	2.13	14.38	7.67	5.30	66.40
2006	3.71	2.74	1.02	3.02	12.34	9.18	5.65	2.37	3.57	8.38	5.50	3.36	60.84
2007	2.86	0.96	3.01	8.97	2.32	3.33	4.62	3.23	3.22	6.37	4.21	3.79	46.89
2008	3.21	8.06	5.54	4.47	1.09	3.88	4.71	6.28	10.84	3.19	5.35	4.62	61.24
2009	2.35	2.79	2.66	4.63	4.52	8.56	8.60	5.15	1.38	4.99	7.74	5.24	58.61
2010	2.86	6.23	11.24	1.50	1.77	3.47	4.06	2.95	2.30	7.10	5.00	4.03	52.51
2011	2.39	4.12	4.86	6.36	4.28	3.61	4.64	5.20	3.30	6.64	2.86	3.51	51.77
2012	4.29	1.47	2.05	4.84	5.91	8.63	4.31	6.21	3.80	3.64	1.02	8.30	54.47
2013	1.36	6.07	1.69	2.11	4.57	7.32	3.36	1.74	6.72	1.08	3.41	4.44	43.87
2014	4.05	4.27	4.31	2.72	3.87	4.30	6.12	8.56	0.87	6.57	3.96	6.27	55.87
2015	4.67	2.81	1.79	5.03	2.31	6.40	1.26	2.49	7.06	2.36	2.30	5.34	43.82
POR= 96 YRS	3.84	3.63	4.05	4.03	3.56	3.53	3.14	2.97	3.45	3.87	4.40	4.21	44.68

WBAN : 14764

AVERAGE TEMPERATURE (°F) 2015 PORTLAND (KPWM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986	25.0	23.4	34.6	46.5	53.6	60.9	66.3	66.2	57.4	47.9	36.3	29.6	45.6
1987	21.6	23.0	34.0	44.9	54.6	63.8	68.0	66.2	59.6	47.1	38.1	30.2	45.9
1988	21.6	25.7	34.2	43.5	54.7	63.8	71.1	71.1	59.4	46.5	41.0	26.0	46.6
1989	26.8	24.0	31.6	41.1	55.6	63.9	69.4	68.0	60.5	49.8	37.3	14.1	45.2
1990	30.2	25.7	34.7	44.6	51.8	62.4	70.3	69.8	59.8	52.4	41.8	33.7	48.1
1991	23.4	29.8	37.0	45.9	58.1	65.5	70.1	69.9	58.2	50.8	40.4	26.4	48.0
1992	23.9	25.9	30.9	41.4	51.9	63.4	65.8	66.8	58.9	47.3	37.6	28.9	45.2
1993	23.4	16.8	29.8	43.3	54.8	64.5	69.8	69.5	59.6	46.2	39.0	29.9	45.6
1994	14.0	19.6	33.5	44.5	52.3	66.0	72.4	66.4	58.4	49.5	41.5	31.5	45.8
1995	27.1	21.2	34.8	41.2	52.1	64.1	70.0	67.4	56.4	52.4	35.7	24.5	45.6
1996	21.4	23.9	29.8	42.9	52.5	63.0	66.4	67.4	59.8	46.8	35.1	34.5	45.3
1997	23.4	28.7	30.4	41.8	51.1	63.3	69.0	67.3	58.7	47.0	36.2	29.5	45.5
1998	27.1	31.3	36.7	45.8	56.8	60.7	69.5	69.5	61.2	49.2	39.4	32.5	48.3
1999	22.3	29.0	35.6	44.9	54.5	66.3	71.3	67.7	63.3	46.6	42.0	31.9	48.0
2000	21.5	26.4	37.8	43.3	53.2	63.7	67.1	67.3	59.9	48.9	40.4	24.6	46.2
2001	20.6	24.3	30.6	43.3	54.9	67.2	66.5	69.4	61.0	50.2	41.4	34.8	47.0
2002	30.4	28.8	34.9	44.4	52.5	61.4	69.5	70.1	63.1	47.0	37.0	27.4	47.2
2003	16.3	20.3	31.6	40.9	52.2	62.9	69.3	68.8	61.4	48.0	40.8	29.6	45.2
2004	15.0	25.9	34.9	44.5	54.2	60.5	66.9	67.8	60.9	49.7	38.9	28.0	45.6
2005	19.4	25.5	30.1	45.0	49.3	64.7	69.4	70.2	63.6	50.1	40.7	27.8	46.3
2006	30.2	25.8	34.5	45.7	54.6	65.0	72.0	67.0	60.3	49.0	43.8	34.5	48.5
2007	25.9	19.2	32.2	41.8	56.0	63.6	68.0	67.9	61.6	53.7	37.6	25.4	46.1
2008	26.6	25.9	31.9	44.8	54.2	64.5	70.7	66.2	60.4	48.8	39.3	28.6	46.8
2009	17.5	25.9	33.0	46.7	55.1	61.0	66.2	69.7	59.1	46.9	43.0	29.3	46.1
2010	25.0	30.8	39.9	48.8	57.9	64.6	72.3	69.3	63.4	49.4	40.0	29.2	49.2
2011	21.5	23.6	33.4	44.8	54.6	62.7	72.7	68.0	62.8	51.4	44.7	33.3	47.8
2012	26.9	30.6	41.2	47.0	56.6	63.3	71.3	70.8	59.9	52.9	38.0	32.0	49.2
2013	25.4	28.1	34.8	44.2	54.1	64.8	71.6	67.7	59.8	51.0	37.4	24.3	46.9
2014	21.4	22.1	27.0	43.3	54.7	64.1	69.8	66.7	60.1	54.5	38.8	33.7	46.4
2015	21.1	13.8	30.2	44.7	59.5	61.4	69.1	70.3	65.3	49.0	42.5	37.9	47.1
POR= 96 YRS	22.2	23.4	32.8	42.9	53.4	62.1	68.6	67.3	59.1	49.2	38.7	27.5	45.6

