

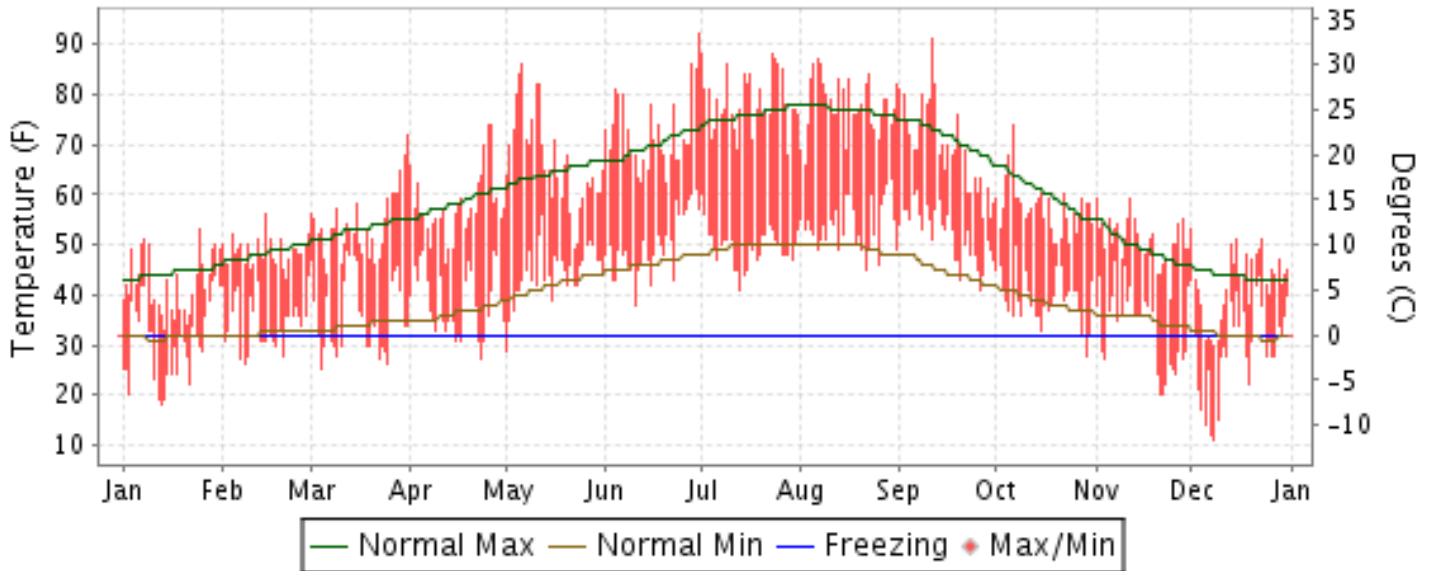


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

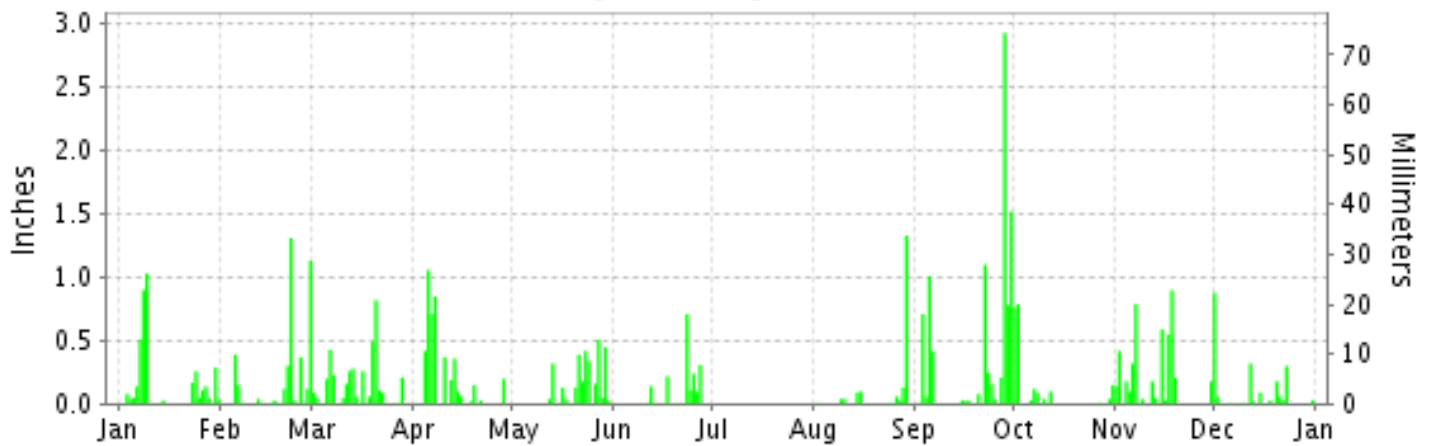
ISSN 0198-540X

OLYMPIA, WASHINGTON (KOLM)

