

1999

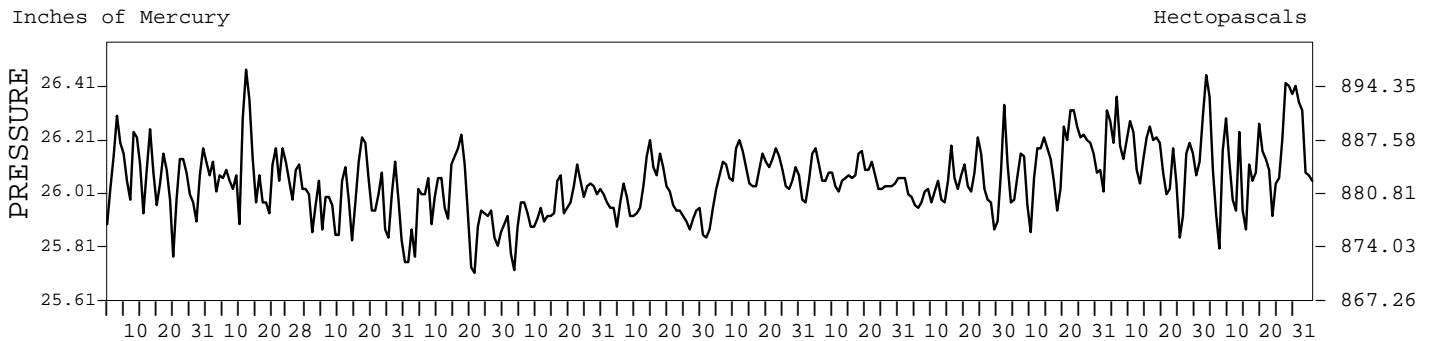
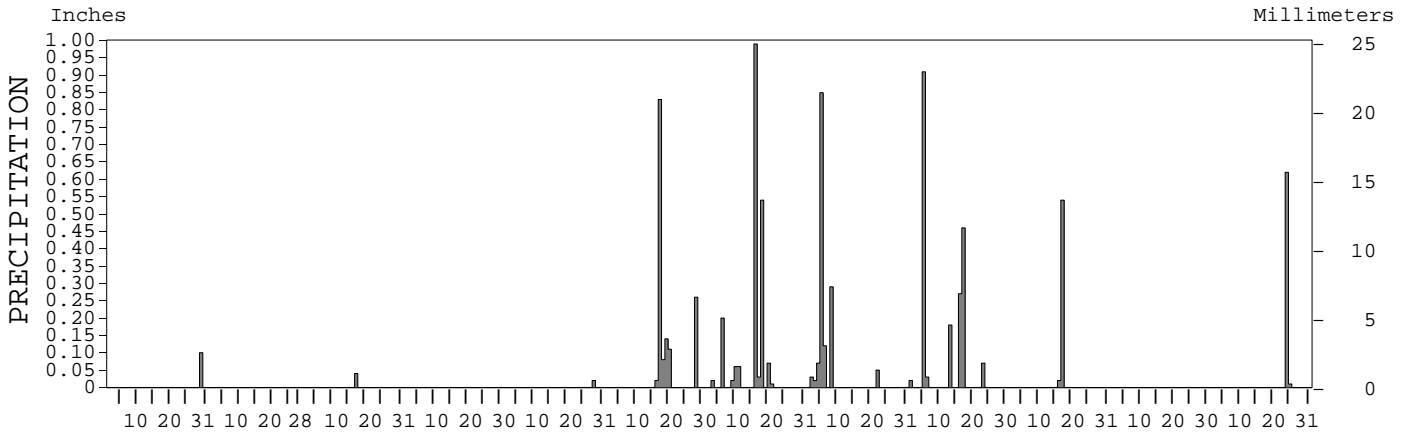
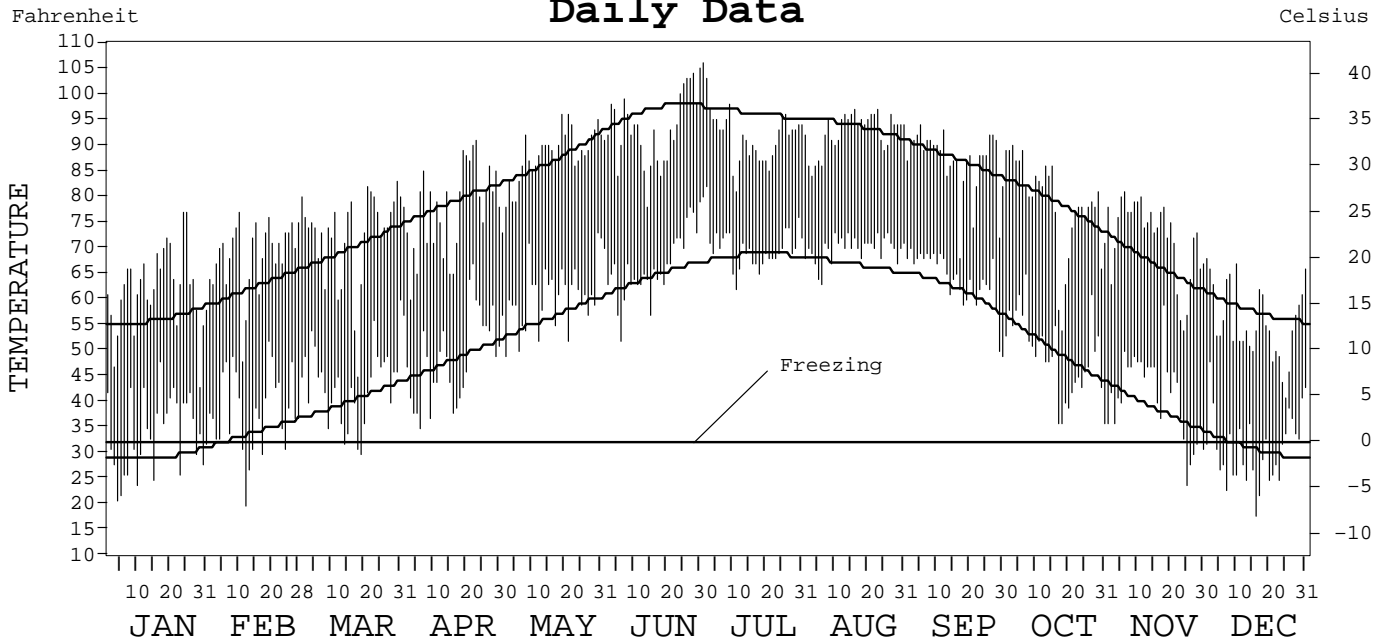
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-5027

