

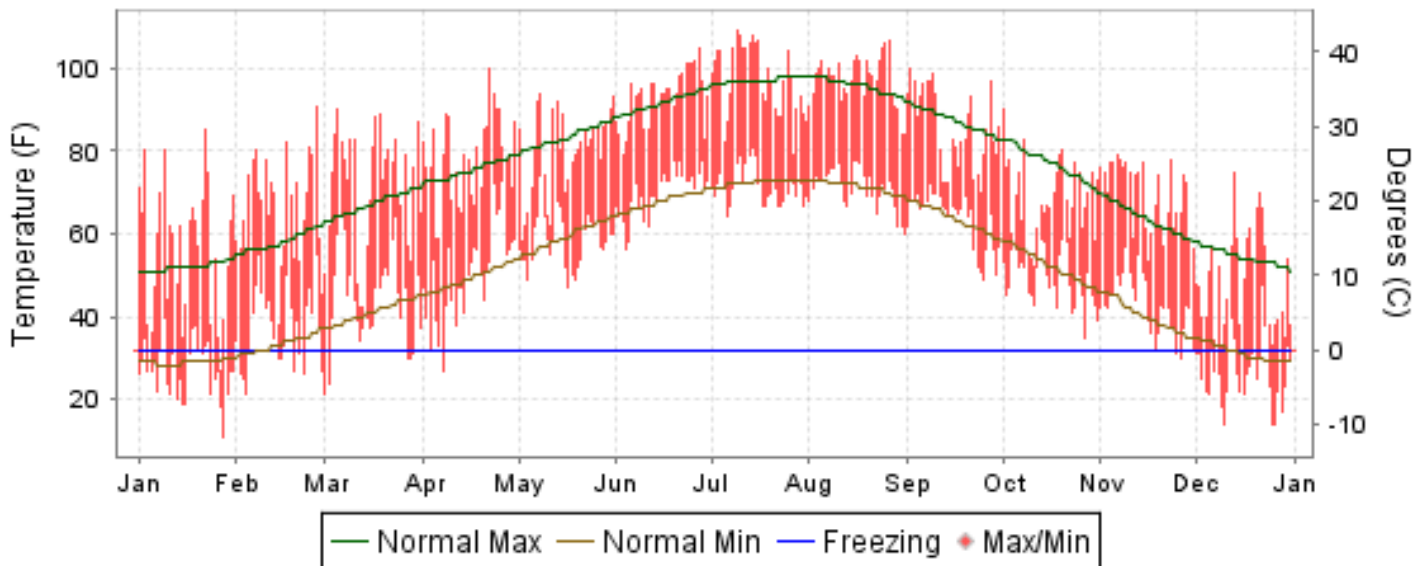


# 2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

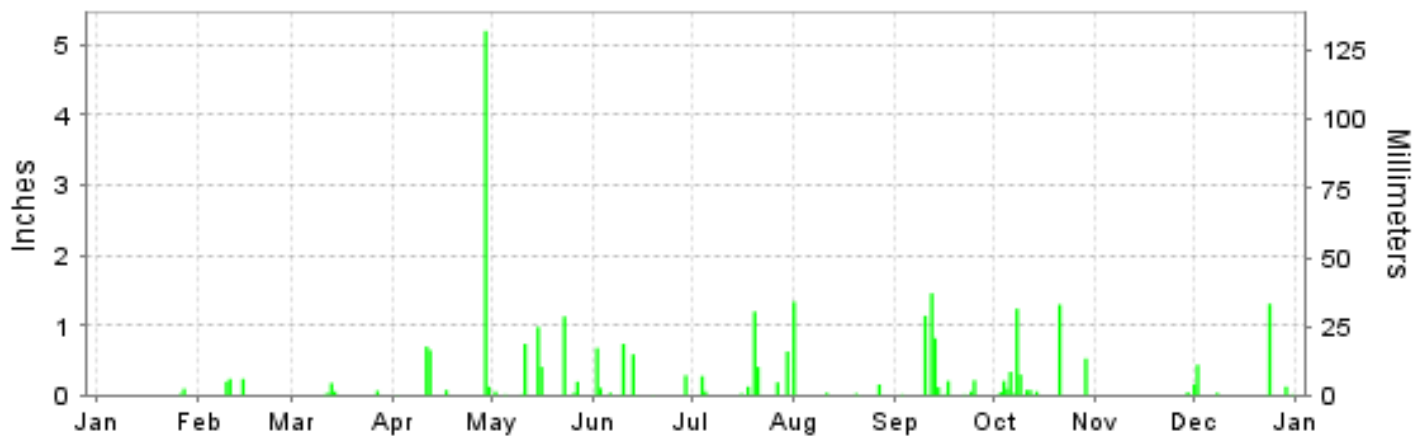
ISSN 0198-5248

## WICHITA FALLS, TEXAS (KSPS)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2009

## WICHITA FALLS (KSPS)

LATITUDE: 33° 58'N      LONGITUDE: -98° 29'W      ELEVATION (FT): GRND: 1009    BARO: 1013      TIME ZONE: CENTRAL (UTC -6)      WBAN: 13966

