

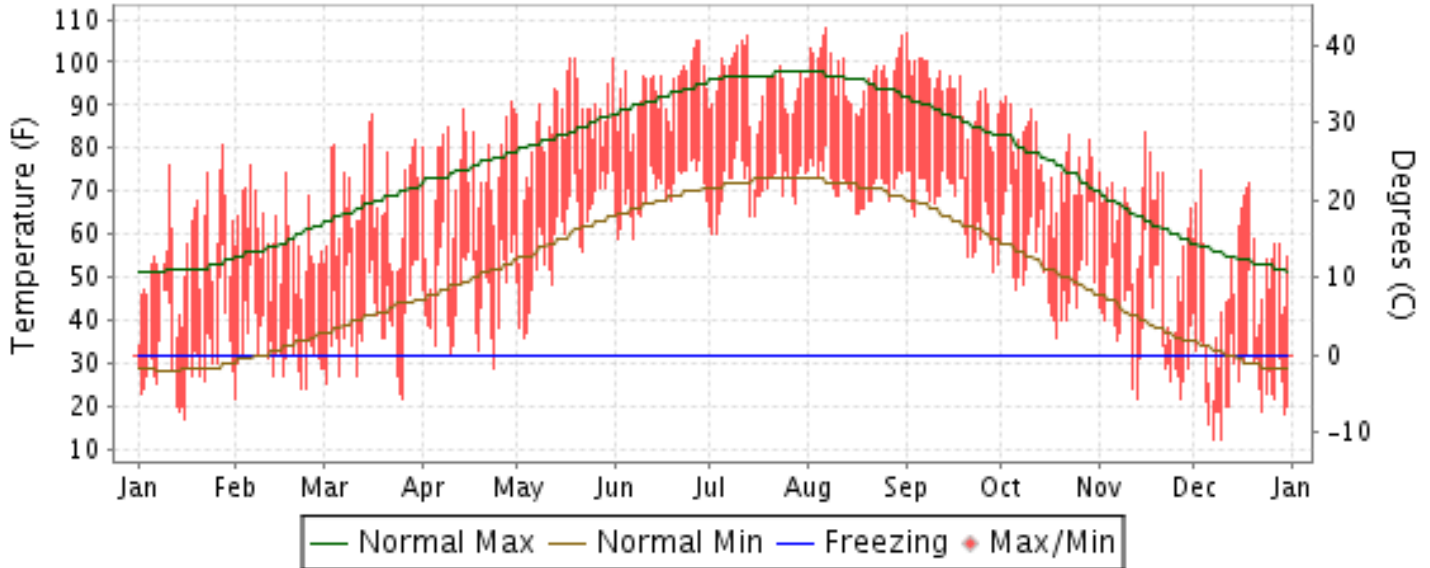


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

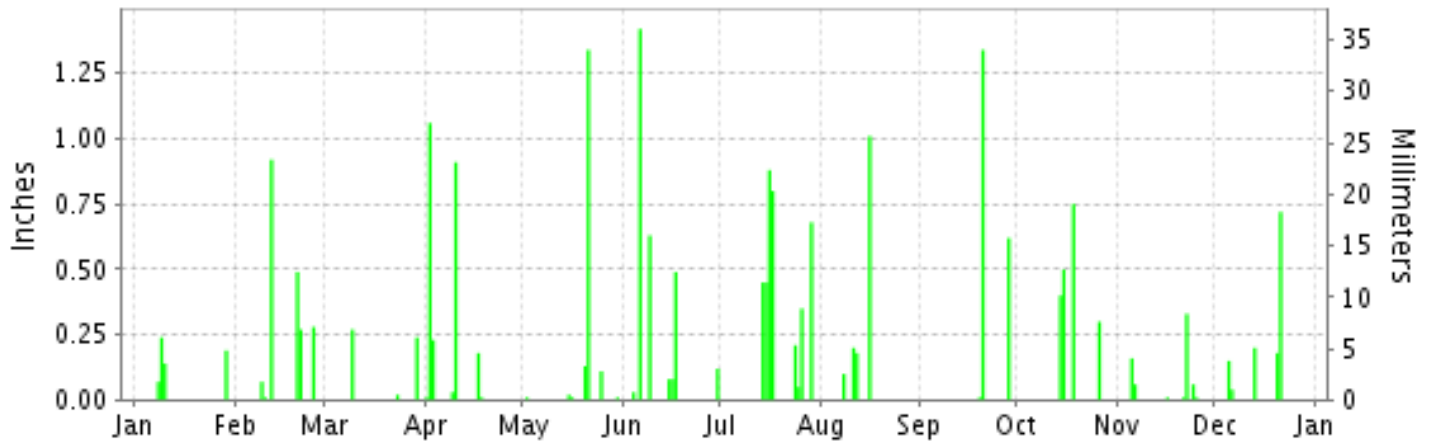
ISSN 0198-5248

WICHITA FALLS, TEXAS (KSPS)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
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NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

WICHITA FALLS (KSPS)

LATITUDE: 33° 58'N LONGITUDE: 98° 29'W ELEVATION (FT): GRND: 1017 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	55.9	59.2	67.6	72.7	85.6	93.8	94.6	97.3	92.9	77.5	61.3	50.5	75.7	
	HIGHEST DAILY MAXIMUM	81	76	88	91	101	105	106	108	107	92	84	75	108	
	DATE OF OCCURRENCE	28	06	16	29	31+	28+	13	07	01	03	16	03	AUG 07	
	MEAN DAILY MINIMUM	31.7	33.3	39.6	45.9	59.5	70.1	71.1	71.7	66.4	52.8	38.3	26.4	50.6	
	LOWEST DAILY MINIMUM	17	22	22	29	36	59	60	65	51	36	22	12	12	
	DATE OF OCCURRENCE	16	01	26	24	03	07+	03+	17+	29	19	27+	10+	DEC 10+	
	AVERAGE DRY BULB	43.8	46.3	53.6	59.3	72.6	82.0	82.9	84.5	79.7	65.2	49.8	38.4	63.2	
	MEAN WET BULB	38.5	40.0	44.7	51.9	62.3	69.3	70.2	71.0	66.7	57.1	43.4	33.4	54.0	
	MEAN DEW POINT	31.6	32.1	34.2	45.3	54.9	62.5	63.4	64.4	59.0	51.1	36.0	27.4	46.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	1	10	21	23	27	22	4	0	0	108	
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	3	3	
MINIMUM <= 32°	20	17	7	2	0	0	0	0	0	0	11	25	82		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	654	517	361	219	52	0	0	0	0	102	456	815	3176	
	COOLING DEGREE DAYS	5	0	15	57	293	517	559	613	446	115	8	0	2628	
RH	MEAN (PERCENT)	66	63	53	64	59	56	57	55	54	66	64	70	61	
	HOUR 00 LST	74	69	61	74	70	64	64	65	62	74	72	75	69	
	HOUR 06 LST	82	80	71	83	80	78	77	78	76	81	77	83	79	
	HOUR 12 LST	57	53	42	53	46	44	46	40	39	54	51	60	49	
	HOUR 18 LST	52	47	35	48	41	36	41	36	37	54	56	62	45	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	2	0	0	0	0	0	0	0	0	0	4	7	