EL PASO,
TEXAS (ELP)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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 ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 1999

EL PASO, TX (ELP)

LATITUDE: 31° 48' 40" N LONGITUDE: 106° 22' 33" W ELEVATION (FT): GRND: 3929 BARO: 3929 TIME ZONE: MOUNTAIN (UTC + 7) WBAN: 23044

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE ° F	MEAN DAILY MAXIMUM	62.1	68.7	72.5	77.7	87.9	93.2	92.0	92.5	86.9	78.5	71.9	55.7	78.3	
	HIGHEST DAILY MAXIMUM	77	77	83	91	96	105	106	97	94	90	81	68	106	
	DATE OF OCCURRENCE	25+	10	30	23	21+	30	01	23+	05	03	06	01	JUL 01	
	MEAN DAILY MINIMUM	34.0	38.4	43.4	48.7	60.4	66.7	70.3	69.9	63.9	49.2	41.1	31.1	51.4	
	LOWEST DAILY MINIMUM	21	20	30	35	49	52	62	63	49	36	24	18	18	
	DATE OF OCCURRENCE	04	12	19	06	02	06	11	06	30	31+	25	16	DEC 16	
	AVERAGE DRY BULB	48.1	53.6	58.0	63.2	74.2	80.0	81.2	81.2	75.4	63.9	56.5	43.4	64.9	
	MEAN WET BULB	38.2	40.2	44.8	46.7	54.8	62.2	67.8	67.1	63.5	51.1	45.0	35.7	51.4	
	MEAN DEW POINT	24.0	20.6	28.9	27.4	36.9	49.9	61.4	59.3	56.6	39.4	32.6	24.3	38.4	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	2	13	22	21	25	12	1	0	0	0	96
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	14	6	3	0	0	0	0	0	0	0	5	18	46	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	518	315	218	114	1	0	0	0	4	108	253	662	2193	
	COOLING DEGREE DAYS	0	0	8	67	291	457	506	511	324	81	5	0	2250	
RH	MEAN (PERCENT)	42	28	37	27	28	38	56	50	55	44	43	52	42	
	HOUR 05 LST	52	40	48	36	38	52	73	66	71	60	57	63	55	
	HOUR 11 LST	39	26	34	23	25	35	50	44	49	37	37	49	37	
	HOUR 17 LST	30	19	26	21	21	27	39	37	39	29	30	39	30	
	HOUR 23 LST	44	27	36	29	29	38	60	53	61	47	47	54	44	
S	PERCENT POSSIBLE SUNSHINE														
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	2	3	6	14	8	5	0	0	0	40	
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.)	26.07	26.09	25.98	25.94	25.96	25.98	26.07	26.07	26.04	26.13	26.16	26.12	26.05	
	MEAN SEA-LEVEL PRESS. (IN.)	30.01	30.00	29.86	29.79	29.76	29.77	29.86	29.86	29.85	30.01	30.09	30.11	29.91	
WINDS	RESULTANT SPEED (MPH)	2.8	3.0	1.7	5.7	2.5	1.3	0.7	2.5	1.9	0.7	1.9	2.4	0.6	
	RES. DIR. (TENS OF DEGS.)	23	26	26	25	17	07	15	10	04	03	36	34	26	
	MEAN SPEED (MPH)	7.9	8.8	9.6	11.7	11.8	9.0	8.8	7.3	7.5	6.4	6.2	7.2	8.5	
	PREVAIL. DIR. (TENS OF DEGS.)	15	36	28	24	24	26	11	10	35	01	01	36	36	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	47	41	49	48	45	38	36	41	36	32	31	37	49	
	DIR. (TENS OF DEGS.)	26	26	26	28	25	26	27	19	07	32	23	25	26	
	DATE OF OCCURRENCE	21	10	07	02	03	04	02	08	05	29+	22	03	MAR 07	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	68	48	63	60	58	51	43	52	48	43	38	48	68	
DIR. (TENS OF DEGS.)	26	27	26	28	24	25	27	19	08	30	28	33	26		
DATE OF OCCURRENCE	21	10	07	02	04	04	02	08	05	29	21	03	JAN 21		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.10	0.00	0.04	T	0.02	1.44	2.00	1.43	1.94	0.56	0.00	0.63	8.16	
	GREATEST 24-HOUR (IN.)	0.10	0.00	0.04	T	0.02	0.91	0.99	0.91	0.92	0.56	0.00	0.62	0.99	
	DATE OF OCCURRENCE	29		17	24+	28	17-18	16	05-06	05-06	16-17		24	JUL 16	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	1	0	1	0	1	6	10	7	7	2	0	2	37	
PRECIPITATION ≥ 0.10	1	0	0	0	0	4	3	3	4	1	0	1	17		
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

