

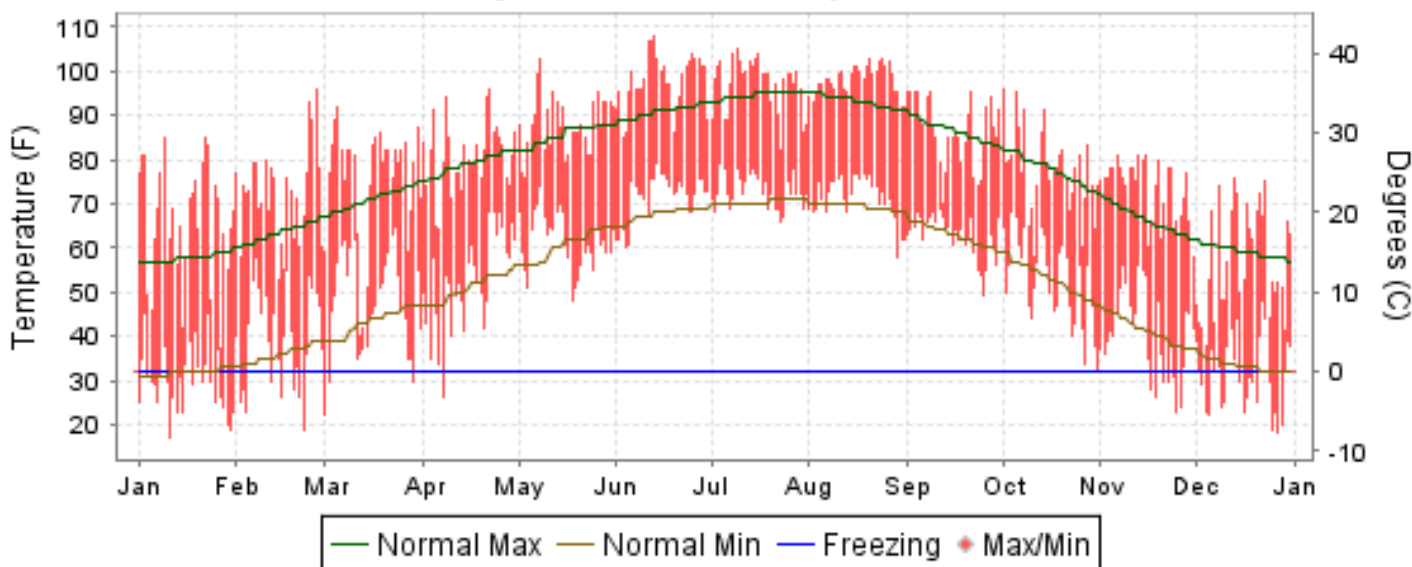


2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

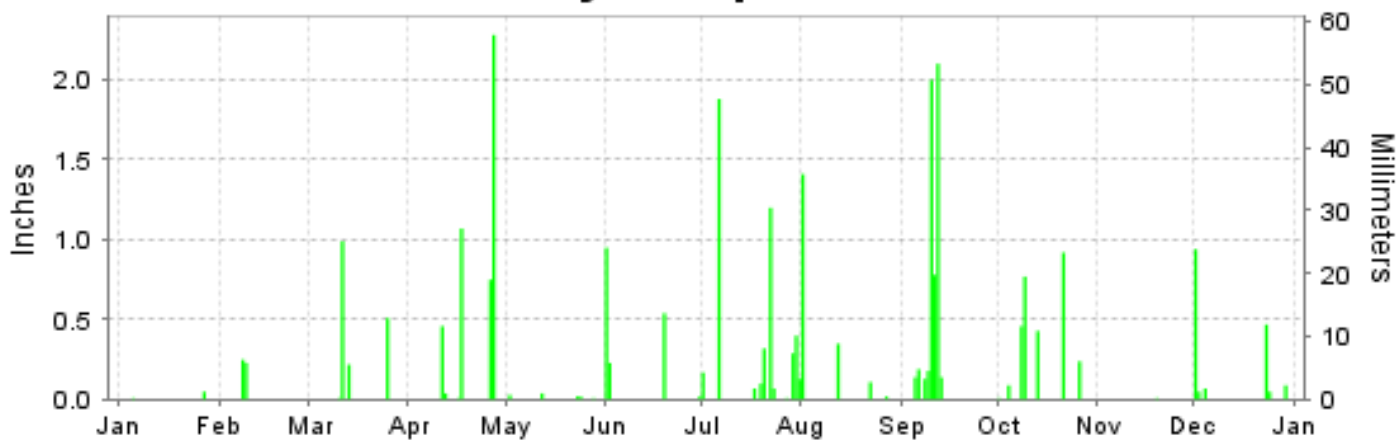
**SAN ANGELO,
TEXAS (KSJT)**

ISSN 0198-5167

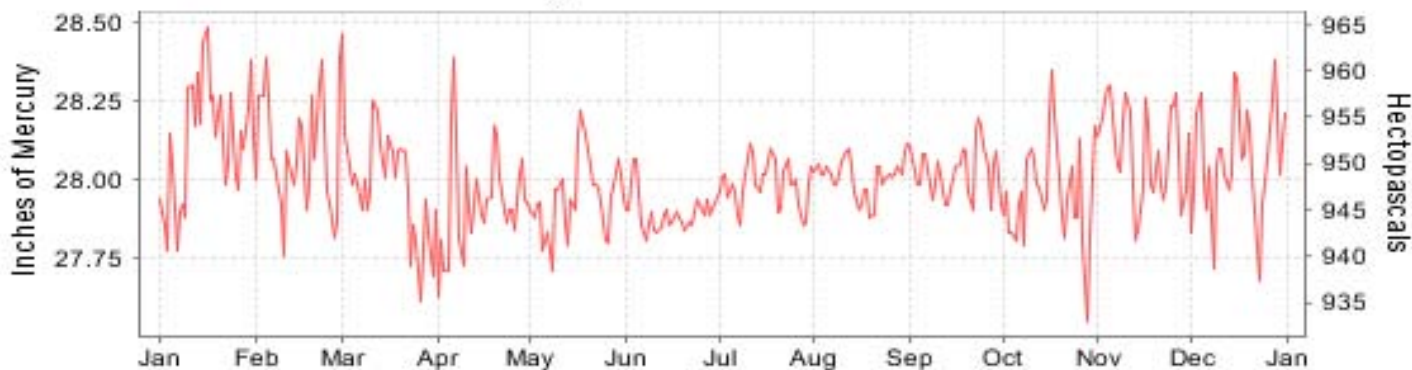
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2009

SAN ANGELO (KSJT)

LATITUDE: 31 ° 21'N LONGITUDE: -100 ° 29'W ELEVATION (FT): GRND: 1908 BARO: 1894 TIME ZONE: CENTRAL (UTC -6) WBAN: 23034

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	66.0	72.3	75.4	80.9	88.0	97.7	97.0	98.0	86.4	77.5	73.4	57.3	80.8	
	HIGHEST DAILY MAXIMUM	85	96	92	96	103	108	105	103	95	96	81	76	108	
	DATE OF OCCURRENCE	22+	26	05	22	08	13	09	24+	21+	01	15+	13	JUN 13	
	MEAN DAILY MINIMUM	29.9	39.5	47.5	52.3	61.5	71.6	72.8	71.5	62.7	52.5	40.4	31.3	52.8	
	LOWEST DAILY MINIMUM	17	19	22	26	48	60	66	58	49	32	23	18	17	
	DATE OF OCCURRENCE	11	22	01	07	18	04	23	29	25	31	25	27	JAN 11	
	AVERAGE DRY BULB	48.0	55.9	61.5	66.6	74.8	84.7	84.9	84.8	74.6	65.0	56.9	44.3	66.8	
	MEAN WET BULB	37.5	44.1	49.6	53.6	63.7	69.4	70.6	69.9	65.6	57.2	48.0	37.6	55.6	
	MEAN DEW POINT	23.0	29.3	37.6	39.7	57.2	61.8	63.7	62.4	60.7	51.9	40.0	30.8	46.5	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	2	1	4	13	26	25	31	11	4	0	0	117	
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	
MINIMUM <= 32°	21	8	3	1	0	0	0	0	0	1	7	19	60		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	520	275	181	73	0	0	0	0	0	110	246	631	2036	
	COOLING DEGREE DAYS	0	28	79	128	308	597	626	620	294	120	11	0	2811	
RH	MEAN (PERCENT)	44	42	49	46	59	52	54	52	68	68	60	66	55	
	HOUR 00 LST	49	47	53	55	67	59	58	59	78	77	70	74	62	
	HOUR 06 LST	60	62	70	62	80	73	78	75	84	81	79	80	74	
	HOUR 12 LST	34	32	42	36	49	43	46	40	55	56	43	57	44	
	HOUR 18 LST	27	24	31	30	42	34	38	34	51	55	43	53	39	
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	1	2	6	3	4	6	3	4	1	0	0	30	