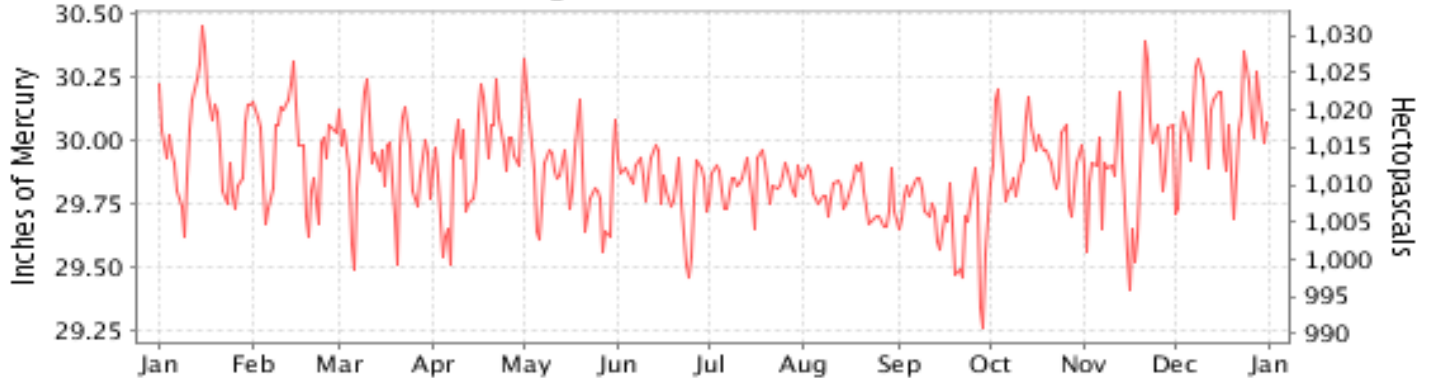
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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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 2013

OLYMPIA (KOLM)

LATITUDE: 46° 58'N LONGITUDE: 122° 54'W ELEVATION (FT): GRND: 188 BARO: 203 TIME ZONE: PACIFIC (UTC -8) WBAN: 24227

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	42.3	48.4	54.0	57.7	66.6	72.2	78.6	78.0	69.7	57.2	50.7	42.2	59.8	
	HIGHEST DAILY MAXIMUM	53	56	72	74	86	92	88	87	91	74	59	53	92	
	DATE OF OCCURRENCE	25	15	31	26+	06	30	23+	06	11	06	12+	01	JUN 30	
	MEAN DAILY MINIMUM	30.8	34.6	36.3	38.7	44.5	50.0	49.6	53.8	52.1	39.3	33.9	29.8	41.1	
	LOWEST DAILY MINIMUM	18	26	25	27	29	38	41	45	41	28	20	11	11	
	DATE OF OCCURRENCE	13	08	04	23	01	10	13	21	26	29	22+	08	DEC 08	
	AVERAGE DRY BULB	36.5	41.5	45.1	48.2	55.6	61.1	64.1	65.9	60.9	48.2	42.3	36.0	50.5	
	MEAN WET BULB	35.6	40.6	42.5	44.3	50.5	55.4	57.0	59.1	56.7		40.9	35.6		
	MEAN DEW POINT	34.2	38.3	39.4	39.7	45.8	51.2	52.1	55.0	54.6		38.8	32.8		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	1	0	0	1	0	0	0	0	2
MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	5	5	5	
MINIMUM <= 32°	18	11	13	6	1	0	0	0	0	3	12	19	83	83	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	875	649	609	498	287	136	57	20	142	511	671	892	5347	
	COOLING DEGREE DAYS	0	0	0	0	2	26	36	57	26	0	0	0	147	
RH	MEAN (PERCENT)	92	87	82	76	74	74	71	74	84	90	87	86	81	
	HOUR 04 LST	93	94	93	91	92	93	94	93	95	96	93	90	93	
	HOUR 10 LST	92	84	76	68	66	62	63	63	77	86	82	84	75	
	HOUR 16 LST	89	78	65	61	58	55	45	53	69	77	83	83	68	
	HOUR 22 LST	95	90	89	84	82	84	81	85	91	96	93	88	88	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	16	10	3	4	1	4	6	10	9	23	10	14	110	
	THUNDERSTORMS	0	0	0	0	0	1	0	1	1	0	0	0	3	
PR	MEAN STATION PRESS. (IN.)	30.00	29.98	29.91	29.93	29.86	29.82	29.83	29.78	29.68	29.93	29.90	30.06	29.89	
	MEAN SEA-LEVEL PRESS. (IN.)	30.23	30.19	30.13	30.15	30.08	30.03	30.05	30.00	29.90	30.17	30.12	30.29	30.11	
WINDS	RESULTANT SPEED (MPH)	3.2	4.3	2.2	4.4	1.7	2.3	0.8	1.3	2.0		3.0	2.6		
	RES. DIR. (TENS OF DEGS.)	20	21	22	23	22	23	22	23	20		21	21		
	MEAN SPEED (MPH)	4.9	6.5	5.2	7.1	5.0	4.9	4.2	4.5	5.1		5.2	4.7		
	PREVAIL.DIR.(TENS OF DEGS.)	20	20	20	20	21	21	19	20	20	04	20	21	20	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	24	29	24	28	23	24	18	23	29	26	28	23	29	
	DIR. (TENS OF DEGS.)	20	26	22	26	24	19	06	22	18	04	18	24	18	
	DATE OF OCCURRENCE	08	22	20	10	13	25	15	26	29	08	18	01	SEP 29	
	MAXIMUM 3-SECOND WIND:														
SPEED (MPH)	31	39	33	40	31	31	24	29	40	40	40	32	40		
DIR. (TENS OF DEGS.)	18	26	25	27	18	20	04	18	18	04	25	23	25		
DATE OF OCCURRENCE	08	22	21	29	27	25	15	29	29	08	02	01	NOV 02		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.91	4.04	3.88	4.52	3.21	1.86	T	1.84	9.36	2.13	4.69	2.02	41.46	
	GREATEST 24-HOUR (IN.)	1.76	1.33	1.22	1.31	0.54	0.82	T	1.33	2.93	0.79	1.08	0.88	2.93	
	DATE OF OCCURRENCE	08-09	22-23	19-20	06-07	26-27	23-24	16+	29	28	02	06-07	01	SEP 28	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	18	16	20	13	16	10	0	10	17	10	16	13	159		
PRECIPITATION 0.10	9	8	11	10	10	7	0	3	10	5	12	4	89		
PRECIPITATION 1.00	1	2	0	1	0	0	0	1	4	0	0	0	9		
SNOWFALL	SNOW,ICE PELLETS,HAIL	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	
	TOTAL (IN.)	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	
	GREATEST 24-HOUR (IN.)	14+											20+	DEC 20+	
	DATE OF OCCURRENCE	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0		