EL PASO, TX (ELP)

LATITUDE: 31° 48' 40" N LONGITUDE: 106° 22' 33" W ELEVATION (FT): GRND: 3929 BARO: 3929 TIME ZONE: MOUNTAIN (UTC + 7) WBAN: 23044

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	56.1	62.2	69.9	78.7	87.1	96.5	96.1	93.5	87.1	78.4	66.4	57.5	77.5
	MEAN DAILY MAXIMUM	52	57.7	63.2	69.9	78.6	87.1	95.8	95.2	93.0	87.9	78.7	65.0	58.2	77.5
	HIGHEST DAILY MAXIMUM	60	80	83	89	98	104	114	112	108	104	96	87	80	114
	YEAR OF OCCURRENCE		1970	1986	1989	1989	1951	1994	1979	1980	1982	1994	1983	1973	JUN 1994
	MEAN OF EXTREME MAXS.	52	70.8	76.3	82.6	90.4	97.4	104.5	103.4	100.3	96.6	89.7	77.1	71.0	88.3
	NORMAL DAILY MINIMUM	30	29.4	33.9	40.2	48.0	56.5	64.3	68.4	66.6	61.6	49.6	38.4	30.7	49.0
	MEAN DAILY MINIMUM	52	31.0	35.2	41.3	49.2	57.8	66.5	69.7	68.2	62.0	50.2	37.2	31.7	50.0
	LOWEST DAILY MINIMUM	60	-8	8	14	23	31	46	57	56	41	25	0	5	-8
	YEAR OF OCCURRENCE		1962	1985	1971	1983	1967	1988	1988	1973	1945	1970	1996	1953	JAN 1962
	MEAN OF EXTREME MINS.	52	16.5	21.0	25.9	34.6	44.4	55.2	63.2	61.8	51.4	37.1	23.4	17.8	37.7
	NORMAL DRY BULB	30	42.8	48.1	55.1	63.4	71.8	80.4	82.3	80.1	74.4	64.0	52.4	44.1	63.2
	MEAN DRY BULB	52	44.3	49.3	55.6	63.9	72.5	81.2	82.5	80.6	74.9	64.4	51.1	44.9	63.8
	MEAN WET BULB	16	36.4	39.9	43.0	47.6	54.3	60.9	65.5	66.2	61.2	51.9	40.0	36.9	50.3
	MEAN DEW POINT	16	24.6	25.5	25.6	27.2	35.4	45.3	55.6	58.4	52.1	40.2	28.6	26.5	37.1
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	2.0	12.8	26.0	26.9	23.4	11.8	1.6	0.0	0.0	104.5	
MAXIMUM ≤ 32°	30	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.8	
MINIMUM ≤ 32°	30	19.6	12.3	5.1	0.9	*	0.0	0.0	0.0	0.0	0.4	7.8	18.8	64.9	
MINIMUM ≤ 0°	30	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
H/C	NORMAL HEATING DEG. DAYS	30	688	473	316	110	7	0	0	0	88	378	648	2708	
	NORMAL COOLING DEG. DAYS	30	0	0	10	62	217	462	536	468	282	57	0	2094	
RH	NORMAL (PERCENT)	30	50	42	32	27	27	30	44	48	50	47	46	52	41
	HOUR 05 LST	30	65	56	46	40	41	46	63	67	69	65	61	65	57
	HOUR 11 LST	30	44	37	28	23	23	25	37	41	43	38	38	44	35
	HOUR 17 LST	30	34	27	20	17	16	18	29	33	34	30	32	37	27
	HOUR 23 LST	30	55	44	34	29	29	32	48	53	56	53	52	56	45
S	PERCENT POSSIBLE SUNSHINE	54	78	82	86	89	90	90	82	81	83	84	83	77	84
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	61	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.6	2.0
	THUNDERSTORMS	61	0.2	0.4	0.5	1.1	3.0	4.4	10.3	9.9	4.1	1.8	0.3	0.2	36.2
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	53	3.7	3.4	3.4	2.8	2.6	2.2	3.5	3.4	2.7	2.5	2.7	3.4	3.0
	MIDNIGHT-MIDNIGHT (OKTAS)	31	3.3	3.1	2.8	2.4	2.4	2.2	3.6	3.6	2.9	2.2	2.5	3.0	2.8
	MEAN NO. DAYS WITH:														
