

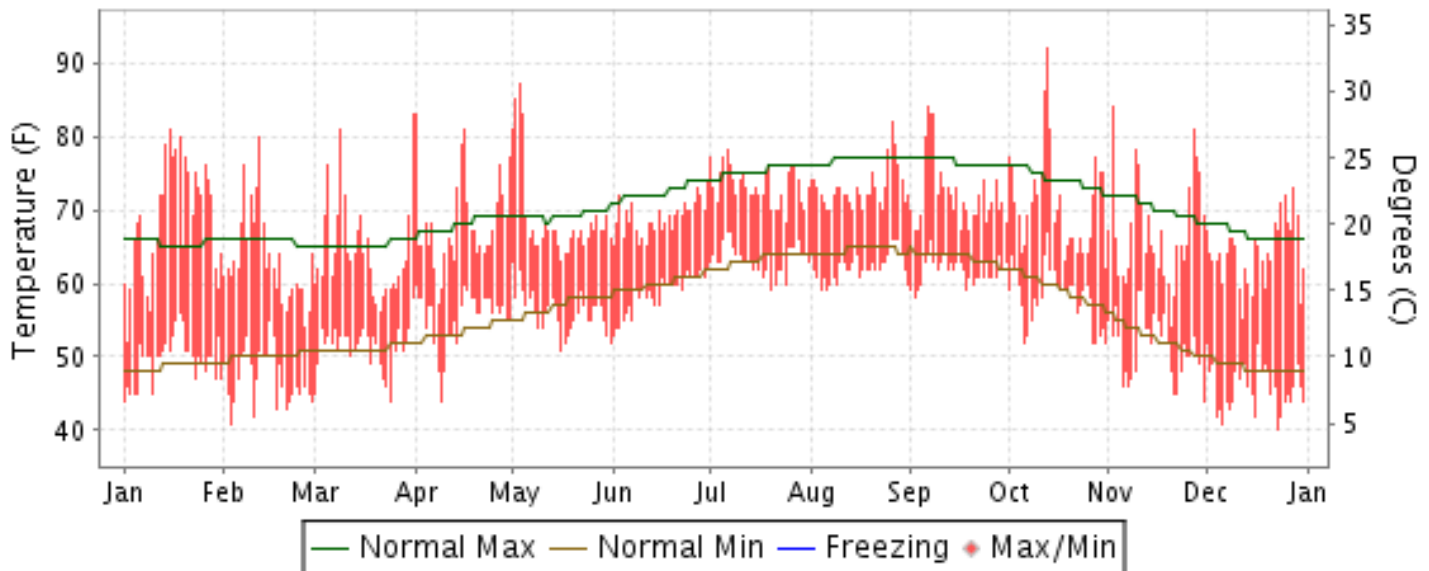


2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

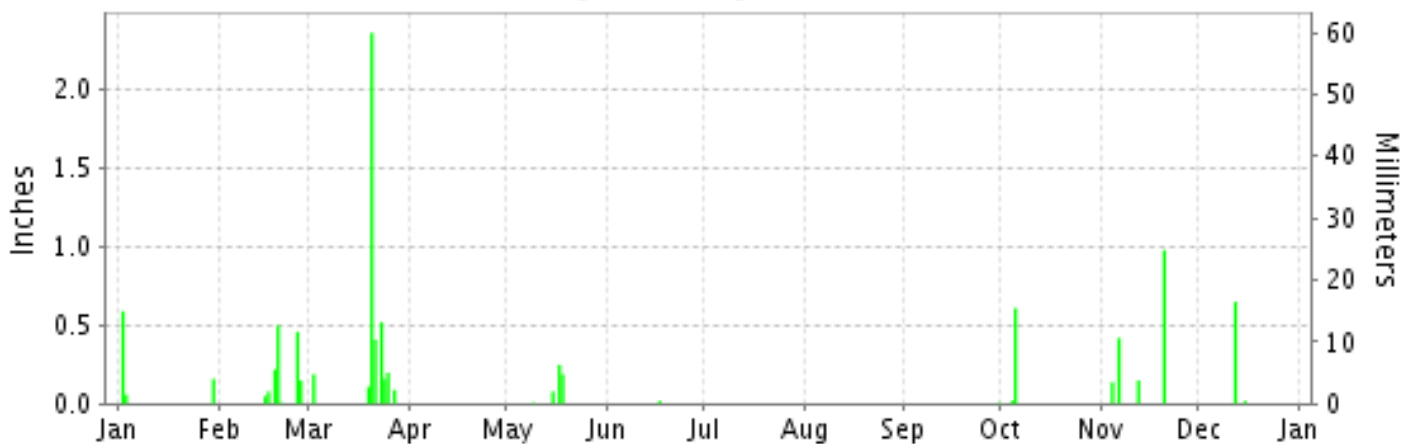
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LOS ANGELES, INTERNATIONAL AIRPORT (KLAX)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
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NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2011