CLOUDNESS	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.)	28.12	28.09	27.99	27.94	27.95	27.89	27.99	28.01	28.03	27.96	28.10	28.06	28.01	
	MEAN SEA-LEVEL PRESS. (IN.)	30.13	30.08	29.96	29.89	29.89	29.81	29.91	29.93	29.97	29.92	30.08	30.08	29.97	
WINDS	RESULTANT SPEED (MPH)	3.4		5.0	4.4	3.1	6.0	4.2	4.9	1.0	2.1	2.9	0.8		
	RES. DIR. (TENS OF DEGS.)	26		20	19	13	17	15	16	07	17	20	25		
	MEAN SPEED (MPH)	9.1		10.9	12.2	8.7	9.0	7.7	7.4	7.2	9.3	7.0	7.6		
	PREVAIL.DIR.(TENS OF DEGS.)	21	19	18	19	19	18	18	18	18	18	19	20	18	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	45	36	45	31	33	32	31	29	31	31	38	45	
	DIR. (TENS OF DEGS.)	26	29	29	32	10	04	36	17	04	19	32	29	32	
	DATE OF OCCURRENCE	06	10	27	02	13	02	30	22	22	08	15	23	APR 02	
	MAXIMUM 3-SECOND WIND:														
SPEED (MPH)	44	55	45	63	40	45	39	43	39	40	37	47	63		
DIR. (TENS OF DEGS.)	27	29	31	17	22	04	36	02	04	18	32	28	17		
DATE OF OCCURRENCE	06	10	27	24	12	02	30	11	22	08	15	23	APR 24		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.06	0.48	1.73	4.61	0.12	1.74	4.64	1.89	5.66	2.92	0.01	1.67	25.53	
	GREATEST 24-HOUR (IN.)	0.05	0.48	1.00	3.03	0.04	0.95	1.88	1.41	2.50	1.23	0.01	0.99	3.03	
	DATE OF OCCURRENCE	27	08-09	10-11	26-27	23-24+	01	06	01	11-12	08-09	19	01-02	APR 26-27	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	2	2	4	6	5	4	11	4	8	7	1	6	60	
PRECIPITATION 0.10	0	2	3	4	0	3	8	3	8	5	0	2	38		
PRECIPITATION 1.00	0	0	0	2	0	0	2	1	2	0	0	0	7		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	
	GREATEST 24-HOUR (IN.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	
	DATE OF OCCURRENCE												04	DEC 04	
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	0	1	1	
	DATE OF OCCURRENCE												04	DEC 04	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	1	1		

