

2003

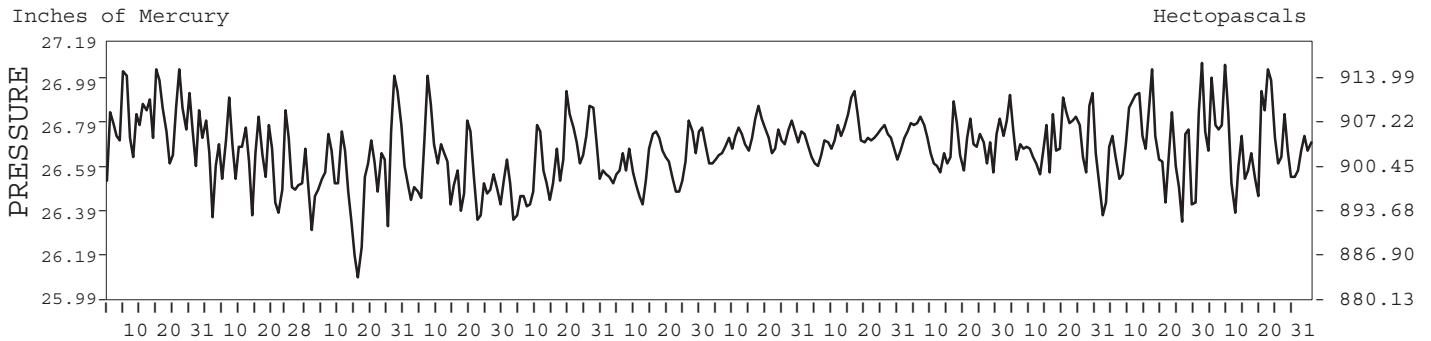
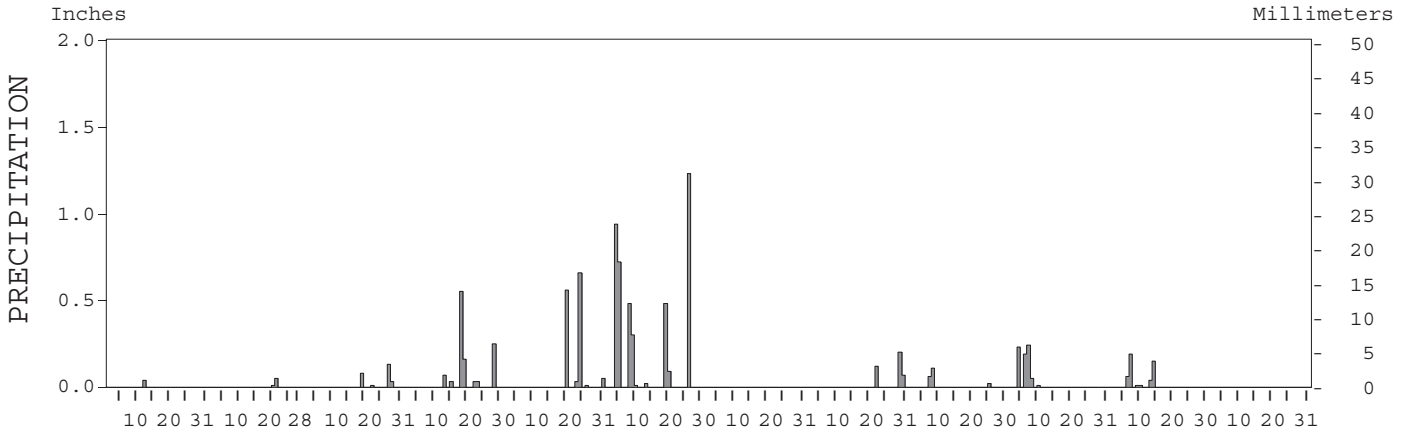
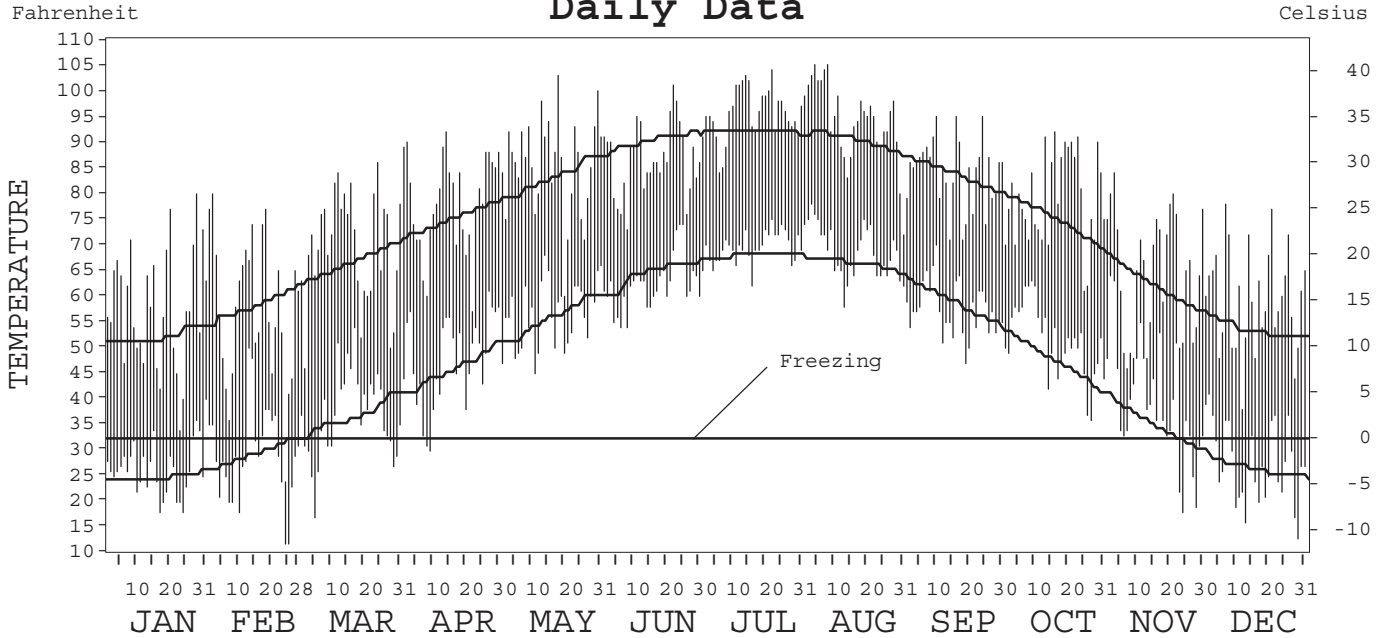
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-5108