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	56.6	66.1	71.6	78.4	79.8	93.1	97.3	97.3	85.4	68.8	69.1	48.7	76.0	
	HIGHEST DAILY MAXIMUM	85	91	90	100	94	105	109	107	100	90	79	75	109	
	DATE OF OCCURRENCE	22	26	05	22	08	27	09	26	02	01	06	13	JUL 09	
	MEAN DAILY MINIMUM	27.1	37.3	44.0	50.2	58.4	70.0	71.5	71.2	63.4	48.9	42.7	26.3	50.9	
	LOWEST DAILY MINIMUM	11	21	21	27	47	56	64	60	49	35	30	14	11	
	DATE OF OCCURRENCE	28	04	01	07	17	04	06	31	25	27	26	26+	JAN 28	
	AVERAGE DRY BULB	41.9	51.7	57.8	64.3	69.1	81.6	84.4	84.3	74.4	58.9	55.9	37.5	63.5	
	MEAN WET BULB	33.1	42.0	47.7	52.8	61.8		70.5	70.2		53.5	48.6	33.1		
	MEAN DEW POINT	19.5	29.4	37.0	41.2	56.8		63.2	62.9		49.0	42.3	26.8		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	1	1	4	6	22	24	29	11	1	0	0	99	
MAXIMUM <= 32°	1	0	0	0	0	0	0	0	0	0	0	0	1		
MINIMUM <= 32°	25	10	5	2	0	0	0	0	0	0	4	26	72		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	710	375	263	116	46	0	0	0	7	197	270	844	2828	
	COOLING DEGREE DAYS	0	9	49	103	180	504	612	606	299	17	2	0	2381	
RH	MEAN (PERCENT)	47	47	51	50	68	61	54	53	65	74	68	68	59	
	HOUR 00 LST	52	53	58	58	76	69	64	62	73	81	77	75	67	
	HOUR 06 LST	60	64	68	68	84	79	76	77	82	85	83	80	76	
	HOUR 12 LST	37	36	41	41	57	49	43	39	53	62	52	57	47	
	HOUR 18 LST	35	32	35	35	53	47	36	35	52	68	58	61	46	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	1	1	3	1	1	0	0	3	5	2	17	
	THUNDERSTORMS	0	2	2	9	10	10	7	4	2	3	0	0	49	
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.)	29.00	28.97	28.86	28.80	28.85		28.85	28.88	28.90	28.85	28.97	28.97		
	MEAN SEA-LEVEL PRESS. (IN.)	30.12	30.07	29.96	29.88	29.92	29.81	29.90	29.93	29.96	29.94	30.07	30.09	29.97	
WINDS	RESULTANT SPEED (MPH)	3.2	2.7	5.2	4.1	3.5	6.6	4.4	5.9	1.2	1.2	2.0	1.8	2.4	
	RES. DIR. (TENS OF DEGS.)	29	19	17	18	10	17	17	15	08	11	22	30	17	
	MEAN SPEED (MPH)	11.1	13.1	14.0	14.6	9.7	10.7	9.4	10.8	9.9	11.5	8.9	9.9	11.1	
	PREVAIL.DIR.(TENS OF DEGS.)	36	17	17	17	16	18	21	15	36	01	18	01	17	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	39	47	39	44	54	38	51	35	32	36	30	40	54	
	DIR. (TENS OF DEGS.)	01	01	34	27	01	22	35	08	01	36	33	33	01	
	DATE OF OCCURRENCE	23	21	30	09	15	13	16	05	21	25	16	24	MAY 15	
	MAXIMUM 3-SECOND WIND:														
SPEED (MPH)	46	54	53	54	62	55	62	43	45	47	37	49	62		
DIR. (TENS OF DEGS.)	01	02	17	27	01	24	36	09	01	33	34	33	36		
DATE OF OCCURRENCE	23	21	23	09	15	13	16	05	28	08	16	24	JUL 16		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.13	0.68	0.37	6.77	3.60	2.49	2.93	1.58	4.09	4.32	0.05	2.11	29.12	
	GREATEST 24-HOUR (IN.)	0.10	0.24	0.24	5.33	1.39	0.75	1.59	1.34	2.13	1.54	0.05	1.32	5.33	
	DATE OF OCCURRENCE	27	14+	13-14	29-30	15-16	09-10	20-21	01	12-13	08-09	29	23-24	APR 29-30	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	2	3	5	6	9	10	8	5	10	12	1	7	78	
PRECIPITATION 0.10	1	3	1	4	5	5	6	2	6	7	0	4	44		
PRECIPITATION 1.00	0	0	0	1	1	0	1	1	2	2	0	1	9		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	T	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	9.1	
	GREATEST 24-HOUR (IN.)	T	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	7.8	
	DATE OF OCCURRENCE	27+	10	28+	29								24	DEC 24	
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	0	8	8	
	DATE OF OCCURRENCE												25	DEC 25	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	2	2		