NORMALS, MEANS, AND EXTREMES SAN ANGELO (KSJT)

LATITUDE:
31 ° 21'N

LONGITUDE:
-100 ° 29'W

ELEVATION (FT):
GRND: 1908 BARO: 1894

TIME ZONE:
CENTRAL (UTC -6)

WBAN: 23034

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	57.9	63.5	71.1	79.0	85.6	90.8	94.4	93.1	86.6	77.8	66.5	59.3	77.1
	MEAN DAILY MAXIMUM	63	58.7	63.3	71.0	79.8	86.6	92.4	95.5	94.7	87.5	78.9	67.6	60.6	78.1
	HIGHEST DAILY MAXIMUM	62	90	97	97	103	109	110	111	109	107	100	93	91	111
	YEAR OF OCCURRENCE		1969	1996	1974	1972	2000	1994	1960	1986	2005	1951	1980	1954	JUL 1960
	MEAN OF EXTREME MAXS.	63	78.9	83.1	87.7	93.9	99.4	101.4	102.4	102.0	97.8	92.0	83.8	78.7	91.8
	NORMAL DAILY MINIMUM	30	31.8	36.0	43.3	51.0	60.6	67.6	70.4	69.4	63.0	53.0	41.4	33.5	51.8
	MEAN DAILY MINIMUM	63	32.7	36.6	43.8	52.5	61.5	68.8	71.4	70.6	63.9	53.9	42.0	34.3	52.7
	LOWEST DAILY MINIMUM	62	5	-1	8	25	35	48	56	54	37	26	13	-4	-4
	YEAR OF OCCURRENCE		1982	1985	1980	1973	1967	1964	1990	1992	1989	1997	1979	1989	DEC 1989
	MEAN OF EXTREME MINS.	63	16.4	19.3	25.0	34.2	46.1	58.3	64.1	62.6	49.7	37.1	24.7	18.2	38.0
	NORMAL DRY BULB	30	44.9	49.7	57.2	65.0	73.1	79.2	82.4	81.3	74.8	65.4	54.0	46.4	64.5
	MEAN DRY BULB	63	45.7	50.0	57.4	66.2	74.1	80.6	83.4	82.6	75.7	66.4	54.8	47.4	65.4
	MEAN WET BULB	26	37.6	41.3	47.2	53.6	62.5	67.7	68.6	68.6	64.4	56.6	46.6	38.9	54.5
	MEAN DEW POINT	26	32.7	35.8	41.3	47.3	57.8	64.1	63.8	64.3	60.5	52.6	42.2	33.9	49.7
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.1	0.8	4.7	11.4	20.0	26.8	25.5	13.2	2.7	0.1	0.0	105.3
	MAXIMUM <= 32	30	1.3	0.6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	2.7
MINIMUM <= 32	30	16.4	9.7	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.3	5.8	14.2	51.2	
MINIMUM <= 0	30	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	
H/C	NORMAL HEATING DEG. DAYS	30	617	427	258	93	13	0	0	0	12	84	330	562	2396
	NORMAL COOLING DEG. DAYS	30	0	4	30	107	277	442	554	519	321	112	16	1	2383
RH	NORMAL (PERCENT)	30	63	61	56	54	60	62	55	58	63	65	66	65	61
	HOURLY 00 LST	30	70	68	63	63	69	69	62	65	72	74	75	72	69
	HOURLY 06 LST	30	78	77	74	75	82	83	79	80	84	83	81	79	80
	HOURLY 12 LST	30	53	50	44	43	49	51	44	47	52	52	52	52	49
	HOURLY 18 LST	30	48	43	37	35	41	43	37	41	47	50	53	51	44
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	46	1.4	1.1	0.6	0.3	0.2	0.2	0.0	0.1	0.2	0.8	1.3	1.3	7.5
	THUNDERSTORMS	62	0.5	1.3	2.6	4.2	6.8	5.5	4.2	4.8	3.5	3.0	1.1	0.5	38.0
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)	48	4.4	4.2	4.1	4.1	4.2	3.4	3.4	3.2	3.6	3.3	3.6	4.1	3.8