LUBBOCK,
TEXAS (LBB)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2003

LUBBOCK, TX (LBB)

LATITUDE: 33° 40' 03" N LONGITUDE: 101° 49' 17" W ELEVATION (FT): GRND: 3256 BARO: 3259 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	57.7	57.5	69.5	78.3	85.5	86.6	95.6	94.2	84.1	79.2	64.4	59.4	76.0	
	HIGHEST DAILY MAXIMUM	80	80	86	92	103	101	104	105	95	92	84	78	105	
	DATE OF OCCURRENCE	28	02	24	14	18	22	22	08+	24+	16	03	07	AUG 08+	
	MEAN DAILY MINIMUM	26.5	29.1	36.8	47.6	56.5	62.2	69.4	68.7	57.5	51.3	39.2	27.5	47.7	
	LOWEST DAILY MINIMUM	18	12	17	30	45	54	62	58	47	36	18	13	12	
	DATE OF OCCURRENCE	24+	25+	05	09	11	08+	16	13	19	27	24	29	FEB 25+	
	AVERAGE DRY BULB	42.1	43.3	53.2	63.0	71.0	74.4	82.5	81.5	70.8	65.3	51.8	43.5	61.9	
	MEAN WET BULB	34.0	35.4	42.7	49.6	57.5	64.3	66.4	65.8	60.0	53.8	42.9	33.7	50.5	
	MEAN DEW POINT	24.4	25.9	30.8	35.0	45.6	59.0	56.8	56.9	52.5	44.1	32.4	18.4	40.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	2	11	10	28	24	5	6	0	0	0	86
	MAXIMUM ≤ 32°	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	MINIMUM ≤ 32°	26	19	10	2	0	0	0	0	0	0	5	22	84	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	703	598	360	133	19	1	0	0	9	72	403	660	2958	
	COOLING DEGREE DAYS	0	0	4	79	214	290	550	520	189	87	16	0	1949	
RH	MEAN (PERCENT)	58	58	50	41	49	64	45	47	57	54	56	42	52	
	HOUR 00 LST	67	65	56	49	53	73	47	53	65	61	60	48	58	
	HOUR 06 LST	78	74	74	63	73	88	70	68	77	74	73	57	72	
	HOUR 12 LST	45	49	37	29	40	52	34	38	46	42	48	33	41	
	HOUR 18 LST	39	41	31	25	31	47	27	32	37	38	42	30	35	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	2	2	3	2	2	2	0	0	0	4	0	0	17	
	THUNDERSTORMS	0	0	0	7	4	13	0	3	4	1	0	0	33	
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.)	26.83	26.63	26.57	26.58	26.62	26.63	26.73	26.74	26.72	26.71	26.72	26.72	26.68	
	MEAN SEA-LEVEL PRESS. (IN.)	30.19	29.96	29.85	29.82	29.84	29.83	29.92	29.94	29.95	29.96	30.02	30.06	29.94	
WINDS	RESULTANT SPEED (MPH)	2.2	1.6	4.0	5.1	2.2	3.5	3.9	5.2	4.6	1.8	4.3	5.4	2.8	
	RES. DIR. (TENS OF DEGS.)	23	23	22	19	12	15	15	15	15	17	21	25	19	
	MEAN SPEED (MPH)	11.5	12.6	13.2	14.9	13.4	12.1	11.6	10.3	11.4	10.6	12.7	12.7	12.2	
	PREVAIL. DIR. (TENS OF DEGS.)	25	21	18	11	18	14	17	17	17	21	20	22	17	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	47	40	40	60	48	41	28	38	33	36	38	51	60	
	DIR. (TENS OF DEGS.)	29	21	36	24	29	03	15	09	16	04	19	27	24	
	DATE OF OCCURRENCE	01	02	27+	15	24	04	07	22	10+	25	22+	15	APR 15	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	56	51	51	67	55	52	31	44	44	46	45	62	67	
DIR. (TENS OF DEGS.)	29	32	20	24	29	01	19	09	16	04	33	26	24		
DATE OF OCCURRENCE	01	23	17	15	24	05+	25+	22	07	25	18	15	APR 15		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.04	0.06	0.25	1.12	1.31	4.27	T	0.39	0.19	0.72	0.46	T	8.81	
	GREATEST 24-HOUR (IN.)	0.04	0.06	0.16	0.71	0.66	1.47	T	0.27	0.17	0.24	0.25	T	1.47	
	DATE OF OCCURRENCE	12	20-21	27-28	18-19	24	04-05	21+	29-30	07-08	07	06-07	15+	JUN 04-05	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	1	2	4	7	5	9	0	3	3	5	6	0	45	
PRECIPITATION ≥ 0.10	0	0	1	3	2	6	0	2	1	3	2	0	20		
PRECIPITATION ≥ 1.00	0	0	0	0	0	1	0	0	0	0	0	0	1		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	T	T	0.8	T	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.8	
	GREATEST 24-HOUR (IN.)	T	T	0.4	T	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.4	
	DATE OF OCCURRENCE	23+	06	28+	18	03	0	0	0	0	0	0	0	MAR 28+	
	MAXIMUM SNOW DEPTH (IN.)	0	0	1	0	0	0	0	0	0	0	0	0	1	
	DATE OF OCCURRENCE			28										MAR 28	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0		

NORMALS, MEANS, AND EXTREMES

LUBBOCK, TX (LBB)

LATITUDE: 33° 40' 03" N LONGITUDE: 101° 49' 17" W ELEVATION (FT): GRND: 3256 BARO: 3259 TIME ZONE: CENTRAL (UTC + 6) WBAN: 23042

