

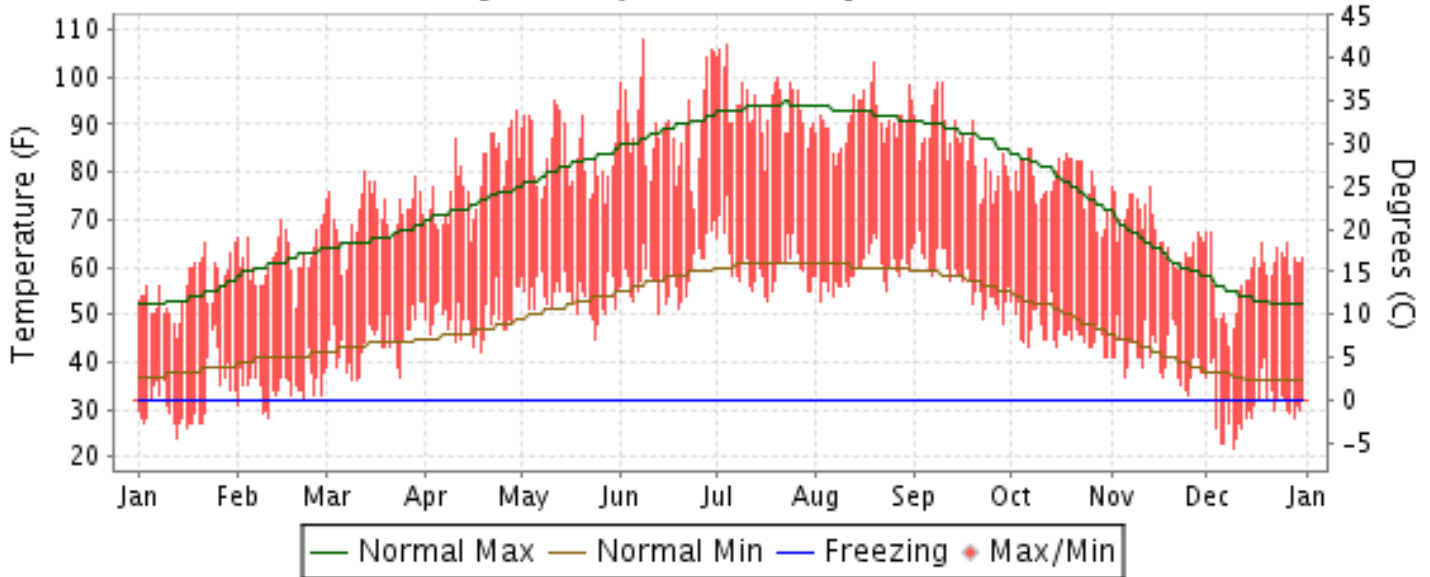


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

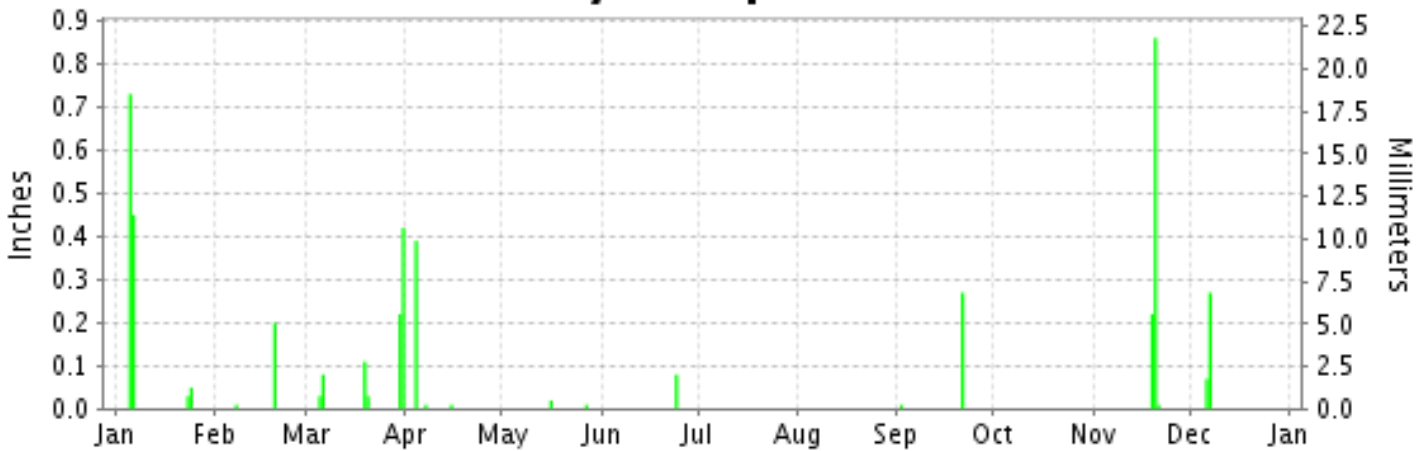
ISSN 0198-1013

STOCKTON, CALIFORNIA (KSCK)

