

1998

LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



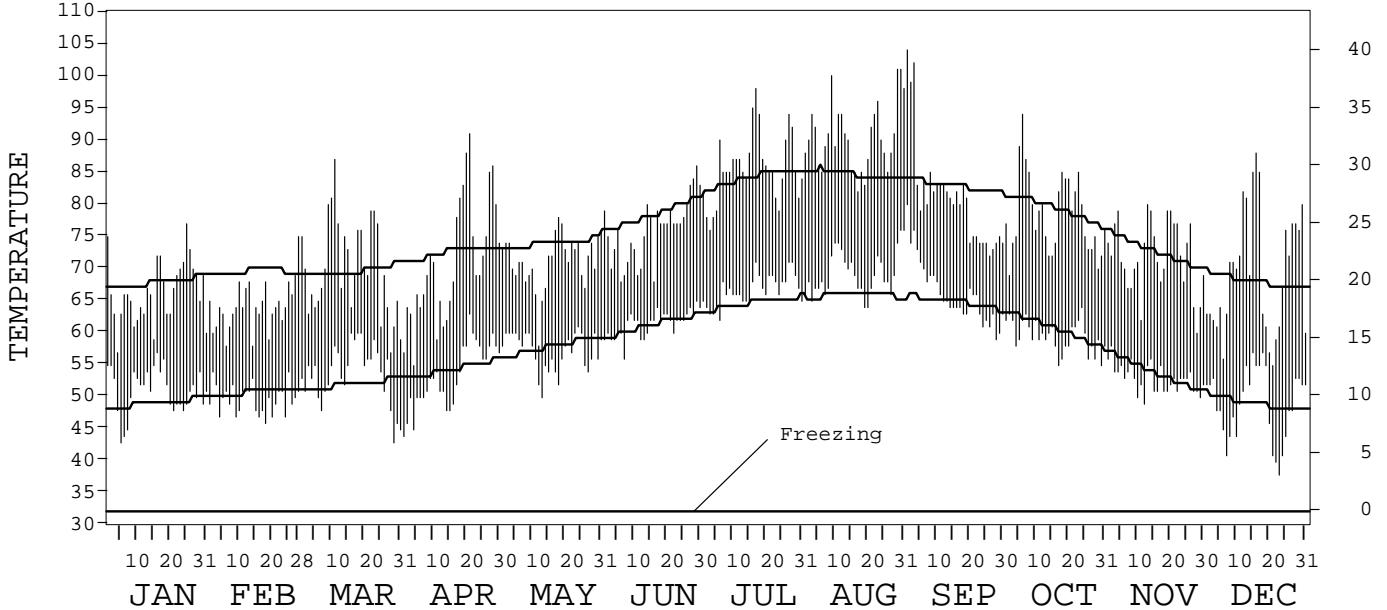
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LOS ANGELES, CALIFORNIA
CIVIC CENTER (5115)