# NORMALS, MEANS, AND EXTREMES WICHITA FALLS (KSPS)

**LATITUDE:** 33° 58'N      **LONGITUDE:** -98° 29'W      **ELEVATION (FT):** GRND: 1009 BARO: 1013      **TIME ZONE:** CENTRAL (UTC -6)      **WBAN: 13966**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	52.1	58.1	67.2	75.5	83.5	91.7	97.2	95.8	87.5	77.1	63.7	54.5	75.3
	MEAN DAILY MAXIMUM	85	53.4	57.2	67.2	75.9	83.9	91.6	97.5	97.2	87.8	78.2	63.9	55.6	75.8
	HIGHEST DAILY MAXIMUM	62	87	93	100	102	110	117	114	113	111	102	89	88	117
	YEAR OF OCCURRENCE		1969	1996	1971	2006	2000	1980	1980	1964	2000	2000	1988	1954	JUN 1980
	MEAN OF EXTREME MAXS.	105	76.0	81.1	87.8	92.0	97.4	101.5	105.4	105.3	100.4	93.0	82.9	77.0	91.7
	NORMAL DAILY MINIMUM	30	28.9	33.4	41.1	49.3	59.3	67.8	72.4	71.3	63.7	52.4	40.1	31.3	50.9
	MEAN DAILY MINIMUM	85	29.9	33.3	41.4	50.4	60.0	68.1	72.8	72.2	63.9	53.3	40.2	32.6	51.5
	LOWEST DAILY MINIMUM	62	-5	-8	8	24	36	51	54	53	38	25	14	-7	-8
	YEAR OF OCCURRENCE		1966	1985	1989	1975	1979	1983	1970	1992	1989	1957	1950	1989	FEB 1985
	MEAN OF EXTREME MINS.	105	12.9	16.8	23.0	33.6	45.8	57.8	64.3	62.3	49.2	36.6	24.7	16.0	36.9
	NORMAL DRY BULB	30	40.5	45.7	54.2	62.4	71.4	79.7	84.8	83.5	75.6	64.7	51.9	42.9	63.1
	MEAN DRY BULB	85	41.7	45.3	54.3	63.2	72.0	80.0	85.2	84.7	75.9	65.8	52.1	44.1	63.7
	MEAN WET BULB	25	35.1	39.0	45.6	53.2	63.0	69.3	70.6	70.3	65.1	55.6	45.4	36.4	54.1
	MEAN DEW POINT	25	30.3	33.8	40.9	48.6	59.6	65.9	66.4	66.2	60.9	51.6	40.6	31.7	49.7
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.1	0.7	1.9	7.9	19.9	28.0	26.5	15.1	3.3	0.0	0.0	103.4
	MAXIMUM <= 32	30	3.1	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.7	6.8
MINIMUM <= 32	30	20.5	12.8	5.5	0.7	0.0	0.0	0.0	0.0	0.0	0.4	6.6	17.2	63.7	
MINIMUM <= 0	30	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	762	550	354	140	23	0	0	0	18	106	395	676	3024
	NORMAL COOLING DEG. DAYS	30	0	2	19	66	220	448	618	574	339	99	10	1	2396
<b>RH</b>	NORMAL (PERCENT)	30	66	65	63	62	67	65	57	58	64	66	68	69	64
	HOURLY 00 LST	30	73	73	71	72	78	76	66	68	74	74	76	74	73
	HOURLY 06 LST	30	80	80	79	80	86	85	78	80	84	84	83	81	82
	HOURLY 12 LST	30	56	55	51	49	53	51	44	46	51	52	54	57	52
	HOURLY 18 LST	30	57	52	47	46	51	48	40	42	50	54	60	61	51
<b>S</b>	PERCENT POSSIBLE SUNSHINE														
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG (VISIBY <= 1/4 MI)	46	2.0	1.4	0.9	0.7	0.6	0.3	0.2	0.1	0.4	1.1	1.5	1.8	11.0
	THUNDERSTORMS	62	1.0	1.5	3.3	5.4	9.0	7.5	5.4	5.8	4.2	3.6	1.7	1.0	49.4
<b>CLOUDNESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)	1	4.8	4.8	7.2	4.4	5.6	2.0	1.6	2.1	3.2	3.2	4.0	4.0	3.9