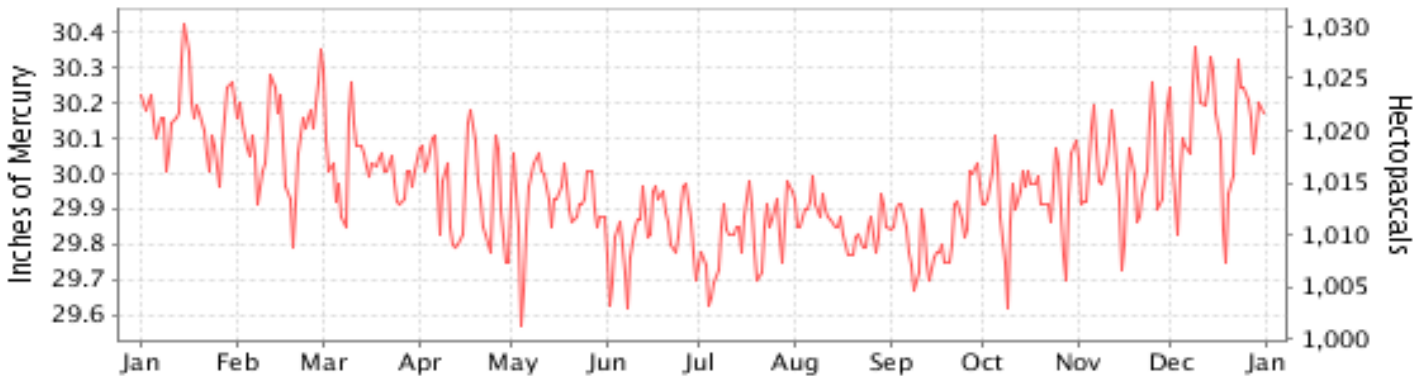
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

STOCKTON (KSCK)

LATITUDE: 37° 53'N LONGITUDE: 121° 13'W ELEVATION (FT): GRND: 26 BARO: 27 TIME ZONE: PACIFIC (UTC -8) WBAN: 23237

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	55.5	62.1	71.1	78.5	83.6	89.9	94.2	91.1	85.2	77.9	67.7	57.9	76.2	
	HIGHEST DAILY MAXIMUM	65	71	80	93	95	108	107	103	99	85	77	67	108	
	DATE OF OCCURRENCE	31+	28	13	29	11	08	04	19	09+	07+	13+	02+	JUN 08	
	MEAN DAILY MINIMUM	32.3	34.9	44.0	48.9	53.7	58.3	60.4	59.1	57.5	46.4	41.1	30.6	47.3	
	LOWEST DAILY MINIMUM	24	28	36	42	45	50	53	53	48	41	33	22	22	
	DATE OF OCCURRENCE	13	11	10+	18	24	13	17	02	28	31+	25	09	DEC 09	
	AVERAGE DRY BULB	43.9	48.5	57.5	63.7	68.7	74.1	77.3	75.1	71.4	62.2	54.4	44.3	61.8	
	MEAN WET BULB			50.4	53.0	55.4	61.0	62.2	61.7	59.3	50.7		38.9		
	MEAN DEW POINT			43.6	43.0	44.7	51.7	52.1	53.0	50.9	40.7		32.9		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	2	9	16	25	20	8	0	0	0	0	80
MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MINIMUM <= 32°	18	5	0	0	0	0	0	0	0	0	0	24	47		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	644	455	221	77	11	0	0	0	6	83	310	637	2444	
	COOLING DEGREE DAYS	0	0	0	46	135	281	388	319	204	2	0	0	1375	
RH	MEAN (PERCENT)	80	70	65	53	48	52	47	52	55	52	64	70	59	
	HOUR 04 LST	92	89	85	77	71	78	75	78	75	75	78	90	80	
	HOUR 10 LST	74	62	53	40	35	40	37	42	43	39	55	62	49	
	HOUR 16 LST	65	46	44	31	30	31	25	29	35	33	49	50	39	
	HOUR 22 LST	87	79	75	64	58	61	52	59	65	58	73	78	67	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	0	0	0	0	0	0	0	0	0	0	0	
	THUNDERSTORMS	0	0	2	0	0	0	0	1	0	0	0	0	3	
PR	MEAN STATION PRESS. (IN.)	30.16	30.10	30.03	29.95	29.92	29.83	29.82	29.86	29.84	29.93	30.01	30.14	29.97	
	MEAN SEA-LEVEL PRESS. (IN.)	30.19	30.13	30.06	29.99	29.95	29.86	29.85	29.89	29.87	29.96	30.05	30.17	30.00	
WINDS	RESULTANT SPEED (MPH)	1.9	3.0	3.9	7.9	8.3	7.4	6.4	6.7	6.4	3.3	2.0	1.1	4.8	
	RES. DIR. (TENS OF DEGS.)	29	30	30	31	29	30	31	30	29	30	31	29	30	
	MEAN SPEED (MPH)	3.8	5.4	6.4	9.5	10.0	9.0	7.7	7.8	7.8	5.0	4.0	3.9	6.7	
	PREVAIL.DIR.(TENS OF DEGS.)	28	31	31	33	26	32	30	29	30	30	31	30	26	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	25	24	25	36	29	25	28	22	29	40	23	29	40	
	DIR. (TENS OF DEGS.)	28	32	33	33	25	27	01	25	26	26	33	25	26	
	DATE OF OCCURRENCE	09	23	22	08	21	17	07	24	24	27	04	03	OCT 27	
	MAXIMUM 3-SECOND WIND:														
SPEED (MPH)	32	32	43	44	54	47	33	49	37	49	29	36	54		
DIR. (TENS OF DEGS.)	33	32	21	33	33	22	32	33	25	26	34	25	33		
DATE OF OCCURRENCE	28	23	05	08	24	09	31	14	24	27	04	03	MAY 24		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.26	0.21	0.89	0.41	0.03	0.08	0.00	0.00	0.28	0.00	1.09	0.34	4.59	
	GREATEST 24-HOUR (IN.)	1.18	0.20	0.62	0.39	0.02	0.08	0.00	0.00	0.27	0.00	1.07	0.34	1.18	
	DATE OF OCCURRENCE	05-06	19	30-31	04	16	24			21		19-20	06-07	JAN 05-06	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	4	2	6	3	2	1	0	0	2	0	3	2	25	
PRECIPITATION 0.10	2	1	3	1	0	0	0	0	1	0	2	1	11		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0															