Daily Data

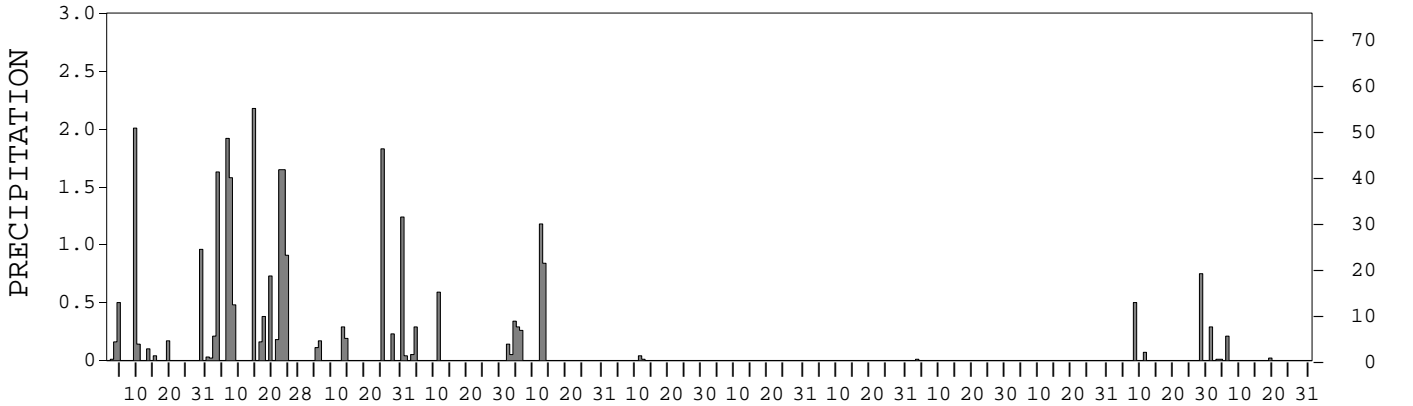
Fahrenheit

Celsius



Inches

Millimeters



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE
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METEOROLOGICAL DATA FOR 1998

LOS ANGELES C.O., CA (5115)

LATITUDE: 34° 03' 0" N LONGITUDE: 118° 14' 0" W ELEVATION (FT): GRND: 270 BARO: 270 TIME ZONE: PACIFIC (UTC+ 8) WBAN: 93134

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	66.5	64.3	70.2	71.1	71.2	76.1	85.7	90.5	81.0	78.5	71.9	69.3	74.7	
	HIGHEST DAILY MAXIMUM	77	75	87	91	78	86	98	101	104	94	80	88	104	
	DATE OF OCCURRENCE	25	28	11	21	18	29	17	30+	01	06	13	16	SEP 01	
	MEAN DAILY MINIMUM	51.0	49.8	53.6	53.3	57.2	61.4	66.7	69.2	66.2	59.5	52.9	48.9	57.5	
	LOWEST DAILY MINIMUM	43	46	26	44	50	56	62	64	59	55	49	38	26	
	DATE OF OCCURRENCE	05	18	27	01	13	07	06	20+	28	30+	12	23	MAR 27	
	AVERAGE DRY BULB	58.8	57.1	61.9	62.2	64.2	68.8	76.2	79.9	73.6	69.0	62.4	59.1	66.1	
	MEAN WET BULB														
	MEAN DEW POINT														
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	1	0	0	7	17	3	1	0	0	29	
MAXIMUM ≤ 32°	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		
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	185	216	118	130	36	3	0	0	0	1	79	200	968	
	COOLING DEGREE DAYS	0	0	29	53	18	125	356	468	266	132	11	24	1482	
RH	MEAN (PERCENT)														
	HOUR 04 LST														
	HOUR 10 LST														
	HOUR 16 LST														
	HOUR 22 LST														
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)														
	THUNDERSTORMS														
CLOUDINESS	AVG. SKY COVER (OKTAS)														
	SUNRISE - SUNSET														
	MIDNIGHT - MIDNIGHT														
	NUMBER OF DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESS. (IN.)														
	MEAN SEA-LEVEL PRESS. (IN.)														
WINDS	RESULTANT SPEED (MPH)														
	RES. DIR. (TENS OF DEGS.)														
	MEAN SPEED (MPH)														
	PREVAIL.DIR.(TENS OF DEGS.)														
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)														
	DIR. (TENS OF DEGS.)														
	DATE OF OCCURRENCE														
	PEAK GUST :														
SPEED (MPH)															
DIR. (TENS OF DEGS.)															
DATE OF OCCURRENCE															
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	4.12	13.68	4.06	0.97	3.10	0.05	0.00	0.00	0.01	0.00	1.32	0.54	27.85	
	GREATEST 24-HOUR (IN.)	2.15	2.41	1.83	0.59	2.00	0.05	0.00	0.00	0.01	0.00	0.75	0.29	2.41	
	DATE OF OCCURRENCE	09-10	23-24	25	11	12-13	11-12			03		28	01	FEB 23-24	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	10	14	7	4	7	2	0	0	1	0	3	5	53	
PRECIPITATION ≥ 0.10	7	13	7	2	6	0	0	0	0	0	2	2	39		
PRECIPITATION ≥ 1.00	1	6	2	0	1	0	0	0	0	0	0	0	10		
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 C.O., CA (5115)

LATITUDE: 34° 03' 0" N LONGITUDE: 118° 14' 0" W ELEVATION (FT): GRND: 270 BARO: 270 TIME ZONE: PACIFIC (UTC+ 8) WBAN: 93134