LOS ANGELES (KLAX)

LATITUDE: 33° 56'N LONGITUDE: -118° 23'W ELEVATION (FT): GRND: 97 BARO: 326 TIME ZONE: PACIFIC (UTC -8) WBAN: 23174

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	68.7	63.3	64.5	68.1	68.7	68.9	73.3	72.9	72.1	70.9	67.0	64.2	68.6	
	HIGHEST DAILY MAXIMUM	81	80	83	83	87	74	78	82	84	92	84	73	92	
	DATE OF OCCURRENCE	15	12	31	01	03	30	06	26	06	13	02	28	OCT 13	
	MEAN DAILY MINIMUM	49.6	47.3	51.4	55.4	56.2	58.7	63.4	62.3	61.8	58.1	51.2	45.8	55.1	
	LOWEST DAILY MINIMUM	44	41	44	44	51	53	59	59	58	52	44	40	40	
	DATE OF OCCURRENCE	01	03	24	09	16	01	20	06+	02	31+	30	23	DEC 23	
	AVERAGE DRY BULB	59.2	55.3	58.0	61.8	62.5	63.8	68.4	67.6	67.0	64.5	59.1	55.0	61.9	
	MEAN WET BULB	49.3	48.2	52.3	54.4	55.0	58.4	62.4	61.9	61.5	58.2	51.8	47.4	55.1	
	MEAN DEW POINT	39.0	39.5	47.2	48.0	48.4	54.8	59.1	58.7	58.6	54.0	43.6	37.2	49.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	0	0	1	0	0	0	1
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	181	266	215	107	106	43	1	0	5	56	177	302	1459	
	COOLING DEGREE DAYS	7	1	8	18	30	12	110	88	72	46	9	0	401	
RH	MEAN (PERCENT)	53	60	70	65	65	76	75	77	79	74	63	57	68	
	HOUR 04 LST	62	70	79	74	74	82	83	85	86	80	70	64	76	
	HOUR 10 LST	38	45	61	55	56	68	66	68	68	61	54	42	57	
	HOUR 16 LST	53	57	66	61	60	72	70	71	76	74	64	59	65	
	HOUR 22 LST	57	66	74	68	72	82	82	83	83	80	64	61	73	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	4	3	3	1	1	1	1	2	3	6	1	3	29	
	THUNDERSTORMS	0	1	0	0	0	0	0	0	0	0	0	1	2	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.72	29.73	29.70	29.64	29.61	28.70	29.54	29.54	29.58	29.62	29.69	29.75	29.57	
	MEAN SEA-LEVEL PRESS. (IN.)	30.07	30.09	30.05	29.99	29.96	29.91	29.88	29.89	29.92	29.96	30.03	30.10	29.99	
WINDS	RESULTANT SPEED (MPH)	1.1	2.8	4.2	6.0	6.4	6.3	7.0	5.9	5.5	4.2	1.1	0.7	4.2	
	RES. DIR. (TENS OF DEGS.)	32	26	26	26	26	26	26	26	26	26	29	28	27	
	MEAN SPEED (MPH)	4.9	6.5	7.3	8.2	8.8	7.6	8.1	7.0	6.9	6.1	5.6	4.5	6.8	
	PREVAIL.DIR.(TENS OF DEGS.)	27	27	27	26	27	26	26	26	26	26	27	26	26	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	24	29	32	32	32	26	22	23	25	28	32	22	32	
	DIR. (TENS OF DEGS.)	28	12	13	27	27	27	26	27	27	28	33	03	33	
	DATE OF OCCURRENCE	30	18	20	07	29	02	31	25	04	05	30	22	NOV 30	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	32	36	43	37	39	36	26	26	28	36	47	40	47	
DIR. (TENS OF DEGS.)	01	12	13	27	27	28	26	27	27	27	36	35	36		
DATE OF OCCURRENCE	03	18	20	07	18	01	12	25	04	05	30	01	NOV 30		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.81	1.47	4.04	T	0.53	0.02	T	0.00	0.01	0.63	1.69	0.67		
	GREATEST 24-HOUR (IN.)	0.65	0.61	2.47	T	0.42	0.02	T	0.00	0.01	0.61	0.98	0.65		
	DATE OF OCCURRENCE	02-03	25-26	20-21	24+	17-18	17	14		30	05	20	12		
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	3	7	8	0	4	1	0	0	1	2	4	2		
PRECIPITATION 0.10	2	4	7	0	2	0	0	0	0	1	4	1			
PRECIPITATION 1.00	0	0	1	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 LOS ANGELES (KLAX)