	MIDNIGHT-MIDNIGHT (OKTAS)	1	4.8	4.0	7.2	3.6	5.6	1.6	1.6	2.4	1.6	2.8	4.0	4.0	3.6
	MEAN NO. DAYS WITH: CLEAR	2	12.0	15.0	9.0	10.0	18.0	24.0	19.0	16.0	3.0	12.0	1.0	1.0	140.0
	PARTLY CLOUDY	2	6.5	3.5	3.0	6.0	6.5	9.5	6.0	4.0	2.0	3.0	3.0	5.0	58.0
	CLOUDY	2	11.0	8.0	4.5	4.0	11.5	1.5	1.0	2.0	1.0	3.0	8.0	5.0	60.5
<b>PR</b>	MEAN STATION PRESSURE (IN)	26	29.03	28.98	28.90	28.84	28.81	28.83	28.87	28.88	28.90	28.93	28.97	29.02	28.91
	MEAN SEA-LEVEL PRES. (IN)	26	30.13	30.08	29.99	29.91	29.88	29.88	29.92	29.93	29.96	30.01	30.07	30.12	29.99
<b>WINDS</b>	MEAN SPEED (MPH)	26	11.0	11.6	12.5	12.8	12.0	11.5	10.9	9.7	9.7	10.7	11.0	10.7	11.2
	PREVAIL. DIR. (TENS OF DEGS)	30	36	36	17	17	17	17	17	19	17	17	19	36	17
	MAXIMUM 2-MINUTE: SPEED (MPH)	16	46	48	62	48	59	69	60	48	51	46	55	45	69
	DIR. (TENS OF DEGS)		32	28	19	33	02	36	33	01	33	14	15	34	36
	YEAR OF OCCURRENCE		2008	1994	2004	1994	2001	2002	2000	2002	1996	1994	1994	2000	JUN 2002
	MAXIMUM 3-SECOND SPEED (MPH)	16	56	62	91	55	69	94	74	61	64	52	63	54	94
	DIR. (TENS OF DEGS)		32	27	20	33	02	31	27	01	33	17	15	28	31
YEAR OF OCCURRENCE		2008	1994	2004	1999	2001	2007	1994	2002	1996	1996	1994	2004	JUN 2007	
<b>PRECIPITATION</b>	NORMAL (IN)	30	1.12	1.58	2.27	2.62	3.92	3.69	1.58	2.39	3.19	3.11	1.68	1.68	28.83
	MAXIMUM MONTHLY (IN)	65	4.48	4.55	6.29	8.50	13.22	8.60	11.86	7.61	10.23	7.86	6.85	6.93	13.22
	YEAR OF OCCURRENCE		1968	1990	1999	1957	1982	1989	1950	1971	1980	1972	2004	1991	MAY 1982
	MINIMUM MONTHLY (IN)	65	0.00	T	T	0.08	0.01	0.26	0.00	0.00	T	T	0.00	0.02	0.00
	YEAR OF OCCURRENCE		1986	1991	1956	1996	1966	2001	2003	2000	1983	1952	1949	1996	JUL 2003
	MAXIMUM IN 24 HOURS (IN)	65	2.11	3.00	4.32	5.33	5.70	5.36	3.93	5.82	6.22	5.61	2.58	2.98	6.22
	YEAR OF OCCURRENCE		1999	1981	1988	2009	1975	1985	1950	2008	1980	1959	1968	1991	SEP 1980
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	4.9	5.1	6.4	6.5	8.6	7.2	4.7	6.3	6.4	7.0	5.5	5.1	73.7
PRECIPITATION >= 1.00	30	0.2	0.4	0.5	0.7	1.1	1.2	0.5	0.6	1.0	1.0	0.5	0.5	8.2	
<b>SNOWFALL</b>	NORMAL (IN)	30	2.2	1.3	0.6	0.*	0.0	0.0	0.0	0.0	0.0	0.*	0.4	1.0	5.5
	MAXIMUM MONTHLY (IN)	60	11.9	11.8	10.9	0.8	T	T	T	T	0.0	1.0	3.9	9.1	11.9
	YEAR OF OCCURRENCE		1966	1978	1989	1973	1990	1992	2004			1993	1957	2009	JAN 1966
	MAXIMUM IN 24 HOURS (IN)	60	8.1	5.5	9.7	0.8	T	T	T	0.0	0.0	1.0	3.9	7.8	9.7
	YEAR OF OCCURRENCE		1985	2004	1989	1973	1990	1992	2004			1993	1957	2009	MAR 1989
	MAXIMUM SNOW DEPTH (IN)	54	7	8	10	0	T	0	0	0	0	0	4	8	10
	YEAR OF OCCURRENCE		1966	1985	1989		1951						1976	2009	MAR 1989
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.7	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.7	

