

1999

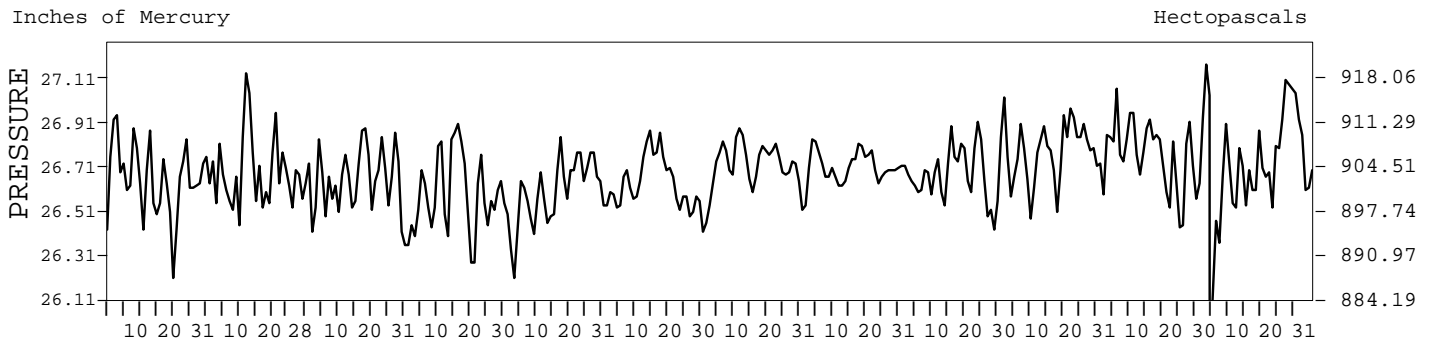
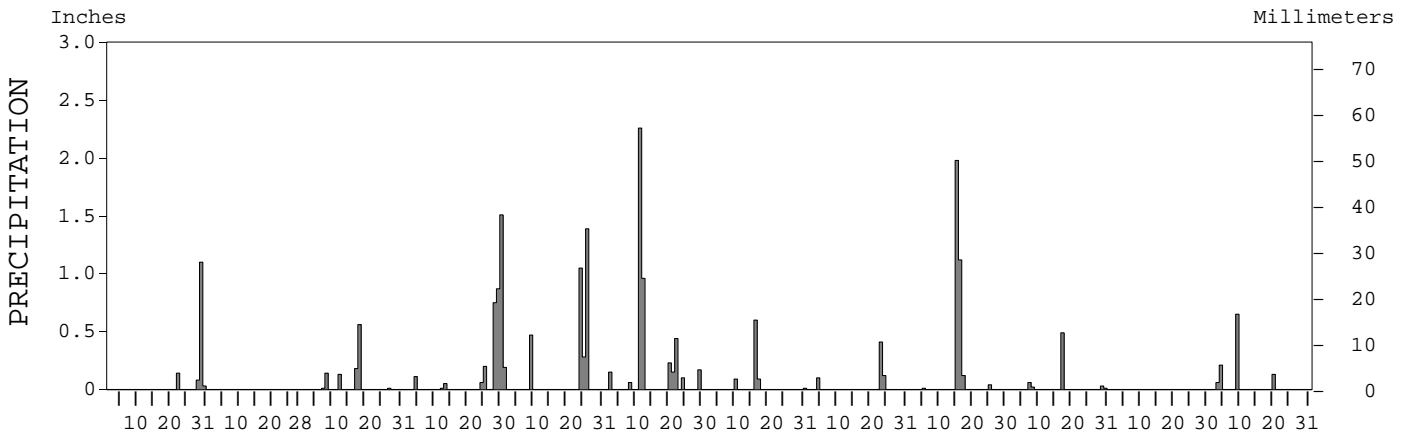
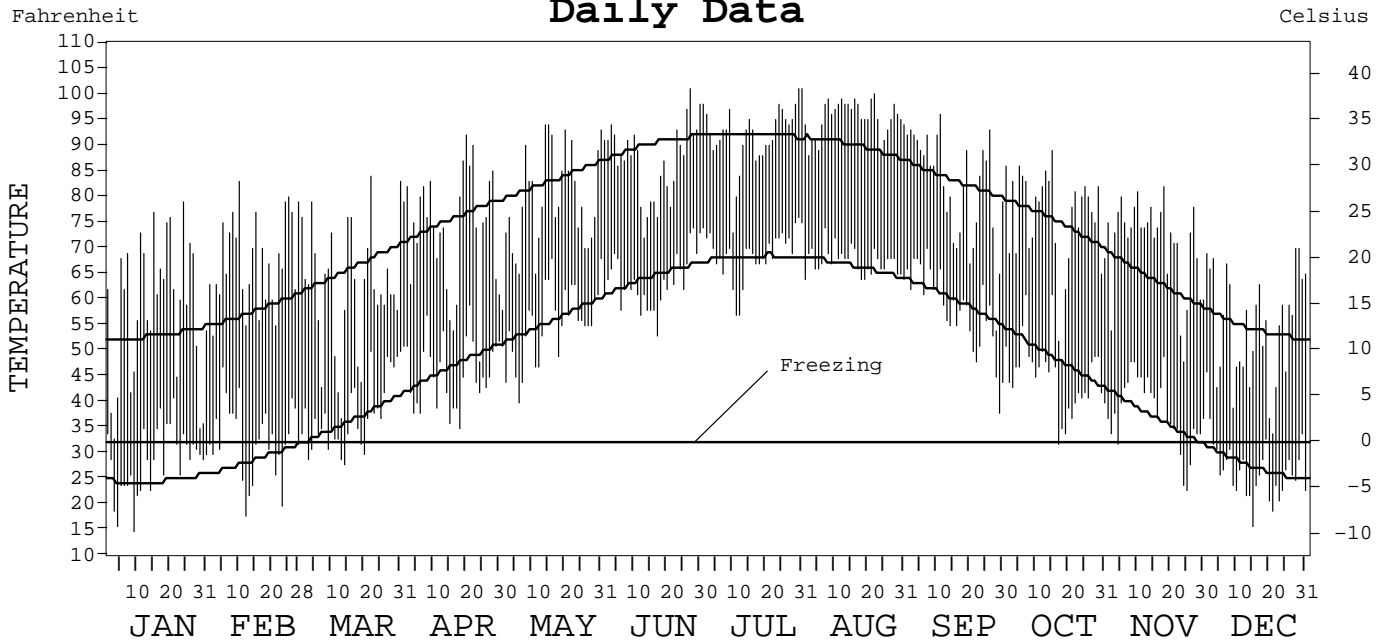
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-5108