LATITUDE: 33° 56'N **LONGITUDE:** -118° 23'W **ELEVATION (FT):** GRND: 97 BARO: 326 **TIME ZONE:** PACIFIC (UTC -8) **WBAN: 23174**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	65.6	65.8	65.3	68.0	69.3	72.6	75.3	76.8	76.5	74.3	70.4	66.7	70.6
	MEAN DAILY MAXIMUM	67	65.0	65.1	65.3	67.2	69.2	71.8	75.2	76.1	75.6	73.4	70.0	65.9	70.0
	HIGHEST DAILY MAXIMUM	76	91	92	95	102	97	104	97	98	110	106	101	94	110
	YEAR OF OCCURRENCE		2003	1963	1988	1989	1979	1981	1985	1955	1963	1961	1966	1958	SEP 1963
	MEAN OF EXTREME MAXS.	67	80.5	79.9	79.2	81.8	80.7	81.3	83.7	85.5	90.7	90.5	85.4	80.0	83.3
	NORMAL DAILY MINIMUM	30	48.6	50.1	51.3	53.6	56.9	60.1	63.3	64.5	63.6	59.4	52.7	48.5	56.1
	MEAN DAILY MINIMUM	67	47.5	48.8	50.4	52.9	56.4	59.6	62.9	63.7	62.4	58.5	52.2	47.9	55.3
	LOWEST DAILY MINIMUM	76	23	32	34	39	43	48	49	51	47	41	34	32	23
	YEAR OF OCCURRENCE		1937	1942	1939	1942	1938	1950	1942	1948	1948	1942	1939	1968	JAN 1937
	MEAN OF EXTREME MINS.	67	39.3	41.9	43.5	46.7	51.2	55.1	58.9	59.9	57.5	51.8	44.2	39.8	49.2
	NORMAL DRY BULB	30	57.1	58.0	58.3	60.8	63.1	66.4	69.3	70.7	70.1	66.9	61.6	57.6	63.3
	MEAN DRY BULB	67	56.2	57.0	57.9	60.1	62.8	65.7	69.1	69.9	69.0	65.9	61.1	56.9	62.6
	MEAN WET BULB	28	48.1	49.8	51.7	53.4	56.7	59.7	62.9	63.3	62.3	58.1	52.1	47.8	55.5
	MEAN DEW POINT	28	44.8	46.5	49.5	51.1	55.1	58.0	61.4	61.7	60.6	56.0	48.0	43.1	53.0
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	*	0.1	0.3	0.1	0.5	0.2	0.5	1.5	1.3	0.5	*	5.0
	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	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 <= 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	252	205	200	141	78	19	1	0	2	21	121	234	1274
	NORMAL COOLING DEG. DAYS	30	4	6	6	15	19	58	135	175	154	81	22	4	679
RH	NORMAL (PERCENT)	30	66	70	73	72	76	76	77	77	76	72	64	62	72
	HOUR 04 LST	30	73	77	81	81	84	86	87	86	85	80	72	68	80
	HOUR 10 LST	30	58	61	63	61	67	68	68	67	65	59	52	52	62
	HOUR 16 LST	30	62	65	68	65	68	68	68	69	68	67	61	58	66
	HOUR 22 LST	30	71	74	77	76	81	83	83	83	81	78	71	67	77
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	48	2.9	2.0	1.8	1.2	0.9	0.7	1.1	1.3	2.3	2.9	2.9	2.8	22.8
	THUNDERSTORMS	65	0.4	0.5	0.7	0.3	0.1	0.1	0.2	0.2	0.4	0.2	0.2	0.3	3.6
