

2002

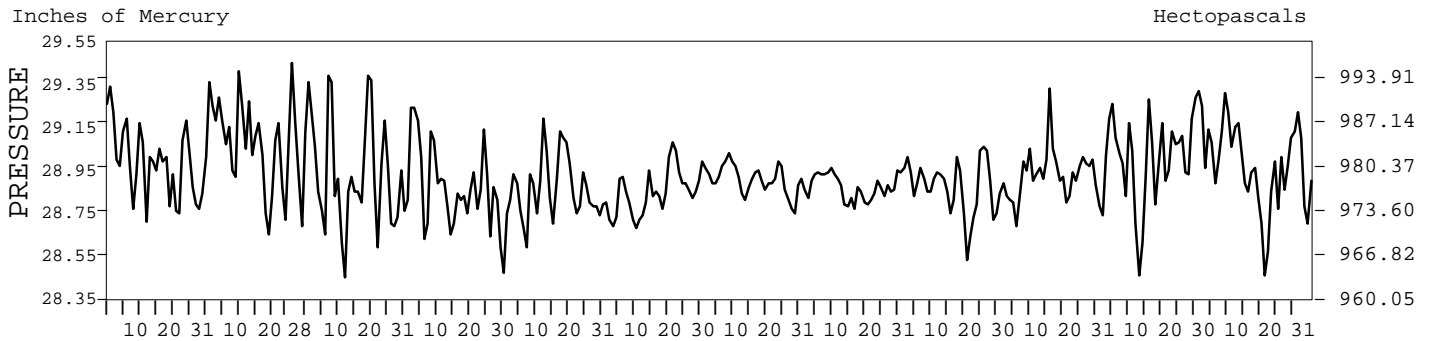
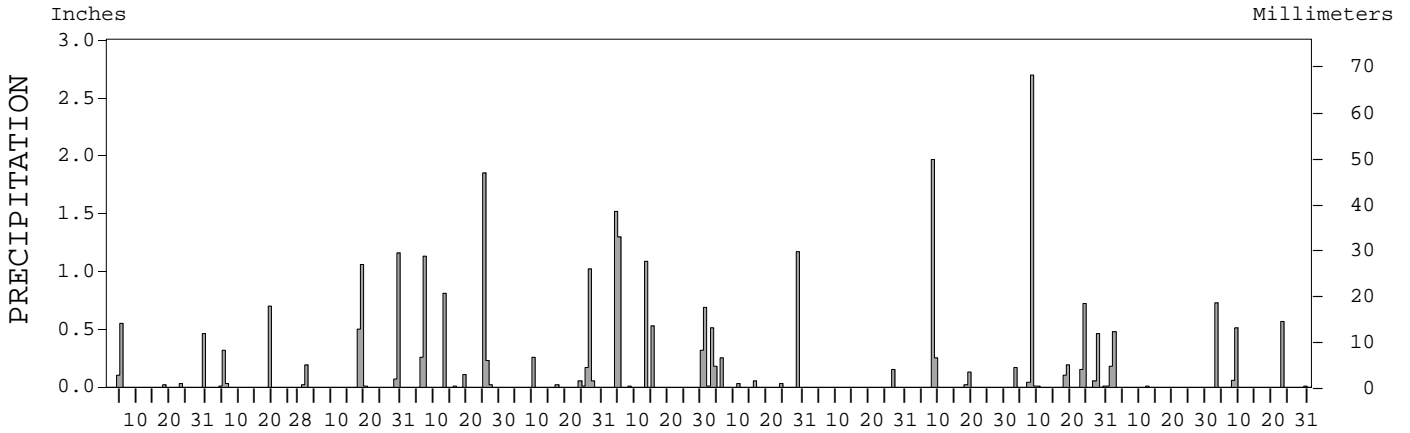
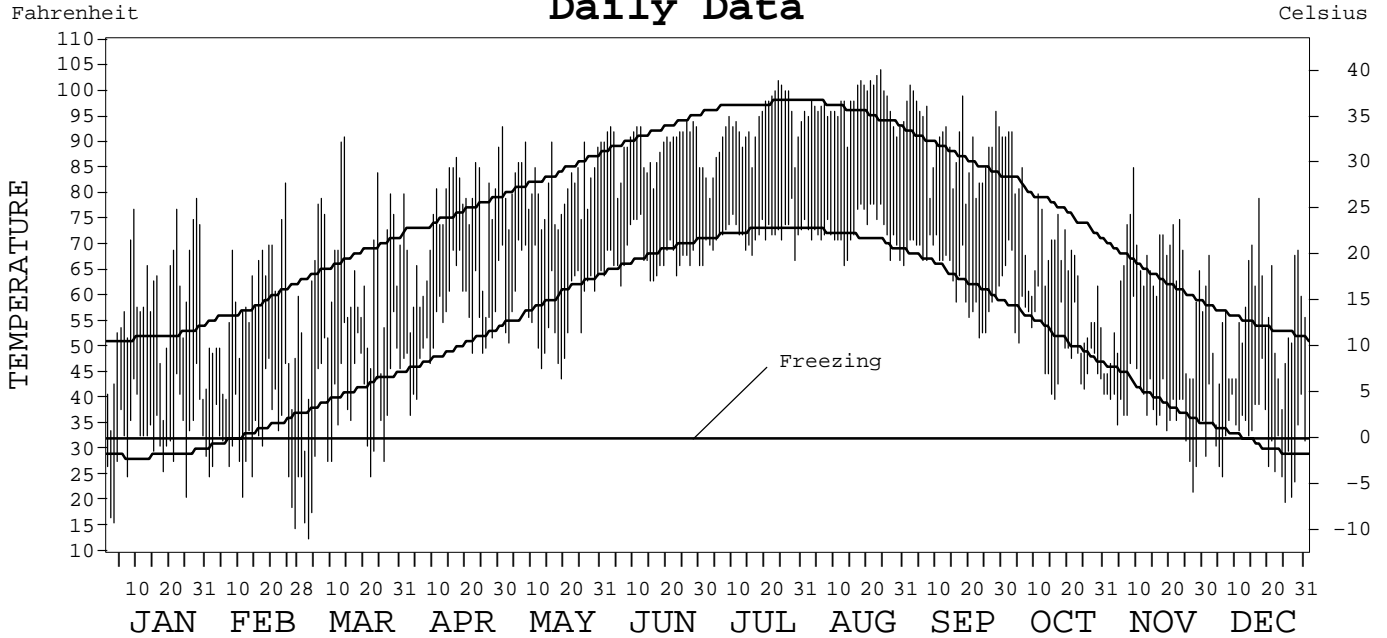
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-5248