HEATING DEGREE DAYS (base 65°F) 2015 PORTLAND (KPWM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1987-88	20	58	171	548	798	1070	1339	1130	950	641	323	112	7160
1988-89	13	32	180	569	713	1201	1174	1141	1028	708	286	91	7136
1989-90	6	25	167	464	824	1573	1071	1093	935	607	402	107	7274
1990-91	12	24	170	388	690	964	1283	979	861	568	236	76	6251
1991-92	11	16	228	433	730	1191	1267	1127	1051	700	414	84	7252
1992-93	47	30	208	543	814	1112	1280	1344	1084	645	311	81	7499
1993-94	15	5	192	575	774	1080	1577	1266	968	609	389	61	7511
1994-95	1	35	201	472	697	1028	1167	1216	929	706	391	85	6928
1995-96	9	35	265	380	873	1248	1343	1181	1083	659	384	90	7550
1996-97	23	17	179	556	889	940	1284	1011	1065	689	424	135	7212
1997-98	11	21	192	554	857	1093	1164	938	872	569	264	143	6678
1998-99	3	9	124	482	761	1002	1314	1002	903	599	322	61	6582
1999-00	6	23	105	563	686	1020	1341	1113	838	645	361	112	6813
2000-01	11	18	184	491	729	1247	1371	1134	1060	643	330	57	7275
2001-02	32	15	140	456	702	928	1066	1006	927	609	380	149	6410
2002-03	23	21	103	563	830	1158	1501	1246	1028	717	391	114	7695
2003-04	9	22	110	521	719	1088	1541	1128	930	609	329	159	7165
2004-05	15	20	131	470	776	1140	1410	1099	1074	596	477	100	7308
2005-06	17	8	85	454	723	1146	1069	1089	937	575	324	64	6491
2006-07	0	43	149	491	630	940	1206	1276	1012	689	295	101	6832
2007-08	17	38	147	348	814	1219	1183	1126	1015	598	331	60	6896
2008-09	0	23	162	495	764	1121	1464	1087	986	544	315	120	7081
2009-10	41	27	183	557	651	1101	1234	952	773	478	235	78	6310
2010-11	9	9	112	481	737	1103	1341	1153	974	599	327	105	6950
2011-12	0	3	102	419	600	971	1174	993	732	536	264	116	5910
2012-13	0	0	166	369	802	1013	1221	1028	928	618	347	81	6573
2013-	7	11	186	428	819	1251							
2013-14	7	11	186	428	819	1251	1342	1195	1170	642	310	77	7438
2014-15	0	24	186	324	777	961	1355	1427	1070	602	206	144	7076
2015-	10	0	81	488	667	831							