NORMALS, MEANS, AND EXTREMES OLYMPIA (KOLM)

LATITUDE:
46° 58'N

LONGITUDE:
122° 54'W

ELEVATION (FT):
GRND: 188 BARO: 203

TIME ZONE:
PACIFIC (UTC -8)

WBAN: 24227

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	45.9	49.3	53.9	58.9	65.3	70.6	76.8	77.7	71.8	60.2	50.2	44.2	60.4
	MEAN DAILY MAXIMUM	66	44.6	49.1	53.2	58.7	65.6	70.8	77.1	77.0	71.6	60.4	50.4	44.7	60.3
	HIGHEST DAILY MAXIMUM	72	64	73	79	87	96	101	104	104	98	90	74	64	104
	YEAR OF OCCURRENCE		2005	1986	2004	1987	1983	1942	2009	1981	1988	1987	1949	1958	JUL 2009
	MEAN OF EXTREME MAXS.	66	55.5	60.2	66.4	75.6	83.2	87.7	92.5	91.3	86.5	74.7	61.7	55.2	74.2
	NORMAL DAILY MINIMUM	30	33.7	32.8	35.1	37.7	43.1	47.6	50.8	50.5	46.0	40.5	36.4	32.6	40.6
	MEAN DAILY MINIMUM	66	31.7	32.3	33.8	36.5	41.6	46.7	49.5	49.5	45.4	39.8	35.5	32.6	39.6
	LOWEST DAILY MINIMUM	72	-8	-1	9	0	0	30	35	33	25	14	-1	-7	-8
	YEAR OF OCCURRENCE		1979	1972	1989	1997	1997	1976	1962	1973	1972	2002	1955	1983	JAN 1979
	MEAN OF EXTREME MINS.	66	15.1	18.8	23.2	27.0	31.0	37.7	41.3	40.5	34.7	27.8	21.7	17.5	28.0
	NORMAL DRY BULB	30	39.8	41.0	44.5	48.3	54.2	59.1	63.8	64.1	58.9	50.3	43.3	38.4	50.5
	MEAN DRY BULB	66	38.1	40.7	43.5	47.6	53.6	58.8	63.3	63.3	58.5	50.1	43.0	38.6	49.9
	MEAN WET BULB	30	37.8	37.7	40.5	43.2	47.8	52.3	55.9	56.2	52.7	47.0	41.2	36.8	45.8
	MEAN DEW POINT	30	37.1	36.6	39.0	41.5	46.0	50.2	53.6	54.0	50.8	45.7	40.5	36.3	44.3
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.1	0.7	2.2	1.7	0.3	0.0	0.0	0.0	5.0
	MAXIMUM <= 32	30	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.7
MINIMUM <= 32	30	11.6	13.2	10.3	5.1	0.5	0.0	0.0	0.0	0.3	3.4	8.4	13.5	66.3	
MINIMUM <= 0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	
H/C	NORMAL HEATING DEG. DAYS	30	781	671	636	501	337	188	80	70	190	454	651	825	5384
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	3	11	43	42	7	0	0	0	106
RH	NORMAL (PERCENT)	30	89	86	82	77	74	73	71	71	76	85	89	90	80
	HOURLY 04 LST	30	92	92	93	92	91	92	92	92	94	94	93	92	92
	HOURLY 10 LST	30	90	87	81	71	67	67	65	67	73	84	89	91	78
	HOURLY 16 LST	30	80	72	63	58	55	55	51	49	54	66	80	85	64
	HOURLY 22 LST	30	91	90	87	84	81	80	78	80	86	92	92	92	86
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	50	9.5	9.1	7.0	5.0	2.6	1.6	2.3	4.5	8.3	12.9	10.8	10.3	83.9
	THUNDERSTORMS	66	0.1	0.2	0.2	0.5	0.6	0.4	0.5	0.6	0.7	0.4	0.3	0.2	4.7
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	1	1.0	3.0	2.0		1.0								