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	51.9	57.8	66.2	74.7	82.8	90.0	91.9	90.0	83.4	74.4	61.6	53.2	73.2
	MEAN DAILY MAXIMUM	56	53.3	58.0	65.6	75.2	83.0	90.5	92.5	90.8	83.8	74.9	62.5	54.8	73.7
	HIGHEST DAILY MAXIMUM	57	83	87	95	100	109	114	108	106	103	100	88	81	114
	YEAR OF OCCURRENCE		1972	1996	1989	1989	2000	1994	1983	1966	2000	1996	1995	1995	JUN 1994
	MEAN OF EXTREME MAXS.	56	74.0	78.7	84.3	90.5	97.6	101.8	100.9	99.0	95.7	89.7	80.5	74.2	88.9
	NORMAL DAILY MINIMUM	30	24.4	28.9	36.2	45.4	55.6	64.1	67.7	66.0	58.4	47.0	34.5	26.1	46.2
	MEAN DAILY MINIMUM	56	25.3	29.1	35.7	45.9	55.6	64.2	67.9	66.1	59.0	47.8	35.3	27.3	46.6
	LOWEST DAILY MINIMUM	57	-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.	56	8.3	11.9	18.1	30.6	41.5	54.1	60.5	58.9	45.1	33.1	19.6	12.2	32.8
	NORMAL DRY BULB	30	38.1	43.3	51.2	60.0	69.2	77.1	79.8	78.0	70.9	60.7	48.1	39.7	59.7
	MEAN DRY BULB	56	39.4	43.6	50.7	60.5	69.5	77.4	80.1	78.6	71.5	61.3	49.0	41.1	60.2
	MEAN WET BULB	19	33.1	36.5	41.6	48.7	57.9	65.2	67.1	63.7	58.2	52.2	41.1	33.9	49.9
	MEAN DEW POINT	19	23.4	26.2	29.9	36.1	48.3	58.1	59.8	57.7	51.9	44.1	31.5	24.6	41.0
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.2	1.6	8.6	17.4	22.4	19.2	9.2	1.2	0.0	0.0	79.8	
MAXIMUM ≤ 32°	30	3.0	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	*	0.2	2.0	7.1	
MINIMUM ≤ 32°	30	24.8	17.2	8.6	1.4	0.0	0.0	0.0	0.0	0.0	1.0	10.3	22.6	85.9	
MINIMUM ≤ 0°	30	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	
H/C	NORMAL HEATING DEG. DAYS	30	818	592	419	182	38	2	0	0	33	163	491	770	3508
	NORMAL COOLING DEG. DAYS	30	0	0	7	48	179	381	472	413	223	46	0	0	1769
RH	NORMAL (PERCENT)	30	59	57	50	47	54	58	55	59	62	61	58	61	57
	HOUR 00 LST	30	65	62	56	53	61	64	61	66	70	68	65	66	63
	HOUR 06 LST	30	73	72	68	68	76	78	74	78	80	79	74	73	74
	HOUR 12 LST	30	50	48	40	37	42	45	46	50	52	47	47	50	46
	HOUR 18 LST	30	45	40	32	29	35	38	38	43	45	43	45	47	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)	57	2.8	2.8	1.7	1.1	1.1	0.4	0.1	0.4	1.2	1.8	2.3	2.2	17.9
	THUNDERSTORMS	57	0.2	0.5	1.9	3.9	8.3	9.3	7.4	6.8	4.3	2.8	0.8	0.3	46.5