	THUNDERSTORMS	1	3	2	5	4	5	5	3	2	2	0	0	32	
PR	MEAN STATION PRESS. (IN.)	29.04	28.91	28.93	28.83	28.82	28.82	28.88	28.88	28.85	28.90	29.08	29.04	28.92	
	MEAN SEA-LEVEL PRESS. (IN.)	30.15	30.02	30.02	29.91	29.89	29.88	29.94	29.94	29.91	29.99	30.19	30.16	30.00	
WINDS	RESULTANT SPEED (MPH)	1.1	1.2	1.7	4.0	7.2	6.5	5.6	4.7	4.3	3.9	2.2	0.9	3.2	
	RES. DIR. (TENS OF DEGS.)	31	06	13	14	16	15	15	15	14	15	14	32	15	
	MEAN SPEED (MPH)	9.6	11.2	12.3	13.4	14.8	12.2	9.7	9.0	9.0	11.2	11.8	9.6	11.2	
	PREVAIL.DIR.(TENS OF DEGS.)	36	34	17	15	18	17	19	17	15	16	16	01	18	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	36	35	44	40	41	52	41	44	29	33	37	31	52	
	DIR. (TENS OF DEGS.)	28	36	36	01	18	34	08	18	13	36	34	01	34	
	DATE OF OCCURRENCE	29	07	04	10	28	17	24	16	07	18	21	29	JUN 17	
	MAXIMUM 3-SECOND WIND:														
SPEED (MPH)	44	41	52	48	53	66	53	59	38	40	45	38	66		
DIR. (TENS OF DEGS.)	28	32	36	36	18	34	06	19	12	33	34	02	34		
DATE OF OCCURRENCE	29	25	05	10	18	17	24	16	07	31	21	29	JUN 17		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.64	2.04	0.53	2.43	1.63	2.85	3.87	1.49	1.97	1.95	0.64	1.29	21.33	
	GREATEST 24-HOUR (IN.)	0.38	0.92	0.27	1.06	1.47	1.42	1.21	1.01	1.35	0.75	0.33	0.90	1.47	
	DATE OF OCCURRENCE	09-10	12	09	02	20-21	06	16-17	16	19-20	18	22	20-21	MAY 20-21	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	4	6	3	7	7	7	8	4	3	4	7	5	65		
PRECIPITATION 0.10	3	4	2	4	3	4	7	4	2	4	2	4	43		
PRECIPITATION 1.00	0	0	0	1	1	1	0	1	1	0	0	0	5		
SNOWFALL	SNOW,ICE PELLETS,HAIL	T	T	0.0	T	T	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.7	
	TOTAL (IN.)	T	T	0.0	T	T	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5	
	GREATEST 24-HOUR (IN.)	13+	25+		10	20						24	05	DEC 05	
	DATE OF OCCURRENCE	0	0	0	0	0	0	0	0	0	0	T	1	1	
	MAXIMUM SNOW DEPTH (IN.)											23	08+	DEC 08+	
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0		