WICHITA FALLS,  
TEXAS (SPS)

## Daily Data



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# METEOROLOGICAL DATA FOR 2002

## WICHITA FALLS, TX (SPS)

LATITUDE: 33° 58' 43" N      LONGITUDE: 98° 29' 34" W      ELEVATION (FT): GRND: 1010      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	58.1	57.7	63.9	74.2	81.8	89.3	92.5	97.4	90.0	68.0	62.9	55.4	74.3	
	HIGHEST DAILY MAXIMUM	79	82	91	89	93	94	102	104	101	92	85	79	104	
	DATE OF OCCURRENCE	28	24	14	30	01	28+	24	24	02	03+	09	17	AUG 24	
	MEAN DAILY MINIMUM	32.8	32.1	38.0	54.5	58.5	67.8	71.9	72.5	63.8	51.6	38.3	32.9	51.2	
	LOWEST DAILY MINIMUM	16	15	13	37	44	62	66	66	52	40	22	20	13	
	DATE OF OCCURRENCE	03	27	03	03	19	06	01	31+	23	16	27	25	MAR 03	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	38.3	37.8		59.8		70.5	73.4	72.4		55.2	43.7	39.2		
	MEAN DEW POINT	29.2	27.0		56.3		66.5	69.8	66.5		51.7	36.6	33.1		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	2	0	5	19	22	30	17	3	0	0	0	98
	MAXIMUM ≤ 32°	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	MINIMUM ≤ 32°	13	15	11	0	0	0	0	0	0	0	4	13	56	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	597	557	443	116	25	0	0	0	0	217	431	641	3027	
	COOLING DEGREE DAYS	0	0	14	101	193	414	540	623	364	65	8	0	2322	
RH	MEAN (PERCENT)	59	54	59	77	74	69	71	58	63	79	64	70	66	
	HOUR 00 LST	64	62	65	82	81	80	80	68	72	85	72	77	74	
	HOUR 06 LST	72	72	75	89	89	90	91	81	87	89	80	82	83	
	HOUR 12 LST	49	43	51	67	65	55	58	44	47	69	49	58	55	
	HOUR 18 LST	47	38	43	67	61	52	55	39	47	73	56	62	53	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	1	0	1	1	0	0	0	0	4	0	3	10	
	THUNDERSTORMS	0	1	3	6	7	5	9	5	5	6	0	2	49	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	28.98	29.09	28.94	28.88	28.85	28.85	28.90	28.88	28.86	28.94	29.02	28.96	28.93	
	MEAN SEA-LEVEL PRESS. (IN.)	30.09	30.19		29.95	29.92	29.90		29.93	29.92		30.12	30.06		
WINDS	RESULTANT SPEED (MPH)		0.9		3.9	5.0	5.9	4.3	3.1	1.5	3.9	2.4	2.2		
	RES. DIR. (TENS OF DEGS.)		26		14	13	11	17	14	09	07	27	26		
	MEAN SPEED (MPH)	11.4	11.8	13.8	12.6	12.6	11.5	9.8	10.6	8.8	9.5	10.9	10.8	11.2	
	PREVAIL. DIR. (TENS OF DEGS.)	17	17	17	17	15	16	17	16	11	02	21	20	17	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	36	41	41	47	40	69	40	48	29	35	33	32	69	
	DIR. (TENS OF DEGS.)	02	33	33	33	15	36	34	01	24	02	02	24	36	
	DATE OF OCCURRENCE	10	26	09	13	27	15	12	27	18	12	24+	21	JUN 15	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	40	46	48	54	46	83	48	61	43	41	41	40	83	
DIR. (TENS OF DEGS.)	02	33	32	33	15	34	34	01	26	02	24	24	34		
DATE OF OCCURRENCE	10	26	09	13	27	15	12	27	18	12	09	21	JUN 15		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.65	0.70	1.22	2.08	1.07	2.82	1.17	0.15	1.97	2.72	0.48	0.73	2.82	
	DATE OF OCCURRENCE	04-05	19	29-30	25-26	27-28	04-05	29	27	08	07-08	02	03	JUN 04-05	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	5	4	7	8	7	6	9	1	4	13	3	5	72	
PRECIPITATION ≥ 0.10	3	2	4	6	3	5	5	1	3	7	2	3	44		
PRECIPITATION ≥ 1.00	0	0	2	2	1	3	1	0	1	1	0	0	11		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)												T		
	GREATEST 24-HOUR (IN.)												T		
	DATE OF OCCURRENCE												24+		
	MAXIMUM SNOW DEPTH (IN.)												0		
	NUMBER OF DAYS WITH:												0		
SNOWFALL ≥ 1.0												0			