	CLEAR	54	13.9	13.6	15.1	16.7	18.5	19.8	12.0	13.6	17.4	18.5	17.2	14.8	191.1
PARTLY CLOUDY	54	7.5	7.3	8.4	8.0	8.2	7.4	13.1	11.9	7.1	6.7	6.1	7.2	98.9	
CLOUDY	54	9.7	7.3	7.5	5.2	4.2	2.7	5.4	4.9	5.0	5.2	6.2	8.5	71.8	
PR	MEAN STATION PRESSURE (IN)	27	26.10	26.09	26.00	26.00	26.00	26.00	26.10	26.10	26.10	26.11	26.10	26.07	
	MEAN SEA-LEVEL PRES. (IN)	16	30.06	29.98	29.91	29.83	29.77	29.99	29.84	29.87	29.90	29.94	30.02	30.07	29.93
WINDS	MEAN SPEED (MPH)	57	8.3	9.1	10.9	11.0	10.3	9.3	8.4	7.8	7.7	7.7	8.0	7.9	8.9
	PREVAIL. DIR (TENS OF DEGS)	28	02	27	27	27	26	27	12	14	36	36	01	36	36
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	4	64	51	49	48	45	40	45	47	41	41	52	39	64
	DIR. (TENS OF DEGS)		26	24	26	28	25	29	30	36	35	23	23	24	26
	YEAR OF OCCURRENCE		1996	1998	1999	1999	1999	1996	1996	1998	1996	1997	1998	1997	JAN 1996
	MAXIMUM 5-SECOND:														
SPEED (MPH)	4	75	60	63	60	58	51	62	54	48	58	64	48	75	
DIR. (TENS OF DEGS)		26	26	26	28	24	25	29	36	08	26	24	33	26	
YEAR OF OCCURRENCE		1996	1998	1999	1999	1999	1999	1996	1998	1999	1998	1998	1999	JAN 1996	
PRECIPITATION	NORMAL (IN)	30	0.40	0.41	0.29	0.20	0.25	0.67	1.54	1.58	1.70	0.76	0.44	0.57	8.81
	MAXIMUM MONTHLY (IN)	60	1.84	1.69	2.26	1.42	4.22	3.18	5.53	5.57	6.68	4.31	1.63	3.29	6.68
	YEAR OF OCCURRENCE		1949	1973	1958	1983	1992	1984	1968	1984	1974	1945	1961	1991	SEP 1974
	MINIMUM MONTHLY (IN)	60	0.00	0.00	T	0.00	0.00	T	0.04	T	T	0.00	0.00	0.00	0.00
	YEAR OF OCCURRENCE		1967	1943	1996	1978	1962	1990	1978	1962	1959	1952	1964	1955	APR 1978
	MAXIMUM IN 24 HOURS (IN)	60	0.61	0.87	1.72	1.08	2.40	1.56	2.63	2.30	2.52	1.77	1.19	1.76	2.63
	YEAR OF OCCURRENCE		1960	1956	1941	1966	1992	1986	1968	1984	1958	1945	1943	1987	JUL 1968
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	4.3	3.0	2.4	1.5	2.1	3.1	7.8	8.5	6.5	4.4	3.1	3.9	50.6	
PRECIPITATION ≥ 1.00	30	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.4	0.0	0.0	*	1.1	
SNOWFALL	NORMAL (IN)	30	1.1	1.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	0.*	1.4	2.2	6.6
	MAXIMUM MONTHLY (IN)	57	8.3	8.9	7.3	16.5	T	T	T	0.0	T	1.0	12.7	25.9	25.9
	YEAR OF OCCURRENCE		1949	1956	1958	1983	1992	1992	1990	1993	1980	1976	1987	1987	DEC 1987
	MAXIMUM IN 24 HOURS (IN)	57	5.2	7.2	7.3	8.8	T	T	T	0.0	T	1.0	7.8	16.8	16.8
	YEAR OF OCCURRENCE		1992	1956	1958	1983	1992	1992	1990	1993	1980	1961	1987	1987	DEC 1987
	MAXIMUM SNOW DEPTH (IN)	48	6	7	7	9	0	0	0	0	0	1	7	14	14
	YEAR OF OCCURRENCE		1983	1956	1958	1983						1993	1968	1987	DEC 1987
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	0.4	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.*	0.5	0.6	2.1	