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	67.7	69.4	69.5	72.3	73.9	78.3	84.0	84.5	82.7	79.0	72.4	67.8	75.1
	MEAN DAILY MAXIMUM	78	66.4	67.7	68.8	71.3	73.4	77.2	82.7	83.5	82.2	77.8	73.2	67.7	74.3
	HIGHEST DAILY MAXIMUM	58	95	95	98	106	102	112	107	105	110	108	100	91	112
	YEAR OF OCCURRENCE		1971	1995	1988	1989	1967	1990	1985	1983	1988	1987	1966	1979	JUN 1990
	MEAN OF EXTREME MAXS.	78	80.9	82.3	84.1	87.8	89.1	89.8	93.1	94.4	96.7	94.5	87.6	81.7	88.5
	NORMAL DAILY MINIMUM	30	48.9	50.6	51.8	54.2	57.7	61.1	64.5	65.7	64.6	60.3	53.5	48.8	56.8
	MEAN DAILY MINIMUM	78	48.4	49.9	51.1	53.7	56.8	59.8	63.3	64.3	63.0	59.0	53.6	49.5	56.0
	LOWEST DAILY MINIMUM	58	28	34	26	39	46	50	54	53	51	41	38	30	26
	YEAR OF OCCURRENCE		1949	1989	1998	1975	1964	1953	1952	1943	1948	1971	1978	1978	MAR 1998
	MEAN OF EXTREME MINS.	78	39.8	42.3	43.6	46.9	51.2	54.7	58.8	59.8	57.2	52.0	45.2	40.9	49.4
	NORMAL DRY BULB	30	58.3	60.1	60.7	63.3	65.8	69.7	74.3	75.1	73.7	69.7	63.0	58.3	66.0
	MEAN DRY BULB	78	57.4	58.8	60.0	62.5	65.1	68.4	73.0	73.9	72.6	68.4	63.4	58.6	65.2
	MEAN WET BULB														
	MEAN DEW POINT														
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.1	0.2	0.3	1.1	1.3	2.1	4.1	5.3	5.9	3.4	0.7	*	24.5	
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	0.1	0.1	
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	222	170	169	128	72	35	0	0	10	17	105	226	1154
	NORMAL COOLING DEG. DAYS	30	14	32	36	77	97	176	293	316	271	162	45	18	1537
RH	NORMAL (PERCENT)														
	HOUR 04 LST														
	HOUR 10 LST														
	HOUR 16 LST														
	HOUR 22 LST														
S	PERCENT POSSIBLE SUNSHINE	32	69	72	73	70	66	65	82	83	79	73	74	71	73
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	25	1.4	1.8	1.1	1.2	0.5	0.6	0.5	0.8	1.4	2.5	2.4	2.0	16.2
	THUNDERSTORMS	25	0.5	1.1	0.9	0.8	0.2	0.1	0.2	0.4	0.4	0.3	0.6	0.7	6.2
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	34	3.5	3.8	3.8	3.8	3.8	3.4	2.2	2.1	2.4	3.0	3.0	3.4	3.2
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR	34	14.3	12.4	12.9	12.0	11.4	13.6	20.9	22.4	18.4	16.1	16.5	15.0	185.9
	PARTLY CLOUDY	34	8.1	6.9	9.3	9.8	11.8	10.5	8.9	7.4	8.4	9.3	7.4	8.0	105.8
	CLOUDY	34	8.5	9.0	8.7	8.2	7.8	5.9	1.1	1.2	3.3	5.6	6.1	8.0	73.4
PR	MEAN STATION PRESSURE (IN)														
	MEAN SEA-LEVEL PRES. (IN)														
WINDS	MEAN SPEED (MPH)	24	6.8	6.9	7.0	6.6	6.3	5.7	5.4	5.3	5.3	5.7	6.4	6.6	6.2
	PREVAIL. DIR (TENS OF DEGS)														
	FASTEST MILE:														
	SPEED (MPH)	36	49	40	47	40	39	32	21	24	27	48	42	44	49
	DIR.		N	NW	NW	NW	NW	N	W	E	NW	N	N	SE	N
	YEAR OF OCCURRENCE		1946	1961	1964	1955	1945	1949	1947	1945	1941	1959	1946	1943	JAN 1946
	PEAK GUST:														
	SPEED (MPH)														
	DIR. (TENS OF DEGS)														
	YEAR OF OCCURRENCE														
PRECIPITATION	NORMAL (IN)	30	2.92	3.07	2.61	1.03	0.19	0.03	0.01	0.14	0.45	0.31	1.98	2.03	14.77
	MAXIMUM MONTHLY (IN)	58	14.94	13.68	8.37	6.02	3.10	0.76	0.18	2.26	2.82	2.37	9.68	6.57	14.94
	YEAR OF OCCURRENCE		1969	1998	1983	1965	1998	1993	1986	1977	1976	1987	1965	1971	JAN 1969
	MINIMUM MONTHLY (IN)	58	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	1951	1959	1979	1981	1982	1983	1982	1980	1980	1980	1990	DEC 1990