NORMALS, MEANS, AND EXTREMES STOCKTON (KSCK)

LATITUDE:
37° 53'N

LONGITUDE:
121° 13'W

ELEVATION (FT):
GRND: 26 BARO: 27

TIME ZONE:
PACIFIC (UTC -8)

WBAN: 23237

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	53.9	60.7	66.3	72.6	81.1	88.1	93.4	92.2	87.9	77.9	64.1	53.9	74.3
	MEAN DAILY MAXIMUM	65	53.8	60.7	66.0	72.9	81.1	88.5	94.2	92.7	88.3	78.3	64.5	54.0	74.6
	HIGHEST DAILY MAXIMUM	54	71	78	87	100	107	111	115	109	108	101	84	72	115
	YEAR OF OCCURRENCE		1981	1977	2007	1981	2001	1961	2006	1998	1979	2012	1997	1987	JUL 2006
	MEAN OF EXTREME MAXS.	65	64.6	70.5	77.8	87.7	97.0	103.9	105.8	104.1	100.5	91.6	76.9	64.8	87.1
	NORMAL DAILY MINIMUM	30	37.7	40.2	42.8	45.9	51.6	56.8	60.0	59.2	56.5	49.7	41.9	37.2	48.3
	MEAN DAILY MINIMUM	65	37.5	40.3	42.6	46.1	51.7	56.9	60.4	59.7	57.0	50.1	42.2	37.4	48.5
	LOWEST DAILY MINIMUM	54	19	22	27	32	36	45	49	50	43	33	25	17	17
	YEAR OF OCCURRENCE		1963	1989	1971	2008	2010	1999	1999	2010	1982	1972	1985	1990	DEC 1990
	MEAN OF EXTREME MINS.	65	27.0	30.1	33.6	37.7	43.2	49.4	52.7	53.3	49.6	40.7	31.3	27.1	39.6
	NORMAL DRY BULB	30	45.8	50.4	54.6	59.3	66.3	72.4	76.7	75.7	72.2	63.8	53.0	45.6	61.3
	MEAN DRY BULB	65	45.7	50.5	54.3	59.5	66.4	72.7	77.3	76.2	72.6	64.2	53.4	45.7	61.5
	MEAN WET BULB	25	44.2	47.7	49.3	50.8	54.1	57.9	61.1	60.4	58.4	53.8	49.2	43.4	52.5
	MEAN DEW POINT	25	42.0	44.1	46.2	46.4	49.7	52.9	56.3	55.8	54.0	49.6	44.4	40.9	48.5
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.8	5.6	12.1	21.2	19.3	12.8	1.9	0.0	0.0	73.7
	MAXIMUM <= 32	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MINIMUM <= 32	30	6.7	2.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	7.5	18.7	
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	0.0	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	595	407	324	190	60	7	0	0	6	91	360	603	2643
	NORMAL COOLING DEG. DAYS	30	0	0	0	17	102	230	363	332	222	54	0	0	1320
RH	NORMAL (PERCENT)	30	84	78	70	61	53	49	46	48	52	60	76	84	63
	HOURLY 04 LST	30	90	88	84	78	73	68	66	67	69	76	85	90	78
	HOURLY 10 LST	30	87	79	67	54	44	42	41	44	48	57	76	86	60
	HOURLY 16 LST	30	71	60	51	41	32	28	26	28	30	37	60	71	45
	HOURLY 22 LST	30	86	82	75	69	61	56	51	52	57	64	79	86	68
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	46	10.0	5.0	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.7	5.4	9.0	31.8
	THUNDERSTORMS	61	0.1	0.4	0.4	0.5	0.3	0.3	0.1	0.1	0.3	0.3	0.1	0.1	3.0
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	46	5.8	5.2	4.6	3.9	2.8	1.8	1.0	1.1	1.5	2.6	4.5	5.6	3.4