PRECIPITATION (inches) 1999 EL PASO, TX (ELP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.03	0.55	0.47	T	0.71	0.73	1.41	0.41	1.01	0.68	T	0.06	6.06
1971	0.17	0.04	0.00	0.42	T	0.01	2.34	1.59	0.96	1.07	0.14	0.50	7.24
1972	0.44	T	T	0.00	0.04	1.62	0.71	2.59	1.60	1.25	0.33	0.42	9.00
1973	1.23	1.69	0.60	0.00	0.29	0.71	2.12	0.73	0.01	0.07	0.08	T	7.53
1974	0.27	T	0.36	0.12	0.05	0.36	2.21	0.63	6.68	1.90	0.50	0.87	13.95
1975	0.70	0.59	0.19	T	0.03	T	1.11	0.45	2.18	0.25	T	0.71	6.21
1976	0.26	0.52	T	0.30	0.74	0.50	3.17	0.23	1.70	1.20	1.20	0.32	10.14
1977	0.57	T	0.17	0.09	0.06	0.04	1.09	1.36	0.16	1.65	0.05	0.26	5.50
1978	0.44	0.47	0.07	0.00	0.57	1.46	0.04	2.18	4.14	2.28	0.45	0.47	12.57
1979	0.77	0.68	T	0.28	0.24	0.03	0.98	2.16	0.41	T	0.04	0.25	5.84
1980	0.54	0.73	0.25	0.31	0.08	T	0.21	1.76	1.90	0.95	0.54	0.04	7.31
1981	1.10	0.36	0.39	0.65	0.72	0.64	2.08	5.26	0.52	0.53	0.30	0.08	12.63
1982	0.34	0.55	T	0.05	0.19	0.18	1.00	0.48	5.28	T	0.29	2.61	10.97
1983	0.35	0.60	0.45	1.42	0.05	0.23	0.43	0.97	1.51	1.48	0.34	0.16	7.99
1984	0.31	0.00	0.44	0.01	0.59	3.18	0.69	5.57	0.58	3.12	0.51	1.17	16.17
1985	0.95	0.19	0.59	0.07	0.01	0.10	1.32	1.46	1.47	1.82	0.13	0.05	8.16
1986	0.01	0.39	0.39	T	0.83	3.05	2.66	0.70	0.85	0.45	1.42	1.42	12.17
1987	0.29	0.30	0.49	0.32	0.24	2.24	0.64	2.22	0.89	0.15	0.29	2.87	10.94
1988	0.25	0.70	0.10	0.23	0.15	0.03	3.35	3.46	1.52	0.59	0.24	0.44	11.06
1989	0.11	0.72	0.62	T	0.65	T	1.23	3.06	0.48	0.23	T	0.16	7.26
1990	0.29	0.14	0.41	0.25	0.10	T	3.96	1.98	3.46	0.58	1.34	0.34	12.85
1991	0.82	0.66	0.10	T	0.23	0.01	2.69	2.06	1.82	0.20	0.50	3.29	12.38
1992	1.14	0.16	0.50	0.30	4.22	0.27	0.65	2.11	0.15	0.27	0.28	1.35	11.40
1993	1.34	0.32	0.01	0.12	T	1.47	0.95	2.73	1.32	0.17	0.49	0.71	9.63
1994	0.03	0.23	0.37	0.65	0.80	0.67	0.18	0.02	0.03	0.35	0.54	1.61	5.48
1995	0.26	0.88	0.42	0.04	0.01	1.74	0.28	0.76	3.18	T	0.26	0.03	7.86
1996	0.11	0.19	T	0.49	0.00	2.36	1.97	1.87	1.24	T	0.16	0.00	8.39
1997	0.38	0.29	0.64	0.43	0.52	1.11	0.91	1.41	1.55	0.19	0.79	1.41	9.63
1998	0.05	0.15	0.18	0.04	T	0.27	2.07	0.53	0.66	2.14	0.34	0.34	6.77
1999	0.10	0.00	0.04	T	0.02	1.44	2.00	1.43	1.94	0.56	0.00	0.63	8.16
POR= 121 YRS	0.44	0.41	0.33	0.25	0.37	0.66	1.59	1.49	1.30	0.70	0.40	0.51	8.45