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COOLING DEGREE DAYS (base 65°F) 2015 PORTLAND (KPWM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1986	0	0	0	0	8	23	93	96	19	0	0	0	239
1987	0	0	0	0	28	47	121	103	17	0	0	0	316
1988	0	0	0	0	11	85	209	227	17	2	0	0	551
1989	0	0	0	0	2	67	151	126	38	0	0	0	384
1990	0	0	0	0	0	34	181	179	19	7	0	0	420
1991	0	0	0	0	29	96	178	176	31	0	0	0	510
1992	0	0	0	0	13	43	76	93	30	0	0	0	255
1993	0	0	0	0	1	72	170	150	37	0	0	0	430
1994	0	0	0	0	1	101	237	89	10	0	0	0	438
1995	0	0	0	0	3	67	174	118	14	0	0	0	376
1996	0	0	0	0	5	38	75	99	29	0	0	0	246
1997	0	0	0	0	0	90	145	100	8	2	0	0	345
1998	0	0	2	0	15	21	152	154	17	0	0	0	361
1999	0	0	0	0	4	109	208	116	59	0	0	0	496
2000	0	0	0	0	1	76	81	97	37	1	0	0	293
2001	0	0	0	0	23	127	85	161	25	3	0	0	424
2002	0	0	0	0	0	49	169	183	55	14	0	0	470
2003	0	0	0	0	0	56	149	148	9	0	0	0	362
2004	0	0	0	0	1	31	80	114	16	0	0	0	242
2005	0	0	0	0	0	97	159	174	52	2	0	0	484
2006	0	0	0	0	9	73	224	110	16	0	0	0	432
2007	0	0	0	0	22	66	119	133	53	4	0	0	397
2008	0	0	0	0	4	48	183	67	29	0	0	0	331
2009	0	0	0	4	15	7	86	178	14	0	0	0	304
2010	0	0	0	0	22	73	240	152	72	0	0	0	559
2011	0	0	0	0	11	43	247	103	45	5	0	0	454
2012	0	0	0	1	10	70	202	188	21	0	0	0	492
2013	0	0	0	0	15	83	217	102	37	0	0	0	454
2014	0	0	0	0	0	56	159	83	45	8	0	0	351
2015	0	0	0	0	40	43	143	169	97	0	0	0	492

SNOWFALL (inches) 2015 PORTLAND (KPWM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1987-88	0.0	0.0	T	0.0	5.4	9.1	19.8	20.8	3.0	4.2	0.0	0.0	62.3
1988-89	0.0	0.0	0.0	T	T	3.5	4.0	13.8	8.9	0.7	0.0	0.0	30.9
1989-90	0.0	0.0	0.0	0.0	5.0	15.6	20.4	25.6	3.2	T	0.0	0.0	69.8
1990-91	0.0	0.0	T	0.0	0.2	6.8	13.4	6.3	5.7	T	0.0	0.0	32.4
1991-92	0.0	0.0	0.0	0.0	T	22.5	2.4	10.3	13.4	10.0	0.0	0.0	58.6
1992-93	0.0	0.0	T	T	2.8	2.1	17.1	33.5	49.0	11.1	0.0	0.0	115.6
1993-94	0.0	0.0	0.0	0.2	T	12.3	39.3	12.2	12.2	T	0.0	0.0	76.2
1994-95	0.0	0.0	0.0	0.0	2.5	2.0	15.7	17.3	1.1	T	0.0	0.0	38.6
1995-96	0.0	0.0	0.0	0.0	2.0	37.3	37.1	13.1	25.0	8.5	0.0	0.0	123.0
1996-97	0.0	0.0	0.0	0.0	2.9	1.4	15.9	6.2	15.5	1.4	0.0	0.0	43.3
1997-98	0.0	0.0	0.0	0.0	20.5	6.3	17.1	0.9	9.7	0.0	0.0	0.0	54.5
1998-99	0.0	0.0	0.0	0.0	T	11.7	19.2	5.1	17.5	0.0	0.0	0.0	53.5
1999-00	0.0	0.0	0.0	0.0	T	T	14.9	14.6	11.6	T	0.0	0.0	41.1
2000-01	0.0	0.0	0.0	T	T	18.8	15.5	24.2	40.5	0.3	0.0	0.0	99.3
2001-02	0.0	0.0	0.0	T	T	5.0	15.8	1.1	10.4	0.3	0.0	0.0	32.6
2002-03	T	0.0	0.0	0.0	4.1	17.4	18.7	16.8	2.4	4.5	0.0	0.0	63.9
2003-04	0.0	0.0	0.0	T	T	24.0	2.8	12.3	6.1	1.5	0.0	0.0	46.7
2004-05	0.0	0.0	0.0	0.0	T	8.8	37.3	23.5	32.5	T	0.0	0.0	102.1
2005-06	0.0	0.0	0.0	0.0	2.3	20.4	13.5	9.5	1.0	0.5	0.0	0.0	47.2
2006-07	0.0	0.0	0.0	0.0	0.0	4.6	6.8	14.3	14.1	15.1	0.0	0.0	54.9
2007-08	0.0	0.0	0.0	0.0	T	38.8	19.1	32.8	12.3	T	0.0	0.0	103.0
2008-09	0.0	0.0	0.0	T	T	27.2	28.0	15.3	10.6	0.0	0.0	0.0	81.1
2009-10	0.0	0.0	0.0	T	T	13.8	20.0	3.2	0.1	T	0.0	0.0	37.1
2010-11	0.0	0.0	0.0	0.0	0.1	13.1	29.1	27.0	3.4	6.0	0.0	T	78.7
2011-12	0.0	0.0	0.0	5.2	1.0	2.5	18.7	2.3	14.2	T	0.0	0.0	43.9
2012-13	0.0	0.0	0.0	0.0	2.9	24.8	7.3	49.6	13.2	0.2	0.0	0.0	98.0
2013-	0.0	0.0	0.0	0.0	0.5	26.2							
2013-14	0.0	0.0	0.0	0.0	0.5	26.2	17.6	34.2	3.7	1.2	T	0.0	83.4
2014-15	0.0	0.0	0.0	0.0	10.3	3.6	40.7	34.2	2.4	2.9	0.0	0.0	94.1
2015-	0.0	0.0	0.0	0.0	T	7.3							
POR= 78 YRS	T	0.0	T	0.2	3.1	14.2	19.9	17.8	12.1	3.1	0.1	T	70.5