**PRECIPITATION (inches) 2009 WICHITA FALLS (KSPS)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	1.57	0.63	0.76	0.35	6.67	0.26	0.03	0.26	10.23	1.65	1.57	1.94	25.92
1981	0.14	3.30	1.86	3.95	3.54	4.59	1.33	2.29	1.49	7.83	0.86	0.30	31.48
1982	1.66	1.03	2.04	3.38	13.22	7.41	0.92	0.71	2.06	1.99	2.73	2.22	39.37
1983	1.87	0.90	2.06	2.19	3.21	5.05	0.19	0.19	-0.1	7.79	0.91	0.89	25.24
1984	0.17	0.79	1.48	0.62	1.44	1.78	0.92	3.07	0.80	6.24	3.32	5.03	25.66
1985	1.08	2.61	3.77	6.15	1.69	7.07	0.21	1.75	1.46	3.69	1.11	0.11	30.70
1986	0.00	1.10	0.84	3.24	3.87	7.61	0.77	2.10	6.77	4.37	3.03	0.91	34.61
1987	1.78	4.16	1.89	0.32	10.17	3.74	1.47	2.43	2.20	0.11	1.66	4.84	34.77
1988	1.17	0.60	5.24	2.16	0.93	2.45	0.95	0.58	7.04	0.76	0.51	1.11	23.50
1989	1.04	3.50	1.54	0.32	4.54	8.60	3.19	6.17	5.01	2.25	0.03	0.28	36.47
1990	2.30	4.55	5.38	6.95	5.01	2.73	2.21	2.08	1.78	1.33	2.49	0.97	37.78
1991	2.66	-0.1	0.68	0.99	4.24	2.76	1.91	2.75	8.28	3.92	0.81	6.93	35.92
1992	1.78	1.15	1.27	1.08	3.56	7.94	1.78	1.86	1.73	0.17	4.57	2.21	29.10
1993	1.19	3.37	2.80	3.21	5.25	3.21	0.72	1.21	2.83	2.09	0.58	2.64	29.10
1994	0.22	2.66	1.07	2.01	1.79	1.46	3.10	0.14	1.51	3.74	2.33	0.86	20.89
1995	0.86	0.16	1.64	2.10	7.45	5.14	3.93	T	0.47	2.15	0.05	0.76	24.71
1996	0.06	T	2.33	0.08	0.18	1.89	1.77	5.49	5.00	1.10	3.77	T	21.67
1997	0.35	2.86	0.23	4.20	3.96	2.08	0.11	2.04	0.70	2.19	0.94	4.12	23.78
1998	2.42	2.34	3.84	1.63	0.19	2.25	1.95	1.27	0.21	2.73	2.26	1.94	23.03
1999	2.37	0.19	6.29	3.78	4.86	4.62	T	1.37	1.76	3.50	T	0.72	29.46
2000	0.73	1.20	2.51	2.81	1.33	3.63	0.70	0.00	0.07	6.38	5.16	1.27	25.79
2001	1.55	3.51	0.79	1.20	3.55	T	T	4.22	0.49	0.57	1.16	1.10	18.14
2002	1.16	1.06	3.01	4.42	1.58	4.77	2.92	0.15	2.37	4.62	0.67	1.88	28.61
2003	0.08	0.83	0.43	1.83	4.42	7.01	0.00	2.56	1.97	0.01	1.86	0.11	21.11
2004	1.37	3.12	1.63	1.83	1.81	5.37	4.81	5.42	0.99	3.98	6.85	0.76	37.94
2005	1.48	2.28	0.41	0.28	3.22	2.89	2.34	7.42	4.06	3.76	0.00	0.18	28.32
2006	0.63	0.17	2.74	1.54	2.04	1.04	0.09	1.24	3.56	6.09	0.87	2.25	22.26
2007	2.20	0.91	3.89	2.20	5.81	7.82	2.15	2.83	4.20	0.66	0.62	0.76	34.05
2008	0.01	0.99	2.87	2.83	2.91	3.47	1.05	7.38	1.72	3.41	0.10	1.05	27.79
2009	0.13	0.68	0.37	6.77	3.60	2.49	2.93	1.58	4.09	4.32	0.05	2.11	29.12
POR= 105 YRS	1.07	1.33	1.91	2.71	4.44	3.41	1.99	2.27	2.89	2.76	1.59	1.52	27.89