	MIDNIGHT-MIDNIGHT (OKTAS)	32	4.1	4.0	3.7	3.6	3.9	3.3	2.9	3.0	3.4	3.0	3.4	3.8	3.5
	MEAN NO. DAYS WITH: CLEAR	48	11.8	10.7	11.9	11.3	10.7	13.6	14.6	15.2	13.4	15.4	13.5	12.2	154.3
	PARTLY CLOUDY	48	6.0	6.3	7.7	8.0	10.1	10.4	9.8	9.9	8.4	7.2	6.3	6.7	96.8
	CLOUDY	48	13.1	11.2	11.4	10.7	10.3	6.0	6.6	5.9	8.2	8.4	10.1	12.1	114.0
PR	MEAN STATION PRESSURE(IN)	26	28.12	28.07	28.00	27.95	27.93	27.95	28.01	28.01	28.02	28.04	28.08	28.11	28.02
	MEAN SEA-LEVEL PRES. (IN)	26	30.13	30.07	29.98	29.90	29.86	29.88	29.93	29.94	29.96	30.00	30.07	30.12	29.99
WINDS	MEAN SPEED (MPH)	26	9.8	10.3	11.1	11.4	10.6	10.0	9.2	8.2	8.1	8.8	9.5	9.5	9.7
	PREVAIL.DIR.(TENS OF DEGS)	30	21	19	19	19	19	19	19	19	19	19	19	20	19
	MAXIMUM 2-MINUTE: SPEED (MPH)	13	45	48	46	47	44	55	40	52	47	43	40	43	55
	DIR. (TENS OF DEGS)		26	20	17	30	27	34	20	21	02	35	26	28	34
	YEAR OF OCCURRENCE		2001	1997	2001	2007	1998	2003	2002	2003	2004	2001	2004	2004	JUN 2003
	MAXIMUM 3-SECOND SPEED (MPH)	13	53	63	58	63	61	63	58	69	64	48	51	51	69
	DIR. (TENS OF DEGS)		25	23	17	17	36	34	20	21	02	34	27	27	21
	YEAR OF OCCURRENCE		2001	1997	2001	2009	2008	2007	2002	2003	2004	2001	2004	2004	AUG 2003
PRECIPITATION	NORMAL (IN)	30	0.82	1.18	0.99	1.60	3.09	2.52	1.10	2.05	2.95	2.57	1.10	0.94	20.91
	MAXIMUM MONTHLY (IN)	62	3.65	4.54	5.00	5.10	11.24	6.01	7.21	8.13	11.00	8.68	5.18	3.98	11.24
	YEAR OF OCCURRENCE		1961	1997	1953	1977	1987	1982	1959	1971	1980	1981	2004	1991	MAY 1987
	MINIMUM MONTHLY (IN)	62	0.00	0.01	T	.03	0.12	0.05	T	0.00	T	0.00	0.00	T	0.00
	YEAR OF OCCURRENCE		1967	1974	1972	2005	2009	1990	1970	2000	1983	1952	1950	1973	AUG 2000
	MAXIMUM IN 24 HOURS (IN)	62	2.49	3.16	4.65	3.32	3.12	3.88	2.95	5.60	6.25	5.11	2.57	2.71	6.25
	YEAR OF OCCURRENCE		1961	1987	1953	1971	1987	1999	1959	2007	1980	1959	2001	1984	SEP 1980
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	5.1	4.6	4.6	4.6	7.1	6.2	4.3	5.2	5.4	5.6	4.2	4.7	61.6
	PRECIPITATION >= 1.00	30	0.1	0.3	0.1	0.4	1.0	0.7	0.2	0.5	1.1	0.8	0.3	0.2	5.7
SNOWFALL	NORMAL (IN)	30	2.0	0.4	0.1	0.*	0.0	0.0	0.0	0.0	0.0	0.*	0.4	0.2	3.1
	MAXIMUM MONTHLY (IN)	56	9.0	5.8	3.1	0.9	T	T	T	T	0.0	T	8.8	3.7	9.0
	YEAR OF OCCURRENCE		1978	1973	1962	2007	2008	1992	1992	1992	1992	1994	1968	1986	JAN 1978
	MAXIMUM IN 24 HOURS (IN)	56	7.4	4.1	3.1	T	T	T	T	0.0	T	T	5.8	3.3	7.4
	YEAR OF OCCURRENCE'		1978	1966	1962	1990	1995	1992	1992	1992	1992	1994	1968	1986	JAN 1978
	MAXIMUM SNOW DEPTH (IN)	55	6	4	2	T	0	0	0	0	0	0	4	3	6
	YEAR OF OCCURRENCE		1985	1966	1989	2007							1957	1986	JAN 1985
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	1.2