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	49	4.2	4.2	4.2	3.8	4.1	3.9	3.2	2.9	3.3	3.5	3.5	3.8	3.7
	MIDNIGHT-MIDNIGHT (OKTAS)	33	3.9	4.2	4.0	3.5	4.2	4.1	3.6	3.3	3.6	3.6	3.4	3.6	3.8
	MEAN NO. DAYS WITH: CLEAR	62	12.0	11.0	11.5	11.4	10.4	9.9	12.4	13.8	13.2	13.0	14.4	12.7	145.7
	PARTLY CLOUDY	62	8.0	6.5	8.7	9.2	10.8	11.3	12.9	11.7	10.3	9.8	7.7	8.3	115.2
	CLOUDY	62	10.9	10.7	10.8	9.3	9.8	8.9	5.2	5.0	6.1	7.8	7.5	9.6	101.6
PR	MEAN STATION PRESSURE(IN)	28	29.85	29.85	29.81	29.78	29.74	29.68	29.72	29.71	29.69	29.72	29.83	29.87	29.77
	MEAN SEA-LEVEL PRES. (IN)	28	30.10	30.05	30.02	29.98	29.94	29.91	29.92	29.91	29.89	29.95	30.03	30.08	29.98
WINDS	MEAN SPEED (MPH)	28	6.5	7.7	8.1	8.7	8.4	8.1	8.1	7.8	7.4	6.9	6.5	6.5	7.6
	PREVAIL.DIR.(TENS OF DEGS)	48	26	26	26	26	26	26	26	26	26	26	27	27	26
	MAXIMUM 2-MINUTE: SPEED (MPH)	14	36	38	43	45	36	28	28	25	32	38	39	43	45
	DIR. (TENS OF DEGS)		01	27	27	26	27	25	27	26	26	25	27	26	26
	YEAR OF OCCURRENCE		2007	2009	2009	1999	2010	2000	2003	2009	2004	2007	2008	2003	APR 1999
	MAXIMUM 3-SECOND SPEED (MPH)	14	49	45	53	53	47	36	31	32	38	46	47	49	53
	DIR. (TENS OF DEGS)		36	29	27	26	27	28	28	26	26	26	36	29	27
YEAR OF OCCURRENCE		2007	2009	2009	1999	2008	2011	2007	2009	2007	2007	2011	2006	MAR 2009	
PRECIPITATION	NORMAL (IN)	30	2.98	3.11	2.40	0.63	0.24	0.08	0.03	0.14	0.26	0.36	1.13	1.79	13.15
	MAXIMUM MONTHLY (IN)	76	12.71	13.79	6.37	4.52	2.55	0.74	0.32	2.47	4.39	3.78	7.92	8.83	13.79
	YEAR OF OCCURRENCE		1995	1998	1983	1965	1977	1993	1992	1977	1939	2004	1946	2010	FEB 1998
	MINIMUM MONTHLY (IN)	76	0.00	T	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	YEAR OF OCCURRENCE		1976	1964	1959	1979	1943	1978	1983	1981	1968	1969	1980	1990	DEC 1990
	MAXIMUM IN 24 HOURS (IN)	76	6.19	4.16	3.54	1.88	1.72	0.74	0.28	2.40	4.20	1.77	5.60	4.72	6.19
	YEAR OF OCCURRENCE		1956	1962	1968	1960	1977	1993	1992	1977	1939	1972	1967	2004	JAN 1956
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	6.4	6.3	6.5	2.6	1.3	0.5	0.4	0.5	1.2	2.0	3.1	4.7	35.5
PRECIPITATION >= 1.00	30	1.0	0.9	0.5	0.1	*	0.0	0.0	0.1	0.1	0.1	0.3	0.5	3.6	
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)	62	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T
	YEAR OF OCCURRENCE		1982	1951	1991									1971	MAR 1991
	MAXIMUM IN 24 HOURS (IN)	62	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T