WBAN : 13966

**AVERAGE TEMPERATURE (°F) 2009 WICHITA FALLS (KSPS)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	42.8	42.4	49.9	61.1	70.9	84.8	91.9	88.8	77.9	62.8	51.2	46.5	64.3
1981	44.0	48.6	54.0	68.3	69.6	80.8	86.9	82.7	77.4	63.1	53.2	44.5	64.4
1982	40.8	40.3	54.9	59.3	71.5	76.9	82.3	85.7	76.5	65.2	52.4	45.1	62.6
1983	41.2	44.7	52.3	57.8	67.9	75.7	84.6	86.4	78.1	66.3	54.1	30.5	61.6
1984	37.2	47.1	51.4	60.1	72.7	82.9	84.8	84.4	73.9	63.3	51.9	46.2	63.0
1985	34.8	40.8	55.9	64.2	72.2	78.1	83.0	85.4	75.9	64.7	50.7	38.6	62.0
1986	45.7	47.6	58.4	65.6	71.1	79.6	86.9	82.5	78.1	63.7	49.0	43.3	64.3
1987	39.2	48.7	51.2	62.1	73.1	78.3	82.2	85.1	74.4	63.8	53.2	42.8	62.8
1988	38.2	43.1	53.5	61.4	72.1	79.5	84.7	86.2	75.5	63.5	54.7	45.8	63.2
1989	46.4	37.2	53.8	65.4	72.5	76.1	82.9	81.0	72.0	66.2	54.6	35.0	61.9
1990	47.9	49.4	55.4	61.6	71.7	84.5	83.0	84.1	79.1	64.1	56.5	39.2	64.7
1991	39.3	51.5	57.0	65.4	73.9	79.8	85.1	81.1	72.0	65.2	48.3	46.8	63.8
1992	43.2	51.3	56.6	63.4	69.4	78.3	83.0	78.9	75.4	66.8	49.9	45.2	63.5
1993	40.9	43.4	52.5	60.5	68.1	78.7	86.1	84.0	73.7	67.7	47.2	45.2	63.5
1994	40.3	41.4	54.9	62.5	69.0	82.5	82.6	83.6	74.8	65.9	53.7	46.3	63.1
1995	43.9	48.4	53.0	61.9	68.4	76.4	84.4	83.7	73.8	64.8	53.1	43.7	63.0
1996	39.5	48.5	50.1	61.6	79.0	82.2	86.5	81.5	72.5	63.6	50.9	46.2	63.5
1997	42.0	46.9	56.1	57.7	68.4	77.8	84.4	82.1	78.9	64.4	49.1	41.2	62.4
1998	44.6	47.3	50.5	59.4	76.7	84.2	89.3	85.6	83.4	68.5	55.3	43.3	65.7
1999	44.2	52.8	52.3	63.5	71.1	79.1	86.2	88.5	75.9	65.6	59.0	46.8	65.4
2000	44.8	53.0	56.2	62.7	76.9	78.7	87.0	90.3	79.3	67.7	46.7	36.5	65.0
2001	40.5	44.8	49.8	65.8	73.3	81.5	90.0	85.4	75.1	64.5	57.6	45.7	64.5
2002	45.5	44.9	51.0	64.4	70.2	78.6	82.2	85.0	76.9	59.8	50.6	44.2	62.8
2003	40.7	42.9	53.3	65.0	73.7	76.7	86.0	85.9	73.0	67.7	55.0	47.5	64.0
2004	45.1	42.5	59.3	63.6	73.4	77.3	81.2	78.9	76.5	67.3	53.6	45.5	63.7
2005	44.1	49.1	54.1	63.5	71.3	81.1	83.8	83.0	79.5	65.5	56.2	44.2	64.6
2006	52.5	46.2	59.1	70.1	75.5	82.7	88.4	89.2	74.1	65.6	55.5	46.0	67.1
2007	40.0	46.0	61.4	60.3	72.3	78.4	81.8	85.7	79.7	69.7	57.0	43.7	64.7
2008	44.3	49.1	57.2	63.8	74.7	85.8	86.7	84.6	75.3	66.0	54.2	42.9	65.4
2009	41.9	51.7	57.8	64.3	69.1	81.6	84.4	84.3	74.4	58.9	55.9	37.5	63.5
POR= 85 YRS	41.7	45.3	54.3	63.2	72.0	80.0	85.2	84.7	75.9	65.8	52.1	44.1	63.7