PRECIPITATION (inches) 2009 SAN ANGELO (KSJT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	0.84	0.79	0.71	0.52	4.72	3.14	0.33	3.30	11.00	0.01	2.53	2.20	30.09
1981	1.17	0.68	2.81	3.51	4.70	1.97	2.68	1.23	2.72	8.68	T	0.02	30.17
1982	1.06	1.53	0.40	0.83	4.17	6.01	0.35	0.46	0.09	1.26	1.11	0.91	18.18
1983	2.06	0.42	1.20	0.81	0.52	3.72	1.18	0.03	T	3.47	1.78	0.07	15.26
1984	2.38	0.54	0.49	0.23	0.54	2.82	0.60	0.26	2.99	3.74	1.09	3.48	19.16
1985	0.67	0.38	1.69	0.42	4.78	3.55	1.13	0.24	2.84	5.64	0.48	0.01	21.83
1986	0.30	0.65	0.52	0.07	7.28	3.30	0.74	2.50	7.53	5.72	1.83	2.48	32.92
1987	0.65	4.45	1.77	1.33	11.24	3.28	0.22	1.91	3.86	0.34	0.80	2.05	31.90
1988	0.01	0.42	0.69	1.36	3.31	2.14	1.22	0.92	3.20	T	0.00	0.79	14.06
1989	0.68	3.01	1.95	1.04	1.06	2.83	0.35	2.78	2.82	0.41	0.48	0.23	17.64
1990	1.60	1.65	0.85	4.14	4.02	0.05	4.09	1.05	6.23	2.40	2.51	0.21	28.80
1991	2.08	0.26	0.61	0.48	1.15	4.22	1.80	1.36	4.77	3.34	0.24	3.98	24.29
1992	1.90	3.79	1.05	1.00	1.49	4.74	1.98	1.78	0.27	1.33	0.95	0.75	21.03
1993	0.94	0.81	0.28	1.46	3.87	0.94	0.82	2.64	1.99	1.07	0.05	0.76	15.63
1994	1.69	0.34	0.04	0.97	3.29	1.04	0.25	1.30	3.04	4.27	1.96	1.21	19.40
1995	0.31	2.81	1.01	2.67	4.39	1.37	0.17	2.41	2.27	1.86	1.68	0.20	21.15
1996	0.06	0.23	0.28	2.38	2.08	1.81	.26	7.66	1.92	2.42	3.35	.05	22.50
1997	0.37	4.54	2.69	2.50	2.69	2.57	0.74	2.76	1.56	0.82	0.76	1.38	23.38
1998	0.70	0.53	1.85	T	1.75	0.88	0.46	2.77	0.10	2.39	1.06	0.49	12.98
1999	0.61	0.01	2.32	1.85	1.55	4.70	0.66	0.03	0.76	0.94	T	0.09	13.52
2000	0.08	0.23	0.77	0.57	2.21	3.44	0.02	0.00	0.58	3.61	3.08	0.60	15.19
2001	1.29	2.17	1.26	0.82	2.51	0.26	0.57	3.67	0.89	1.48	3.46	0.14	18.52
2002	0.32	1.10	1.31	0.33	0.46	0.88	2.02	0.41	1.64	4.06	0.52	1.37	14.42
2003	0.33	1.57	1.25	0.06	1.07	4.78	0.90	2.52	3.16	3.38	0.74	T	19.76
2004	1.37	1.72	1.70	1.91	0.86	3.66	2.18	4.32	2.05	5.16	5.18	0.38	30.49
2005	0.54	2.03	2.81	0.03	4.43	0.98	1.15	4.65	0.02	3.72	0.00	0.02	20.38
2006	0.16	0.64	1.92	1.34	1.90	0.30	0.87	4.87	2.60	2.21	0.01	0.83	17.65
2007	1.86	0.54	3.86	2.66	4.74	5.54	1.84	6.55	2.55	0.83	0.89	0.18	32.04
2008	0.39	0.30	4.64	0.62	1.01	2.19	0.19	3.59	3.99	1.81	0.23	0.04	19.00
2009	0.06	0.48	1.73	4.61	0.12	1.74	4.64	1.89	5.66	2.92	0.01	1.67	25.53
POR= 63 YRS	0.79	1.05	1.11	1.62	2.70	2.22	1.20	2.01	2.71	2.32	1.03	0.74	19.50