LUBBOCK,
TEXAS (LBB)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE	NATIONAL SATellite, DATA, CLIMATIC DATA CENTER	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 1999

LUBBOCK, TX (LBB)

LATITUDE: 33° 40' 03" N LONGITUDE: 101° 49' 17" W ELEVATION (FT): GRND: 3255 BARO: 3255 TIME ZONE: CENTRAL (UTC + 6) WBAN: 23042

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	58.4	67.6	62.4	73.7	79.0	87.2	92.1	95.3	81.9	75.6	70.8	54.8	74.9	
	HIGHEST DAILY MAXIMUM	79	83	84	92	94	101	101	100	96	89	82	70	101	
	DATE OF OCCURRENCE	24	10	22	20	15+	27	31+	22	11	15	18	29+	JUL 31+	
	MEAN DAILY MINIMUM	28.7	32.9	37.7	45.8	55.2	63.7	69.0	67.5	58.0	45.2	38.0	26.9	47.4	
	LOWEST DAILY MINIMUM	15	18	28	35	40	53	57	64	38	32	23	16	15	
	DATE OF OCCURRENCE	09	12	14	18	06	17	12+	31+	29	17	25	15	JAN 09	
	AVERAGE DRY BULB	43.6	50.3	50.1	59.8	67.1	75.5	80.6	81.4	70.0	60.4	54.4	40.9	61.2	
	MEAN WET BULB	35.0	38.6	42.2	47.7	57.2	65.7	67.4	67.3	60.4	50.3	43.9			
	MEAN DEW POINT	23.8	22.8	33.7	33.9	49.5	60.5	60.5	59.6	54.3	41.9	32.7			
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	2	7	13	24	28	8	0	0	0	0	82
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	23	14	7	0	0	0	0	0	0	1	5	27	77	
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	658	405	462	181	66	0	0	0	46	167	313	740	3038	
	COOLING DEGREE DAYS	0	0	4	32	139	318	490	516	204	32	1	0	1736	
RH	MEAN (PERCENT)	53	42	62	45	59	64	54	52	62	57	50	60	55	
	HOUR 00 LST	57	47	68	49	65	74	60	60	69	64	56	67	61	
	HOUR 06 LST	70	62	78	64	81	83	73	73	78	77	71	77	74	
	HOUR 12 LST	44	32	54	37	49	55	46	38	52	44	35	45	44	
	HOUR 18 LST	42	23	46	32	41	47	38	38	47	42	35	45	40	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	1	2	0	0	0	0	0	0	0	0	0	2	5	
	THUNDERSTORMS	2	0	2	7	6	9	5	4	7	2	0	1	45	
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.)	26.66	26.69	26.66	26.58	26.60	26.64	26.72	26.72	26.70	26.78	26.79			
	MEAN SEA-LEVEL PRESS. (IN.)	29.99	30.00	29.96	29.83	29.83	29.84	29.91	29.91	29.93	30.05	30.11			
WINDS	RESULTANT SPEED (MPH)	3.4	5.7	3.0	2.9	1.8	1.7	6.4	2.5	2.9	1.9	3.7			
	RES. DIR. (TENS OF DEGS.)	28	24	11	23	19	17	10	14	15	19	21			
	MEAN SPEED (MPH)	12.8	13.0	13.4	15.8	13.3	13.6	12.1	8.4	10.5	10.6	9.5	11.8	12.1	
	PREVAIL. DIR. (TENS OF DEGS.)	24	22	05	22	21	17	17	11	20	19	18	23	17	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	40	44	40	52	48	47	47	43	31	45	29	44	52	
	DIR. (TENS OF DEGS.)	26	29	28	33	27	03	19	14	25	35	24	01	33	
	DATE OF OCCURRENCE	21	22	08	14	04	11	16	24	19	29	22+	09	APR 14	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	52	54	47	60	59	52	53	53	45	52	40	51	60	
DIR. (TENS OF DEGS.)	24	29	29	33	27	03	19	12	25	35	22	01	33		
DATE OF OCCURRENCE	01	11	08	14	04	11	16	24	19	29	22	09	APR 14		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.35	T	1.03	3.56	3.38	4.52	0.79	0.63	3.27	0.61	0.00	1.05	20.19	
	GREATEST 24-HOUR (IN.)	1.14	T	0.74	1.62	1.39	3.22	0.69	0.53	1.98	0.49	0.00	0.65	3.22	
	DATE OF OCCURRENCE	28-29	06	17-18	28-29	26	11-12	16-17	23-24	15	17		09	JUN 11-12	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	4	0	6	8	5	9	4	3	5	5	0	4	53	
PRECIPITATION ≥ 0.10	2	0	4	5	5	8	1	3	3	1	0	3	35		
PRECIPITATION ≥ 1.00	1	0	0	1	2	1	0	0	2	0	0	0	7		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	5.5	0.0	T	T	T	T	0.0	0.0	0.0	0.6	0.0	8.3	14.4	
	GREATEST 24-HOUR (IN.)	3.7	0.0	T	T	T	T	0.0	0.0	0.0	0.6	0.0	7.0	7.0	
	DATE OF OCCURRENCE	29		18+	29+	09	11				17		09	DEC 09	
	MAXIMUM SNOW DEPTH (IN.)	4	0	0	0	0	0	0	0	0	0	0	3	4	
	DATE OF OCCURRENCE	30											10+	JAN 30	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	2	0	0	0	0	0	0	0	0	0	0	2	4		