	MAXIMUM IN 24 HOURS (IN)	58	6.11	4.02	3.79	2.05	2.41	0.76	0.18	2.22	1.95	1.77	4.07	3.92	6.11
	YEAR OF OCCURRENCE		1956	1944	1978	1956	1977	1993	1986	1977	1986	1983	1970	1965	JAN 1956
	NORMAL NO. DAYS WITH:														
	PRECIPITATION ≥ 0.01	30	5.3	5.3	6.2	3.4	1.0	0.5	0.2	0.7	1.8	1.8	3.6	4.4	34.2
	PRECIPITATION ≥ 1.00	30	1.0	1.2	0.7	0.2	0.1	0.0	0.0	*	0.1	*	0.6	0.6	4.5
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)	56	0.3	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.3
	YEAR OF OCCURRENCE		1949	1951										1947	JAN 1949
	MAXIMUM IN 24 HOURS (IN)	56	0.3	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.3
	YEAR OF OCCURRENCE		1949	1951										1947	JAN 1949
	MAXIMUM SNOW DEPTH (IN)	56	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) 1998 LOS ANGELES, CALIFORNIA CA (5115)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	14.94	8.03	1.49	0.63	0.03	T	0.03	0.00	T	0.00	1.11	0.06	26.32
1970	1.59	2.58	2.36	0.00	0.00	0.04	0.00	0.00	0.00	0.00	5.05	4.92	16.54
1971	0.43	0.67	0.53	0.50	0.22	0.00	T	0.00	T	0.04	0.30	6.57	9.26
1972	0.00	0.13	T	0.03	0.03	0.07	0.00	0.35	0.02	0.29	3.26	2.36	6.54
1973	4.39	7.89	2.70	0.00	T	0.00	0.00	0.00	0.00	0.12	1.68	0.67	17.45
1974	8.35	0.14	3.78	0.10	0.08	0.00	0.00	0.00	0.00	0.58	0.07	3.59	16.69
1975	0.12	3.54	4.83	1.53	0.09	0.00	0.00	0.00	0.00	0.27	0.00	0.32	10.70
1976	0.00	3.71	1.81	0.84	0.05	0.22	0.00	0.08	2.82	0.24	0.49	0.75	11.01
1977	2.84	0.17	1.89	0.00	3.03	0.00	0.00	2.26	0.00	0.00	0.08	4.70	14.97
1978	7.70	8.91	8.02	1.77	0.00	0.00	0.00	0.00	0.39	0.05	2.28	1.45	30.57
1979	6.59	3.06	5.85	0.00	0.00	0.00	0.00	0.01	T	0.77	0.21	0.51	17.00
1980	7.50	12.75	4.79	0.31	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.85	26.33
1981	2.02	1.48	4.10	0.53	0.00	0.00	0.00	0.00	0.02	0.49	1.80	0.48	10.92
1982	2.17	0.70	3.54	1.39	0.12	0.00	0.00	0.00	0.84	0.19	4.41	1.05	14.41
1983	6.49	4.37	8.37	5.16	0.36	0.01	0.00	0.79	1.99	0.75	2.52	3.23	34.04
1984	0.17	0.00	0.28	0.69	0.00	0.01	0.00	0.40	0.23	0.15	1.44	5.53	8.90
1985	0.71	2.84	1.29	0.00	0.23	0.00	0.00	0.00	0.19	0.42	2.91	0.33	8.92
1986	2.19	6.10	5.27	0.45	0.00	0.00	0.18	0.00	1.97	0.53	0.94	0.37	18.00
1987	1.39	1.22	0.95	0.06	0.00	0.05	0.01	0.00	0.09	2.37	1.13	1.84	9.11
1988	1.65	1.72	0.26	3.41	0.00	0.00	0.00	0.05	0.04	0.00	0.70	3.80	11.63
1989	0.73	1.90	0.81	0.00	0.05	0.00	0.00	0.00	0.35	0.43	0.29	0.00	4.56
1990	1.24	3.12	0.17	0.58	1.17	0.00	0.00	0.02	0.00	0.00	0.19	0.00	6.49
1991	1.69	4.13	5.92	0.03	0.00	0.01	0.13	0.00	0.09	0.37	0.00	3.22	15.59
1992	1.74	7.96	7.12	0.33	0.04	0.00	0.08	0.00	0.00	0.70	0.00	4.68	22.65
1993	11.77	6.61	2.74	0.00	0.02	0.76	0.00	0.00	0.00	0.16	0.66	0.78	23.50
1994	0.33	3.21	1.86	0.83	0.28	0.00	0.00	0.00	0.00	0.19	0.61	1.35	8.66
1995	12.56	1.30	6.98	0.58	0.18	0.60	0.02	0.00	0.00	0.00	0.09	1.34	23.65
1996	3.16	4.94	2.16	0.71	0.04	0.00	0.00	0.00	0.00	1.06	1.59	4.09	17.75
1997	5.58	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	2.06	2.52	10.69
1998	4.12	13.68	4.06	0.97	3.10	0.05	0.00	0.00	0.01	0.00	1.32	0.54	27.85
POR= 121 YRS	3.16	3.23	2.68	1.02	0.31	0.07	0.01	0.06	0.24	0.41	1.31	2.39	14.89