	YEAR OF OCCURRENCE		1982	1951	1991									1971	MAR 1991
	MAXIMUM SNOW DEPTH (IN)	51	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) 2011 LOS ANGELES (KLAX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	2.78	0.66	3.41	1.61	0.11	0.01	0.00	T	0.78	0.18	3.48	0.66	13.68
1983	5.25	5.64	6.37	3.18	0.04	0.03	0.00	1.25	1.91	0.94	2.74	2.11	29.46
1984	0.39	0.01	0.14	1.16	T	T	0.00	0.29	0.09	0.28	1.24	4.21	7.81
1985	0.70	1.91	0.72	T	0.16	0.00	T	0.00	0.28	0.36	4.75	0.44	9.32
1986	2.31	5.36	4.89	0.30	0.00	T	0.09	T	1.44	0.10	1.14	0.30	15.93
1987	1.27	0.64	0.92	0.02	T	0.09	0.08	T	0.08	1.74	0.60	1.79	7.23
1988	1.61	1.79	0.08	1.14	T	T	0.00	0.02	0.07	T	0.73	2.52	7.96
1989	0.59	1.72	0.86	T	0.04	T	T	T	0.26	0.34	0.38	0.00	4.19
1990	1.18	2.60	0.14	0.34	0.83	T	0.00	0.02	T	0.00	0.10	0.03	5.24
1991	1.38	2.53	3.96	T	T	T	0.17	T	0.09	0.06	T	2.86	11.05
1992	1.61	4.70	5.08	0.18	0.04	T	0.32	0.00	0.00	0.50	0.00	4.16	16.59
1993	10.63	5.48	1.83	0.00	T	0.74	T	0.00	T	0.09	0.93	0.97	20.67
1994	0.33	4.36	1.01	0.44	0.08	0.00	T	T	0.00	0.14	0.66	1.05	8.07
1995	12.71	0.62	5.67	0.74	0.61	0.60	0.06	0.00	T	0.01	0.10	2.16	23.28
1996	1.94	4.19	1.36	0.42	0.05	0.00	T	.00	.00	1.46	1.93	4.74	16.09
1997	5.12	0.05	T	T	T	0.00	T	T	0.27	T	2.66	3.93	12.03
1998	3.71	13.79	3.37	1.00	2.46	0.09	0.00	T	0.01	T	1.89	0.74	27.06
1999	1.19	0.50	2.12	2.23	T	0.59	T	0.00	0.00	0.00	0.28	T	6.91
2000	0.85	4.71	2.39	1.88	T	0.00	0.00	0.03	0.03	1.12	0.00	T	11.01
2001	4.68	7.30	1.29	1.10	0.01	T	T	0.00	0.00	0.04	1.34	1.25	17.01
2002	0.73	0.35	0.27	0.02	0.11	0.05	0.00	T	0.08	0.05	1.60	1.77	5.03
2003	T	3.78	1.66	0.49	0.95	T	0.02	T	0.00	0.71	0.80	1.14	9.55
2004	0.49	4.61	0.77	0.03	0.04	T	0.00	0.00	T	3.78	0.11	6.49	16.32
2005	6.87	6.95	1.08	0.90	0.33	T	T	0.00	0.25	1.01	0.47	0.95	18.81
2006	1.42	2.03	2.52	1.63	0.60	0.01	0.10	0.01	T	T	0.25	0.61	9.18
2007	0.39	0.82	0.09	0.36	0.00	T	0.01	T	0.49	0.64	0.50	1.59	4.89
2008	4.67	2.17	0.03	0.03	0.11	0.00	0.00	T	T	T	1.50	2.51	11.02
2009	0.51	3.41	0.05	T	T	0.15	0.00	0.00	T	1.31	0.00	2.05	7.48
2010	4.30	3.23	0.21	1.25	0.08	T	T	0.00	0.00	1.56	0.59	8.83	20.05
2011	0.81	1.47	4.04	T	0.53	0.02	T	0.00	0.01	0.63	1.69	0.67	9.87
POR= 67 YRS	2.67	2.71	1.85	0.76	0.18	0.05	0.02	0.07	0.16	0.40	1.40	1.82	12.09