NORMALS, MEANS, AND EXTREMES

LUBBOCK, TX (LBB)

LATITUDE: 33° 40' 03" N LONGITUDE: 101° 49' 17" W ELEVATION (FT): GRND: 3255 BARO: 3255 TIME ZONE: CENTRAL (UTC + 6) WBAN: 23042

		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	52.9	57.6	66.0	75.4	83.1	90.0	91.9	89.6	82.9	74.7	63.2	54.1	73.5
	MEAN DAILY MAXIMUM	52	53.1	57.8	65.5	75.0	82.9	90.6	92.3	90.5	83.7	74.9	62.8	54.8	73.7
	HIGHEST DAILY MAXIMUM	53	83	87	95	100	105	114	108	106	103	98	88	81	114
	YEAR OF OCCURRENCE		1972	1996	1989	1989	1996	1994	1983	1966	1948	1979	1996	1995	JUN 1994
	MEAN OF EXTREME MAXS.	52	74.0	78.6	84.2	90.5	97.3	101.9	100.7	98.9	95.6	89.5	80.5	74.3	88.8
	NORMAL DAILY MINIMUM	30	24.6	28.6	36.4	46.7	55.8	64.3	68.0	66.2	59.4	48.1	36.5	27.2	46.8
	MEAN DAILY MINIMUM	52	25.2	29.0	35.7	45.7	55.5	64.2	67.8	66.0	59.0	47.6	35.2	27.4	46.5
	LOWEST DAILY MINIMUM	53	-16	-8	2	22	30	44	51	52	33	18	-1	-2	-16
	YEAR OF OCCURRENCE		1963	1960	1948	1997	1967	1947	1952	1956	1983	1993	1957	1989	JAN 1963
	MEAN OF EXTREME MINS.	52	7.7	11.6	18.1	30.3	41.4	54.0	60.4	58.8	45.3	33.1	19.6	11.9	32.7
	NORMAL DRY BULB	30	38.8	43.1	51.2	61.1	69.4	77.2	80.0	77.9	71.1	61.4	49.8	40.6	60.1
	MEAN DRY BULB	52	39.1	43.5	50.6	60.4	69.4	77.5	80.0	78.3	71.4	61.3	49.0	41.2	60.1
	MEAN WET BULB	16	32.9	36.6	41.5	48.2	57.7	65.0	67.0	62.9	57.7	52.0	40.9	33.9	49.7
	MEAN DEW POINT	16	23.1	26.3	29.6	35.2	48.4	58.0	59.9	57.4	52.0	43.9	30.8	24.8	40.8
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.1	1.7	8.1	16.9	21.9	18.3	7.7	1.0	0.0	0.0	75.7	
MAXIMUM ≤ 32°	30	3.2	1.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.0	7.2	
MINIMUM ≤ 32°	30	25.4	19.0	9.9	1.5	0.1	0.0	0.0	0.0	0.0	0.9	9.9	23.0	89.7	
MINIMUM ≤ 0°	30	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	
H/C	NORMAL HEATING DEG. DAYS	30	812	613	437	161	25	0	0	0	17	154	456	756	3431
	NORMAL COOLING DEG. DAYS	30	0	0	10	44	162	366	465	400	200	42	0	0	1689
RH	NORMAL (PERCENT)	30	58	57	50	47	53	56	54	59	64	59	58	60	56
	HOUR 00 LST	30	64	62	56	53	60	63	60	66	72	67	64	65	63
	HOUR 06 LST	30	72	72	68	67	75	78	73	78	82	78	74	73	74
	HOUR 12 LST	30	49	49	41	38	42	45	47	50	54	47	46	49	46
	HOUR 18 LST	30	44	40	32	30	34	37	38	43	47	43	44	48	40
S	PERCENT POSSIBLE SUNSHINE	25	65	66	73	74	71	76	77	76	71	75	69	65	72
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	53	2.9	2.9	1.6	1.0	1.1	0.4	0.1	0.4	1.2	1.7	2.3	2.1	17.7
	THUNDERSTORMS	53	0.2	0.5	1.8	3.8	8.6	9.3	7.6	7.0	4.4	2.7	0.8	0.3	47.0
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1			2.4			2.4				0.8			
