

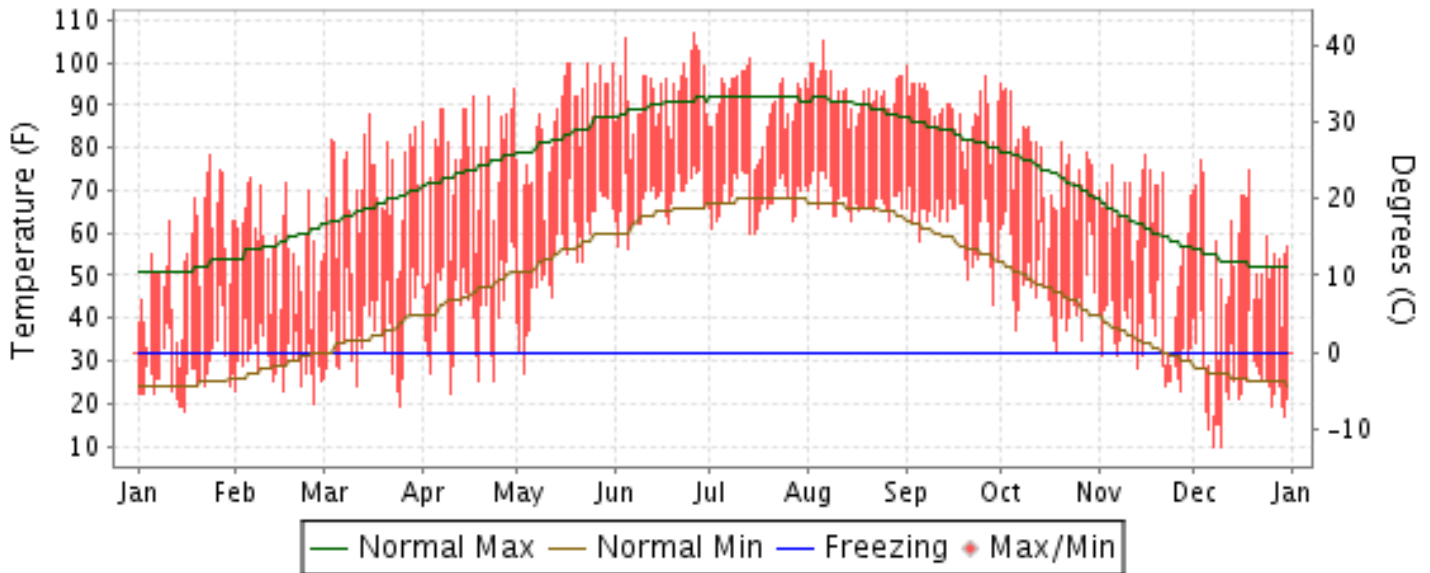


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

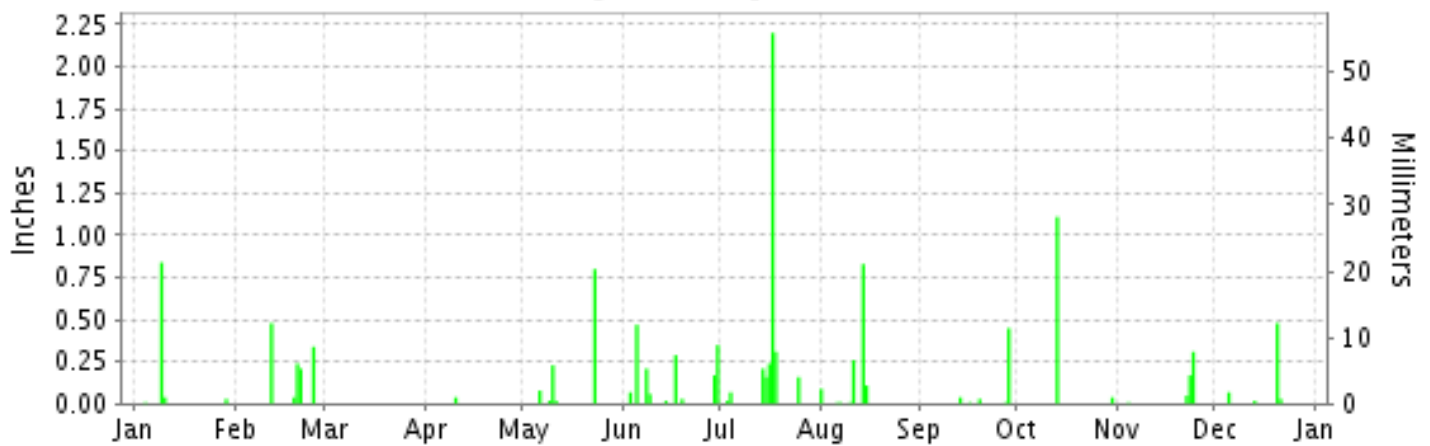
ISSN 0198-5108

LUBBOCK, TEXAS (KLBB)