**HEATING DEGREE DAYS (base 65°F) 2009 WICHITA FALLS (KSPS)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0	0	32	139	416	567	644	455	339	50	33	0	2675
1981-82	0	0	11	144	355	629	745	689	331	220	25	0	3149
1982-83	0	0	4	116	387	612	732	564	387	259	43	4	3108
1983-84	0	0	13	60	342	1059	855	509	420	181	17	0	3456
1984-85	0	0	65	129	400	582	930	673	301	67	1	0	3148
1985-86	0	0	31	83	431	812	592	482	226	76	12	0	2745
1986-87	0	0	0	98	473	665	791	452	419	162	1	0	3061
1987-88	0	0	0	92	370	682	824	630	376	138	7	0	3119
1988-89	0	0	3	89	318	587	568	772	391	123	16	0	2867
1989-90	0	0	41	100	318	923	525	428	316	154	44	0	2849
1990-91	0	0	3	120	267	793	791	376	265	63	15	0	2693
1991-92	0	0	25	116	496	558	671	391	262	107	35	0	2661
1992-93	0	0	1	47	457	614	737	597	394	169	30	0	3046
1993-94	0	0	15	530	607	572	756	651	334	145	42	0	3046
1994-95	0	0	18	98	349	572	646	460	388	148	32	0	2711
1995-96	0	0	41	65	350	656	783	491	476	148	2	0	3012
1996-97	0	0	16	103	419	579	714	500	283	233	30	0	2877
1997-98	0	0	0	155	472	733	625	494	469	189	2	0	3139
1998-99	0	0	0	47	290	664	636	343	388	105	9	0	2482
1999-00	0	0	14	85	195	558	618	342	281	122	16	0	2231
2000-01	0	0	22	86	546	877	754	560	467	70	2	0	3384
2001-02	0	0	6	86	253	595	597	557	443	116	25	0	2678
2002-03	0	0	0	217	431	641	751	617	375	87	9	0	3128
2003-04	0	0	0	46	322	536	610	646	212	103	26	0	2501
2004-05	0	0	0	39	333	599	642	442	334	99	53	0	2541
2005-06	0	0	0	103	289	639	387	522	238	30	6	0	2214
2006-07	0	0	1	104	299	583	768	530	157	197	1	0	2640
2007-08	0	0	0	65	272	654	644	458	280	120	15	0	2508
2008-09	0	0	0	90	329	679	710	375	263	116	46	0	2608
2009-	0	0	7	197	270	844							

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**COOLING DEGREE DAYS (base 65°F) 2009 WICHITA FALLS (KSPS)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	0	0	52	204	603	843	745	427	80	7	2	2963
1981	0	5	6	159	179	480	687	558	389	90	5	0	2558
1982	0	3	24	59	234	364	542	648	354	130	18	3	2379
1983	0	0	1	49	140	331	614	672	411	107	18	0	2343
1984	0	0	2	42	262	545	620	609	338	87	13	3	2521
1985	0	0	27	53	230	401	562	638	365	81	11	0	2368
1986	0	2	30	102	204	448	686	552	399	66	0	0	2489
1987	0	0	0	80	258	404	542	629	288	63	21	0	2285
1988	0	0	26	37	234	443	620	664	322	51	15	0	2412
1989	0	0	50	138	253	336	561	506	258	143	12	0	2257
1990	0	0	27	59	259	593	567	596	435	98	17	0	2651
1991	0	1	24	78	296	454	627	506	242	128	3	1	2360
1992	0	0	7	68	178	405	565	436	321	112	11	6	2109
1993	0	0	13	42	137	415	663	595	285		3	0	
1994	0	0	28	76	175	532	550	585	320	131	17	0	2414
1995	0	2	24	64	143	351	609	551	314	70	2	3	2133
1996	0	17	20	53	443	522	672	518	247	67	2	1	2562
1997	7	0	11	19	142	391	605	537	424	141	0	0	2277
1998	1	2	27	30	369	584	760	647	557	164	10	0	3151
1999	0	6	0	69	204	428	664	735	348	110	23	1	2588
2000	0	0	12	59	393	419	689	793	457	173	0	0	2995
2001	0	0	0	99	266	501	782	637	317	75	38	2	2717
2002	0	0	14	101	193	414	540	623	364	65	8	0	2322
2003	0	6	17	94	286	357	659	652	244	139	29	0	2483
2004	0	0	42	69	295	377	510	436	351	119	0	0	2199
2005	0	2	5	59	256	490	591	563	441	126	28	0	2561
2006	3	1	63	191	341	539	734	758	278	133	21	1	3063
2007	0	5	51	60	237	404	528	649	445	216	39	0	2634
2008	9	3	46	90	325	632	682	615	320	128	15	1	2866
2009	0	9	49	103	180	504	612	606	299	17	2	0	2381