	MIDNIGHT-MIDNIGHT (OKTAS)	1										0.8			
	MEAN NO. DAYS WITH:														
	CLEAR	1	4.0	6.0	11.0		16.0	10.0							
PARTLY CLOUDY	1		4.0	7.0		3.0	2.0								
CLOUDY	1	1.0		2.0		1.0	2.0								
PR	MEAN STATION PRESSURE (IN)	27	26.73	26.70	26.62	26.62	26.61	26.65	26.72	26.73	26.73	26.73	26.72	26.74	26.69
	MEAN SEA-LEVEL PRES. (IN)	16	30.09	30.04	29.95	29.86	29.84	30.00	29.92	29.95	29.97	30.00	30.03	30.10	29.98
WINDS	MEAN SPEED (MPH)	34	12.6	13.6	15.0	15.2	14.7	13.9	11.9	10.2	10.9	11.6	12.3	12.4	12.9
	PREVAIL. DIR (TENS OF DEGS)	20	23	24	18	18	18	18	18	18	18	18	18	23	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	4	49	47	48	52	49	54	47	44	33	45	44	45	54
	DIR. (TENS OF DEGS)		25	21	31	33	28	26	19	16	33	35	28	27	26
	YEAR OF OCCURRENCE		1996	1996	1998	1999	1998	1997	1999	1997	1996	1999	1998	1997	JUN 1997
	MAXIMUM 5-SECOND:														
SPEED (MPH)	4	59	54	59	67	74	71	53	53	45	52	47	52	74	
DIR. (TENS OF DEGS)		24	29	25	24	24	28	19	12	25	35	22	27	24	
YEAR OF OCCURRENCE		1996	1999	1998	1998	1996	1997	1999	1999	1999	1999	1996	1997	MAY 1996	
PRECIPITATION	NORMAL (IN)	30	0.39	0.68	0.89	0.97	2.35	2.75	2.37	2.51	2.60	1.86	0.75	0.53	18.65
	MAXIMUM MONTHLY (IN)	53	4.05	2.51	3.23	5.79	7.80	7.95	7.20	8.85	8.17	10.80	2.67	2.24	10.80
	YEAR OF OCCURRENCE		1949	1961	1958	1997	1949	1967	1976	1966	1995	1983	1968	1991	OCT 1983
	MINIMUM MONTHLY (IN)	53	0.00	T	T	0.04	0.04	T	T	0.05	T	0.00	0.00	T	0.00
	YEAR OF OCCURRENCE		1967	1955	1972	1989	1998	1990	1970	1960	1954	1952	1960	1973	JAN 1967
	MAXIMUM IN 24 HOURS (IN)	53	1.56	2.15	1.80	2.18	5.14	5.70	3.25	3.78	4.71	5.82	1.57	1.12	5.82
	YEAR OF OCCURRENCE		1983	1961	1973	1982	1949	1967	1985	1966	1995	1983	1968	1959	OCT 1983
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	3.5	4.4	4.3	4.4	6.8	6.7	6.4	7.5	7.0	4.9	3.7	4.6	64.2	
PRECIPITATION ≥ 1.00	30	*	0.1	*	0.1	0.5	0.6	0.6	0.7	0.7	0.4	0.2	0.0	3.9	
SNOWFALL	NORMAL (IN)	30	2.6	3.3	1.5	0.2	0.0	0.0	0.0	0.0	0.3	1.5	1.9	11.3	
	MAXIMUM MONTHLY (IN)	51	25.3	16.8	14.3	5.3	0.7	0.6	T	0.0	0.0	7.5	21.4	9.9	25.3
	YEAR OF OCCURRENCE		1983	1956	1958	1983	1991	1995	1990			1976	1980	1960	JAN 1983
	MAXIMUM IN 24 HOURS (IN)	51	16.3	12.1	10.0	4.5	0.7	0.6	T	0.0	0.0	4.7	10.8	7.0	16.3
	YEAR OF OCCURRENCE		1983	1961	1969	1983	1991	1995	1990			1976	1980	1999	JAN 1983
	MAXIMUM SNOW DEPTH (IN)	51	17	13	8	3	0	0	0	0	0	1	11	5	17
	YEAR OF OCCURRENCE		1983	1956	1969	1983						1976	1980	1992	JAN 1983
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	0.7	1.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.7	3.6	