WBAN : 23174

AVERAGE TEMPERATURE (°F) 2011 LOS ANGELES (KLAX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	54.6	59.1	57.6	60.2	62.5	63.6	69.3	71.4	71.6	69.2	61.2	56.3	63.1
1983	58.9	57.4	57.8	59.2	62.5	65.4	69.6	73.6	72.4	69.5	61.0	57.1	63.7
1984	58.2	58.5	61.3	61.4	66.1	67.1	71.3	73.1	76.5	65.6	58.7	55.2	64.4
1985	55.5	56.6	55.2	60.7	61.2	66.0	71.4	69.9	68.7	67.1	58.6	59.1	62.5
1986	62.3	58.7	59.2	61.7	63.4	66.3	68.5	68.9	65.8	66.4	65.0	58.4	63.7
1987	55.0	58.3	58.9	63.1	64.2	64.7	66.3	67.7	69.6	69.0	61.9	53.9	62.7
1988	56.7	60.6	62.5	61.3	63.0	63.6	69.2	68.3	67.7	66.1	60.1	56.5	63.0
1989	55.4	54.8	58.9	64.7	62.5	65.2	69.4	67.7	68.3	65.9	65.1	60.5	63.2
1990	57.1	55.0	57.5	62.5	62.7	67.5	71.4	69.7	71.0	69.6	64.2	56.8	63.8
1991	57.2	59.9	55.0	61.0	60.3	63.9	67.0	69.0	67.8	67.3	63.4	58.7	62.5
1992	58.4	60.8	59.2	65.6	66.1	65.9	71.5	72.9	70.7	67.0	63.7	55.8	64.8
1993	56.2	57.0	60.5	62.8	65.1	68.3	69.5	69.5	69.0	68.4	63.6	58.4	64.0
1994	59.2	57.0	60.7	60.2	62.0	68.3	67.9	74.7	70.7	66.9	57.9	57.5	63.6
1995	56.8	61.7	60.1	60.5	60.3	64.4	68.2	68.9	70.7	67.3	62.9	58.9	63.4
1996	58.2	58.3	60.1	64.2	65.9	67.3	69.5	73.3	69.1	63.9	62.1	58.2	64.2
1997	57.3	58.7	59.9	61.8	67.6	68.8	69.4	72.9	74.7	68.6	63.2	56.9	65.0
1998	56.2	55.1	58.0	57.3	61.0	64.7	69.6	72.1	70.4	65.7	59.7	55.6	62.1
1999	57.2	56.5	55.7	58.4	63.4	65.0	70.4	68.8	67.8	68.1	60.6	59.2	62.6
2000	58.4	57.8	57.9	61.0	64.3	68.0	68.7	70.8	69.7	63.7	58.1	58.4	63.1
2001	54.9	54.2	57.8	57.1	64.0	67.4	67.9	68.4	67.9	65.2	60.6	55.6	61.8
2002	55.4	58.9	58.0	58.9	61.8	65.7	68.5	67.6	67.6	62.8	63.8	56.3	62.1
2003	62.1	58.1	59.2	58.3	61.1	65.1	71.5	71.0	67.8	67.4	59.6	56.8	63.2
2004	56.9	55.6	61.0	62.1	66.7	66.8	69.3	69.4	72.5	63.7	58.9	57.3	63.4
2005	57.4	58.2	58.6	59.9	64.0	65.0	68.6	69.7	67.6	65.0	63.8	59.1	63.1
2006	58.2	59.0	54.7	59.4	64.4	69.2	74.3	70.8	68.9	65.9	63.6	57.3	63.8
2007	54.5	57.5	60.0	60.1	62.1	64.8	69.9	71.4	68.3	66.3	61.5	55.9	62.7
2008	55.9	56.8	60.1	62.7	64.1	68.4	69.9	70.0	68.7	68.9	64.1	54.9	63.7
2009	60.1	56.3	57.7	60.2	63.9	65.0	68.4	68.8	69.9	65.0	61.6	56.2	62.8
2010	58.4	57.5	59.8	58.5	61.0	64.6	65.8	65.9	66.8	65.6	61.4	58.2	62.0
2011	59.2	55.3	58.0	61.8	62.5	63.8	68.4	67.6	67.0	64.5	59.1	55.0	61.9
POR= 67 YRS	56.2	57.0	57.9	60.1	62.8	65.7	69.1	69.9	69.0	65.9	61.1	56.9	62.6

HEATING DEGREE DAYS (base 65°F) 2011 LOS ANGELES (KLAX)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0	0	0	3	119	261	203	205	218	167	80	23	1279
1983-84	0	0	0	0	129	237	206	182	116	117	22	0	1009
1984-85	0	0	0	29	183	299	287	243	296	148	115	14	1614
1985-86	0	0	1	17	192	181	107	184	182	114	52	7	1037
1986-87	0	0	21	15	34	199	306	189	190	84	44	19	1101
1987-88	1	1	0	6	111	337	257	137	127	118	72	61	1228
1988-89	0	0	5	16	145	265	294	291	189	80	72	25	1382
1989-90	0	2	2	15	44	152	237	275	223	74	82	5	1111
1990-91	0	0	0	1	62	261	236	145	303	130	145	41	1324
1991-92	0	0	0	29	79	190	202	130	172	25	0	3	830
1992-93	0	0	0	2	67	277	269	216	147	69	23	10	1080
1993-94	0	0	0	3	59	199	181	217	142	144	88	1	1034
1994-95	0	0	0	15	207	226	249	125	147	135	138	37	1279
1995-96	0	0	0	8	66	182	216	194	149	65	19	4	903
1996-97	4	0	0	43	119	204	234	174	169	114	1	0	1062
1997-98	0	0	0	9	103	246	265	269	212	225	116	20	1465
1998-99	0	0	0	18	151	290	235	231	280	210	48	30	1493
1999-00	0	0	2	20	131	172	200	207	214	121	39	1	1107
2000-01	0	0	0	59	200	198	307	306	217	236	39	0	1562
2001-02	0	0	1	22	125	286	288	180	208	176	101	8	1395
2002-03	0	0	9	79	78	261	117	188	192	200	112	8	1244
2003-04	0	0	0	12	160	249	246	267	143	112	7	0	1196
2004-05	0	0	0	51	179	238	239	186	193	153	45	12	1296
2005-06	4	0	0	49	76	182	219	180	312	164	31	0	1217
2006-07	0	0	0	19	76	232	325	215	153	141	107	28	1296
2007-08	0	0	4	43	122	274	276	236	157	137	69	7	1325
2008-09	0	0	0	20	77	306	177	244	221	171	40	12	1268
2009-10	3	1	0	49	104	263	198	205	171	192	119	15	1320
2010-11	14	17	28	27	158	215	181	266	215	107	106	43	1377
2011-	1	0	5	56	177	302							