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)	30	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)	19	30.10	30.05	29.94	29.86	29.84	29.96	29.92	29.95	29.97	30.00	30.03	30.10	29.98
WINDS	MEAN SPEED (MPH)	38	12.6	13.6	14.9	15.2	14.6	13.9	11.9	10.2	10.9	11.6	12.2	12.4	12.8
	PREVAIL. DIR (TENS OF DEGS)	24	23	24	18	18	18	18	18	18	18	18	22	23	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	8	49	48	48	60	56	54	47	44	36	45	44	51	60
	DIR. (TENS OF DEGS)		25	25	31	24	11	26	19	16	35	35	26	27	24
	YEAR OF OCCURRENCE		1996	2001	1998	2003	2001	1997	1999	1997	2002	1999	2002	2003	APR 2003
	MAXIMUM 5-SECOND:														
SPEED (MPH)	8	59	56	59	67	74	71	53	54	48	52	52	62	74	
DIR. (TENS OF DEGS)		24	26	25	24	24	28	19	35	33	35	26	26	24	
YEAR OF OCCURRENCE		1996	2001	1998	2003	1996	1997	1999	2002	2001	1999	2002	2003	MAY 1996	
PRECIPITATION	NORMAL (IN)	30	0.50	0.71	0.76	1.29	2.31	2.98	2.13	2.36	2.57	1.70	0.71	0.67	18.69
	MAXIMUM MONTHLY (IN)	57	4.05	2.51	3.23	5.79	7.80	8.48	7.20	8.85	8.17	10.80	3.37	2.24	10.80
	YEAR OF OCCURRENCE		1949	1961	1958	1997	1949	2000	1976	1966	1995	1983	2001	1991	OCT 1983
	MINIMUM MONTHLY (IN)	57	0.00	T	T	0.04	0.04	T	T	0.01	T	0.00	0.00	T	0.00
	YEAR OF OCCURRENCE		1967	1955	1972	1989	1998	1990	1970	2000	1954	1952	1960	1973	JAN 1967
	MAXIMUM IN 24 HOURS (IN)	57	1.56	2.15	1.80	2.18	5.14	5.70	3.25	3.78	4.71	5.82	1.59	1.22	5.82
	YEAR OF OCCURRENCE		1983	1961	1973	1982	1949	1967	1985	1966	1995	1983	2001	2002	OCT 1983
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	4.2	4.4	4.1	5.0	7.1	7.4	6.3	7.6	6.3	5.1	3.7	4.4	65.6	
PRECIPITATION ≥ 1.00	30	0.1	0.1	0.1	0.2	0.5	0.6	0.6	0.6	0.7	0.3	0.1	*	3.9	
SNOWFALL	NORMAL (IN)	30	3.0	2.4	0.5	0.2	0.*	0.0	0.0	0.0	0.0	0.3	1.6	2.4	10.4
	MAXIMUM MONTHLY (IN)	55	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)	55	16.3	12.1	10.0	4.5	0.7	0.6	T	0.0	0.0	4.7	10.8	8.3	16.3
	YEAR OF OCCURRENCE		1983	1961	1969	1983	1991	1995	1990			1976	1980	2000	JAN 1983
	MAXIMUM SNOW DEPTH (IN)	55	17	13	8	3	0	0	0	0	0	1	11	8	17
	YEAR OF OCCURRENCE		1983	1956	1969	1983						1976	1980	2000	JAN 1983
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	0.9	0.8	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.8	3.2	