	PARTLY CLOUDY			2.0	2.0		5.0	2.0							
	CLOUDY	1	2.0	4.0	10.0		4.0	1.0							
PR	MEAN STATION PRESSURE(IN)	30	29.85	29.83	29.81	29.83	29.82	29.83	29.84	29.81	29.82	29.85	29.82	29.85	29.83
	MEAN SEA-LEVEL PRES. (IN)	30	30.07	30.05	30.03	30.05	30.04	30.04	30.06	30.03	30.03	30.07	30.04	30.07	30.05
WINDS	MEAN SPEED (MPH)	30	6.1	5.9	6.5	6.6	6.2	6.1	5.6	5.3	4.9	5.3	6.4	6.0	5.9
	PREVAIL.DIR.(TENS OF DEGS)	34	21	20	20	21	21	21	21	21	21	21	20	20	21
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	41	36	38	33	31	32	28	24	29	33	36	45	45
	DIR. (TENS OF DEGS)		18	17	17	18	27	19	23	18	18	16	19	16	16
	YEAR OF OCCURRENCE		2010	1999	1999	2001	2010	2009	1999	2010	2013	1997	2012	1995	DEC 1995
	MAXIMUM 3-SECOND SPEED (MPH)	18	55	47	49	46	40	43	32	31	40	45	54	66	66
	DIR. (TENS OF DEGS)		18	22	19	18	29	17	23	19	18	15	18	14	14
YEAR OF OCCURRENCE		2010	2011	2005	2001	2010	2009	1999	2010	2013	1997	2012	1995	DEC 1995	
PRECIPITATION	NORMAL (IN)	30	7.84	5.27	5.29	3.54	2.33	1.76	0.63	0.94	1.71	4.60	8.63	7.46	50.00
	MAXIMUM MONTHLY (IN)	72	19.84	15.50	11.79	7.80	5.83	6.48	3.00	5.45	9.36	10.72	19.68	14.32	19.84
	YEAR OF OCCURRENCE		1953	1999	1997	1991	1948	1946	1983	1968	2013	2003	2006	1970	JAN 1953
	MINIMUM MONTHLY (IN)	72	0.29	0.22	0.48	0.37	0.15	0.04	T	0.00	T	0.39	1.37	2.02	0.00
	YEAR OF OCCURRENCE		1985	1993	1965	1956	1947	1945	2013	1946	2012	1987	1976	2013	AUG 1946
	MAXIMUM IN 24 HOURS (IN)	72	4.97	4.93	3.92	3.46	1.69	1.91	1.50	1.64	2.93	4.14	5.90	3.83	5.90
	YEAR OF OCCURRENCE		2009	1951	1972	1991	2011	1985	1979	2001	2013	2003	1990	1956	NOV 1990
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	20.0	15.8	18.5	15.7	12.5	9.1	4.6	4.9	7.8	14.2	20.1	19.6	162.8
PRECIPITATION >= 1.00	30	1.8	1.0	0.7	0.4	0.1	0.1	0.0	0.0	0.2	0.9	2.1	1.8	9.1	
SNOWFALL	NORMAL (IN)	30	1.9	4.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.6	10.8
	MAXIMUM MONTHLY (IN)	57	58.7	27.4	20.6	2.2	T	T	T	0.0	0.0	T	14.8	21.4	58.7
	YEAR OF OCCURRENCE		1969	1990	1951	1972	1991	1994	2013		2012	1975	1978	1968	JAN 1969
	MAXIMUM IN 24 HOURS (IN)	57	20.5	11.8	9.1	1.8	T	T	0.0	0.0	T	T	14.5	11.9	20.5
	YEAR OF OCCURRENCE'		1972	1989	1966	1972	1991	1994			1972	1975	1978	1974	JAN 1972
	MAXIMUM SNOW DEPTH (IN)	50	24	20	7	0	0	0	0	0	0	0	13	10	24
	YEAR OF OCCURRENCE		1969	1969	1989								1978	1974	JAN 1969
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.9	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	3.9	