WBAN : 23174

COOLING DEGREE DAYS (base 65°F) 2011 LOS ANGELES (KLAX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	3	1	10	6	7	144	204	205	140	15	0	735
1983	22	0	0	1	11	40	151	274	231	146	17	0	893
1984	4	0	8	14	61	69	202	257	352	54	0	1	1022
1985	0	14	0	25	2	51	203	160	118	91	6	6	676
1986	29	11	9	24	9	52	115	124	52	64	40	2	531
1987	3	11	9	34	27	17	47	94	148	136	22	0	548
1988	9	16	56	14	17	26	134	109	91	56	1	8	537
1989	5	12	6	80	2	34	145	93	105	48	55	18	603
1990	1	1	1	5	16	86	204	151	187	147	43	13	855
1991	1	4	0	17	9	13	70	129	92	107	37	2	481
1992	5	14	0	50	43	36	207	250	177	73	31	0	886
1993	4	0	13	12	32	116	148	147	128	114	23	5	742
1994	7	0	18	6	4	105	94	310	176	81	2	2	805
1995	3	37	0	7	0	24	108	130	176	87	6	0	578
1996	12	9	5	47	53	81	150	265	131	15	39	0	807
1997	0	5	16	25	86	121	143	252	298	130	56	2	1134
1998	0	0	1	0	0	18	150	227	171	42	0	3	612
1999	0	1	0	17	5	35	176	124	94	121	4	0	577
2000	4	3	2	7	23	98	118	182	146	25	2	2	612
2001	4	9	0	5	11	80	94	110	95	34	2	2	446
2002	0	15	0	0	9	33	115	87	92	18	49	0	418
2003	33	1	19	6	1	18	210	193	89	94	6	1	671
2004	0	0	29	33	69	60	141	141	232	18	0	5	728
2005	9	0	0	6	20	19	122	151	81	55	50	4	517
2006	11	20	0	0	19	130	291	182	122	56	51	1	883
2007	6	11	17	0	27	26	161	203	111	92	25	0	679
2008	2	5	14	76	50	117	156	163	115	148	58	0	904
2009	32	4	1	33	11	17	115	127	155	59	9	0	563
2010	3	4	17	3	3	10	45	50	90	53	59	11	348
2011	7	1	8	18	30	12	110	88	72	46	9	0	401

SNOWFALL (inches) 2011 LOS ANGELES (KLAX)

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	T	0.0	0.0	0.0	0.0	0.0	T
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1989-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1993-94	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
1994-95	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
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	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= 52 YRS	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	T

WBAN : 23174

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. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). 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 AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD. CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.</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 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 HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm 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 the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2011 LOS ANGELES INTERNATIONAL AIRPORT (KLAX)

Predominating influences on the climate of the Los Angeles International Airport are the Pacific Ocean, 3 miles to the west, the southern California coastal mountain ranges which line the inland side of the coastal plain surrounding the airport, and the large scale weather patterns which allow Pacific storm paths to extend as far south as the Los Angeles area only during late fall, winter, and early spring. Marine air covers the coastal plain most of the year but air from the interior reaches the coast at times, especially during the fall and winter months. The coast ranges act as a buffer to the more extreme conditions of the interior. Pronounced differences in temperature, humidity, cloudiness, fog, sunshine, and rain occur over fairly short distances on the coastal plains and the adjoining foothills due to the local topography and the decreased marine effect further inland. In general, temperature ranges are least and humidity highest close to the coast, while precipitation increases with elevation on the foothills.

The most characteristic feature of the climate of the coastal plain around the station is the night and morning low cloudiness and sunny afternoons which prevail during the spring and summer months and occur often during the remainder of the year. The coastal low cloudiness, combined with the westerly sea breeze, produces mild temperatures throughout the year. Daily temperature range is usually less than 15 degrees in spring and summer and about 20 degrees in fall and winter. Hot weather is not frequent at any season along the coast, although readings have exceeded the mid 80s at the airport every month of the year. When high temperatures do occur, the humidity is almost always low so that discomfort is unusual. Nighttime temperatures are generally cool but minimum temperatures below 40 degrees are rare and periods of over 10 years have passed with no readings below freezing at the airport. Prevailing daytime winds are from the west, but night and early morning breezes are usually light and from the east and northeast. Strongest winds observed at the station have been from the west and north following winter storms. During the fall, winter, and spring, gusty dry northeasterly Santa Ana winds blow over southern California mountains and through passes to the coast. These winds rarely reach L.A. International Airport but extremely dry air and dust clouds associated with them can be expected several times each year.