WBAN : 14764

REFERENCE NOTES :

<p>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).</p> <p>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).</p> <p>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.</p> <p>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</p>	<p>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.</p> <p>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.</p>
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2015 PORTLAND MAINE (KPWM)

The Portland City Airport is located 2 3/4 miles west of the site of the former city office. The surrounding country is mostly open, rolling and sloping generally toward the Fore River, a body of brackish water about 1,000 feet wide at a distance of about 1/2 mile from the station and forming one boundary (north through east) of the field. The airport is about 5 1/2 miles west-northwest of the open ocean. A slight rise reaching an elevation of 100 feet, lying northwest of the field, cuts down the wind slightly from that direction. The older portion of the city is situated on a hill rising abruptly from sea level to 170 feet, 1 1/2 miles east of the airport and on the opposite side of the Fore River. A line of low hills southeast of the airport, near the ocean, which reach a maximum height of 160 feet, shuts off sight of the ocean from the airport. Sebago Lake with an area of 44 square miles is situated about 15 miles to the northwest and 45 miles farther are the White Mountains, averaging 3,000 to 5,000 feet in height.

As a rule, Portland has very pleasant summers and falls, cold winters with frequent thaws, and disagreeable springs. Very few summer nights are too warm and humid for comfortable sleeping. Autumn has the greatest number of sunny days and the least cloudiness. Winters are quite severe, but begin late and then extend deeply into the normal springtime.

Heavy seasonal snowfalls, over 100 inches, normally occur about each 10 years. True blizzards are very rare. The White Mountains, to the northwest, keep considerable snow from reaching the Portland area and also moderate the temperature. Normal monthly precipitation is remarkably uniform throughout the year.

Winds are generally quite light with the highest velocities being confined mostly to March and November. Even in these months the occasional northeasterly gales have usually lost much of their severity before reaching the coast of Maine.

Temperatures well below zero are recorded frequently each winter. Cold waves sometimes come in on strong winds, but extremely low temperatures are generally accompanied by light winds.

The average freeze-free season at the airport station is 139 days. Mid-May is the average occurrence of the last freeze in spring, and the average occurrence of the first freeze in fall is late September. The freeze-free period is longer in the city proper, but may be even shorter at susceptible places further inland.

Daily maximum temperatures at the present airport site agree closely with those near the former intown office, but minimum temperatures on clear, quiet mornings range as much as 15 degrees lower at the airport.