PRECIPITATION (inches) 2013 OLYMPIA (KOLM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	6.97	5.49	6.42	3.67	5.48	3.74	T	0.21	1.76	5.13	12.19	4.97	56.03
1985	0.29	3.54	4.10	2.65	0.94	2.48	0.37	0.70	2.65	9.86	4.99	2.50	35.07
1986	12.14	6.84	2.29	2.87	3.20	0.92	1.11	0.01	3.38	4.12	11.09	5.20	53.17
1987	8.38	3.55	7.14	3.11	2.71	0.32	0.84	0.24	0.29	0.39	3.65	9.14	39.76
1988	5.18	2.35	5.66	4.94	3.36	2.06	0.42	0.43	1.93	2.26	10.14	5.16	43.89
1989	5.41	4.19	7.88	2.49	1.99	1.47	0.70	0.55	0.49	2.42	8.50	5.66	41.75
1990	14.53	8.52	3.54	3.29	2.06	2.86	0.32	1.79	0.03	6.34	15.06	5.05	63.39
1991	5.35	5.85	4.32	7.80	1.69	1.30	0.33	2.31	T	2.20	7.00	4.28	42.43
1992	9.45	4.19	1.50	5.15	0.19	1.15	0.36	0.82	2.44	2.80	6.82	5.28	40.15
1993	5.36	0.22	4.95	6.67	4.57	1.77	1.35	0.15	T	1.63	2.86	6.02	35.55
1994	3.80	6.38	4.83	1.82	1.44	1.90	0.29	0.80	1.52	7.65	7.75	11.49	49.67
1995	5.76	6.10	6.73	2.70	1.16	1.10	1.71	1.22	1.97	5.20	13.32	3.24	50.21
1996	7.39	11.07	2.65	7.61	3.14	1.14	.71	.42	2.21	5.46	6.25		
1997	9.22	5.03	11.79	4.80	3.10	2.94	1.18	2.45	4.57	8.18	6.07	5.50	64.83
1998	10.43	5.04	5.71	1.21	2.11	1.29	0.18	T	0.31	3.41	15.28	12.99	57.96
1999	12.25	15.50	6.95	1.42	1.54	1.84	0.58	0.69	0.12	3.85	11.93	9.97	66.64
2000	8.13	5.83	5.09	2.40	3.28	2.51	0.06	0.41	1.98	4.27	3.64	3.88	41.48
2001	3.45	2.60	3.84	3.49	1.92	2.63	0.18	2.28	0.53	3.98	13.31	11.86	50.07
2002	11.42	4.32	5.24	4.02	2.04	1.59	0.35	0.10	0.59	0.46	3.96	7.39	41.48
2003	9.60	2.17	7.62	4.72	1.14	0.28	0.14	0.34	1.17	10.72	8.67	5.99	52.56
2004	7.85	2.95	2.83	1.33	2.00	0.93	0.03	3.93	3.88	4.63	3.76	5.30	39.42
2005	5.86	1.01	6.17	4.14	4.06	1.64	0.93	0.19	1.76	5.72	7.21	8.88	47.57
2006	15.86	3.44	3.57	1.89	2.36	1.64	0.15	0.13	0.69	1.43	19.68	9.10	59.94
2007	6.04	5.52	7.00	2.33	1.22	1.30	1.85	0.67	2.24	4.88	4.04	11.71	48.80
2008	6.69	4.01	4.83	2.33	0.48	1.41	0.42	1.86	0.27	3.36	9.36	5.05	40.07
2009	8.58	1.60	5.75	3.13	4.68	0.22	0.15	1.22	2.49	5.32	10.08	4.58	47.80
2010	6.78	4.53	5.07	3.34	4.14	3.34	0.16	0.51	5.79	6.21	6.20	9.35	55.42
2011	7.27	4.46	9.00	4.11	4.16	0.67	1.42	0.25	1.62	4.26	8.78	4.69	50.69
2012	8.72	5.01	8.57	4.35	2.73	2.31	0.90	0.04	T	8.07	9.15	9.74	59.59
2013	3.91	4.04	3.88	4.52	3.21	1.86	T	1.84	9.36	2.13	4.69	2.02	41.46
POR= 66 YRS	7.93	5.64	5.21	3.37	2.18	1.57	0.71	1.13	2.13	4.72	8.19	7.93	50.71