WBAN : 93134

AVERAGE TEMPERATURE (°F) 1998 LOS ANGELES, CALIFORNIA CA (5115)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	58.3	54.9	59.7	63.8	66.6	67.2	73.8	77.0	71.7	67.3	65.2	59.2	65.4
1970	57.6	61.4	61.2	60.9	67.4	70.0	75.3	76.2	74.4	68.3	63.3	57.2	66.1
1971	58.8	59.2	60.3	62.0	64.0	68.8	74.2	78.9	74.6	67.4	60.2	52.8	65.1
1972	55.5	60.3	63.7	63.9	67.6	72.2	78.0	77.4	72.3	67.2	62.2	58.1	66.5
1973	56.4	60.0	57.9	63.1	65.8	72.0	72.4	73.6	70.0	68.8	60.0	59.9	65.0
1974	55.2	59.2	59.6	64.7	65.7	72.2	74.1	72.3	73.2	67.6	64.0	56.2	65.3
1975	57.6	55.8	55.7	56.0	62.7	65.7	72.5	71.9	74.0	66.4	61.2	57.0	63.0
1976	59.4	56.4	58.4	57.8	64.3	71.1	72.6	71.6	72.6	70.7	66.9	60.4	65.2
1977	58.1	63.1	56.9	63.7	61.9	69.2	74.2	75.6	71.8	69.0	66.3	60.8	65.9
1978	58.1	58.9	63.2	60.8	68.6	71.8	73.4	73.7	76.0	70.3	58.4	53.2	65.5
1979	53.3	55.0	57.9	62.7	65.4	71.5	72.1	72.9	77.4	68.7	64.6	63.2	65.4
1980	60.9	64.6	60.9	64.8	63.2	71.8	77.1	76.3	72.6	71.5	65.3	63.7	67.7
1981	61.8	64.3	62.0	66.0	68.9	77.4	77.2	78.3	75.0	68.5	65.0	62.1	68.9
1982	57.1	64.0	59.3	62.2	64.4	65.3	74.0	75.1	73.9	70.9	61.7	58.1	65.5
1983	61.9	63.0	63.9	63.2	70.7	70.7	75.9	80.8	79.1	74.2	63.5	59.8	68.9
1984	61.2	61.9	65.6	65.3	72.4	72.2	78.7	76.4	81.3	68.5	61.0	57.2	68.5
1985	57.5	60.4	59.3	66.8	66.3	73.5	79.2	75.7	71.8	71.3	60.4	61.7	67.0
1986	65.9	62.4	64.5	66.4	68.1	71.2	73.2	76.0	68.8	69.4	66.4	60.1	67.7
1987	57.2	60.3	61.2	67.8	68.1	69.7	70.8	73.0	75.2	71.9	62.9	54.4	66.0
1988	58.3	62.9	64.9	64.1	67.2	67.9	74.3	72.9	72.2	69.7	61.9	57.1	66.1
1989	56.3	56.4	62.4	67.9	66.2	69.8	75.1	72.8	74.5	69.2	66.7	62.7	66.7
1990	59.4	58.0	61.7	65.7	66.9	74.3	77.3	74.0	76.0	73.2	65.6	57.5	67.5
1991	59.2	63.5	56.8	64.2	63.9	67.1	71.0	73.1	73.6	72.1	66.2	59.6	65.9
1992	60.3	62.3	60.8	69.6	69.0	70.4	75.9	78.9	76.6	70.4	65.1	56.5	68.0
1993	57.3	58.3	64.5	67.0	68.9	72.4	73.0	74.4	74.3	71.2	64.6	60.8	67.2
1994	62.2	59.3	64.7	64.3	65.1	74.4	73.6	80.5	76.5	70.4	59.9	59.9	67.6
1995	58.4	65.3	62.6	64.8	64.0	69.0	75.8	77.5	77.0	71.5	67.1	60.9	67.8
1996	60.9	61.3	63.0	68.8	69.0	71.9	75.1	77.2	73.5	67.0	64.3	59.7	67.6
1997	58.7	61.0	65.1	65.7	72.7	71.0	73.2	77.6	79.8	71.1	65.2	58.9	68.3
1998	58.8	57.1	61.9	62.2	64.2	68.8	76.2	79.9	73.6	69.0	62.4	59.1	66.1
POR= 121 YRS	56.4	57.6	59.1	61.4	64.0	67.7	72.0	72.8	71.4	67.2	62.4	57.8	64.2