	MIDNIGHT-MIDNIGHT (OKTAS)	21	5.4	4.6	3.9	3.2	2.1	1.7	1.0	1.1	1.5	2.3	4.3	5.1	3.0
	MEAN NO. DAYS WITH: CLEAR	46	5.3	7.1	9.8	11.9	17.4	21.9	26.3	25.2	23.0	18.8	9.2	6.7	182.6
	PARTLY CLOUDY	46	6.3	6.5	8.6	8.7	8.4	5.7	3.2	3.8	4.3	5.9	8.5	6.5	76.4
	CLOUDY	46	19.3	14.7	12.7	9.5	5.1	2.5	0.9	1.4	2.2	5.7	12.3	17.8	104.1
PR	MEAN STATION PRESSURE(IN)	30	30.11	30.05	30.02	29.98	29.92	29.86	29.86	29.86	29.86	29.95	30.06	30.11	29.97
	MEAN SEA-LEVEL PRES. (IN)	30	30.15	30.08	30.05	30.02	29.95	29.90	29.89	29.90	29.90	29.98	30.09	30.14	30.00
WINDS	MEAN SPEED (MPH)	30	6.8	7.7	8.4	9.4	10.2	10.3	9.0	8.4	7.8	6.9	6.6	7.0	8.2
	PREVAIL.DIR.(TENS OF DEGS)	21	15	15	30	30	28	28	30	30	31	31	15	15	30
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	44	41	44	37	41	34	31	30	31	44	47	41	47
	DIR. (TENS OF DEGS)		15	14	14	35	35	26	27	27	25	15	15	15	15
	YEAR OF OCCURRENCE		2010	2004	2011	1999	2001	1999	1999	2007	2007	2009	2001	2002	NOV 2001
	MAXIMUM 3-SECOND SPEED (MPH)	17	60	54	55	46	54	62	38	49	69	52	58	51	69
	DIR. (TENS OF DEGS)		13	16	15	32	33	27	27	33	21	14	15	15	21
YEAR OF OCCURRENCE		2008	1998	2011	2009	2013	2012	1999	2013	2007	2009	2001	2002	SEP 2007	
PRECIPITATION	NORMAL (IN)	30	2.74	2.54	2.16	0.98	0.53	0.08	0.00	0.01	0.29	0.82	1.69	2.22	14.06
	MAXIMUM MONTHLY (IN)	72	7.06	8.22	6.48	3.55	3.73	1.19	0.61	0.81	3.00	2.97	6.22	8.05	8.22
	YEAR OF OCCURRENCE		1967	1998	1982	1958	1998	2011	1974	1975	1959	1945	1972	1955	FEB 1998
	MINIMUM MONTHLY (IN)	72	0.14	0.05	T	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
	YEAR OF OCCURRENCE		1976	1964	1956	1949	1982	1981	1983	1982	1980	1978	1995	1989	NOV 1995
	MAXIMUM IN 24 HOURS (IN)	72	3.01	2.28	1.71	1.54	1.66	0.53	0.57	0.81	2.64	1.88	2.23	3.01	3.01
	YEAR OF OCCURRENCE		1967	1945	1968	1958	1990	1964	1974	1975	1959	1991	1950	1955	JAN 1967
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	9.5	9.2	8.9	5.0	2.7	1.0	0.2	0.2	1.1	3.3	6.8	9.0	56.9
PRECIPITATION >= 1.00	30	0.4	0.4	0.3	0.1	0.1	0.0	0.0	0.0	0.1	0.2	0.2	0.2	2.0	
SNOWFALL	NORMAL (IN)	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAXIMUM MONTHLY (IN)	42	0.0	0.3	T	T	T	T	0.0	0.0	0.0	0.0	0.0	0.2	0.3
	YEAR OF OCCURRENCE			1976	1995	1970	1994							1988	FEB 1976
	MAXIMUM IN 24 HOURS (IN)	42	0.0	0.3	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3
	YEAR OF OCCURRENCE			1976	1995	1970	1994							1988	FEB 1976
	MAXIMUM SNOW DEPTH (IN)	47	0	0	0	0	0	0	0	0	0	0	0	0	0
YEAR OF OCCURRENCE															
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