WBAN : 24227

AVERAGE TEMPERATURE (°F) 2013 OLYMPIA (KOLM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	41.7	43.0	46.7	46.7	51.6	57.8	63.3	63.8	58.2	48.4	43.3	35.4	50.0
1985	35.7	37.4	42.1	48.9	54.5	59.0	67.5	63.5	56.6	49.2	33.8	34.0	48.5
1986	42.0	40.2	47.2	46.3	54.4	60.8	59.7	66.5	57.2	51.4	43.4	38.7	50.7
1987	38.7	43.2	46.0	50.0	55.5	60.2	62.4	63.6	60.1	52.4	46.1	37.6	51.3
1988	37.9	42.5	43.8	48.4	53.3	56.7	62.6	62.1	57.3	53.8	43.0	39.3	50.1
1989	39.4	33.2	41.1	50.9	53.9	60.3	61.1	62.4	59.4	49.7	44.7	41.1	49.8
1990	40.3	37.4	44.2	49.6	52.5	57.7	65.8	66.0	61.1	48.5	44.0	32.6	50.0
1991	37.1	45.1	41.4	46.4	51.9	55.7	63.8	65.1	59.7	49.3	44.6	41.0	50.1
1992	41.2	45.2	47.9	50.4	57.5	63.0	64.7	64.8	58.2	51.4	43.7	37.0	52.1
1993	34.9	38.5	45.1	49.1	58.6	59.3	60.3	64.1	59.7	53.1	39.1	39.9	50.1
1994	42.9	39.4	46.5	50.7	55.9	59.1	66.3	64.6	62.2	49.1	39.5	38.2	51.2
1995	40.4	42.7	44.8	48.5	57.2	60.7	65.6	61.7	62.3	50.8	47.6	40.1	51.9
1996	38.9	40.0	44.7	49.6	50.7	57.4	65.1	63.8	56.2	49.2	42.2		
1997	39.6	40.8	44.4			57.8	63.1	65.9	60.7	49.9	45.6	38.7	
1998	40.4	43.4	45.0	48.1	53.4	58.8	66.9	64.3	60.4	49.9	44.8	37.9	51.1
1999	40.4	40.6	42.6	46.3	50.5	57.2	60.9	63.6	57.1	49.2	45.8	40.8	49.6
2000	37.6	41.4	42.9	49.4	53.4	59.6	62.7	61.2	57.6	49.5	39.3	38.6	49.4
2001	38.1	37.8	42.5	45.8	53.6	55.7	60.4	62.8	57.5	48.3	44.8	38.6	48.8
2002	39.3	39.4	40.5	46.6	51.1	59.6	63.3	62.6	57.6	48.9	44.6	41.2	49.6
2003	43.4	40.2	45.8	47.3	52.9	60.5	65.2	63.8	60.4	53.0	40.4	39.3	51.0
2004	39.2	41.9	46.0	50.2	54.9	60.3	66.0	66.6	57.1	51.8	43.1	41.1	51.5
2005	40.9	39.6	47.4	49.5	56.6	58.5	63.6	64.6	56.6	52.2	41.9	39.3	50.9
2006	42.8	39.1	43.7	48.1	54.8	60.9	65.3	62.5	59.6	49.6	43.5	38.5	50.7
2007	35.8	42.4	46.2	48.0	53.7	57.9	65.4	62.4	57.8	48.6	42.3	38.9	50.0
2008	36.2	41.2	41.1	44.2	54.6	56.6	62.6	64.0	58.6	49.6	46.5	35.0	49.2
2009	38.1	38.4	40.2	47.0	53.8	60.9	66.8	63.1	59.6	49.4	44.4	33.7	49.6
2010	43.8	43.3	44.6	47.5	51.1	56.9	62.5	63.2	59.1	50.4	41.9	40.5	50.4
2011	40.2	37.1	43.1	43.7	50.3	56.8	61.8	63.0	61.0	50.3	40.5	36.9	48.7
2012	37.4	41.0	42.1	49.0	52.7	56.4	62.6	64.6	58.5	50.8	44.4	39.8	49.9
2013	36.5	41.5	45.1	48.2	55.6	61.1	64.1	65.9	60.9	48.2	42.3	36.0	50.5
POR= 66 YRS	38.1	40.7	43.5	47.6	53.6	58.8	63.3	63.3	58.5	50.1	43.0	38.6	49.9

HEATING DEGREE DAYS (base 65°F) 2013 OLYMPIA (KOLM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	80	64	205	507	644	911	903	767	704	476	320	181	5762
1985-86	15	68	245	484	932	954	704	689	542	555	332	128	5648
1986-87	158	25	244	414	642	803	812	604	583	442	293	162	5182
1987-88	100	75	153	382	562	841	834	645	650	492	360	250	5344
1988-89	108	106	242	340	656	790	789	882	735	420	336	153	5557
1989-90	128	88	164	467	604	735	760	768	640	454	380	220	5408
1990-91	39	31	116	505	622	1000	854	551	725	549	398	273	5663
1991-92	73	59	159	478	604	736	729	567	525	434	235	107	4706
1992-93	49	57	205	417	630	862	927	737	609	468	197	171	5329
1993-94	139	66	175	361	772	770	679	712	566	426	275	170	5111
1994-95	35	41	89	488	761	823	754	618	621	489	236	146	5101
1995-96	39	111	86	434	516	765	799	715	622	457	436	222	5202
1996-97	72	74	255	482	677		782	673	633			210	
1997-98	70	30	126	462	575	808	755	597	612	499	356	181	5071
1998-99	28	58	144	461	599	833	757	676	689	553	442	240	5480
1999-00	130	56	234	481	570	745	844	681	679	458	350	176	5404
2000-01	88	121	223	474	766	810	825	755	689	569	351	273	5944
2001-02	138	87	218	505	598	814	790	707	752	545	425	177	5756
2002-03	79	94	216	490	606	733	664	688	589	526	371	159	5215
2003-04	52	54	152	367	732	792	792	666	583	437	308	149	5084
2004-05	51	20	228	403	651	734	740	707	539	457	263	192	4985
2005-06	65	45	249	390	688	790	682	726	655	496	313	133	5232
2006-07	73	91	162	470	597	815	900	628	575	501	348	206	5366
2007-08	37	90	213	500	677	804	885	683	738	618	325	274	5844
2008-09	88	82	188	469	550	923	827	741	762	533	341	128	5632
2009-10	56	88	161	476	610	964	650	600	627	519	425	236	5412
2010-11	107	102	175	446	684	750	764	772	669	631	451	236	5787
2011-12	99	86	134	449	730	865	848	691	703	474	372	252	5703
2012-13	82	70	193	433	609	776	875	649	609	498	287	136	5217
2013-	57	20	142	511	671	892							