NORMALS, MEANS, AND EXTREMES WICHITA FALLS (KSPS)

LATITUDE: 33° 58'N **LONGITUDE:** 98° 29'W **ELEVATION (FT):** GRND: 1017 BARO: 1013 **TIME ZONE:** CENTRAL (UTC -6) **WBAN: 13966**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	54.2	58.3	67.0	75.8	83.6	91.4	96.9	96.6	88.1	77.0	65.1	54.7	75.7
	MEAN DAILY MAXIMUM	89	53.4	57.1	67.3	76.0	84.0	91.9	97.6	97.4	87.9	78.2	64.1	55.6	75.9
	HIGHEST DAILY MAXIMUM	66	87	93	100	103	110	117	114	113	111	102	89	88	117
	YEAR OF OCCURRENCE		1969	1996	1971	2011	2011	1980	1980	1964	2000	2000	1988	1954	JUN 1980
	MEAN OF EXTREME MAXS.	109	76.1	80.9	87.8	92.2	97.7	101.7	105.5	105.5	100.7	92.9	83.0	77.2	91.8
	NORMAL DAILY MINIMUM	30	29.8	33.5	41.2	49.4	59.6	67.6	71.9	71.4	63.3	52.0	40.3	30.8	50.9
	MEAN DAILY MINIMUM	89	29.9	33.3	41.4	50.5	60.1	68.2	72.9	72.3	63.9	53.3	40.2	32.5	51.5
	LOWEST DAILY MINIMUM	66	-5	-8	8	24	36	51	54	53	38	25	14	-7	-8
	YEAR OF OCCURRENCE		1966	1985	1989	1975	2013	1983	1970	1992	1989	1957	1950	1989	FEB 1985
	MEAN OF EXTREME MINS.	109	13.0	16.8	23.2	33.7	45.6	58.0	64.5	62.4	49.3	36.4	24.7	16.0	37.0
	NORMAL DRY BULB	30	42.0	45.9	54.1	62.6	71.6	79.5	84.4	84.0	75.7	64.5	52.7	42.8	63.3
	MEAN DRY BULB	89	41.7	45.2	54.4	63.3	72.1	80.2	85.3	84.8	75.9	65.7	52.2	44.0	63.7
	MEAN WET BULB	29	34.3	38.0	44.8	52.5	62.0	68.4	69.7	69.2	64.0	54.6	44.3	35.8	53.1
	MEAN DEW POINT	29	31.1	34.5	41.8	49.6	60.0	66.5	67.1	66.8	61.5	52.1	41.4	32.3	50.4
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.1	0.7	1.6	7.5	18.7	27.4	26.1	13.6	2.2	0.0	0.0	97.9
	MAXIMUM <= 32	30	1.4	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.4	3.9
	MINIMUM <= 32	30	18.9	11.4	4.9	0.5	0.0	0.0	0.0	0.0	0.0	0.3	5.8	17.4	59.2
MINIMUM <= 0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	
H/C	NORMAL HEATING DEG. DAYS	30	713	536	357	142	23	1	0	0	13	113	381	690	2969
	NORMAL COOLING DEG. DAYS	30	1	2	19	70	227	436	601	589	334	97	12	1	2389
RH	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
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	50	2.0	1.6	0.9	0.7	0.6	0.3	0.2	0.1	0.4	1.1	1.4	1.9	11.2