PRECIPITATION (inches) 1999 LUBBOCK, TX (LBB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	T	0.11	2.15	0.26	4.30	1.36	T	1.18	1.80	1.34	0.05	0.08	12.63
1971	T	0.81	0.21	1.36	2.44	2.25	0.76	4.15	5.22	1.79	0.43	0.81	20.23
1972	0.16	0.13	T	0.35	3.20	5.37	4.47	5.40	2.95	1.75	0.97	0.32	25.07
1973	1.44	1.26	1.90	1.40	0.43	0.32	4.16	0.36	0.73	0.89	T	T	12.89
1974	0.08	0.01	1.56	0.82	1.23	1.11	2.22	5.14	6.62	3.89	0.89	0.44	24.01
1975	0.41	1.53	0.04	0.45	2.74	1.80	4.32	2.21	2.61	0.06	1.18	0.34	17.69
1976	T	0.03	0.24	1.76	1.19	2.46	7.20	1.99	3.28	1.39	0.56	0.01	20.11
1977	0.24	0.38	0.82	2.90	2.46	2.28	1.13	4.31	0.49	1.11	0.02	0.01	16.15
1978	0.59	1.39	0.23	0.21	3.20	1.93	0.15	0.34	3.29	1.06	1.11	0.17	13.67
1979	0.33	0.85	2.95	1.17	4.00	3.69	1.84	3.81	0.21	0.59	0.09	1.29	20.82
1980	0.54	0.38	0.19	1.13	3.46	1.78	0.20	1.64	3.55	0.19	2.29	0.51	15.86
1981	0.32	0.67	1.19	2.05	1.25	0.79	3.35	5.41	1.78	5.34	0.64	0.20	22.99
1982	0.05	0.39	0.44	2.53	4.54	4.99	2.08	1.08	1.29	0.48	1.18	1.95	21.00
1983	2.75	0.32	0.55	0.77	1.23	1.79	0.41	0.32	0.39	10.80	0.54	0.36	20.23
1984	0.03	0.17	0.23	0.23	0.45	4.32	0.53	3.72	0.15	1.74	1.87	1.18	14.62
1985	0.38	0.27	1.19	0.48	2.97	4.51	3.94	0.63	4.73	3.60	0.27	0.18	23.15
1986	0.00	0.94	0.39	0.72	1.82	4.92	1.41	3.60	6.90	2.89	1.73	1.29	26.61
1987	0.54	1.47	0.41	0.09	3.30	2.40	4.29	1.68	2.67	0.77	0.11	1.09	18.82
1988	0.22	0.45	0.79	1.08	2.64	1.03	2.93	0.92	2.29	0.02	0.19	0.56	13.12
1989	0.50	1.04	0.70	0.04	0.39	4.98	0.26	3.05	3.74	T	T	0.31	15.01
1990	0.37	2.14	0.87	1.44	1.15	T	3.13	1.87	1.24	1.91	1.29	0.42	15.83
1991	1.15	0.54	0.08	0.07	1.87	5.15	2.14	2.39	6.77	0.57	1.07	2.24	24.04
1992	1.32	2.01	1.36	1.26	5.25	4.40	1.71	1.56	0.69	T	1.47	1.36	22.39
1993	1.03	0.39	0.37	1.16	2.06	3.78	0.82	1.78	0.24	0.49	0.30	0.33	12.75
1994	0.39	0.18	0.17	2.90	4.14	0.48	2.07	0.20	1.10	0.64	0.70	0.15	13.12
1995	0.45	0.16	0.51	0.78	2.31	2.33	0.93	2.12	8.17	0.52	T	0.47	18.75
1996	0.19	0.06	0.09	0.11	2.76	2.80	2.24	4.52	0.63	0.33	0.37	0.02	14.12
1997	0.28	1.30	0.03	5.79	2.73	3.50	2.06	1.54	1.96	1.13	0.60	1.75	22.67
1998	T	1.86	1.33	0.40	0.04	1.31	0.23	4.26	0.02	3.05	0.29	0.26	13.05
1999	1.35	T	1.03	3.56	3.38	4.52	0.79	0.63	3.27	0.61	0.00	1.05	20.19
POR= 53 YRS	0.54	0.62	0.77	1.18	2.70	2.85	2.04	2.05	2.24	1.67	0.58	0.52	17.76