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COOLING DEGREE DAYS (base 65°F) 2013 OLYMPIA (KOLM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	0	0	1	34	37	6	1	0	0	79
1985	0	0	0	0	3	7	97	30	0	0	0	0	137
1986	0	0	0	0	12	9	0	78	17	0	0	0	116
1987	0	0	0	0	8	25	26	40	12	1	0	0	112
1988	0	0	0	0	4	7	39	23	17	0	0	0	90
1989	0	0	0	0	0	20	13	14	3	0	0	0	50
1990	0	0	0	0	0	5	71	70	6	0	0	0	152
1991	0	0	0	0	0	0	42	69	7	0	0	0	118
1992	0	0	0	0	9	50	48	57	8	0	0	0	172
1993	0	0	0	0	5	6	0	49	22	0	0	0	82
1994	0	0	0	0	0	1	82	37	15	0	0	0	135
1995	0	0	0	0	2	27	65	14	10	0	0	0	118
1996	0	0	0	0	0	2	79	43	0	0	0	0	124
1997	0	0	0	0	0	0	16	66	4	0	0	0	
1998	0	0	0	0	0	1	95	45	12	0	0	0	153
1999	0	0	0	0	0	14	8	19	1	0	0	0	42
2000	0	0	0	0	0	18	24	9	9	0	0	0	60
2001	0	0	0	0	5	0	5	25	0	0	0	0	35
2002	0	0	0	0	0	21	37	28	0	0	0	0	86
2003	0	0	0	0	2	33	66	21	20	0	0	0	142
2004	0	0	0	0	0	15	88	79	0	0	0	0	182
2005	0	0	0	0	7	3	28	39	0	0	0	0	77
2006	0	0	0	0	2	18	90	20	4	0	0	0	134
2007	0	0	0	0	2	3	57	17	4	0	0	0	83
2008	0	0	0	0	9	27	21	58	0	0	0	0	115
2009	0	0	0	0	1	13	118	38	7	0	0	0	177
2010	0	0	0	0	0	2	39	53	7	0	0	0	101
2011	0	0	0	0	0	0	6	33	20	0	0	0	59
2012	0	0	0	0	0	0	15	64	3	0	0	0	82
2013	0	0	0	0	2	26	36	57	26	0	0	0	147

SNOWFALL (inches) 2013 OLYMPIA (KOLM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1978-79	0.0	0.0	0.0	0.0	14.8	2.5	0.1	1.5	0.0	0.0	0.0	0.0	18.9
1979-80	0.0	0.0	0.0	0.0	T	T	19.7	11.9	4.1	T	0.0	0.0	35.7
1980-81	0.0	0.0	0.0	0.0	T	3.0	0.0	0.9	0.0	0.4	0.0	0.0	4.3
1981-82	0.0	0.0	0.0	0.0	0.0	2.8	11.8	5.1	1.9	T	0.0	0.0	21.6
1982-83	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	T	0.0	0.0	T
1983-84	0.0	0.0	0.0	0.0	0.0	4.9	T	0.0	T	0.0	T	0.0	4.9
1984-85	0.0	0.0	0.0	0.0	T	4.7	T	13.8	T	T	T	0.0	18.5
1985-86	0.0	0.0	0.0	0.0	12.3	7.3	0.0	5.3	0.0	T	T	0.0	24.9
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
1987-88	0.0	0.0	0.0	0.0	T	1.0	T	0.1	0.0	0.2	T	0.0	1.3
1988-89	0.0	0.0	0.0	0.0	T	T	6.8	13.8	9.0	T	0.0	T	29.6
1989-90	0.0	0.0	0.0	0.0	0.0	0.0	1.7	27.4	0.2	0.0	0.0	0.0	29.3
1990-91	0.0	0.0	0.0	0.0	T	2.2	3.0	0.0	T	T	T	0.0	5.2
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T	0.0	0.0	T
1992-93	0.0	0.0	0.0	0.0	0.0	9.4	3.8	0.2	0.0	0.0	0.0	0.0	13.4
1993-94	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.8	T	T	0.0	T	1.3
1994-95	0.0	0.0	0.0	0.0	0.1	6.2	0.0	2.6	T	T	0.0	0.0	8.9
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	3.0		0.0	0.0	0.0	0.0	
1996-97	0.0	0.0	0.0	0.0									
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-													
2012-13	0.0	0.0	0.0	0.0	0.0	0.3	T	0.0	0.0	0.0	0.0	0.0	0.3
2013-	0.0	0.0	0.0	0.0	0.0	T							
POR= 52 YRS	0.0	0.0	0.0	0.0	1.2	3.7	7.1	3.4	1.8	0.1	T	T	17.3

WBAN : 24227

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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2013 OLYMPIA[^] WASHINGTON (KOLM)

The climate of Olympia and vicinity is characterized by warm, generally dry summers and wet, mild winters.

Fall rains usually begin about mid-October, borne inland to the Cascade Mountains by frequent maritime disturbances originating in the Pacific Ocean. These rains continue with few interruptions through spring. Daytime temperatures will be in the 40s and low 50s, with nighttime temperatures in the 30s. The progression of the wet and mild Pacific disturbances is usually broken once or twice each winter by the formation of large anticyclones, which originate in Alaska and northwestern Canada, and move southward over the state of Washington. These southerly migrations of polar-continental air from the interior will normally lower daytime temperatures to about freezing and nighttime temperatures to 10 - 20 degrees. In exceptional cases, temperatures slightly below zero have been recorded in this vicinity. Often the onset of the cold weather is accompanied by a little snow, but during these cold snaps the air is dry and skies are clear. Snow in an amount sufficient to seriously hinder highway travel occurs only once every two or three years.