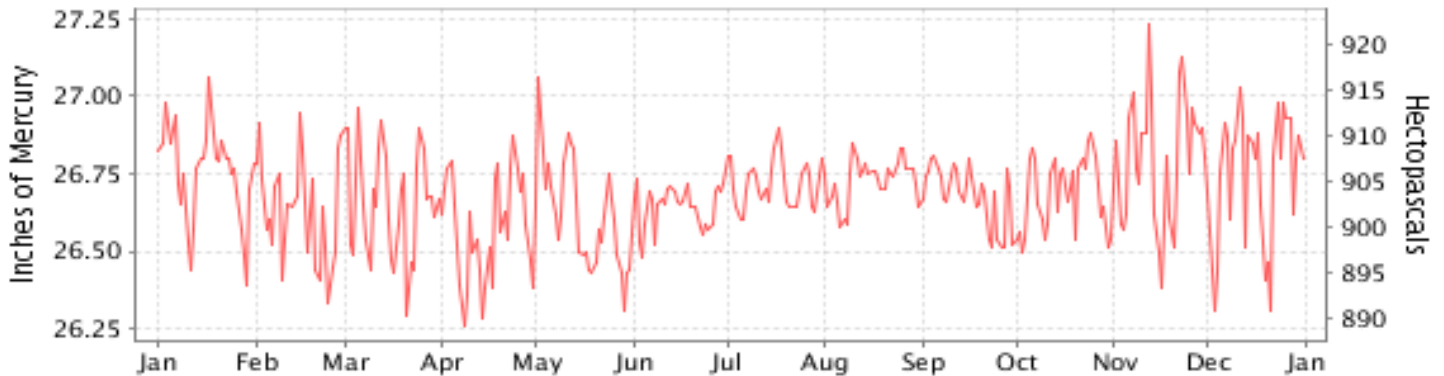
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

LUBBOCK (KLBB)