PRECIPITATION (inches) 2003 LUBBOCK, TX (LBB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	T	0.05	2.78	1.67	0.78	8.48	2.06	0.01	T	3.27	1.25	0.92	21.27
2001	1.46	0.51	2.45	0.38	4.20	0.47	0.60	1.11	0.85	0.02	3.37	0.13	15.55
2002	0.62	0.51	2.15	1.26	0.37	3.06	1.40	1.31	1.38	5.26	0.38	1.57	19.27
2003	0.04	0.06	0.25	1.12	1.31	4.27	T	0.39	0.19	0.72	0.46	T	8.81
POR= 57 YRS	0.57	0.61	0.86	1.19	2.64	2.96	1.99	1.98	2.14	1.73	0.66	0.55	17.88

WBAN : 23042

AVERAGE TEMPERATURE (°F) 2003 LUBBOCK, TX (LBB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	43.0	50.4	53.7	62.1	74.7	74.0	80.5	81.3	74.6	62.3	43.4	35.1	61.3
2001	36.8	44.4	48.3	64.3	70.1	80.7	85.3	79.7	71.9	61.6	52.5	42.5	61.5
2002	42.2	42.4	49.0	63.0	70.2	78.6	79.8	81.6	72.5	58.2	47.5	41.9	60.6
2003	42.1	43.3	53.2	63.0	71.0	74.4	82.5	81.5	70.8	65.3	51.8	43.5	61.9
POR= 57 YRS	39.3	43.3	50.7	60.5	69.3	77.4	80.1	78.6	71.5	61.4	48.9	41.0	60.2

HEATING DEGREE DAYS (base 65°F) 2003 LUBBOCK, TX (LBB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	0	0	46	167	313	740	674	418	344	135	28	4	2869
2000-01	0	0	30	162	642	923	867	569	512	87	24	0	3816
2001-02	0	0	8	150	373	688	698	629	493	144	32	0	3215
2002-03	0	0	5	239	517	709	703	598	360	133	19	1	3284
2003-	0	0	9	72	403	660							

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COOLING DEGREE DAYS (base 65°F) 2003 LUBBOCK, TX (LBB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	0	0	0	55	334	281	487	512	326	86	0	0	2081
2001	0	0	0	71	189	478	640	462	222	50	4	0	2116
2002	0	0	3	90	200	414	465	521	238	37	0	0	1968
2003	0	0	4	79	214	290	550	520	189	87	16	0	1949

SNOWFALL (inches) 2003 LUBBOCK, TX (LBB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	0.0	0.0	2.0	1.4	0.1	T	T	0.0	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
1999-00	0.0	0.0	0.0	0.6	0.0	8.3	T	0.0	T	T	T	T	8.9
2000-01	0.0	0.0	0.0	T	4.4	8.5	2.3	0.2	0.8	T	T	T	16.2
2001-02	0.0	0.0	0.0	0.0	4.5	1.2	1.4	3.4	T	T	0.0	T	10.5
2002-03	0.0	0.0	0.0	0.0	T	T	T	T	0.8	T	0.0	T	0.8
2003-	0.0	0.0	0.0	0.0	0.0	0.0							
POR= 54 YRS	T	0.0	0.0	0.2	1.3	2.0	2.5	2.5	1.4	0.1	0.0	0.0	10.0

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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 (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.</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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2003 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 agroecology 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										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE	REMARKS
						GROUND												
						SEA LEVEL	WIND INSTRUMENT	EXTREME THERMOMETER S	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAUGE	WINDHOLE GAUGE	8 INCH RAIN GAUGE	HYGROMETER			
*NOTE: <u>AIRPORT</u> 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	e18 g4	4 f4	d4 f4	b5 h5		b. Commissioned 3000 ft. NE of Terminal Building temperature site 9/13/65. c. 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'	i3256								S		ASOS Commissioned 09/01/95 i. Ground elevation.		

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* NOTES: For earlier station history see previous editions.