HEATING DEGREE DAYS (base 65°F) 1998 LOS ANGELES, CALIFORNIA CA (5115)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0	0	0	22	52	182	222	106	128	134	27	1	874
1970-71	0	0	0	8	72	243	255	184	154	127	77	11	1131
1971-72	0	0	0	94	153	369	288	132	61	61	35	0	1193
1972-73	0	0	0	14	97	230	266	136	214	77	32	2	1068
1973-74	0	0	1	8	156	174	300	160	171	54	32	1	1057
1974-75	0	0	0	25	73	268	243	254	283	262	75	21	1504
1975-76	0	0	0	31	132	247	190	246	215	215	50	12	1338
1976-77	0	0	0	0	62	138	215	86	247	57	108	1	914
1977-78	0	0	0	14	51	132	209	174	102	122	24	0	828
1978-79	0	0	0	7	209	361	354	274	226	80	46	6	1563
1979-80	0	0	0	1	59	114	128	60	123	79	75	4	643
1980-81	0	0	0	2	41	85	103	91	97	43	1	0	463
1981-82	0	0	0	11	58	102	238	58	184	113	41	16	821
1982-83	0	0	0	3	117	205	134	73	68	68	2	0	670
1983-84	0	0	0	0	99	158	140	99	29	59	5	0	589
1984-85	0	0	0	4	129	239	225	162	179	40	21	0	999
1985-86	0	0	0	0	163	131	42	125	92	32	7	0	592
1986-87	0	0	8	2	14	151	241	140	131	31	19	0	737
1987-88	0	0	0	3	91	323	216	82	81	88	30	11	925
1988-89	0	0	1	2	98	258	270	271	104	36	27	5	1072
1989-90	0	0	0	2	27	102	173	206	130	26	16	2	684
1990-91	0	0	0	0	42	244	183	63	248	74	72	2	928
1991-92	0	0	0	23	46	168	159	114	125	1	0	0	636
1992-93	0	0	0	1	49	256	235	181	68	9	0	6	805
1993-94	0	0	0	0	45	136	106	153	61	60	35	0	596
1994-95	0	0	0	0	158	160	211	62	91	59	52	14	807
1995-96	0	0	0	1	6	132	146	125	83	16	3	1	513
1996-97	0	0	0	31	76	158	196	120	61	49	0	0	691
1997-98	0	0	0	0	71	193	185	216	118	130	36	3	952
1998-	0	0	0	1	79	200							