LATITUDE: 33° 39'N LONGITUDE: 101° 49'W ELEVATION (FT): GRND: 3254 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	54.0	57.4	70.3	76.5	85.6	93.4	90.5	93.2	88.7	76.5	61.5	53.4	75.1	
	HIGHEST DAILY MAXIMUM	78	73	88	94	100	107	101	105	99	95	78	77	107	
	DATE OF OCCURRENCE	24	06	15	30	31+	26	14	06	01	01	16	03	JUN 26	
	MEAN DAILY MINIMUM	27.7	29.7	36.5	41.2	54.6	67.6	68.0	67.9	61.5	47.6	35.4	24.1	46.8	
	LOWEST DAILY MINIMUM	18	20	19	22	27	56	60	63	43	32	23	10	10	
	DATE OF OCCURRENCE	16	26	25	10	03	05	15+	27+	29	19	27	10+	DEC 10+	
	AVERAGE DRY BULB	40.9	43.6	53.4	58.9	70.1	80.5	79.2	80.5	75.1	62.1	48.5	38.7	61.0	
	MEAN WET BULB	33.8	34.9	41.3	45.5	54.8	65.6	65.7	66.5	61.8	50.8	40.3	31.3	49.4	
	MEAN DEW POINT	24.5	23.4	26.3	29.9	40.6	56.7	57.8	59.0	53.3	40.5	31.6	22.1	38.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	3	13	19	19	25	14	4	0	0	97	
	MAXIMUM <= 32°	1	0	0	0	0	0	0	0	0	0	3	4	8	
MINIMUM <= 32°	24	20	11	9	2	0	0	0	0	1	13	26	106		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	741	594	356	236	86	0	0	0	4	159	490	804	3470	
	COOLING DEGREE DAYS	0	0	2	60	253	474	450	489	316	76	3	0	2123	
RH	MEAN (PERCENT)	59	54	42	42	43	50	53	53	52	53	59	60	52	
	HOUR 00 LST	65	61	49	49	46	55	59	61	60	62	68	67	59	
	HOUR 06 LST	76	73	67	65	69	70	72	74	74	73	75	74	72	
	HOUR 12 LST	49	46	28	29	32	42	42	40	39	36	47	48	40	
	HOUR 18 LST	43	34	21	22	23	32	40	37	35	36	48	47	35	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	3	0	0	2	0	0	0	0	1	2	1	9	
	THUNDERSTORMS	0	3	1	1	7	11	2	8	5	2	0	0	40	
PR	MEAN STATION PRESS. (IN.)	26.75	26.63	26.67	26.58	26.70	26.64	26.72	26.73	26.69	26.69	26.80	26.74	26.70	
	MEAN SEA-LEVEL PRESS. (IN.)	30.11	29.96	29.96	29.83	29.84	29.83	29.92	29.93	29.90	29.94	30.13	30.10	29.95	
WINDS	RESULTANT SPEED (MPH)	2.8	1.1	2.6	3.1	5.0	9.1	6.9	5.9	5.7	4.2	2.9	3.1	3.4	
	RES. DIR. (TENS OF DEGS.)	27	27	25	19	20	16	16	16	16	20	22	27	19	
	MEAN SPEED (MPH)	10.4	12.5	12.9	14.2	14.0	14.2	10.9	9.2	9.9	11.2	11.6	10.4	11.8	
	PREVAIL.DIR.(TENS OF DEGS.)	22	13	18	19	20	18	16	16	17	19	22	21	18	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	38	48	49	40	41	59	33	37	31	31	45	35	59	
	DIR. (TENS OF DEGS.)	25	33	32	35	22	35	10	21	18	29	24	27	35	
	DATE OF OCCURRENCE	27	25	23	17	18	05	14	06	27	31	16	13	JUN 05	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	47	59	60	48	59	77	39	62	37	44	55	41	77	
DIR. (TENS OF DEGS.)	23	33	32	30	21	35	10	20	17	28	25	02	35		
DATE OF OCCURRENCE	29	25	23	30	18	05	14	06	27	31	16	25	JUN 05		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.92	1.31	T	0.04	1.15	1.67	3.37	1.32	0.54	1.15	0.54	0.60	12.61	
	GREATEST 24-HOUR (IN.)	0.88	0.48	T	0.04	0.80	0.49	2.36	0.83	0.46	1.11	0.48	0.51	2.36	
	DATE OF OCCURRENCE	09-10	12	29	10	23	29-30	16-17	14	27-28	13	23-24	20-21	JUL 16-17	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	4	5	0	1	5	9	8	7	5	2	4	4	54	
PRECIPITATION 0.10	1	4	0	0	2	5	6	3	1	1	2	1	26		
PRECIPITATION 1.00	0	0	0	0	0	0	1	0	0	1	0	0	2		
SNOWFALL	SNOW,ICE PELLETS,HAIL	T	3.4	0.0	0.4	0.0	T	0.0	0.0	0.0	0.0	2.2	0.2	6.2	
	TOTAL (IN.)	T	3.4	0.0	0.4	0.0	T	0.0	0.0	0.0	0.0	2.2	0.2	3.4	
	GREATEST 24-HOUR (IN.)	29+	25		10		05					24	05	FEB 25	
	DATE OF OCCURRENCE	0	2	0	0	0	0	0	0	0	0	2	T	2	
	MAXIMUM SNOW DEPTH (IN.)		25									25	06+	NOV 25	
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	1	0	0	0	0	0	0	0	0	1	0	2		

NORMALS, MEANS, AND EXTREMES LUBBOCK (KLBB)