	THUNDERSTORMS	66	1.0	1.5	3.2	5.3	8.7	7.3	5.3	5.7	4.2	3.6	1.6	0.9	48.3
CLOUDINESS	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
PR	MEAN STATION PRESSURE(IN)	30	29.02	28.98	28.90	28.83	28.81	28.82	28.87	28.87	28.90	28.93	28.98	29.02	28.91
	MEAN SEA-LEVEL PRES. (IN)	30	30.13	30.08	29.99	29.91	29.87	29.87	29.92	29.93	29.96	30.01	30.07	30.12	29.99
WINDS	MEAN SPEED (MPH)	30	10.8	11.5	12.5	12.9	12.2	11.7	10.8	9.7	9.7	10.7	11.1	10.6	11.2
	PREVAIL.DIR.(TENS OF DEGS)	34	36	36	17	17	17	17	17	17	17	17	17	36	17
	MAXIMUM 2-MINUTE: SPEED (MPH)	20	46	48	62	48	59	69	60	48	51	46	55	45	69
	DIR. (TENS OF DEGS)		32	28	19	32	02	36	33	01	33	14	15	34	36
	YEAR OF OCCURRENCE		2008	1994	2004	2011	2001	2002	2000	2002	1996	1994	1994	2000	JUN 2002
	MAXIMUM 3-SECOND SPEED (MPH)	20	56	62	91	63	69	94	74	61	64	55	63	54	94
	DIR. (TENS OF DEGS)		32	27	20	34	02	31	27	01	35	19	15	28	31
YEAR OF OCCURRENCE		2008	1994	2004	2011	2001	2007	1994	2002	2011	2012	1994	2004	JUN 2007	
PRECIPITATION	NORMAL (IN)	30	1.14	1.75	2.20	2.61	3.79	4.15	1.59	2.50	2.81	3.11	1.65	1.62	28.92
	MAXIMUM MONTHLY (IN)	69	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)	69	0.00	T	T	0.08	0.01	0.02	0.00	0.00	T	T	0.00	0.02	0.00
	YEAR OF OCCURRENCE		1986	1991	1956	1996	1966	2011	2003	2000	1983	1952	1949	1996	JUL 2003
	MAXIMUM IN 24 HOURS (IN)	69	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	4.8	5.3	6.7	6.2	8.7	7.7	5.0	6.2	6.0	7.4	5.3	5.0	74.3
PRECIPITATION >= 1.00	30	0.2	0.3	0.5	0.7	1.2	1.4	0.4	0.7	1.0	1.1	0.5	0.4	8.4	
SNOWFALL	NORMAL (IN)	30	1.4	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	3.9
	MAXIMUM MONTHLY (IN)	64	11.9	11.8	10.9	0.8	T	T	0.0	0.0	0.0	1.0	3.9	9.1	11.9
	YEAR OF OCCURRENCE		1966	1978	1989	1973	2013	1992	2011			1993	1957	2009	JAN 1966
	MAXIMUM IN 24 HOURS (IN)	64	8.1	5.7	9.7	0.8	T	T	T	0.0	0.0	1.0	3.9	7.8	9.7
	YEAR OF OCCURRENCE		1985	2010	1989	1973	2013	1992	2004			1993	1957	2009	MAR 1989
	MAXIMUM SNOW DEPTH (IN)	58	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	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.1	