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COOLING DEGREE DAYS (base 65°F) 1998 LOS ANGELES, CALIFORNIA CA (5115)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	19	0	30	39	81	73	276	377	209	100	65	10	1279
1970	0	11	17	17	106	155	326	352	287	118	28	10	1427
1971	71	28	16	46	50	131	291	435	296	176	17	0	1557
1972	0	4	27	34	122	223	409	391	225	89	21	25	1570
1973	9	2	0	25	64	220	236	272	157	133	9	21	1148
1974	3	5	8	51	58	223	288	235	254	115	53	2	1295
1975	21	0	0	0	11	48	241	221	277	82	26	4	931
1976	22	3	20	10	32	203	245	212	233	185	123	2	1290
1977	7	39	3	23	18	135	293	334	210	148	96	8	1314
1978	0	8	52	2	145	212	269	277	338	177	17	0	1497
1979	0	0	14	17	67	209	229	252	379	124	53	62	1406
1980	10	54	3	82	26	215	380	357	233	210	56	53	1679
1981	12	75	13	81	132	380	387	422	306	124	67	17	2016
1982	0	36	15	36	33	32	286	322	275	194	25	0	1254
1983	44	23	41	21	185	174	342	495	432	292	60	4	2113
1984	29	14	56	73	240	222	433	360	496	123	13	6	2065
1985	0	41	10	100	68	264	447	339	210	203	31	35	1748
1986	77	56	83	80	110	194	261	349	132	145	65	6	1558
1987	6	18	21	120	121	147	186	257	312	221	36	1	1446
1988	13	30	84	68	107	107	297	252	223	154	14	20	1369
1989	8	37	31	131	73	154	318	251	290	139	85	41	1558
1990	10	16	36	54	81	291	388	287	336	262	68	20	1849
1991	8	28	0	54	43	72	191	260	265	250	88	6	1265
1992	17	44	1	146	132	168	347	435	353	175	59	0	1877
1993	6	0	59	77	129	232	254	299	287	199	38	12	1592
1994	25	0	59	47	47	288	272	488	354	178	9	10	1777
1995	13	76	24	61	31	142	341	394	369	212	77	12	1752
1996	25	26	28	134	134	215	320	386	266	101	60	0	1695
1997	7	14	72	79	245	188	260	402	450	196	85	11	2009
1998	0	0	29	53	18	125	356	468	266	132	11	24	1482

SNOWFALL (inches) 1998 LOS ANGELES, CALIFORNIA CA (5115)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	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
1971-72	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
1972-73	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
1973-74	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
1974-75	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
1975-76	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
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			
1984-85													
1996-97													
1997-98													
1998-													
POR= 43 YRS	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	0.0	T

WBAN : 93134

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 (1961 - 1990). 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.</p>	<p>GENERAL CONTINUED: 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. 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.</p> <p>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.</p>
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1998
LOS ANGELES, CALIFORNIA
CIVIC CENTER (5115)

The climate of Los Angeles is normally pleasant and mild through the year. The Pacific Ocean is the primary moderating influence. The coastal mountain ranges lying along the north and east sides of the Los Angeles coastal basin act as a buffer against extremes of summer heat and winter cold occurring in desert and plateau regions in the interior. A variable balance between mild sea breezes, and either hot or cold winds from the interior, results in some variety in weather conditions, but temperature and humidity are usually well within the limits of human comfort. An important, and somewhat unusual, aspect of the climate of the Los Angeles metropolitan area is the pronounced difference in temperature, humidity, cloudiness, fog, rain, and sunshine over fairly short distances.

These differences are closely related to the distance from, and elevation above, the Pacific Ocean. Both high and low temperatures become more extreme and the average relative humidity becomes lower as one goes inland and up foothill slopes. Relative humidity is frequently high near the coast, but may be quite low along the foothills. During periods of high temperatures, the relative humidity is usually below normal so that discomfort is rare, except for infrequent periods when high temperatures and high humidities occur together.

Like other Pacific Coast areas, most rainfall comes during the winter with nearly 85 percent of the annual total occurring from November through March, while summers are practically rainless. As in many semi-arid regions, there is a marked variability in monthly and seasonal totals. Precipitation generally increases with distance from the ocean, from a yearly total of around 12 inches in coastal sections to the south of the city to over 20 inches in foothill areas. Destructive flash floods occasionally develop in and below some mountain canyons. Snow is often visible on nearby mountains in the winter, but is extremely rare in the coastal basin. Thunderstorms are infrequent.