WBAN : 23042

AVERAGE TEMPERATURE (°F) 1999 LUBBOCK, TX (LBB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	37.5	45.5	46.2	58.5	68.7	75.7	80.8	79.0	71.5	56.7	48.7	45.1	59.5
1971	41.4	42.7	51.0	59.7	68.8	78.4	80.0	73.4	70.4	61.9	50.8	43.7	60.2
1972	41.3	45.9	56.3	65.7	67.4	76.9	76.5	74.4	71.0	59.6	42.4	38.0	59.6
1973	34.9	40.2	51.4	55.1	67.8	76.9	77.3	77.7	70.3	63.9	53.5	42.2	59.3
1974	41.3	45.6	58.5	63.1	75.1	78.6	80.6	74.4	64.0	59.9	48.1	40.6	60.8
1975	40.8	41.0	49.5	58.7	67.6	77.4	75.4	77.5	67.5	62.5	50.3	42.8	59.3
1976	39.6	51.2	52.1	62.4	66.0	77.1	75.0	77.9	70.0	54.1	42.6	40.3	59.0
1977	34.5	46.2	51.9	60.4	71.8	79.3	80.3	79.5	77.4	63.3	52.3	45.0	61.8
1978	32.1	33.9	51.7	65.1	70.1	79.0	82.9	78.2	72.0	62.1	49.9	38.1	59.6
1979	31.7	41.9	52.9	61.8	69.2	76.7	81.8	77.4	73.2	64.6	45.7	42.5	60.0
1980	40.3	44.3	50.8	59.0	68.7	83.1	84.3	80.6	73.0	60.2	46.0	45.7	61.3
1981	41.7	44.7	51.3	64.0	68.1	79.6	81.7	76.2	70.5	59.7	53.4	44.0	61.2
1982	39.7	42.4	53.7	59.3	67.8	73.5	80.1	81.0	74.4	60.6	48.6	38.3	60.0
1983	32.5	42.8	51.0	54.8	65.9	74.0	80.6	80.4	74.7	63.6	52.4	31.7	58.7
1984	37.9	45.3	49.4	58.0	71.2	76.9	78.3	78.2	69.3	59.5	49.5	43.9	59.8
1985	35.6	41.9	52.3	63.0	70.0	75.5	79.7	81.5	71.4	61.2	49.8	38.0	60.0
1986	44.4	45.6	56.5	64.2	69.9	75.9	81.9	77.6	71.5	59.7	47.0	40.5	61.2
1987	38.2	44.9	48.1	58.9	68.8	76.1	79.5	79.4	70.9	63.1	49.8	39.6	59.8
1988	36.3	42.8	50.1	59.9	68.8	78.0	79.3	79.7	71.4	62.9	51.9	41.9	60.3
1989	44.7	38.4	54.5	64.8	73.0	74.5	81.4	79.0	69.1	64.1	51.1	35.4	60.8
1990	43.2	46.9	51.7	61.6	69.5	84.4	77.7	78.4	73.7	61.6	53.2	38.9	61.7
1991	37.8	49.0	54.0	63.8	73.7	77.6	79.6	77.9	68.0	62.2	45.2	43.1	61.0
1992	39.6	48.6	55.0	62.4	67.2	75.6	80.8	76.5	73.3	64.3	46.4	41.7	61.0
1993	39.3	42.2	51.1	60.3	69.3	78.4	82.2	79.9	72.0	59.4	45.5	43.2	60.2
1994	40.6	44.0	53.1	61.1	69.5	82.6	82.1	80.7	73.3	62.9	52.0	45.3	62.3
1995	42.4	48.0	51.8	60.6	68.1	76.9	82.7	80.0	69.6	61.4	51.5	42.5	61.3
1996	39.4	46.7	48.0	61.1	76.8	78.7	79.9	76.8	68.8	60.6	49.4	44.0	60.9
1997	38.1	41.2	53.8	53.8	66.9	74.5	80.6	78.9	74.6	60.5	45.5	37.0	58.8
1998	44.0	43.6	47.9	57.4	74.3	81.5	84.0	77.0	76.3	64.2	52.4	41.1	62.0
1999	43.6	50.3	50.1	59.8	67.1	75.5	80.6	81.4	70.0	60.4	54.4	40.9	61.2
POR= 53 YRS	39.0	43.2	50.6	60.3	69.2	77.4	80.0	78.3	71.4	61.4	48.8	41.1	60.1

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HEATING DEGREE DAYS (base 65°F) 1999 LUBBOCK, TX (LBB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0	0	50	286	484	608	723	618	438	186	30	0	3423
1971-72	0	0	83	124	421	656	728	549	275	94	40	0	2970
1972-73	2	0	23	220	672	831	928	688	416	312	58	0	4150
1973-74	0	0	31	99	340	703	726	536	223	127	11	0	2796
1974-75	0	0	105	166	500	753	744	664	474	233	18	4	3661
1975-76	0	0	76	122	436	680	780	397	392	116	57	0	3056
1976-77	0	0	30	333	665	760	939	520	397	153	1	0	3798
1977-78	0	0	0	80	373	611	1014	864	419	75	64	0	3500
1978-79	0	0	31	129	447	827	1023	640	369	134	45	9	3654
1979-80	0	0	9	104	570	690	756	592	436	205	48	0	3410
1980-81	0	0	21	190	565	590	712	563	420	108	33	0	3202
1981-82	0	0	16	202	341	643	777	635	351	198	45	2	3210
1982-83	0	0	0	189	485	821	1001	613	430	326	68	13	3946
1983-84	0	0	18	107	371	1025	836	566	477	216	20	0	3636
1984-85	0	0	80	194	460	646	908	639	392	104	26	3	3452
1985-86	0	0	65	133	448	832	631	540	272	100	32	0	3053
1986-87	0	0	7	185	535	752	822	555	519	224	25	0	3624
1987-88	0	0	2	96	456	784	881	638	459	168	32	0	3516
1988-89	0	6	11	95	388	707	620	739	341	132	17	1	3057
1989-90	0	0	55	115	409	912	672	500	411	147	86	0	3307
1990-91	0	0	5	138	357	801	836	444	340	82	18	0	3021
1991-92	0	0	69	163	587	671	782	465	303	134	47	3	3224
1992-93	0	0	0	90	554	716	788	632	421	176	40	0	3417
1993-94	0	3	13	222	580	669	751	581	374	172	39	0	3404
1994-95	0	0	11	127	394	603	693	468	427	180	35	0	2938
1995-96	0	0	60	132	399	689	785	525	518	162	0	0	3270
1996-97	0	0	33	188	463	645	824	660	350	338	45	2	3548
1997-98	0	3	9	214	577	860	645	594	538	244	3	7	3694
1998-99	0	0	0	106	370	732	658	405	462	181	66	0	2980
1999-	0	0	46	167	313	740							