WBAN : 23044

AVERAGE TEMPERATURE (°F) 1999 EL PASO, TX (ELP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	46.9	52.3	55.6	63.5	72.2	79.7	82.8	81.4	74.2	59.5	51.9	48.0	64.0
1971	44.6	48.4	58.1	62.6	72.1	81.1	82.3	77.0	73.5	62.5	52.1	44.7	63.3
1972	45.2	52.3	61.2	65.2	69.8	78.3	82.2	77.7	72.9	65.7	48.8	46.6	63.8
1973	42.9	47.0	52.4	57.7	68.7	76.6	79.7	79.2	75.9	63.3	53.8	45.7	61.9
1974	44.3	44.8	59.6	65.0	75.6	82.8	79.6	77.0	69.4	63.0	49.9	41.3	62.7
1975	43.1	48.9	55.1	59.7	69.8	80.9	79.8	80.9	72.2	64.0	51.5	44.2	62.5
1976	42.3	52.6	55.9	64.1	69.5	79.4	78.2	78.7	70.5	58.5	44.8	41.9	61.4
1977	44.7	47.3	49.7	61.5	70.7	81.5	82.2	82.5	77.4	64.3	53.7	49.6	63.8
1978	45.4	48.8	58.6	66.1	73.6	83.4	84.5	80.0	72.3	63.6	55.8	44.6	64.7
1979	41.0	47.1	53.1	63.6	70.1	78.4	85.1	78.8	74.2	66.2	47.9	43.1	62.4
1980	46.8	50.6	54.1	60.6	70.5	86.3	87.2	82.4	75.6	60.3	49.2	48.5	64.3
1981	45.2	50.3	57.2	64.8	73.6	82.6	83.6	79.5	75.9	64.6	54.3	48.7	65.0
1982	42.3	48.7	57.7	64.4	69.6	80.9	84.2	83.5	77.1	64.6	53.2	43.3	64.1
1983	41.6	49.5	54.6	56.3	68.9	77.3	82.9	81.8	78.7	66.6	54.3	45.5	63.2
1984	44.4	47.0	55.7	62.0	75.0	79.5	81.1	80.4	72.9	61.4	51.6	45.7	63.1
1985	40.0	45.6	55.2	64.2	72.1	79.0	79.4	80.6	72.8	61.4	52.9	43.1	62.2
1986	44.7	52.1	55.7	67.3	71.5	77.7	80.0	80.4	74.1	62.4	49.4	42.6	63.2
1987	41.3	46.2	51.2	59.7	68.6	78.1	81.6	79.1	72.1	67.0	51.4	40.5	61.4
1988	42.6	48.4	53.4	61.1	70.3	79.0	80.3	77.6	72.4	66.7	54.0	42.6	62.4
1989	43.6	51.4	58.7	67.4	74.2	81.3	81.8	79.1	73.4	63.2	53.3	41.9	64.1
1990	44.1	49.1	56.1	66.4	73.1	87.1	80.2	76.8	73.9	63.4	52.9	44.8	64.0
1991	44.3	51.1	53.9	64.0	72.6	79.0	78.6	79.5	70.7	65.4	50.3	46.3	63.0
1992	44.0	50.2	58.1	67.9	70.6	81.5	85.1	81.3	77.8	66.5	48.0	44.7	64.6
1993	48.5	51.4	57.9	66.7	74.6	82.7	85.2	82.5	75.8	64.4	52.3	46.9	65.7
1994	45.6	50.4	58.3	66.7	75.7	89.0	88.1	86.2	78.3	66.6	54.4	49.4	67.4
1995	47.1	56.3	59.7	65.2	74.3	80.2	83.1	82.8	74.1	65.6	55.0	47.6	65.9
1996	46.5	54.5	54.6	65.5	80.1	83.5	82.9	79.6	73.5	65.5	53.2	46.3	65.9
1997	44.2	48.2	58.6	61.5	74.3	81.0	82.7	81.6	78.4	63.6	52.2	40.6	63.9
1998	47.1	47.6	54.0	59.5	74.4	82.2	83.5	80.6	79.2	66.0	55.2	45.8	64.6
1999	48.1	53.6	58.0	63.2	74.2	80.0	81.2	81.2	75.4	63.9	56.5	43.4	64.9
POR= 113 YRS	44.6	49.3	55.6	63.8	72.2	80.8	82.0	80.2	74.7	64.5	51.9	45.1	63.7

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HEATING DEGREE DAYS (base 65°F) 1999 EL PASO, TX (ELP)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0	0	39	180	388	519	625	457	254	110	6	0	2578
1971-72	0	0	31	112	381	624	607	364	126	56	3	0	2304
1972-73	0	0	3	87	480	563	679	499	384	218	31	0	2944
1973-74	0	0	7	90	336	592	636	558	178	79	5	0	2481
1974-75	0	0	41	107	445	728	672	445	309	188	13	0	2948
1975-76	0	0	20	66	399	640	696	351	278	91	26	0	2567
1976-77	0	0	7	214	601	709	623	492	469	138	3	0	3256
1977-78	0	0	0	56	328	472	603	449	200	57	22	0	2187
1978-79	0	0	16	106	272	625	735	494	362	118	26	1	2755
1979-80	0	0	24	56	505	670	555	410	331	157	19	0	2727
1980-81	0	0	2	203	467	503	607	405	233	82	2	0	2504
1981-82	0	0	0	93	313	499	697	449	237	82	17	0	2387
1982-83	0	0	0	88	344	668	720	430	316	284	23	0	2873
1983-84	0	0	0	52	317	599	633	514	285	126	8	0	2534
1984-85	0	0	18	144	404	592	768	537	302	71	5	0	2841
1985-86	0	0	10	125	358	670	621	356	283	47	22	0	2492
1986-87	0	0	1	116	460	687	725	521	420	173	5	0	3108
1987-88	0	0	0	13	405	750	686	474	360	121	16	0	2825
1988-89	0	2	2	17	337	684	661	377	208	52	9	0	2349
1989-90	0	0	2	108	344	708	640	439	271	45	20	0	2577
1990-91	0	2	8	88	354	617	636	383	336	78	3	0	2505
1991-92	0	0	26	66	434	576	644	423	209	49	3	0	2430
1992-93	0	0	0	21	502	624	504	373	222	53	4	0	2303
1993-94	0	0	0	145	375	551	596	401	218	38	0	0	2324
1994-95	0	0	0	41	313	475	548	240	185	84	6	0	1892
1995-96	0	0	15	31	292	533	562	305	322	89	0	0	2149
1996-97	0	0	0	103	571	571	635	467	202	155	0	0	2834
1997-98	0	0	0	150	378	746	550	481	342	187	0	0	2834
1998-99	0	0	0	80	289	590	518	315	218	114	1	0	2125
1999-	0	0	4	108	253	662							