PRECIPITATION (inches) 2013 WICHITA FALLS (KSPS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	0.64	1.89	1.77	5.49	5.00	1.10	3.77	T	22.13
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
2010	1.76	2.47	1.06	4.12	3.76	3.47	3.07	1.99	5.41	1.51	0.23	0.13	28.98
2011	0.25	0.39	0.06	0.35	2.29	0.02	T	0.57	1.56	5.02	1.01	1.45	12.97
2012	2.24	0.60	3.49	2.40	1.05	2.45	0.37	2.68	3.22	0.51	0.20	0.60	19.81
2013	0.64	2.04	0.53	2.43	1.63	2.85	3.87	1.49	1.97	1.95	0.64	1.29	21.33
POR= 109 YRS	1.07	1.33	1.89	2.69	4.36	3.36	1.99	2.25	2.89	2.74	1.55	1.49	27.61

WBAN : 13966

AVERAGE TEMPERATURE (°F) 2013 WICHITA FALLS (KSPS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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		47.2	45.2	
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
2010	39.6	39.2	52.4	63.4	71.1	83.2	83.6	87.2	77.9	65.4	54.0	44.9	63.5
2011	38.9	44.5	57.6	69.3	74.1	89.5	92.9	93.4	75.9	65.4	53.7	42.7	66.5
2012	46.5	47.9	61.5	68.1	76.2	82.5	88.4	85.2	76.5	63.0	56.9	45.0	66.5
2013	43.8	46.3	53.6	59.3	72.6	82.0	82.9	84.5	79.7	65.2	49.8	38.4	63.2
POR= 89 YRS	41.7	45.2	54.4	63.3	72.1	80.2	85.3	84.8	75.9	65.7	52.2	44.0	63.7

HEATING DEGREE DAYS (base 65°F) 2013 WICHITA FALLS (KSPS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	756	651	334	145	42	0	
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
2009-10	0	0	7	197	270	844	778	719	395	101	26	0	3337
2010-11	0	0	3	56	334	616	799	589	266	47	47	0	2757
2011-12	0	0	3	93	349	684	566	493	163	50	1	0	2402
2012-13	0	0	4	158	262	621	654	517	361	219	52	0	2848
2013-	0	0	0	102	456	815							

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COOLING DEGREE DAYS (base 65°F) 2013 WICHITA FALLS (KSPS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2010	0	0	11	61	223	551	585	694	394	74	8	1	2602
2011	0	22	43	180	336	743	873	888	337	114	15	0	3551
2012	0	1	64	149	354	531	730	633	355	103	28	9	2957
2013	5	0	15	57	293	517	559	613	446	115	8	0	2628