**SNOWFALL (inches) 2009 WICHITA FALLS (KSPS)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	0.0	2.7	0.0	T	T	0.0	0.0	0.0	0.0	2.7
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.2	T	0.0	0.0	0.0	4.5
1982-83	0.0	0.0	0.0	0.0	T	1.1	7.3	T	0.0	0.0	0.0	0.0	8.4
1983-84	0.0	0.0	0.0	0.0	0.0	7.1	0.3	0.0	0.0	0.0	0.0	0.0	7.4
1984-85	0.0	0.0	0.0	0.0	0.0	0.4	8.7	0.2	0.0	0.0	0.0	0.0	9.3
1985-86	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.3	0.0	0.0	0.0	0.0	3.2
1986-87	0.0	0.0	0.0	0.0	0.0	T	2.4	T	0.0	0.0	0.0	0.0	2.4
1987-88	0.0	0.0	0.0	0.0	0.0	4.1	4.9	3.0	T	0.0	0.0	0.0	12.0
1988-89	0.0	0.0	0.0	0.0	T	T	2.3	T	10.9	0.0	0.0	0.0	13.2
1989-90	0.0	0.0	0.0	T	0.0	T	T	0.0	T	T	T	0.0	T
1990-91	0.0	0.0	0.0	0.0	0.0	1.1	T	0.0	T	0.0	0.0	0.0	1.1
1991-92	0.0	0.0	0.0	T	T	T	8.4	T	0.0	0.0	0.0	T	8.4
1992-93	0.0	0.0	0.0	T	T	T	T	T	T	T	T	T	T
1993-94	0.0	0.0	0.0	1.0	0.0			T	T	0.0	0.0	0.0	T
1994-95	0.0	0.0	0.0	0.0	0.0		T	0.0	T	0.0	0.0		T
1995-96		0.0	0.0	0.0	0.0			T					T
1996-97						T	7.2	T					T
1997-98													T
1998-99													T
1999-00													T
2000-01													T
2001-02													T
2002-03						T	T	0.3	0.0	T	0.0	T	T
2003-04	0.0	0.0	0.0	0.0	0.0	0.0	T	5.5	0.0	0.0	0.0	T	5.5
2004-05	T	0.0	0.0	0.0	T	1.3	T	T	0.0	0.0	T	T	1.3
2005-06	0.0	0.0	0.0	0.0	0.0	T	0.0	T	T	0.0	0.0	0.0	T
2006-07	0.0	0.0	0.0	0.0	1.0	0.0	T	T	0.0	T	0.0	0.0	1.0
2007-08	0.0	0.0	0.0	0.0	T	T	T	0.0	T	0.0	0.0	0.0	T
2008-09	0.0	0.0	0.0	0.0	0.0	0.0	T	T	T	T	0.0	0.0	T
2009-	0.0	0.0	0.0	0.0	0.0	9.1							T
POR= 103 YRS	T	0.0	0.0	T	0.2	0.8	1.7	1.2	0.6	T	T	T	4.5

WBAN : 13966

**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 MEDADATA SYSTEM", URL IS: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a></p> <p><b>NOTE:</b> 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 WICHITA FALLS TEXAS (KSPS)

Wichita Falls is located in the West Cross Timbers subdivision of the North Central Plains of Texas, about 10 miles south of the Red River and 400 miles northwest of the nearest portion of the Gulf of Mexico. The topography is gently rolling mesquite plain, and the elevation of the area is about 1,000 feet.

This region lies between the humid subtropical climate of east Texas and a continental climate to the north and west. The climate of Wichita Falls is classified as continental. It is characterized by rapid changes in temperature, large daily and annual temperature extremes, and by rather erratic rainfall.

The area lies in the path of polar air masses which move down from the north during the winter season. With the passage of cold fronts or northers in the fall and winter, abrupt drops in temperature of as much as 20 to 30 degrees within an hour sometimes occur. While the area is subject to a wide range of temperature, winters are on the whole relatively mild. January, the coldest month, has an average temperature around 40 degrees. Sub-zero temperatures occur about once every five years.

The summers in Wichita Falls are generally of the continental climate type, characterized by low humidity and windy conditions. Temperatures over 100 degrees are frequent during the common periods of hot weather. July and August, the hottest months, have average temperatures in the middle 80s.

The normal rainfall is nearly 27 inches per year, but the distribution is erratic to such an extent that prolonged dry periods are common. Several lakes in the area provide water for domestic, industrial, and irrigation purposes. The greater part of the rainfall comes in the form of showers rather than general rains. Over 75 percent of the annual moisture occurs during the period from late March to mid November, but dry periods of three to four weeks are to be expected during this time almost every year. While the dry conditions materially affect agriculture in this region, complete crop failure seldom results. Moderate flooding along Holliday Creek and the Wichita River, which run through the city, occur about once in each ten-year period. Snowfall, measuring an inch or more, occurs on average only two days a year.

Wind speeds average over 11 mph, and southerly winds prevail. Rather strong winds are observed in all months. Even though strong, gusty winds occur frequently, severe duststorms are rare. Most severe dust observed in the area is blown in from the north and west.

The area around Wichita Falls enjoys excellent aviation weather. Flying activities are possible on all but a very few days of the year. Approximately 95 percent of the time the ceiling is 1,000 feet or more with visibility of 3 miles or more.

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