PRECIPITATION (inches) 2013 STOCKTON (KSCK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	0.22	1.20	0.65	0.37	0.01	0.06	T	0.01	0.06	1.47	3.53	1.69	9.27
1985	0.67	0.85	2.21	0.13	0.00	0.22	0.05	0.01	0.07	1.25	2.49	1.72	9.67
1986	1.69	5.82	3.64	0.93	0.15	0.00	0.02	0.00	0.80	0.01	0.03	0.67	13.76
1987	2.03	3.28	2.84	0.12	0.02	T	0.00	0.00	0.00	1.04	1.31	2.41	13.05
1988	1.97	0.31	0.19	1.98	0.54	0.23	0.00	0.00	0.00	0.01	1.36	2.28	8.87
1989	0.37	1.07	2.16	0.07	0.07	0.21	0.00	T	2.06	0.87	1.11	0.03	8.02
1990	2.23	1.30	0.86	0.52	2.33	0.00	T	T	T	0.20	0.45	0.91	8.80
1991	0.17	2.32	5.35	0.45	0.12	0.11	0.02	0.07	T	1.98	0.34	0.76	11.69
1992	1.39	5.37	1.30	0.72	0.00	0.12	0.00	T	0.00	0.52	0.20	3.49	13.11
1993	4.91	3.87	3.22	0.26	0.83	0.42	0.00	0.00	0.00	0.31	2.04	1.01	16.87
1994	1.56	2.79	0.18	1.18	1.68	0.00	0.00	0.00	0.24	0.42	2.05	1.15	11.25
1995	6.88	0.38	4.90	1.16	0.55	0.08	T	0.00	0.00	0.00	0.00	4.29	18.24
1996	4.07	4.02	2.10	1.19	1.39	0.09	.00	.00	.00	1.09	2.56	4.54	21.05
1997	4.05	0.29	0.12	0.11	0.28	0.20	T	0.02	T	0.22	3.76	1.94	10.99
1998	5.39	8.22	2.16	1.92	3.73	0.14	0.00	0.00	T	1.02	2.31	0.30	25.19
1999	2.86	2.81	0.87	1.13	0.17	T	0.00	0.00	0.08	0.08	1.70	0.30	10.00
2000	3.72	5.07	0.76	1.22	0.68	0.03	0.00	T	0.08	2.68	0.20	0.40	14.84
2001	2.84	2.33	1.52	1.13	0.00	0.06	T	0.00	0.25	0.28	1.98	4.99	15.38
2002	1.63	0.66	1.78	0.14	0.40	0.00	0.00	0.00	0.00	T	2.48	5.00	12.09
2003	0.52	1.00	1.11	1.65	0.35	0.00	T	0.06	T	0.02	1.48	3.09	9.28
2004	1.74	3.67	0.68	0.23	0.19	0.00	0.00	0.00	0.02	2.41	1.89	3.13	13.96
2005	2.99	2.46	3.20	1.48	0.60	0.20	T	T	0.30	0.06	0.28	4.15	15.72
2006	3.30	1.16	3.83	2.65	0.93	0.00	0.01	0.00	0.00	0.35	1.08	1.60	14.91
2007	0.50	2.81	0.31	1.20	0.04	0.00	0.03	0.00	0.13	0.79	0.65	1.63	8.09
2008	5.25	1.37	0.05	0.01	0.02	0.00	0.00	0.00	0.00	0.24	1.16	1.19	9.29
2009	2.04	2.68	1.16	0.37	0.37	0.09	T	0.00	0.28	1.49	0.12	1.88	10.48
2010	3.36	2.73	1.71	2.48	0.37	0.00	0.00	0.00	0.00	1.43	2.38	4.24	18.70
2011	0.76	2.38	3.15	0.20	0.78	1.19	0.00	0.00	T	0.73	0.75	0.15	10.09
2012	1.48	0.60	2.23	2.03	0.05	0.05	T	T	T	0.26	2.54	4.30	13.54
2013	1.26	0.21	0.89	0.41	0.03	0.08	0.00	0.00	0.28	0.00	1.09	0.34	4.59
POR= 65 YRS	2.78	2.21	2.01	1.13	0.40	0.10	0.03	0.04	0.25	0.70	1.72	2.30	13.67