# NORMALS, MEANS, AND EXTREMES

## WICHITA FALLS, TX (SPS)

LATITUDE: 33° 58' 43" N      LONGITUDE: 98° 29' 34" W      ELEVATION (FT): GRND: 1010      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	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	38	52.5	57.8	66.7	76.2	83.9	92.3	98.0	96.5	88.0	76.9	64.3	55.1	75.7
	HIGHEST DAILY MAXIMUM	55	87	93	100	102	110	117	114	113	111	102	89	88	117
	YEAR OF OCCURRENCE		1969	1996	1971	1972	2000	1980	1980	1964	2000	2000	1988	1954	JUN 1980
	MEAN OF EXTREME MAXS.	54	75.6	80.7	87.4	91.9	97.4	101.9	105.2	105.3	100.7	93.2	82.8	76.9	91.6
	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	38	29.0	33.0	40.6	50.0	59.3	67.7	72.4	71.1	63.5	51.9	40.2	31.5	50.9
	LOWEST DAILY MINIMUM	55	-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.	54	12.4	16.5	22.6	33.7	45.6	57.6	64.1	61.9	48.9	36.5	24.6	16.1	36.7
	NORMAL DRY BULB	30	39.8	44.7	53.5	63.1	71.2	79.8	85.0	83.6	75.4	64.6	52.4	42.8	63.0
	MEAN DRY BULB	54	40.8	45.6	53.4	63.2	71.9	80.3	85.0	84.0	76.2	65.0	52.2	43.6	63.4
	MEAN WET BULB	51	35.2	39.3	45.5	54.4	63.2	69.5	71.5	70.6	65.6	56.6	45.6	37.5	54.5
	MEAN DEW POINT	51	27.9	31.6	37.2	47.1	57.6	64.5	65.3	64.3	59.8	50.1	38.7	30.3	47.9
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	*	0.9	2.5	8.3	20.8	28.0	26.7	14.5	3.6	0.0	0.0	105.3	
MAXIMUM ≤ 32°	30	3.6	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.8	7.3	
MINIMUM ≤ 32°	30	21.6	14.4	6.3	0.7	0.0	0.0	0.0	0.0	0.0	0.2	6.3	17.9	67.4	
MINIMUM ≤ 0°	30	0.1	*	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	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
RH	NORMAL (PERCENT)	30	66	66	61	62	66	64	56	58	66	65	68	68	64
	HOUR 00 LST	30	73	73	70	71	77	75	66	67	76	74	76	74	73
	HOUR 06 LST	30	80	80	79	80	86	85	78	80	86	84	83	80	82
	HOUR 12 LST	30	56	55	50	49	52	50	43	45	53	51	53	56	51
	HOUR 18 LST	30	55	52	46	46	50	47	39	41	51	54	58	60	50
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	58	2.2	2.1	1.0	0.7	0.6	0.2	0.1	0.1	0.5	1.1	1.4	2.1	12.1
	THUNDERSTORMS	58	1.0	1.5	3.4	5.3	9.0	7.3	5.3	5.5	4.3	3.4	1.7	0.9	48.6
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)	29	29.03	28.98	28.87	28.85	28.81	28.84	28.89	28.90	28.91	28.96	28.97	29.02	28.92
	MEAN SEA-LEVEL PRES. (IN)	51	30.14	30.08	29.97	29.92	29.89	29.88	29.93	29.97	30.03	30.07	30.11	29.99	
WINDS	MEAN SPEED (MPH)	37	11.1	11.5	12.6	12.8	12.2	11.6	11.0	10.0	10.1	10.5	11.4	10.9	11.3
	PREVAIL. DIR (TENS OF DEGS)	23	36	36	36	16	16	16	18	18	18	16	18	36	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	9	44	48	49	48	59	69	60	48	51	46	55	45	69