LATITUDE:
33° 39'N

LONGITUDE:
101° 49'W

ELEVATION (FT):
GRND: 3254 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	54.1	58.9	66.7	75.4	83.8	90.6	92.8	91.3	84.5	75.2	63.6	54.1	74.3
	MEAN DAILY MAXIMUM	100	53.8	56.9	66.6	74.7	83.0	89.9	92.2	91.3	83.4	75.1	62.6	54.7	73.7
	HIGHEST DAILY MAXIMUM	67	83	89	95	104	109	114	108	106	103	100	90	82	114
	YEAR OF OCCURRENCE		2006	2006	1989	2012	2000	1994	1983	1966	2000	2000	2006	2010	JUN 1994
	MEAN OF EXTREME MAXS.	102	74.6	78.8	84.8	91.1	97.8	102.2	100.8	99.2	95.9	89.9	80.7	74.5	89.2
	NORMAL DAILY MINIMUM	30	26.4	30.1	37.0	45.7	55.9	64.2	67.7	66.6	58.8	47.9	35.9	27.1	46.9
	MEAN DAILY MINIMUM	100	25.6	28.3	35.9	44.8	55.0	63.1	66.7	65.7	57.8	47.5	34.9	27.3	46.1
	LOWEST DAILY MINIMUM	67	-16	-8	2	22	27	44	51	51	33	18	-1	-2	-16
	YEAR OF OCCURRENCE		1963	1960	1948	2013	2013	1947	1952	2010	1983	1993	1957	1989	JAN 1963
	MEAN OF EXTREME MINS.	102	9.0	12.4	19.1	30.6	41.2	54.6	60.7	59.0	45.6	32.9	19.9	11.9	33.1
	NORMAL DRY BULB	30	40.2	44.5	51.9	60.5	69.8	77.4	80.3	79.0	71.7	61.5	49.8	40.6	60.6
	MEAN DRY BULB	100	39.7	42.6	51.2	59.8	69.0	76.5	79.5	78.5	70.6	61.3	48.7	41.0	59.9
	MEAN WET BULB	30	29.8	33.4	38.6	44.8	54.2	62.3	65.0	64.9	59.3	49.5	38.1	30.8	47.6
	MEAN DEW POINT	30	26.2	28.7	33.9	39.7	50.4	59.8	61.8	62.5	56.4	46.3	34.3	26.6	43.9
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.3	1.3	8.5	16.6	22.3	20.2	8.0	0.9	0.0	0.0	78.1
	MAXIMUM <= 32	30	1.9	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8	5.0
	MINIMUM <= 32	30	24.4	17.2	8.6	1.3	0.0	0.0	0.0	0.0	0.0	0.7	9.5	22.6	84.3
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	0.1	0.2	
H/C	NORMAL HEATING DEG. DAYS	30	767	574	415	183	40	2	0	0	23	159	460	756	3379
	NORMAL COOLING DEG. DAYS	30	0	0	7	49	190	374	473	433	223	52	3	0	1804
RH	NORMAL (PERCENT)	30	59	57	50	47	54	58	55	59	62	61	58	61	57
	HOURLY 00 LST	30	65	62	56	53	61	64	61	67	70	68	65	66	63
	HOURLY 06 LST	30	73	72	68	68	76	78	74	78	81	79	74	73	75
	HOURLY 12 LST	30	50	48	40	37	43	45	46	50	52	47	47	50	46
	HOURLY 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)	50	3.2	3.1	1.8	1.1	1.2	0.5	0.2	0.5	1.1	1.8	2.1	2.2	18.8
	THUNDERSTORMS	66	0.2	0.7	2.0	3.7	7.8	9.2	7.4	7.1	4.5	3.0	0.7	0.4	46.7
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	1	4.0	6.0	11.0		16.0	10.0							
	PARTLY CLOUDY			4.0	7.0		3.0	2.0							
CLOUDY	1	1.0		2.0		1.0	2.0								
PR	MEAN STATION PRESSURE(IN)	30	26.74	26.70	26.65	26.61	26.62	26.64	26.71	26.72	26.72	26.72	26.73	26.71	26.69
	MEAN SEA-LEVEL PRES. (IN)	30	30.09	30.03	29.93	29.86	29.83	29.84	29.91	29.92	29.95	29.98	30.04	30.08	29.96
WINDS	MEAN SPEED (MPH)	30	11.8	12.4	13.8	14.4	13.7	13.2	11.0	10.0	10.2	11.1	11.4	11.4	12.0
	PREVAIL.DIR(TENS OF DEGS)	34	24	20	19	19	19	19	19	17	19	19	20	26	19
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	53	56	49	60	56	59	47	48	47	48	47	55	60
	DIR. (TENS OF DEGS)		26	29	32	24	11	35	19	21	28	02	27	25	24
	YEAR OF OCCURRENCE		2006	2007	2013	2003	2001	2013	1999	2012	2007	2011	2005	2012	APR 2003
	MAXIMUM 3-SECOND SPEED (MPH)	18	66	64	62	68	74	77	69	62	63	64	60	66	77
	DIR. (TENS OF DEGS)		23	28	23	22	24	35	14	20	29	02	33	25	35
	YEAR OF OCCURRENCE		2008	2007	2006	2011	1996	2013	2006	2013	2007	2011	2006	2012	JUN 2013
PRECIPITATION	NORMAL (IN)	30	0.65	0.75	1.10	1.41	2.30	3.04	1.91	1.91	2.51	1.93	0.85	0.76	19.12
	MAXIMUM MONTHLY (IN)	67	4.05	2.51	5.94	5.79	7.80	8.48	7.20	8.85	8.70	10.80	6.65	2.24	10.80
	YEAR OF OCCURRENCE		1949	1961	2007	1997	1949	2000	1976	1966	2008	1983	2004	1991	OCT 1983
	MINIMUM MONTHLY (IN)	67	0.00	T	T	0.00	0.04	T	T	0.01	T	0.00	0.00	T	0.00
	YEAR OF OCCURRENCE		1967	1955	2013	2011	1998	2011	1970	2000	1954	1952	1960	2010	APR 2011
	MAXIMUM IN 24 HOURS (IN)	67	1.56	2.15	1.98	3.55	5.14	5.70	4.38	3.78	7.80	5.82	1.59	1.22	7.80
	YEAR OF OCCURRENCE		1983	1961	2007	2010	1949	1967	2010	1966	2008	1983	2001	2002	SEP 2008
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	3.7	4.5	5.0	4.8	7.3	8.2	6.2	6.9	5.8	5.7	3.8	4.4	66.3
PRECIPITATION >= 1.00	30	0.1	0.1	0.2	0.4	0.6	0.7	0.4	0.4	0.6	0.5	0.2	0.1	4.3	
SNOWFALL	NORMAL (IN)	30	2.6	1.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.3	8.2
	MAXIMUM MONTHLY (IN)	65	25.3	16.8	14.3	5.3	0.7	0.6	T	0.0	T	7.5	21.4	9.9	25.3
	YEAR OF OCCURRENCE		1983	1956	1958	1983	1991	1995	2008		2010	1976	1980	1960	JAN 1983
	MAXIMUM IN 24 HOURS (IN)	65	16.3	12.1	10.0	4.5	0.7	0.6	T	0.0	T	4.7	10.8	8.3	16.3
	YEAR OF OCCURRENCE		1983	1961	1969	1983	1991	1995	1990		2010	1976	1980	2000	JAN 1983
	MAXIMUM SNOW DEPTH (IN)	65	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	0.7	0.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	2.5	