WBAN : 23237

AVERAGE TEMPERATURE (°F) 2013 STOCKTON (KSCK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	45.5	49.0	57.2	58.2	71.0	74.2	81.8	77.8	76.9	61.3	52.0	44.0	62.4
1985	41.4	50.2	49.7	62.0	64.1	75.9	78.3	73.6	68.1	62.9	50.4	41.1	59.8
1986	51.0	54.1	57.6	59.3	66.6	72.8	75.9	76.0	67.1	64.5	55.7	45.9	62.2
1987	44.9	51.2	54.4	64.1	69.7	73.6	72.8	74.9	72.7	67.8	52.8	47.1	62.2
1988	46.9	52.4	57.3	61.0	64.6	72.2	80.0	76.0	72.9	66.5	53.9	45.2	62.4
1989	43.6	47.6	56.2	63.3	66.5	72.1	77.2	74.8	70.2	63.3	53.7	42.2	60.9
1990	46.5	47.4	56.1	64.1	65.9	73.2	79.0	77.7	67.3	67.3	53.6	40.9	60.9
1991	47.0	54.6	51.6	58.5	63.5	69.9	77.9	73.9	76.2	69.6	56.3	45.8	62.1
1992	42.8	54.8	57.1	64.0	72.3	72.4	76.8	78.9	74.2	68.0	54.7	44.3	63.4
1993	45.7	50.4	59.2	60.7	66.8	73.9	77.2	76.7	74.0	66.7	53.3	44.5	62.4
1994	46.0	49.0	57.8	60.8	65.4	74.1	77.3	78.3	74.0	64.1	49.1	44.6	61.7
1995	52.8	53.7	55.3	60.1	65.2	71.1	77.5	78.8	74.3	67.5	60.2	50.5	63.9
1996	48.6	54.1	56.9	62.6	68.4	75.0	81.4	79.9	72.5	63.9	54.1	50.0	64.0
1997	48.2	51.4	56.9	61.7	71.0	72.1	76.3	75.5	74.7	62.7	55.9	44.4	62.6
1998	48.5	49.6	53.9	57.4	59.4	68.4	76.6	78.0	72.5	60.5	52.5	42.1	60.0
1999	44.5	48.3	50.9	57.5	63.8	71.0	73.4	73.6	72.0	65.4	55.0	46.3	60.1
2000	49.7	52.1	54.8	60.9	67.0	74.7	73.9	75.1	71.8	60.7	48.5	46.3	61.3
2001	44.9	48.9	56.8	56.1	73.0	74.8	75.4	75.8	71.9	65.5	55.7	48.2	62.3
2002	44.0	50.3	52.8	58.9	65.6	73.2	76.7	74.1	73.4	62.5	53.6	48.3	61.1
2003	49.3	49.3	55.5	54.8	65.7	73.1	80.0	75.2	73.9	66.7	50.7	48.5	61.9
2004	46.0	49.7	58.6	62.0	67.0	72.5	75.9	75.6	72.3	62.7	51.2	47.2	61.7
2005	46.3	53.2	56.7	58.5	67.2	71.1	81.5	78.8	70.7	65.2	55.9	50.9	63.0
2006	49.4	51.4	50.6	58.4	68.2	76.2	82.0	75.2	71.8	61.9	54.4	47.7	62.3
2007	44.8	52.3	59.9	62.8	69.2	74.4	78.1	78.5	71.0	63.3	56.2	45.6	63.0
2008	45.9	49.6	54.0	58.8	67.5	74.0	77.0	78.2	73.6	65.3	55.5	44.0	62.0
2009	46.6	50.9	54.0	59.8	69.9	71.8	76.2	75.5	75.0	61.9	52.6	45.4	61.6
2010	47.6	51.8	53.2	55.2	61.9	72.8	74.8	72.6	72.0	64.5	51.8	50.0	60.7
2011	45.2	47.5	53.8	58.8	61.5	69.5	74.8	75.1	74.8	64.2	51.0	43.7	60.0
2012	46.7	50.9	52.9	60.1	67.1	71.1	75.1	76.9	73.0	65.1	55.2	47.1	61.8
2013	43.9	48.5	57.5	63.7	68.7	74.1	77.3	75.1	71.4	62.2	54.4	44.3	61.8
POR= 65 YRS	45.7	50.5	54.3	59.5	66.4	72.7	77.3	76.2	72.6	64.2	53.4	45.7	61.6