WBAN : 23034

AVERAGE TEMPERATURE (°F) 2009 SAN ANGELO (KSJT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	46.1	49.2	55.4	63.7	71.8	82.6	86.9	84.4	76.9	64.5	53.0	49.9	65.4
1981	45.8	50.2	54.2	66.4	70.7	77.8	82.1	80.0	74.3	64.6	55.6	48.7	64.2
1982	46.0	45.9	59.1	63.5	69.6	77.9	83.2	84.6	77.4	66.0	54.3	45.8	64.4
1983	45.1	48.8	56.6	62.2	72.5	76.6	82.2	82.1	77.4	70.2	58.4	36.3	64.0
1984	40.4	50.3	57.4	65.1	76.0	82.3	81.5	82.8	72.5	64.5	53.0	50.2	64.7
1985	38.8	46.2	59.3	68.1	75.1	77.5	80.5	84.5	75.7	66.9	57.9	43.6	64.5
1986	48.4	52.9	60.9	70.8	73.7	78.0	83.3	81.4	77.9	63.8	53.0	45.3	65.8
1987	44.9	49.9	51.3	61.5	71.1	76.0	80.2	82.4	72.9	66.5	53.5	46.2	63.0
1988	42.6	47.9	56.8	64.7	70.7	79.2	80.7	81.9	75.4	66.1	57.9	48.0	64.3
1989	50.2	44.7	58.4	66.6	78.2	77.9	83.2	81.9	72.2	67.3	56.5	39.5	64.7
1990	50.6	53.4	57.7	64.7	73.2	85.1	79.1	80.0	75.0	63.6	57.1	45.1	65.4
1991	43.7	51.9	58.9	66.7	76.6	78.5	81.5	80.3	72.0	65.9	50.0	49.3	64.6
1992	45.7	52.9	58.4	64.8	70.5	79.2	83.1	79.3	77.6	68.3	53.0	49.6	65.2
1993	44.9	49.2	56.9	66.3	72.4	81.2	85.8	84.4	74.1	64.1	51.9	50.1	65.1
1994	46.9	51.0	60.5	66.5	73.3	84.2	85.8	84.0	74.5	66.7	56.6	49.9	66.7
1995	48.7	52.3	55.2	65.7	73.9	77.6	84.2	82.3	75.9	66.1	55.2	48.3	65.5
1996	45.5	52.7	53.6	64.7	80.7	82.3	85.4	81.4	73.0	65.1	54.3	48.9	65.6
1997	43.9	46.7	58.2	59.2	69.6	77.2	83.8	82.7	78.6	66.5	51.4	43.9	63.5
1998	49.5	50.0	55.1	64.7	80.0	84.3	87.4	80.9	78.8	67.9	57.5	46.6	66.9
1999	50.5	55.7	57.3	66.9	74.8	79.6	82.7	85.2	77.4	66.2	59.1	49.2	67.1
2000	50.8	57.6	63.0	70.0	81.1	80.1	87.2	85.8	78.4	66.5	49.1	42.6	67.7
2001	43.3	50.5	52.3	67.2	75.6	83.6	87.4	83.1	74.4	65.8	58.3	47.6	65.8
2002	48.5	46.7	55.9	71.1	76.4	81.6	81.0	84.6	75.9	63.3	51.5	46.7	65.3
2003	45.9	47.6	57.6	68.1	77.1	78.5	82.1	83.3	74.0	66.2	56.6	49.0	65.5
2004	49.2	47.2	61.4	63.9	74.5	80.2	81.4	79.5	74.6	67.8	53.8	46.6	65.0
2005	50.2	50.0	55.2	64.2	72.2	80.2	83.0	80.1	79.3	65.0	57.1	46.3	65.2
2006	52.0	49.8	60.9	70.8	77.4	82.2	84.3	85.1	74.0	66.6	57.7	48.0	67.4
2007	40.5	49.6	61.3	62.7	70.8	77.9	78.1	81.2	76.8	68.5	57.7	48.2	64.4
2008	44.8	54.3	59.3	66.4	76.1	84.8	83.1	81.3	72.3	65.4	55.4	48.5	66.0
2009	48.0	55.9	61.5	66.6	74.8	84.7	84.9	84.8	74.6	65.0	56.9	44.3	66.8
POR= 63 YRS	45.7	50.0	57.4	66.2	74.1	80.6	83.4	82.6	75.7	66.4	54.8	47.4	65.4