PRECIPITATION (inches) 2013 LUBBOCK (KLBB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	.63	.33	.37	.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
2004	1.90	1.88	1.85	2.98	1.00	3.08	3.22	2.29	5.38	2.33	6.65	0.69	33.25
2005	1.33	1.32	0.73	0.27	2.24	1.84	2.41	2.01	0.28	2.61	T	T	15.04
2006	T	0.18	1.62	0.77	2.15	0.57	0.62	1.51	4.87	1.30	0.26	1.71	15.56
2007	1.12	0.36	5.94	1.23	5.35	3.39	0.94	1.99	2.20	0.28	0.20	0.94	23.94
2008	0.07	0.72	0.10	1.07	5.32	2.91	1.77	3.48	8.70	3.77	0.08	0.01	28.00
2009	0.13	0.73	0.37	1.51	0.68	2.44	1.69	0.47	2.46	0.78	0.13	1.48	12.87
2010	1.41	1.78	2.85	4.65	1.14	2.55	7.14	1.33	0.93	2.61	0.07	T	26.46
2011	0.06	0.43	0.35	0.00	0.26	T	0.05	0.34	1.25	1.34	0.26	1.52	5.86
2012	0.01	0.57	0.71	1.03	1.33	1.60	0.26	2.91	2.04	0.28	0.01	0.68	11.43
2013	0.92	1.31	T	0.04	1.15	1.67	3.37	1.32	0.54	1.15	0.54	0.60	12.61
POR= 102 YRS	0.56	0.65	0.93	1.28	2.53	2.66	2.07	1.99	2.49	1.98	0.67	0.67	18.48