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COOLING DEGREE DAYS (base 65°F) 1999 EL PASO, TX (ELP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	2	57	263	448	559	514	321	19	0	0	2183
1971	0	0	45	45	235	492	543	375	293	43	0	0	2071
1972	0	4	15	70	159	404	543	401	247	120	0	0	1963
1973	0	0	0	7	152	355	459	448	340	44	7	0	1812
1974	0	0	19	84	338	540	459	378	181	54	0	0	2053
1975	0	0	9	35	170	482	469	502	241	41	1	0	1950
1976	0	0	4	71	170	441	418	434	179	18	0	0	1735
1977	0	0	0	39	186	500	540	552	380	43	0	0	2240
1978	0	0	8	98	295	559	612	474	238	70	2	0	2356
1979	0	0	0	84	190	414	630	432	308	99	0	0	2157
1980	0	0	0	34	198	646	693	546	329	63	0	0	2509
1981	0	2	2	84	275	534	586	455	333	89	0	2	2362
1982	0	0	14	70	167	484	602	583	371	82	0	0	2373
1983	0	0	0	32	151	374	564	527	417	108	6	0	2179
1984	0	0	2	44	324	441	507	482	260	38	8	0	2106
1985	0	0	9	55	233	428	457	488	252	18	0	0	1940
1986	0	3	0	122	228	391	474	485	281	41	0	0	2025
1987	0	0	0	22	121	399	521	446	222	83	2	0	1816
1988	0	0	9	15	186	429	478	399	226	76	16	0	1834
1989	0	2	20	130	300	494	530	442	261	60	0	0	2239
1990	0	1	0	96	278	667	480	374	282	43	0	0	2221
1991	0	0	0	55	245	424	428	455	204	88	0	0	1899
1992	0	0	3	144	182	500	628	511	389	75	0	0	2432
1993	0	0	11	110	306	538	632	550	331	132	2	0	2612
1994	0	0	17	92	338	725	722	666	404	100	3	0	3067
1995	0	0	27	97	304	462	567	559	292	58	1	0	2367
1996	0	6	7	112	475	560	561	462	263	125	0	0	2448
1997	0	0	10	53	298	489	556	518	408	116	0	0	2486
1998	0	0	8	30	299	527	581	491	434	116	0	0	2486
1999	0	0	8	67	291	457	506	511	324	81	5	0	2250

SNOWFALL (inches) 1999 EL PASO, TX (ELP)

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	3.8	T	0.0	T	0.0	0.0	3.8
1971-72	0.0	0.0	0.0	0.0	0.0	1.0	2.5	0.0	0.0	0.0	0.0	0.0	3.5
1972-73	0.0	0.0	0.0	0.0	0.0	T	5.3	4.6	T	0.0	0.0	0.0	9.9
1973-74	0.0	0.0	0.0	0.0	T	0.0	T	T	0.0	0.0	0.0	0.0	T
1974-75	0.0	0.0	0.0	0.0	0.0	5.3	2.2	0.2	2.0	0.0	0.0	0.0	9.7
1975-76	0.0	0.0	0.0	0.0	0.0	T	1.0	0.0	T	T	0.0	0.0	1.0
1976-77	0.0	0.0	0.0	T	12.7	2.0	T	T	0.0	T	0.0	0.0	14.7
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1978-79	0.0	0.0	0.0	0.0	T	T	T	1.2	0.0	0.0	0.0	0.0	1.2
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	T	3.6	0.0	2.0	0.0	0.0	5.6
1980-81	0.0	0.0	0.0	1.0	4.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	9.8
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1982-83	0.0	0.0	0.0	0.0	0.3	18.2	T	0.0	T	16.5	0.0	0.0	35.0
1983-84	0.0	0.0	0.0	0.0	T	T	T	0.0	6.1	0.0	0.0	0.0	6.1
1984-85	0.0	0.0	0.0	0.0	T	2.9	5.4	1.1	0.0	0.0	0.0	0.0	9.4
1985-86	0.0	0.0	0.0	0.0	0.0	0.9	T	0.9	T	0.0	0.0	0.0	1.8
1986-87	0.0	0.0	0.0	0.0	0.0	0.6	3.4	2.8	0.6	0.0	0.0	0.0	7.4
1987-88	0.0	0.0	0.0	0.0	0.0	25.9	T	6.6	0.0	0.0	0.0	0.0	32.5
1988-89	0.0	0.0	0.0	0.0	T	0.3	0.0	0.0	T	0.0	T	0.0	0.3
1989-90	0.0	0.0	0.0	0.0	0.0	T	T	T	0.0	T	T	0.0	T
1990-91	T	0.0	0.0	0.0	4.3	T	1.5	T	T	0.0	T	0.0	5.8
1991-92	0.0	0.0	0.0	0.0	0.0	0.5	6.9	0.0	T	0.0	T	T	7.4
1992-93	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6
1993-94	0.0	0.0	T	0.8	0.0	1.6	0.3	0.0	0.0	0.0	0.0	0.0	2.7
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	T	1.6	0.0		T	0.0		
1996-97													
1997-98													
1998-99													
1999-													
POR= 56 YRS	T	0.0	T	0.0	0.9	1.6	1.3	0.8	0.4	0.3	T	T	5.3

WBAN : 23044

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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1999
EL PASO,
TEXAS (ELP)

The city of El Paso is located in the extreme west point of Texas at an elevation of about 3,700 feet . The National Weather Service station is located on a mesa about 200 feet higher than the city. The climate of the region is characterized by an abundance of sunshine throughout the year, high daytime summer temperatures, very low humidity, scanty rainfall, and a relatively mild winter season. The Franklin Mountains begin within the city limits and extend northward for about 16 miles. Peaks of these mountains range from 4,687 to 7,152 feet above sea level.