HEATING DEGREE DAYS (base 65°F) 2009 SAN ANGELO (KSJT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0	0	5	101	374	464	588	411	330	62	17	0	2352
1981-82	0	0	8	133	281	496	582	532	220	124	20	0	2396
1982-83	0	0	0	105	338	586	611	448	268	163	13	3	2535
1983-84	0	0	7	20	245	883	754	422	258	74	5	0	2668
1984-85	0	0	59	90	365	455	804	522	223	52	1	0	2571
1985-86	0	0	22	50	232	655	506	354	158	15	7	0	1999
1986-87	0	0	0	96	354	604	615	418	417	167	0	0	2671
1987-88	0	0	0	49	354	577	689	491	280	96	9	0	2545
1988-89	0	0	2	35	245	520	449	567	264	101	1	0	2184
1989-90	0	0	37	84	284	784	444	324	259	95	52	0	2363
1990-91	0	0	3	124	257	610	651	364	214	38	8	0	2269
1991-92	0	0	33	90	443	482	592	344	199	88	20	0	2291
1992-93	0	0	0	27	370	473	619	436	273	89	4	0	2291
1993-94	0	0	7	159	401	457	554	392	207	78	17	0	2272
1994-95	0	0	4	85	267	463	499	349	335	95	2	0	2099
1995-96	0	0	21	57	294	515	599	377	363	112	0	0	2338
1996-97	0	0	29	74	326	491	653	506	212	200	32	0	2523
1997-98	0	0	0	98	403	646	474	416	338	85	0	0	2460
1998-99	0	0	0	57	228	566	444	262	240	83	3	0	1883
1999-00	0	0	5	83	185	488	436	224	130	64	2	0	1617
2000-01	0	0	18	94	471	686	667	399	388	52	2	0	2777
2001-02	0	0	11	51	218	534	505	508	312	45	2	0	2186
2002-03	0	0	0	145	403	562	586	481	242	50	10	0	2479
2003-04	0	0	0	49	290	487	489	511	148	110	18	0	2102
2004-05	0	0	0	17	331	564	454	416	297	94	27	0	2200
2005-06	0	0	0	113	253	573	399	423	183	15	2	0	1961
2006-07	0	0	2	79	236	528	753	431	155	151	6	0	2341
2007-08	0	0	0	69	251	521	623	316	223	85	6	0	2094
2008-09	0	0	3	87	306	507	520	275	181	73	0	0	1952
2009-	0	0	0	110	246	631							

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COOLING DEGREE DAYS (base 65°F) 2009 SAN ANGELO (KSJT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	0	9	73	229	535	685	610	368	90	19	2	2620
1981	0	1	2	112	202	390	536	474	290	129	6	0	2142
1982	0	4	43	88	170	392	572	616	378	142	24	0	2429
1983	0	0	13	88	253	359	539	535	390	191	55	0	2423
1984	0	2	30	86	352	528	517	558	291	82	10	4	2460
1985	0	1	53	153	318	381	486	610	352	113	26	0	2493
1986	0	19	38	196	284	397	572	515	396	69	4	0	2490
1987	0	0	1	65	195	338	475	548	246	100	17	0	1985
1988	0	0	33	91	193	430	492	528	322	78	40	1	2208
1989	0	3	65	158	417	396	571	531	261	165	33	0	2600
1990	4	5	40	94	312	611	443	469	311	88	26	0	2403
1991	0	0	30	98	371	413	517	481	248	123	0	2	2283
1992	0	0	3	86	195	432	567	450	386	134	16	3	2272
1993	0	0	28	131	239	494	653	608	283	138	14	0	2588
1994	0	5	72	131	281	581	651	599	294	144	24	1	2783
1995	0	0	38	123	283	381	604	543	353	98	7	3	2433
1996	0	27	16	110	495	528	641	515	275	82	14	0	2703
1997	7	0	9	32	184	373	593	555	412	151	0	0	2316
1998	0	0	37	83	471	583	701	500	422	156	10	0	2963
1999	0	8	8	149	313	445	554	635	382	126	14	1	2635
2000	4	14	75	221	509	461	692	651	429	147	0	0	3203
2001	0	0	3	125	339	567	699	569	302	82	24	2	2712
2002	1	3	38	236	362	506	500	616	332	101	5	1	2701
2003	0	1	20	150	396	412	535	573	279	92	45	0	2503
2004	4	1	47	85	318	465	515	458	296	110	0	0	2299
2005	3	2	2	77	259	464	564	474	432	120	23	1	2421
2006	3	3	63	197	392	524	604	631	280	136	22	5	2860
2007	0	6	45	88	194	392	417	508	363	185	37	5	2240
2008	2	12	51	136	359	600	567	510	230	109	25	4	2605
2009	0	28	79	128	308	597	626	620	294	120	11	0	2811