	DIR. (TENS OF DEGS)		32	28	31	33	02	36	33	01	33	14	15	34	36
	YEAR OF OCCURRENCE		1994	1994	2001	1994	2001	2002	2000	2002	1996	1994	1994	2000	JUN 2002
	MAXIMUM 5-SECOND:														
SPEED (MPH)	9	51	62	59	55	69	83	74	61	64	52	63	52	83	
DIR. (TENS OF DEGS)		32	27	24	33	02	34	27	01	33	17	15	34	34	
YEAR OF OCCURRENCE		1994	1994	1998	1999	2001	2002	1994	2002	1996	1996	1994	2000	JUN 2002	
PRECIPITATION	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)	58	4.48	4.55	6.29	8.50	13.22	8.60	11.86	7.61	10.23	7.86	5.69	6.93	13.22
	YEAR OF OCCURRENCE		1968	1990	1999	1957	1982	1989	1950	1971	1980	1972	1957	1991	MAY 1982
	MINIMUM MONTHLY (IN)	58	0.00	T	T	0.08	0.01	0.26	T	0.00	T	T	0.00	0.02	0.00
	YEAR OF OCCURRENCE		1986	1991	1956	1996	1966	2001	1943	2000	1983	1952	1949	1996	AUG 2000
	MAXIMUM IN 24 HOURS (IN)	58	2.11	3.00	4.32	4.09	5.70	5.36	3.93	4.62	6.22	5.61	2.58	2.98	6.22
	YEAR OF OCCURRENCE		1999	1981	1988	1967	1975	1985	1950	1971	1980	1959	1968	1991	SEP 1980
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	4.4	5.4	6.1	6.8	8.6	6.6	4.8	6.1	6.9	6.0	4.9	5.3	71.9	
PRECIPITATION ≥ 1.00	30	0.1	0.3	0.6	0.8	1.0	1.0	0.5	0.7	1.2	0.9	0.4	0.3	7.8	
SNOWFALL	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)	53	11.9	11.8	10.9	0.8	T	T	0.0	0.0	0.0	1.0	3.9	7.1	11.9
	YEAR OF OCCURRENCE		1966	1978	1989	1973	1990	1992				1993	1957	1983	JAN 1966
	MAXIMUM IN 24 HOURS (IN)	53	8.1	4.5	9.7	0.8	T	T	0.0	0.0	0.0	1.0	3.9	5.6	9.7
	YEAR OF OCCURRENCE		1985	1958	1989	1973	1990	1992				1993	1957	1983	MAR 1989
	MAXIMUM SNOW DEPTH (IN)	47	7	8	10	0	T	0	0	0	0	0	4	4	10
YEAR OF OCCURRENCE		1966	1985	1989		1951						1976	1983	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) 2002 WICHITA FALLS, TX (SPS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	2.74	1.08	3.89	3.51	0.74	5.17	4.51	0.05	5.31	1.93	1.68	0.08	30.69
1974	0.29	1.50	1.71	6.15	1.81	1.40	0.86	3.28	5.92	3.47	0.53	0.88	27.80
1975	0.91	1.71	1.57	2.94	9.66	1.69	3.41	3.46	3.65	0.82	1.31	1.86	32.99
1976	-0.01	0.10	1.90	5.39	2.28	2.18	3.98	2.42	8.06	6.02	0.30	1.00	33.62
1977	1.09	1.28	2.08	2.51	3.78	2.53	1.49	4.10	0.39	0.69	0.93	0.06	20.93
1978	0.41	1.96	3.53	0.61	3.51	3.10	0.27	4.16	2.16	1.07	2.14	0.65	23.57
1979	2.04	0.71	3.43	2.71	4.69	6.07	1.74	3.57	0.06	1.16	2.20	2.00	30.38
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	-0.01	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	-0.01	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
POR= 79 YRS	1.16	1.41	1.93	2.68	4.07	3.37	1.92	2.07	2.92	2.84	1.51	1.50	27.38