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COOLING DEGREE DAYS (base 65°F) 1999 LUBBOCK, TX (LBB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	0	11	167	348	498	440	249	32	2	0	1747
1971	0	0	14	35	157	408	476	269	252	34	4	0	1649
1972	0	0	14	120	119	362	366	297	211	63	0	0	1552
1973	0	0	0	19	153	364	387	401	197	71	2	0	1594
1974	0	0	30	78	330	413	491	300	80	18	0	0	1740
1975	0	0	0	49	107	383	332	392	155	49	0	0	1467
1976	0	1	0	45	93	369	317	406	187	4	0	0	1422
1977	0	0	0	19	221	435	482	455	379	36	0	0	2027
1978	0	0	12	85	230	426	562	417	248	46	0	0	2026
1979	0	0	0	44	183	371	524	394	264	98	0	0	1878
1980	0	0	0	32	172	549	605	488	272	48	3	0	2169
1981	0	0	3	84	137	443	524	356	187	42	0	0	1776
1982	0	5	11	34	141	265	476	504	289	58	0	0	1783
1983	0	0	2	27	101	291	490	486	313	70	2	0	1782
1984	0	0	0	13	219	363	420	416	217	30	1	0	1679
1985	0	0	6	52	187	324	462	518	264	22	0	0	1835
1986	0	3	15	79	190	334	528	400	209	26	0	0	1784
1987	0	0	0	48	149	338	456	452	187	44	7	0	1681
1988	0	0	6	24	158	394	450	467	210	37	3	0	1749
1989	0	0	26	134	274	292	517	442	182	93	0	0	1960
1990	0	0	5	50	231	590	401	423	270	41	9	0	2020
1991	0	0	6	52	295	386	461	404	167	81	0	0	1852
1992	0	0	1	61	121	328	495	364	258	72	0	0	1700
1993	0	0	0	42	181	408	541	470	229	51	0	0	1922
1994	0	0	10	62	186	536	536	496	265	69	11	0	2171
1995	0	0	20	52	142	363	559	472	206	28	1	0	1843
1996	0	2	2	50	371	415	469	372	152	58	1	0	1892
1997	0	0	9	11	109	294	493	439	304	80	0	0	1739
1998	0	0	13	21	297	510	594	378	349	89	0	0	2251
1999	0	0	4	32	139	318	490	516	204	32	1	0	1736

SNOWFALL (inches) 1999 LUBBOCK, TX (LBB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	0.0	0.0	0.1	0.0	T	5.2	2.1	0.0	0.0	0.0	7.4
1971-72	0.0	0.0	0.0	0.0	T	6.5	2.2	1.0	T	0.0	0.0	0.0	9.7
1972-73	0.0	0.0	0.0	T	5.9	0.4	9.4	9.6	T	0.3	0.0	0.0	25.6
1973-74	0.0	0.0	0.0	0.0	T	T	T	0.2	T	0.0	0.0	0.0	0.2
1974-75	0.0	0.0	0.0	0.0	0.0	1.1	1.7	3.8	0.7	T	0.0	0.0	7.3
1975-76	0.0	0.0	0.0	0.0	0.0	3.4	T	T	T	0.0	0.0	0.0	3.4
1976-77	0.0	0.0	0.0	7.5	9.1	0.1	2.0	1.7	T	0.0	0.0	0.0	20.4
1977-78	0.0	0.0	0.0	0.0	T	T	5.7	10.2	0.7	0.0	0.0	0.0	16.6
1978-79	0.0	0.0	0.0	0.0	0.5	1.7	0.8	8.6	0.6	0.0	0.0	0.0	12.2
1979-80	0.0	0.0	0.0	0.0	0.1	5.0	3.6	2.9	T	1.4	0.0	0.0	13.0
1980-81	0.0	0.0	0.0	0.0	21.4	T	3.5	0.1	T	0.0	0.0	0.0	25.0
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.7	T	0.0	0.0	0.0	3.2
1982-83	0.0	0.0	0.0	0.0	0.4	6.8	25.3	3.4	T	5.3	0.0	0.0	41.2
1983-84	0.0	0.0	0.0	0.0	0.0	2.3	0.5	1.7	T	0.0	0.0	0.0	4.5
1984-85	0.0	0.0	0.0	0.0	T	0.1	2.0	T	T	0.0	0.0	0.0	2.1
1985-86	0.0	0.0	0.0	0.0	0.0	1.7	0.0	6.7	0.0	0.0	0.0	0.0	8.4
1986-87	0.0	0.0	0.0	T	T	5.8	4.9	3.3	1.3	0.1	0.0	0.0	15.4
1987-88	0.0	0.0	0.0	0.0	T	4.3	0.9	4.7	0.4	T	0.0	0.0	10.3
1988-89	0.0	0.0	0.0	0.0	1.4	3.6	1.4	T	3.9	0.0	T	T	10.3
1989-90	0.0	0.0	0.0	0.0	0.0	0.9	0.5	T	0.2	0.0	T	0.0	1.6
1990-91	T	0.0	0.0	0.0	0.3	0.5	0.6	T	0.4	0.0	0.7	T	2.5
1991-92	0.0	0.0	0.0	0.4	0.4	2.5	7.4	T	0.0	T	T	T	10.7
1992-93	0.0	0.0	0.0	0.0	2.9	5.3	0.6	0.2	0.8	T	T	0.0	9.8
1993-94	0.0	0.0	0.0	0.1	T	T	2.1	T	0.4	T	0.0	0.0	2.6
1994-95	0.0	0.0	0.0	0.0	T	0.0	2.2	T	0.4	0.0	0.0	0.6	3.2
1995-96	0.0	0.0	0.0	0.0			2.0	1.4	0.1	T	T	0.0	
1996-97	0.0	0.0	0.0	T	T	0.2	4.5	3.9	0.0	T	0.0	0.0	8.6
1997-98	0.0	0.0	0.0	0.0	0.8	3.4	T	1.2	1.4	T	0.0	T	6.8
1998-99	T	0.0	0.0	0.0	0.0	T	5.5	0.0	T	T	T	T	5.5
1999-	0.0	0.0	0.0	0.6	0.0	8.3							
POR= 50 YRS	T	0.0	0.0	0.2	1.1	1.9	2.5	2.5	1.4	0.1	0.0	0.0	9.7