Prevailing winds are from the west during the spring, summer, and early autumn, with northeasterly wind predominating the remainder of the year. At times, the lack of air movement, combined with a frequent and persistent temperature inversion, is associated with concentrations of air pollution in the Los Angeles coastal basin and some adjacent areas. In fall, winter, and early spring months, occasional foehn-like descending Santa Ana winds come from the northeast over ridges and through passes in the coastal mountains. These Santa Ana winds may pick up considerable amounts of dust and reach speeds of 35 to 50 mph in north and east sections of the city, with higher speeds in outlying areas to the north and east, but rarely reach coastal portions of the city.

Sunshine, fog, and clouds depend a great deal on topography and distance from the ocean. Low clouds are common at night and in the morning along the coast during spring and summer, but form later and clear earlier near the foothills so that annual cloudiness and fog frequencies are greatest near the ocean, and sunshine totals are highest on the inland side of the city. The sun shines about 75 percent of daytime hours at the Civic Center. Light fog may accompany the usual night and morning low clouds, but dense fog is more likely to occur during the night and early morning hours of the winter months.

STATION LOCATION

LOS ANGELES, CALIFORNIA
CIVIC CENTER

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	NORTH	WEST	ELEVATION ABOVE										REMARKS	
						SEA LEVEL	GROUND										
							WIND	EMERSON	EMERSON	EMERSON	EMERSON	EMERSON	EMERSON	EMERSON	EMERSON		EMERSON
<u>CITY</u>																	
Ducommun Building, NE Corner Main & Commercial Streets	07/01/77	01/27/81		34° 03'	118°14'	292	67	37	37					50			
Baker Block 342 North Main Street	01/28/81	10/31/88	300 ft. NE	34° 03'	118°14'	291	114	57	57					107			Rain gage on cupola.
Wilson Building 102-1/2 S Spring Street	11/01/88	10/14/02	900 ft. WSW	34° 03'	118°15'	287	82	74	74	a67				67			a - Added 02/18/97.
Los Angeles Trust Bldg. 129 W 2nd Street	10/15/02	07/31/08	300 ft. SW	34° 03'	118°15'	283	123	116	116	108				108			
Central Building	08/01/08	02/29/40	0.5 mi. SW	34° 03'	118°15'	261	191	159	159	151	b		151				b - Installed when office moved and operated 3/1/40 through 6/30/53.
U.S. Post Office and	03/01/40	06/30/64 (A)	0.72 mi. NE	34° 03'	118°14'	312	250	c223		235			235	&			c - 5.5 ft. from 5/1/48 to 6/15/49. & - Telepsychrometer (4') 6/15/48 to 6/30/64. (A) - Instruments maintained as source of data until Civic Center installations were activated July 13 & 29, 1964.
<u>COOPERATIVE</u>																	
Civic Center:																	
(1) 434 S San Pedro St.	07/13/64	09/30/78	NA	34° 02'	118°14'	257	104	NA	NA	93	NA	NA	NA	NA	NA	NA	L.A. County Air Pollution Control District.
(2) 410 N. Cucommun St.	07/29/64	01/28/88	NA	34° 03'	118°14'	270	NA	NA	NA	NA	36	36	36	36	NA	NA	L.A. City Dept. of Water & Power.
(3) 500 E Ducommun St.	01/28/88	Present	NA	34° 03'	118°14'	270	NA	NA	NA	NA	28	NA	NA	28	NA	NA	L.A. City Dept. of Water & Power. Instruments relocated 10/07/87. Data remoted to WSFO.

In general, the exposures at the various locations were quite similar. Wind exposure at sites 1 and 2 were in the lee of a hill that would decrease wind velocities from SW through NNW quadrants. During the period from 3/1/40 until 5/1/48 thermometers were about eighteen stories above the ground. At other times the exposures have been good except during time of high wind when the roof catch is light; this is especially true of the location from March 1940 through June 1964.

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801. INQUIRIES/COMMENTS CALL: (828) 271-4800

National Climatic Data Center
151 Patton Avenue, Rm 120
Asheville NC 28801-5001

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