SNOWFALL (inches) 2009 SAN ANGELO (KSJT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	0.0	2.3	0.0	1.8	T	0.0	0.0	0.0	0.0	4.1
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	6.8	T	0.0	0.0	0.0	0.0	6.8
1982-83	0.0	0.0	0.0	0.0	0.0	T	2.9	0.0	0.0	0.0	0.0	0.0	2.9
1983-84	0.0	0.0	0.0	0.0	0.0	0.3	T	0.9	T	0.0	0.0	0.0	1.2
1984-85	0.0	0.0	0.0	0.0	T	T	8.4	0.4	0.0	0.0	0.0	0.0	8.8
1985-86	0.0	0.0	0.0	0.0	0.0	T	3.3	T	0.0	0.0	0.0	0.0	3.3
1986-87	0.0	0.0	0.0	0.0	0.0	3.7	0.7	T	T	0.0	0.0	0.0	4.4
1987-88	0.0	0.0	0.0	0.0	0.0	T	T	2.7	0.0	0.0	0.0	0.0	2.7
1988-89	0.0	0.0	0.0	0.0	0.0	T	1.2	T	2.6	0.0	T	T	3.8
1989-90	0.0	0.0	0.0	0.0	T	T	T	0.0	T	T	T	0.0	T
1990-91	0.0	0.0	0.0	0.0	0.0	1.1	3.3	0.0	T	0.0	T	0.0	4.4
1991-92	0.0	0.0	0.0	T	0.0	0.0	T	T	T	0.0	0.0	T	T
1992-93	T	0.0	T	T	T	T	0.1	0.0	T	0.0	T	0.0	0.1
1993-94	0.0	0.0	0.0	T	0.0	T	2.4	0.0	T	0.0	0.0	0.0	2.4
1994-95	0.0	0.0	0.0	T	0.0	0.0	T	0.0	0.0	0.0	T	0.0	T
1995-96	0.0	0.0	0.0	0.0	T	0.0	T						
1996-97					3.0	0.1							
1997-98													
1998-99													
1999-00													
2000-01					3.0								
2001-02													
2002-03							0.0						
2003-04							0.0	0.3	0.0	0.0	0.0	0.0	
2004-05	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
2005-06	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
2006-07	0.0	0.0	0.0	0.0	T	0.0	1.9	T	0.0	0.9	0.0	0.0	2.8
2007-08	0.0	0.0	0.0	0.0	T	T	0.0	0.0	T	T	T	0.0	T
2008-09	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
2009-	0.0	0.0	0.0	0.0	0.0	1.7							
POR= 59 YRS	T	0.0	T	T	0.5	0.2	1.4	0.5	0.2	T	T	T	2.8

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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. 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.</p>	<p>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 HISTORY GO TO "MULTI-NETWORK METADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</p> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2009 SAN ANGELO TEXAS (KSJT)

San Angelo is located near the center of Texas at the northern edge of the Edwards Plateau. Ground elevation ranges from about 1,700 to 2,700 feet above sea level. Topography varies from level and slightly rolling to broken. The climate is generally classified as semi-arid or steppe, but has some humid temperate characteristics. Warm, dry weather predominates, although changes may be rapid and frequent with the passage of cold fronts or northers.

High temperatures of summer are associated with fair skies, south to southwest winds and dry air. Low humidities, however, are conducive to personal comfort because of rapid evaporation. Rapid temperature drops occur after sunset, and most nights are pleasant with lows in the upper 60s and lower 70s. Rapid temperature drops occur in the winter as cold polar air invades the region. Temperature drops of 20 to 30 degrees in a short time are not uncommon. Cold polar outbreaks have produced record low temperatures of zero or below throughout the area.

The rainfall is typical of the Great Plains. Much of the rainfall occurs from thunderstorm activity, and wide variations in annual precipitation occur from year to year. Heavy rainfall occurs in April, May, June, September and October. Also, in the late summer months, heavy precipitation may occur when tropical disturbances move inland over south Texas and pass near the San Angelo area.

The prevailing wind direction is from the south, and winds are frequently high and persistent for several days. Dusty conditions are infrequent and occur in early spring when west or northwest winds predominate. The frequency and intensity of the dust storms are dependent on soil conditions in the Texas Panhandle and in New Mexico.

Agriculture in the region consists of cattle, sheep, and goat raising. Cotton, from dry-land and irrigated fields, maize, corn, melons, truck farming, and pecan production are also important crops.

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