WBAN : 13966

AVERAGE TEMPERATURE (°F) 2002 WICHITA FALLS, TX (SPS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	37.7	44.1	58.0	57.7	68.3	76.5	82.8	83.2	74.4	67.7	57.7	44.8	62.7
1974	40.5	49.9	60.6	64.5	76.2	79.9	86.6	81.3	68.0	65.4	51.7	43.1	64.0
1975	43.9	42.4	51.2	62.3	71.6	79.3	81.8	82.7	71.0	65.7	54.0	45.3	62.6
1976	42.5	55.3	55.9	64.2	67.5	78.0	81.0	84.2	73.9	57.6	46.4	41.1	62.3
1977	31.7	48.4	55.8	63.3	72.9	82.7	85.8	83.2	81.5	65.5	53.3	44.0	64.0
1978	30.1	33.3	52.8	66.5	72.1	80.8	89.9	82.5	79.8	65.5	53.3	40.3	62.2
1979	30.7	38.1	54.4	62.1	70.0	79.5	85.1	82.4	75.6	68.6	49.8	46.7	61.9
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	64.8	47.2	45.2	63.1
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
POR= 79 YRS	41.5	46.2	54.0	63.7	72.1	80.7	85.4	84.9	76.6	65.9	52.7	43.9	64.0