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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. 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 LUBBOCK, TEXAS (LBB)

Lubbock is located on a plateau area of Northwestern Texas that is referred to locally as the South Plains Region. The general elevation of the area is about 3,250 feet. The Region is a major part of the Llano Estacado (staked plains). The latter, which includes a large portion of Northwest Texas, is bounded on the east and southeast by an erosional escarpment that is usually referred to as the Cap Rock. The Llano Estacado extends southwestward into the upper Pecos Valley and westward into eastern New Mexico.

The South Plains are predominately flat, but contain numerous small playas (or clay lined depressions) and small stream valleys. During the rainy months the playas collect run-off water and form small lakes or ponds. The stream valleys drain into the major rivers of West Texas, but throughout most of the year these streams carry only very light flows.

The escarpment, or Cap Rock, is the primary terrain feature that causes a noticeable distortion of the smooth wind flow patterns across the South Plains. The most noticeable influence is on southeasterly winds as they are deflected upward along the face of the escarpment.

The Lubbock area is the heart of the largest cotton-producing section of Texas. Grain sorghum production and cattle feeding make significant contributions to the agroecconomy of the area. Irrigation from underground sources is often used as a supplement to natural rainfall to improve crop yields. The soils of the region are sandy clay loams which consist of limy clays, silts, and sands of a reddish hue.

The area is semi-arid, transitional between the desert conditions on the west and the humid climates to the east and southeast. The greatest monthly rainfall totals occur from May through September when warm moist tropical air may be carried into the area from the Gulf of Mexico. This air mass often brings moderate to heavy afternoon and evening thunderstorms, accompanied by hail. Precipitation across the area is characterized by its variability. The monthly precipitation extremes range from trace amounts in several isolated months to 14 inches.

Snow may occur from late October until April. Each snowfall is generally light and seldom remains on the ground for more than two or three days at any one period.

High winds are associated primarily with intense thunderstorms and at times may cause significant damage to structures. Winds in excess of 25 mph occasionally occur for periods of 12 hours or longer. These prolonged winds are generally associated with late winter and springtime low-pressure centers. Spring winds often bring widespread dust causing discomfort to residents for periods of several hours.

Overall, the climate of the region is rated as pleasant. Most periods of disagreeable weather are of short duration. They generally occur from the winter months into the early summer months.

The summer heat is not considered oppressive. One moderating factor is a variable, but usually gentle, wind. Intrusions of dry air from the west often reduce any discomfort from the summer heat and lower temperatures into the 60s.

The average first occurrence of temperatures below 32 degrees Fahrenheit in the fall is the first of November and the average last occurrence in the spring is in mid April.

STATION LOCATION

LUBBOCK, TEXAS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE											AUGUST 1960	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS
						SEA LEVEL	GROUND												
							WIND	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY			
<u>COOPERATIVE</u> Texas Agricultural Experimental Station 3 miles E of P.O.	3/20/11	Present		33° 35'	101°48'	3215		4										Coordinates and elevations as of 11/26/58.	
<u>AIRPORT</u> Municipal Airport 5 miles N of P.O.	12/29/36	9/19/42		33° 39'	101°50'	3241		a										Airway observer. a - Added 4/30/40.	
Municipal Airport Hangar 5 miles N of City	11/06/46	8/17/48		33° 39'	101°50'	3243	46	4	4									Weather Bureau Office established.	
Municipal Airport Small Building	8/17/48	6/15/50	250' E	33° 39'	101°50'	3243	46	5	5										
Terminal Building Municipal Airport	6/15/50	9/02/65	800' NNE	33° 39'	101°50'	3243	68	6	5									Weighting gage installed 9/17/57.	
Executive Air Terminal Municipal Airport+ + Name changed to West Texas Air Terminal on 7/25/68 and Lubbock Regional Airport in 1970	9/02/65	09/01/95	1 mi. E	33° 39'	101°49'	3254	25	c5	c5	%20	e18g4	4f4	d4f4	NA b5h5	NA			b - Commissioned 3000 ft. NE of Terminal Building temperature site 9/13/65. - Added 09/29/71. - Commissioned 11/01/72. d - Added 03/12/74. e - Added 08/20/74. f - Moved 100' NW 04/16/82. g - Moved to ground 04/16/82. h - Type change 07/16/85.	
Regional Airport	09/01/95	Present	NA	33°40'	101°49'	3255											S	ASOS Commissioned 09/01/95	

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

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