During the spring months, the track of the Pacific storms moves gradually farther north, and the semi-permanent Pacific anticyclone also moves northward. The effects of the maritime disturbances lessen, and the periods of improving weather between storms lengthen. During the spring and early fall, clearing skies at night will usually be followed by fog or low stratus clouds in the early morning, which normally dissipate by noon.

Daily high temperatures average 70 to 80 degrees during July, August, and September. The temperature will equal or exceed 90 degrees about 6 days each summer, but as the warm weather is usually accompanied by lowering humidity, it is seldom uncomfortably hot. Rainfall is near 1 inch per month during July and August and about 2 inches per month during the transitional period of May, June, and September. About two-thirds of the days are sunny in July, August, and September, and about half are sunny during May and June.

Olympia and vicinity are quite well protected by the Coast Range from the strong south and southwest winds accompanying many of the Pacific storms during the fall and winter. Winds which reach hurricane force along the coast, only 45 miles away, will reach only 50 or 55 mph in gusts in this vicinity. Some damage to utility lines occurs every fall and winter from trees and limbs broken or felled by the wind, but damage rarely occurs to dwellings or buildings. The prevailing wind in Olympia is southerly during most of the year, but during the fair weather in the summers the wind is gentle and from the north to east.

The length of the growing season in the vicinity of Olympia varies with distance from the waterfront and elevation above sea level. The average length of the growing season is 166 days.

Station History

OLYMPIA, WA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
OLYMPIA AP	1941-05-01	1941-05-12	46° 58'	-122° 54'			AIRWAYS
OLYMPIA MUNICIPAL AP	1948-01-01	1969-01-01	46° 58'	-122° 54'	217		AIRWAYS, COOP
OLYMPIA AIRPORT	1974-10-09	1976-01-01	46° 58'	-122° 54'	217		COOP, WXSVC
OLYMPIA MUNICIPAL AP	1969-01-01	1974-10-09	46° 58'	-122° 54'	217		COOP, WXSVC
OLYMPIA AIRPORT	1976-01-01	1981-12-31	46° 58'	-122° 54'	195		COOP, WXSVC
OLYMPIA ASC	1894-08-01	1895-12-31	47° 3'	-122° 54'			COOP
OLYMPIA MUNICIPAL AP	1941-05-12	1948-01-01	46° 58'	-122° 54'			AIRWAYS
OLYMPIA ASC	1877-07-01	1893-12-31	47° 3'	-122° 52'			MILITARY
OLYMPIA AIRPORT	1981-12-31	1995-11-01	46° 58'	-122° 54'	195		COOP
OLYMPIA AIRPORT	1995-11-01	2004-07-28	46° 58'	-122° 54'	206	.4 MI W	ASOS, COOP
OLYMPIA AIRPORT	2004-07-28	Present	46° 58'	-122° 54'	188		ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1982-04-01	1993-09-21	HOURLY	2400			
PRECIP	1995-11-01	2004-07-28	DAILY	2400	TB	RCRD	
PRECIP	2011-03-07	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1982-04-01	1993-09-21	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1995-11-01	DAILY	2400	UNIV	RCRD	
TEMP	1995-11-01	2004-07-28	DAILY	2400	HYGR		
TEMP	2004-07-28	2005-09-15	DAILY	2400	ATEMP		
PRECIP	2005-09-15	2011-03-07	DAILY	0800	PCPN1		
PRECIP	2011-03-07	Present	DAILY	0800	PCPNX		
PRECIP	2005-09-15	2011-03-07	HOURLY	2400	TB	RCRD	
PRECIP	1941-05-01	1982-04-01	DAILY	2400	UNIV	RCRD	
PRECIP	1993-09-21	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	2005-09-15	2011-03-07	DAILY	2400	ATEMP		
PRECIP	2005-09-15	2011-03-07	DAILY	2400	PCPN1		
TEMP	1941-05-01	1982-04-01	DAILY	2400			
PRECIP	2011-03-07	Present	DAILY	2400	PCPNX		
TEMP	1993-09-21	1995-07-01	DAILY	2400	HYGR		
PRECIP	1993-09-21	1995-07-01	HOURLY	2400			
TEMP	1995-07-01	1995-11-01	DAILY	2400	HYGR		
PRECIP	1995-11-01	2004-07-28	HOURLY	2400	TB	RCRD	
PRECIP	2004-07-28	2005-09-15	DAILY	2400	PCPN1		
TEMP	1982-04-01	1993-09-21	DAILY	2400			
PRECIP	1995-07-01	1995-11-01	HOURLY	2400	UNIV	RCRD	
PRECIP	2004-07-28	2005-09-15	HOURLY	2400	TB	RCRD	
TEMP	2011-03-07	Present	DAILY	2400	ATEMP		

* 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

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