HEATING DEGREE DAYS (base 65°F) 2013 STOCKTON (KSCK)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0	0	0	136	383	643	724	408	468	105	64	8	2939
1985-86	0	0	22	110	435	734	425	298	221	174	63	0	2482
1986-87	0	0	39	50	272	585	615	380	323	75	36	0	2375
1987-88	0	0	0	15	360	550	555	361	234	134	96	26	2331
1988-89	0	0	2	40	328	607	656	480	268	94	38	2	2515
1989-90	0	0	6	94	335	699	565	487	269	65	42	2	2564
1990-91	0	0	0	20	336	741	553	284	406	196	99	7	2187
1991-92	0	0	0	79	256	585	680	289	237	59	0	2	2187
1992-93	0	0	0	20	305	635	594	405	178	141	26	15	2319
1993-94	0	0	4	14	346	628	581	442	214	132	58	0	2419
1994-95	0	0	0	50	470	623	372	311	296	146	73	19	2360
1995-96	0	0	0	19	139	441	502	308	245	115	3	0	1772
1996-97	0	0	0	126	320	458	514	374	245	112	7	0	2156
1997-98	0	0	0	96	276	632	505	427	340	242	169	9	2696
1998-99	0	0	11	134	368	702	630	460	431	240	75	23	3074
1999-00	0	0	0	43	293	572	469	369	312	129	61	1	2249
2000-01	0	0	1	145	489	574	619	445	249	276	0	0	2798
2001-02	0	0	0	50	274	514	642	406	369	180	57	0	2492
2002-03	0	0	3	110	337	510	480	434	289	303	82	0	2548
2003-04	0	0	0	28	421	506	582	438	196	124	18	0	2313
2004-05	0	0	14	129	404	543	571	322	249	189	34	3	2458
2005-06	0	0	0	33	266	431	472	375	442	202	17	0	2238
2006-07	0	0	4	96	314	530	617	348	159	106	19	1	2194
2007-08	0	0	12	68	255	592	587	439	337	202	31	0	2523
2008-09	0	0	0	36	276	645	563	387	333	189	12	1	2442
2009-10	0	0	4	111	364	600	533	362	357	289	112	0	2732
2010-11	0	0	0	94	392	457	604	483	338	186	122	34	2710
2011-12	0	0	1	67	413	654	562	403	366	183	29	14	2692
2012-13	0	0	0	66	289	549	644	455	221	77	11	0	2312
2013-	0	0	6	83	310	637							

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COOLING DEGREE DAYS (base 65°F) 2013 STOCKTON (KSCK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	6	214	288	527	402	364	27	0	0	1828
1985	0	0	0	20	47	342	422	270	123	48	0	0	1272
1986	0	0	0	10	118	240	341	348	111	43	0	0	1211
1987	0	0	0	54	189	265	251	314	236	112	0	0	1421
1988	0	0	2	22	86	250	473	348	246	93	1	0	1521
1989	0	0	0	50	94	222	389	312	168	48	0	0	1283
1990	0	0	0	45	79	253	440	401	100	99	0	0	1510
1991	0	0	0	9	58	162	407	283	340	227	1	0	1487
1992	0	0	0	35	234	229	373	439	284	118	3	0	1715
1993	0	0	3	20	88	287	388	371	279	73	0	0	1509
1994	0	0	0	11	76	279	390	420	277	28	0	0	1481
1995	0	0	0	7	85	206	392	434	286	100	0	0	1510
1996	0	0	1	49	116	302	516	470	233	98	0	0	1785
1997	0	0	0	20	201	221	358	331	296	31	7	0	1465
1998	0	0	0	20	2	116	369	411	242	2	0	0	1162
1999	0	0	0	19	44	210	269	271	217	66	0	0	1096
2000	0	0	0	11	130	300	285	321	211	20	0	0	1278
2001	0	0	2	15	257	299	330	341	213	69	1	0	1527
2002	0	0	0	5	84	252	367	288	264	40	0	0	1300
2003	0	0	0	0	112	251	472	325	275	88	0	0	1523
2004	0	0	2	42	86	231	345	335	239	63	0	0	1343
2005	0	0	1	0	108	193	518	433	178	47	0	0	1478
2006	0	0	0	11	125	339	535	325	214	9	2	0	1560
2007	0	0	9	45	158	290	412	428	201	23	0	0	1566
2008	0	0	0	24	115	273	381	415	266	53	0	0	1527
2009	0	0	0	41	171	211	357	335	309	20	0	0	1444
2010	0	0	0	2	22	239	313	245	216	88	1	0	1126
2011	0	0	1	6	23	176	311	319	304	51	0	0	1191
2012	0	0	0	42	103	203	321	378	247	76	0	0	1370
2013	0	0	0	46	135	281	388	319	204	2	0	0	1375

SNOWFALL (inches) 2013 STOCKTON (KSCK)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1978-79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1983-84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1988-89	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
1989-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1992-93	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1993-94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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-													
POR= 48 YRS	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T	0.0	T	0.0	T

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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 STOCKTON CALIFORNIA (KSCK)

Stockton, the county seat of San Joaquin County, is located near the center of the Great Central Valley of California. It is on the southeast corner of the broad delta formed by the confluence of the San Joaquin and Sacramento Rivers. The surrounding terrain is flat, irrigated farm and orchard land, near sea level, with the rivers and canals of the delta controlled by a system of levees.

Approximately 25 miles east and northeast of Stockton lie the foothills of the Sierra Nevada, rising gradually to an elevation of about 1,000 feet. Beyond the foothills, the mountains rise abruptly to the crest of the Sierra, at a distance of about 75 miles, with some peaks here exceeding 9,000 feet in elevation. On a few days during the year, when atmospheric conditions are favorable, the downslope effect of a north or northeast wind can bring unseasonably dry weather to the delta area, but on the whole the Sierra Nevada has little or no effect on the weather of San Joaquin County. The Sierra Nevada does affect the area, however, to the extent that the entire economy of the Great Valley depends upon the water supplied by the melting snows in the mountains.