WBAN : 23042

AVERAGE TEMPERATURE (°F) 2013 LUBBOCK (KLBB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2004	43.2	41.8	56.6	60.3	72.5	76.7	79.2	75.6	70.5	62.3	47.2	42.3	60.7
2005	43.5	46.0	50.5	59.4	69.0	79.0	79.4	77.1	76.0	61.9	52.2	41.4	61.3
2006	47.3	45.1	53.9	66.2	73.7	80.5	82.9	80.6	68.6	61.0	51.9	41.5	62.8
2007	36.4	43.6	55.7	55.8	66.8	74.6	77.5	79.7	74.2	65.1	50.7	41.9	60.2
2008	40.5	47.4	52.8	60.7	70.2	80.9	79.3	77.6	68.7	61.3	51.1	42.6	61.1
2009	42.1	49.4	55.8	61.2	69.2	79.6	81.1	80.9	70.4	58.2	52.7	36.0	61.4
2010	39.3	39.3	51.3	61.0	69.5	81.0	77.4	80.3	74.9	63.7	50.8	45.4	61.2
2011	39.8	41.8	55.6	65.4	70.8	85.9	86.1	86.0	71.8	62.4	50.7	38.0	62.9
2012	44.5	43.9	58.4	67.1	73.2	80.5	82.0	80.9	72.7	60.7	55.1	43.0	63.5
2013	40.9	43.6	53.4	58.9	70.1	80.5	79.2	80.5	75.1	62.1	48.5	38.7	61.0
POR= 100 YRS	39.7	42.6	51.2	59.8	69.0	76.5	79.5	78.5	70.6	61.3	48.7	41.0	59.9

HEATING DEGREE DAYS (base 65°F) 2013 LUBBOCK (KLBB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2003-04	0	0	9	72	403	660	670	670	285	172	33	1	2975
2004-05	3	0	12	104	531	697	661	525	444	190	80	0	3247
2005-06	0	0	6	161	384	726	542	553	347	72	21	0	2812
2006-07	0	0	22	181	389	720	879	593	286	280	47	1	3398
2007-08	0	0	0	105	422	713	752	506	382	175	50	0	3105
2008-09	0	0	5	144	410	687	704	433	301	181	45	0	2910
2009-10	0	0	22	251	361	893	792	713	424	164	59	0	3679
2010-11	0	0	0	69	416	599	776	644	296	71	58	0	2929
2011-12	0	0	11	142	424	832	631	607	251	52	40	0	2990
2012-13	0	0	18	195	308	674	741	594	356	236	86	0	3208
2013-	0	0	4	159	490	804							

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COOLING DEGREE DAYS (base 65°F) 2013 LUBBOCK (KLBB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2004	0	0	30	37	273	356	450	336	185	30	0	0	1697
2005	0	0	0	28	210	427	457	382	343	72	6	0	1925
2006	0	0	11	114	297	471	561	493	137	61	4	0	2149
2007	0	0	11	12	110	295	395	463	285	116	0	0	1687
2008	0	0	11	53	222	485	448	396	121	37	2	0	1775
2009	0	1	23	76	183	442	505	500	191	47	0	0	1968
2010	0	0	10	52	207	488	391	479	306	34	0	0	1967
2011	0	0	11	93	246	635	661	660	222	66	1	0	2595
2012	0	0	52	123	301	471	535	500	255	67	18	0	2322
2013	0	0	2	60	253	474	450	489	316	76	3	0	2123

SNOWFALL (inches) 2013 LUBBOCK (KLBB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	.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
2003-04	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	T	0.0	0.0	0.0	4.1
2004-05	0.0	0.0	0.0	0.0	7.9	3.7	T	1.6	3.0	0.0	0.0	T	16.2
2005-06	T	0.0	T	0.0	0.0	T	0.0	0.1	0.4	0.0	0.0	0.0	0.5
2006-07	0.0	0.0	0.0	0.0	3.1	0.6	4.6	4.9	T	1.9	0.0	T	15.1
2007-08	0.0	0.0	0.0	0.0	1.3	0.5	0.7	T	0.9	0.0	T	T	3.4
2008-09	T	0.0	0.0	0.0	0.0	T	0.3	0.0	0.3	T	0.0	T	0.6
2009-10	0.0	0.0	0.0	0.0	T	5.5	2.8	4.3	1.7	0.0	0.0	0.0	14.3
2010-11	0.0	0.0	T	T	0.0	T	1.0	3.3	T	0.0	T	0.0	4.3
2011-12	0.0	0.0	0.0	T	0.0	4.0	0.0	2.8	T	T	0.0	0.0	6.8
2012-13	0.0	0.0	0.0	0.0	0.0	0.3	T	3.4	0.0	0.4	0.0	T	4.1
2013-	0.0	0.0	0.0	0.0	2.2	0.2							
POR= 103 YRS	T	0.0	T	0.1	0.8	2.0	2.1	2.1	1.2	0.2	T	T	8.5

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REFERENCE NOTES :

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).