Rainfall throughout the year is light, insufficient for any growth except desert vegetation. Irrigation is necessary for crops, gardens, and lawns. Dry periods lasting several months are not unusual. Almost half of the precipitation occurs in the three-month period, July through September, from brief but often heavy thunderstorms. Small amounts of snow fall nearly every winter, but snow cover rarely amounts to more than an inch and seldom remains on the ground for more than a few hours.

Daytime summer temperatures are high, frequently above 90 degrees and occasionally above 100 degrees. Summer nights are usually comfortable, with temperatures in the 60s. It should be noted that when temperatures are high the relative humidity is generally quite low. A 20-year tabulation of observations with temperatures above 90 degrees shows that in April, May, and June the humidity averaged from 10 to 14 percent, while in July, August, and September it averaged 22 to 24 percent. This low humidity aids the efficiency of evaporative air coolers, which are widely used in homes and public buildings and are quite effective in cooling the air to comfortable temperatures.

Winter daytime temperatures are mild. At night they drop below freezing about half the time in December and January. The flat, irrigated land of the Rio Grande Valley in the vicinity of El Paso is noticeably cooler, particularly at night, than the airport or the city proper, both in summer and winter. This results in more comfortable temperatures in summer but increases the severity of freezes in winter. The cooler air in the Valley also causes marked short-period fluctuations of temperature and dewpoint at the airport with changes in wind direction, especially during the early morning hours.

Dust and sandstorms are the most unpleasant features of the weather in El Paso. While wind velocities are not excessively high, the soil surface is dry and loose and natural vegetation is sparse, so moderately strong winds raise considerable dust and sand. A tabulation of duststorms for a period of 20 years shows that they are most frequent in March and April, and comparatively rare in the period July through December. prevailing winds are from the north in winter and the south in summer.

STATION LOCATION

EL PASO, TEXAS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE											AUGUST 1980	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS
						SEA LEVEL	GROUND												
							WIND	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP			
CITY																			
San Francisco Street between Santa Fe and El Paso Streets	11/6/77	8/12/80	NA	31°47'	106°30'	3720	22	17	17										
One door east of above office	8/12/80	11/1/81	1 door E	31°47'	106°30'	3720	27												
Corner San Francisco and Santa Fe Streets	11/1/81	11/1/82	0.5 block W	31°47'	106°30'	3720	21	5	5										
State National Bank Building, 1 door W of SW corner San Antonio and Oregon Streets	11/1/82	4/1/88	700 ft. E	31°47'	106°30'	3720	37	21	21									Maximum temperature too high in early years, due to exposure of thermometers on northwest wall of building.	
Sheldon Hotel, SW corner St. Louis (later Mills) and Oregon Sts.	4/1/88	8/8/94	400 ft. NW	31°47'	106°30'	3720	80	68	68		62								
Government Building SE corner St. Louis and Oregon Streets	8/8/94	12/29/07	100 ft. NE	31°47'	106°30'	3720	110	10	10		2							Thermometer shelter and rain gages in San Jacinto Plaza.	
El Paso & Southwestern Building, SE corner Stanton & Franklin Sts.	12/29/07	6/30/25	1100 ft. NNE	31°47'	106°30'	3731	133	111	110		102								
Mills Building, NW corner Oregon and Mills Streets	7/1/25	4/28/36	1100 ft. SSW	31°47'	106°30'	3720	175	153	152		145								
U.S. Court House, NE corner San Antonio and Kansas Streets	4/28/36	12/19/42	1500 ft. E	31°47'	106°30'	3711	101	82	82		75							Consolidated at airport.	
AIRPORT																			
American Airlines Adm. Building, Municipal AP	11/20/31	12/14/42	NA	31°48'	106°24'	3913	54	6	6	NA	NA	3	3	NA	NA			a - Moved to roof 5/7/44. b - Moved 3' SW 4/23/59. c - Commissioned 4000' N of thermometer site 9/1/60. d - Effective 9/1/60. e - Moved to a site 4000' N of office 5/1/61. f - Not moved 4/1/64. g - Effective 11/20/70. h - Effective 4/10/78. i - Moved 1.6 mi. W 9/20/78. j - Type change 11/13/84. k - Moved to ground 11/19/87. m - Moved 30' SE 11/19/87.	
Administration Building International Airport	12/14/42	4/1/64	2000 ft. E	31°48'	106°24'	3920	85	5	5	Unk	3	3	3	NA	NA				
FAA-WB Building + International Airport	4/1/64	06/01/95	0.3 mi. SE	31°48'	106°24'	3918	f20	NA	27	27	25	26	25	f5	NA				
+ FAA-NWS Building (Effective 1970)							132	h26	h26	g30	h24	m26	h24	15					
International Airport	06/01/95	Present	NA	31°49'	106°23'	3929	e20	a37	a37	Unk	a29	a30	a29	c5				S ASOS Commissioned 06/01/95.	

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
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