Station History

PORTLAND, ME

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
PORTLAND MUNICIPAL AP	1968-10-01	1969-09-01	43° 39'	-70° 19'	79		AIRWAYS, COOP, USHCN
PORTLAND WSFO AP	1931-08-01	1940-12-01	43° 39'	-70° 15'	47		AIRWAYS, COOP, USHCN
PORTLAND INTL JETPORT	2008-02-21	Present	43° 38'	-70° 18'	45		ASOS, COOP, USHCN
PORTLAND WSFO AP	1940-12-01	1948-01-01	43° 39'	-70° 19'	61	2.8 MI W	AIRWAYS, COOP, USHCN
PORTLAND WSFO AP	1871-01-15	1873-09-30	43° 39'	-70° 15'	30		COOP, USHCN
PORTLAND WSFO AP	1885-07-01	1931-08-01	43° 39'	-70° 15'	47	.1 MI WNW	COOP, USHCN
PORTLAND CITY AP	1948-01-01	1949-01-01	43° 39'	-70° 19'	69		AIRWAYS, COOP, USHCN
PORTLAND INTL JETPORT	1981-12-31	1982-01-01	43° 39'	-70° 19'	79		COOP, USHCN
PORTLAND INTL JETPORT	1991-07-03	1994-08-01	43° 39'	-70° 18'	45		COOP, USHCN
PORTLAND WSFO AP	1873-09-30	1874-12-01	43° 39'	-70° 15'	51	.1 MI NW	COOP, USHCN
PORTLAND CITY AP	1949-01-01	1968-10-01	43° 39'	-70° 19'	79		AIRWAYS, COOP, USHCN
PORTLAND WSFO AP	1874-12-01	1885-07-01	43° 39'	-70° 15'	32	.1 MI E	COOP, USHCN
PORTLAND INTL JETPORT	1973-01-01	1981-12-31	43° 39'	-70° 19'	79		COOP, USHCN, WXSVC
PORTLAND INTL JETPORT	1988-09-01	1991-07-03	43° 39'	-70° 19'	45	.3 MI SE	COOP, USHCN
PORTLAND INTL JETPORT	1994-08-01	2008-02-21	43° 38'	-70° 18'	45		ASOS, COOP, USHCN
PORTLAND INTL JETPORT	1969-09-01	1973-01-01	43° 39'	-70° 19'	79		AIRWAYS, COOP, USHCN
PORTLAND INTL JETPORT	1982-01-01	1988-09-01	43° 39'	-70° 19'	57		COOP, USHCN

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1978-11-01	1988-09-01	HOURLY	2400			
PRECIP	2009-02-19	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1931-08-01	1978-11-01	DAILY	2400	UNIV	RCRD	
PRECIP	1988-09-01	1994-08-01	HOURLY	2400			
TEMP	1995-07-01	2006-10-06	DAILY	2400	HYGR		
PRECIP	1995-07-01	2006-10-06	DAILY	2400	UNIV	RCRD	
PRECIP	2006-10-06	2008-02-21	DAILY	2400	UNIV	RCRD	
WIND	2008-02-21	2009-02-19	DAILY	2400	REMOTE		
PRECIP	1978-11-01	1988-09-01	DAILY	2400	UNIV	RCRD	
WIND	1994-08-01	1995-07-01	HOURLY	UNKN	ANEMCUP		
TEMP	1994-08-01	1995-07-01	DAILY	2400	HYGR		
WIND	2008-02-21	2009-02-19	HOURLY	UNKN	ANEMSONIC		
TEMP	2009-02-19	Present	DAILY	2400	ATEMP		
PRECIP	2009-02-19	Present	DAILY	2400	PCPNX		
DEWPNTTEMP	2009-02-19	Present	DAILY	2400	ATEMP		
TEMP	1931-08-01	1978-11-01	DAILY	2400			
PRECIP	1994-08-01	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	1988-09-01	1994-08-01	DAILY	2400	HYGR		
WIND	2006-10-06	2008-02-21	HOURLY	UNKN	ANEMSONIC		
TEMP	2006-10-06	2008-02-21	DAILY	2400	HYGR		
PRECIP	2006-10-06	2008-02-21	HOURLY	2400	UNIV	RCRD	
DEWPNTTEMP	2008-02-21	2009-02-19	DAILY	2400	ATEMP		
PRECIP	2008-02-21	2009-02-19	DAILY	2400	PCPNX		
WIND	2009-02-19	Present	DAILY	2400	REMOTE		
WIND	2009-02-19	Present	HOURLY	UNKN	ANEMSONIC		
TEMP	1978-11-01	1988-09-01	DAILY	2400			
PRECIP	1988-09-01	1994-08-01	DAILY	2400	UNIV	RCRD	
PRECIP	1994-08-01	1995-07-01	HOURLY	2400			
PRECIP	1995-07-01	2006-10-06	HOURLY	2400	UNIV	RCRD	
WIND	1995-07-01	2006-10-06	HOURLY	UNKN	ANEMCUP		
TEMP	2008-02-21	2009-02-19	DAILY	2400	ATEMP		
PRECIP	2008-02-21	2009-02-19	HOURLY	2400	UNIV	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>

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