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).

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.

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

CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.

GENERAL CONTINUED:

WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.

RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.

AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.

SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN

PRECIPITATION, INCLUDING HAIL.

A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F.

DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.

DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.

WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.

ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.

STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS:

<http://www.ncdc.noaa.gov/homr/>

SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:

The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

2013 LUBBOCK TEXAS (KLBB)

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 History

LUBBOCK, TX

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
LUBBOCK MUNICIPAL AP	1946-11-01	1947-01-01	33° 37'	-101° 51'	3215		COOP, SYNOPTIC
LUBBOCK MUNICIPAL AP	1945-11-01	1946-11-01	33° 37'	-101° 51'			SYNOPTIC
LUBBOCK MUNICIPAL AP	1966-01-01	1968-07-25	33° 39'	-101° 49'	3254		AIRWAYS, COOP
LUBBOCK REGIONAL AP	1994-10-25	1995-09-01	33° 39'	-101° 49'	3254	.75 MI NW	AIRWAYS, COOP
LUBBOCK INTERNATIONAL AP	2006-01-12	Present	33° 39'	-101° 49'	3254		AIRWAYS, ASOS, COOP
LUBBOCK MUNICIPAL AP	1941-01-01	1942-12-31	33° 37'	-101° 51'			SYNOPTIC
LUBBOCK MUNICIPAL AP	1950-01-01	1966-01-01	33° 39'	-101° 49'	3248		AIRWAYS, COOP
LUBBOCK WEST TEXAS AIR TERMINAL	1968-07-25	1970-07-01	33° 39'	-101° 49'	3254		AIRWAYS, COOP
LUBBOCK MUNICIPAL AP	1937-04-01	1940-02-28	33° 37'	-101° 49'			SYNOPTIC
LUBBOCK REGIONAL AP	1970-07-01	1973-01-01	33° 39'	-101° 49'	3254		AIRWAYS, COOP
LUBBOCK REGIONAL AP	1981-12-31	1994-10-25	33° 39'	-101° 49'	3254		COOP
LUBBOCK MUNICIPAL AP	1947-01-01	1950-01-01	33° 39'	-101° 49'	3245		AIRWAYS, COOP
LUBBOCK REGIONAL AP	1973-01-01	1981-12-31	33° 39'	-101° 49'	3254		COOP, WXSVC
LUBBOCK INTERNATIONAL AP	1995-09-01	2006-01-12	33° 39'	-101° 49'	3254		AIRWAYS, ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1994-10-25	1995-09-01	HOURLY	2400	UNIV		
PRECIP	2006-01-12	2006-02-03	DAILY	2400	PCPN1		
TEMP	1937-01-01	1940-02-28	DAILY	2400			
PRECIP	1994-10-25	1995-09-01	DAILY	2400	UNIV		
PRECIP	1995-09-01	2001-08-06	DAILY	2400	TB		
PRECIP	2006-02-03	Present	DAILY	2400	PCPN1		
PRECIP	1937-01-01	1940-02-28	HOURLY	2400	UNIV		
TEMP	1941-01-01	1994-10-25	DAILY	2400			
PRECIP	1995-09-01	2001-08-06	HOURLY	2400	TB		
TEMP	2001-08-06	2006-01-12	DAILY	2400	HYGR		
TEMP	2006-01-12	2006-02-03	DAILY	2400			
PRECIP	2006-01-12	2006-02-03	HOURLY	2400			
PRECIP	1937-01-01	1940-02-28	DAILY	2400	UNIV		
PRECIP	1941-01-01	1994-10-25	DAILY	2400	UNIV		
PRECIP	2006-02-03	Present	HOURLY	2400	TB		
TEMP	2006-02-03	Present	DAILY	2400	HYGR		
PRECIP	1941-01-01	1994-10-25	HOURLY	2400	UNIV		
PRECIP	2001-08-06	2006-01-12	DAILY	2400	TB		
TEMP	1994-10-25	1995-09-01	DAILY	2400	HYGR		
TEMP	1995-09-01	2001-08-06	DAILY	2400			
PRECIP	2001-08-06	2006-01-12	HOURLY	2400	TB		

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

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