Precipitation occurs mainly in the winter. Measurable rain may fall on about one day in four from late October into early April, but in three years out of four, traces or less are reported for the entire months of July and August. Thunderstorms do not occur often near the coast, but showers and thunderstorms are observed over the coastal ranges at times during the summer when moist air from the south and southeast invades southern California. Annual rainfall at Los Angeles International Airport is somewhat less than that recorded on the Palos Verdes Hills, rising to an elevation of nearly 1,500 feet on a peninsula 12 miles to the south, and on the Hollywood Hills and Santa Monica Mountains which extend east-west 12 miles north of the station with peaks reaching to nearly 2,000 feet. Traces of snow have fallen at Los Angeles International Airport only a few times, melting as they fell.

Visibility at Los Angeles International Airport is frequently restricted by haze, fog, or smoke. Low visibilities are favored by a layer of moist marine air with warm dry air above and light winds but at times a moderate afternoon sea breeze will bring a fog bank ashore and over the airport. Light fog occurs at some time nearly every month, but heavy fog is observed least during the summer and can be expected on about one night or early morning in four during the winter.

Station History

LOS ANGELES, CA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
LOS ANGELES MUNICIPAL AP	1943-01-21	1944-08-01	33° 55'	-118° 22'			AIRWAYS
LOS ANGELES MUNICIPAL AP	1944-08-01	1947-01-01	33° 55'	-118° 22'	125		AIRWAYS, COOP
LOS ANGELES INTL AP	1947-04-07	1967-12-31	33° 55'	-118° 22'	121		AIRWAYS, COOP
LOS ANGELES INTL AP	1992-08-12	1997-03-01	33° 55'	-118° 24'	100		COOP
LOS ANGELES INTL AP	2010-02-11	Present	33° 56'	-118° 23'	97		ASOS, COOP
LOS ANGELES MINES FIELD	1935-08-01	1943-01-21	33° 55'	-118° 22'			AIRWAYS
LOS ANGELES MINES FIELD	1934-07-01	1934-07-31	33° 55'	-118° 22'			AIRWAYS
LOS ANGELES MUNICIPAL AP	1947-01-01	1947-04-07	33° 55'	-118° 22'	121		AIRWAYS, COOP
LOS ANGELES INTL AP	1968-05-29	1973-01-01	33° 55'	-118° 24'	97		AIRWAYS, COOP
LOS ANGELES INTL AP	1997-03-01	2002-03-01	33° 56'	-118° 24'	100		ASOS, COOP
LOS ANGELES INTL AP	1973-01-01	1981-12-31	33° 55'	-118° 24'	97		COOP, WXSVC
LOS ANGELES INTL AP	1981-12-31	1992-08-12	33° 55'	-118° 24'	97		COOP
LOS ANGELES MINES FIELD	1930-12-01	1933-03-31	33° 55'	-118° 22'			AIRWAYS
LOS ANGELES INTL AP	2002-03-01	2010-02-11	33° 56'	-118° 23'	97		ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1944-08-01	1967-12-31	DAILY	2400	PCPN1		
PRECIP	1995-07-01	1997-09-01	DAILY	2400	UNIV	RCRD	
TEMP	1944-08-01	1967-12-31	DAILY	2400	HTG		
TEMP	1968-05-29	1992-08-12	DAILY	2400	HTG		
PRECIP	1968-05-29	1992-08-12	DAILY	2400	PCPN1		
PRECIP	1992-08-12	1995-07-01	HOURLY	2400			
TEMP	1995-07-01	1997-09-01	DAILY	2400	MXMN		
TEMP	1997-09-01	2002-03-01	DAILY	2400	HYGR		
TEMP	1930-12-01	1944-08-01	DAILY	2400	HTG		
PRECIP	1995-07-01	1997-09-01	HOURLY	2400	UNIV	RCRD	
PRECIP	2002-03-01	Present	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2002-03-01	Present	DAILY	2400	PCPNX		
TEMP	2002-03-01	Present	DAILY	2400	TEMPX		
PRECIP	1944-08-01	1967-12-31	HOURLY	2400			
PRECIP	1930-12-01	1944-08-01	DAILY	2400	PCPN1		
PRECIP	1997-09-01	2002-03-01	HOURLY	2400		RCRD	
PRECIP	1997-09-01	2002-03-01	DAILY	2400	TB	RCRD	
PRECIP	1968-05-29	1992-08-12	HOURLY	2400			
TEMP	1992-08-12	1995-07-01	DAILY	2400	MXMN		
PRECIP	1992-08-12	1995-07-01	DAILY	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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