SNOWFALL (inches) 2013 WICHITA FALLS (KSPS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	
1994-95	0.0	0.0	0.0	0.0	0.0		T	0.0	T	0.0	0.0		
1995-96		0.0	0.0	0.0	0.0			T					
1996-97						T	7.2	T					
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03						T	T	0.3	0.0	T	0.0	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
2009-10	0.0	0.0	0.0	0.0	0.0	9.1	0.2	5.7	1.6	0.0	0.0	0.0	16.6
2010-11	0.0	0.0	0.0	0.0	0.0	0.0	T	5.8	0.0	T	T	0.0	5.8
2011-12	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.8	0.0	0.0	0.0	0.0	1.9
2012-13	0.0	0.0	0.0	0.0	0.0	3.5	T	T	0.0	T	T	0.0	3.5
2013-	0.0	0.0	0.0	0.0	0.2	0.5							
POR= 107 YRS	T	0.0	0.0	T	0.2	0.8	1.7	1.3	0.6	T	T	T	4.6

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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. 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.</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</p>	<p>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.</p> <p>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.</p>
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2013 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.

Station History

WICHITA FALLS, TX

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
WICHITA FALLS MUNICIPAL AP	1930-09-01	1943-06-13	33° 58'	-98° 31'	1027		AIRWAYS
WICHITA FALLS MUNICIPAL AP	1993-05-01	2003-04-01	33° 58'	-98° 29'	1030	1 MI E	ASOS, COOP
WICHITA FALLS SHEPPARD AIR BASE	1960-06-23	1963-01-01	33° 58'	-98° 28'	994	2 MI SE	COOP
WICHITA FALLS MUNICIPAL AP	1968-12-01	1973-01-01	33° 58'	-98° 28'	994		AIRWAYS, COOP
WICHITA FALLS MUNICIPAL AP	1943-06-13	1955-02-01	33° 58'	-98° 31'	1027		AIRWAYS, COOP
WICHITA FALLS MUNICIPAL AP	1993-02-28	1993-05-01	33° 58'	-98° 28'	994		COOP
WICHITA FALLS KELL FIELD	1955-02-01	1959-12-31	33° 58'	-98° 31'	1020	225 FT N	AIRWAYS, COOP
WICHITA FALLS MUNICIPAL AP	1973-01-01	1993-02-28	33° 58'	-98° 28'	994		COOP, WXSVC
WICHITA FALLS KELL FIELD	1959-12-31	1960-06-23	33° 58'	-98° 31'	1020		COOP
WICHITA FALLS MUNICIPAL AP	2006-06-15	Present	33° 58'	-98° 29'	1017		ASOS, COOP
WICHITA FALLS MUNICIPAL AP	2003-04-01	2006-06-15	33° 58'	-98° 29'	1017		ASOS, COOP
WICHITA FALLS SHEPPARD AIR BASE	1963-01-01	1968-12-01	33° 58'	-98° 28'	994		AIRWAYS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1992-02-02	1993-05-01	DAILY	2400	MXMN		
PRECIP	1993-05-01	2003-04-01	HOURLY	2400	TB	RCRD	
PRECIP	2003-04-01	2006-06-15	DAILY	2400	TB	RCRD	
TEMP	1930-09-01	1963-09-01	DAILY	2400			
TEMP	2003-04-01	2006-06-15	DAILY	2400	ATEMP		
PRECIP	1963-09-01	1992-02-02	HOURLY	2400	UNIV	RCRD	
PRECIP	1992-02-02	1993-05-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1930-09-01	1963-09-01	DAILY		UNIV	RCRD	
PRECIP	1963-09-01	1992-02-02	DAILY	2400	UNIV	RCRD	
TEMP	1963-09-01	1992-02-02	DAILY	2400			
TEMP	1993-05-01	2003-04-01	DAILY	2400	HYGR		
PRECIP	2006-06-15	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	2006-06-15	Present	DAILY	2400	FPCPNX		
PRECIP	1992-02-02	1993-05-01	DAILY	2400	UNIV	RCRD	
PRECIP	1993-05-01	2003-04-01	DAILY	2400	TB	RCRD	
PRECIP	2003-04-01	2006-06-15	HOURLY	2400	TB	RCRD	
TEMP	2006-06-15	Present	DAILY	2400	ATEMP		

* 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>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center

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151 Patton Avenue

Asheville, NC 28801-5001

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