HEATING DEGREE DAYS (base 65°F) 2002 WICHITA FALLS, TX (SPS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0	0	10	42	248	621	752	418	212	88	1	0	2392
1974-75	0	0	36	54	398	673	644	628	430	157	0	0	3020
1975-76	0	0	52	87	338	606	690	295	318	73	40	0	2499
1976-77	0	0	7	265	552	731	1023	459	281	80	1	0	3399
1977-78	0	0	0	64	345	645	1078	881	394	73	50	0	3530
1978-79	0	0	1	76	364	758	1056	750	343	130	47	0	3525
1979-80	0	0	0	57	464	563	682	649	460	162	18	0	3055
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	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-	0	0	0	217	431	641							

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COOLING DEGREE DAYS (base 65°F) 2002 WICHITA FALLS, TX (SPS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0	0	3	21	155	351	559	570	298	132	35	0	2124
1974	0	0	85	80	356	454	676	512	135	73	6	0	2377
1975	0	0	10	81	210	436	529	558	237	116	13	0	2190
1976	0	21	39	54	124	395	500	601	282	44	0	0	2060
1977	0	2	2	34	254	537	652	570	502	88	3	0	2644
1978	0	0	27	128	281	481	777	550	449	98	17	0	2808
1979	0	2	18	49	208	444	628	551	324	176	14	1	2415
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

SNOWFALL (inches) 2002 WICHITA FALLS, TX (SPS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0.0	0.0	0.0	0.0	0.0	0.5	T	T	0.0	0.0	0.0	0.0	0.5
1974-75	0.0	0.0	0.0	0.0	0.6	0.0	T	1.9	0.2	0.0	0.0	0.0	2.7
1975-76	0.0	0.0	0.0	0.0	0.5	2.3	T	T	0.0	0.0	0.0	0.0	2.8
1976-77	0.0	0.0	0.0	0.0	3.7	T	5.9	0.0	0.0	0.0	0.0	0.0	9.6
1977-78	0.0	0.0	0.0	0.0	T	0.0	1.9	11.8	T	0.0	0.0	0.0	13.7
1978-79	0.0	0.0	0.0	0.0	0.0	3.0	6.0	1.6	0.0	0.0	0.0	0.0	10.6
1979-80	0.0	0.0	0.0	0.0	0.0	T	T	3.6	T	0.0	0.0	0.0	3.6
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	
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-						T							
POR= 52 YRS	0.0	0.0	0.0	T	0.3	T	2.1	T	0.8	T	T	T	3.2

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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 (1961 - 1990). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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## 2002 WICHITA FALLS, TEXAS (SPS)

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 LOCATION

WICHITA FALLS, TEXAS

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE								AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS  REMARKS	
						SEA LEVEL		GROUND								HYGRO THERMOMETER
						GROUND	TEMPERATURE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING GAUGE BUCKET	WEIGHING RAIN GAGE			
*NOTE: <u>AIRPORT</u>																
Executive Building (Kell Field) Municipal Airport	2/01/55	6/23/60	225' N	33°59'	98°31'	1020	b31	6				5	5	a	a. Telepsychrometer (6') 4/19/55-12/1/60. Hygro. comm. 12/1/60 app. 6000' N of tele. site. b. Wind inst. moved 9/12/56 from roof to tower 600' W of prev. site. c. 1002 feet to 12/1/60. d. 70 feet to 4/24/61. e. Added 12/16/76. f. Minor move & type change 8/4/83. g. Type change 5/6/86.	
Transit Aircraft Bldg. Wichita Falls Air Terminal Municipal Airport	6/23/60	05/01/93	2 mi. SE	33°58'	98°29'	c994	d21	5	5		e4	4	4	a4 f5 g5		
Sheppard Air Force Base	05/01/93	Present	NA	33°59'	98°30'	h1010								S	ASOS commissioned 05/01/93 h. Ground elevation.	

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\* NOTES: For earlier station history see previous edition.