To the west and southwest, the Coast Range, with peaks above 2,000 feet, form a barrier separating the Great Valley from the marine air which dominates the climate of the coastal communities. Several gaps in the Coast Range in the San Francisco Bay Area, however, permit the passage inland of a sea breeze which fans out into the delta and has a moderating effect on summer heat, with the result that Stockton enjoys slightly cooler summer days than communities in the upper San Joaquin and Sacramento Valleys.

The summer climate in Stockton is characterized by warm, dry days and relatively cool nights with clear skies and no rainfall. Winter brings mild temperatures and relatively light rains with frequent heavy fogs.

The annual rainfall averages about 14 inches, with 90 percent of the precipitation falling from November through April. Thunderstorms are infrequent, occurring on 3 or 4 days a year. Snow is practically unknown in the Stockton area.

In summer, temperatures exceeding 100 degrees can be expected on about 15 days. During these hot afternoons the air is extremely dry, with relative humidities running generally less than 20 percent. Even on these hot days, however, temperatures will fall into the low 60s at night. In winter the nighttime temperature on clear nights will fall to or slightly below freezing, and will rise in the afternoon into the low 50s.

In late autumn and early winter, clear still nights give rise to the formation of dense fogs, which normally settle in during the night and burn off sometime during the day. In December and January, the so-called fog season, under stagnant atmospheric conditions the fog may last for as long as 4 or 5 weeks, with only brief and temporary periods of clearing.

Station History

STOCKTON, CA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
STOCKTON METROPOLITAN AP	2002-01-23	2011-01-01	37° 53'	-121° 13'	26		ASOS, COOP
STOCKTON METROPOLITAN AP	2011-01-01	Present	37° 53'	-121° 13'	26		ASOS, COOP
STOCKTON METROPOLITAN AP	1981-12-31	1996-11-01	37° 54'	-121° 15'	22		COOP
STOCKTON FIELD	1946-08-01	1948-10-01	37° 54'	-121° 15'			AIRWAYS
STOCKTON MUNICIPAL AP	1963-01-01	1963-10-10	37° 54'	-121° 15'	22		AIRWAYS, COOP
STOCKTON FIELD	1948-10-01	1960-12-01	37° 54'	-121° 15'	26		AIRWAYS, COOP
STOCKTON METROPOLITAN AP	1963-10-10	1973-01-01	37° 54'	-121° 15'	22		AIRWAYS, COOP
STOCKTON MUNICIPAL AP	1960-12-01	1963-01-01	37° 54'	-121° 15'	26		AIRWAYS, COOP
STOCKTON METROPOLITAN AP	1996-11-01	2002-01-23	37° 53'	-121° 14'	22	1.2 MI E	ASOS, COOP
STOCKTON METROPOLITAN AP	1973-01-01	1981-12-31	37° 54'	-121° 15'	22		COOP, WXSVC

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1995-07-01	1996-11-01	DAILY	2400	HYGR		
PRECIP	1946-08-01	1982-01-01	DAILY	2400			
TEMP	1991-12-20	1995-04-01	DAILY	2400	HYGR		
PRECIP	1995-07-01	1996-11-01	DAILY	2400	UNIV	RCRD	
TEMP	1946-08-01	1982-01-01	DAILY	2400			
PRECIP	1989-01-10	1991-12-20	DAILY	2400	UNIV	RCRD	
TEMP	1989-01-10	1991-12-20	DAILY	2400	HYGR		
TEMP	1995-04-01	1995-07-01	DAILY	2400	HYGR		
PRECIP	2002-01-23	2011-01-01	HOURLY	2400	AHTB	SHLD; RCRD; HTD	
PRECIP	1989-01-10	1991-12-20	HOURLY	2400			
PRECIP	1991-12-20	1995-04-01	DAILY	2400			
PRECIP	1996-11-01	2002-01-23	DAILY	2400	TB	RCRD	
TEMP	2002-01-23	2011-01-01	DAILY	2400	ATEMP		
TEMP	2011-01-01	Present	DAILY	2400	ATEMP		
TEMP	1982-01-01	1989-01-10	DAILY	2400			
PRECIP	1995-04-01	1995-07-01	HOURLY	2400			
PRECIP	1995-04-01	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	1996-11-01	2002-01-23	DAILY	2400	HYGR		
PRECIP	2011-01-01	Present	HOURLY	2400	AHTB	SHLD; RCRD; HTD	
PRECIP	1982-01-01	1989-01-10	DAILY	2400			
PRECIP	2002-01-23	2011-01-01	DAILY	2400	PCPNX		
PRECIP	2011-01-01	Present	DAILY	2400	PCPNX	SHLD	
PRECIP	1982-01-01	1989-01-10	HOURLY	2400			
PRECIP	1991-12-20	1995-04-01	HOURLY	2400			
PRECIP	1995-07-01	1996-11-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1996-11-01	2002-01-23	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>

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