

1998

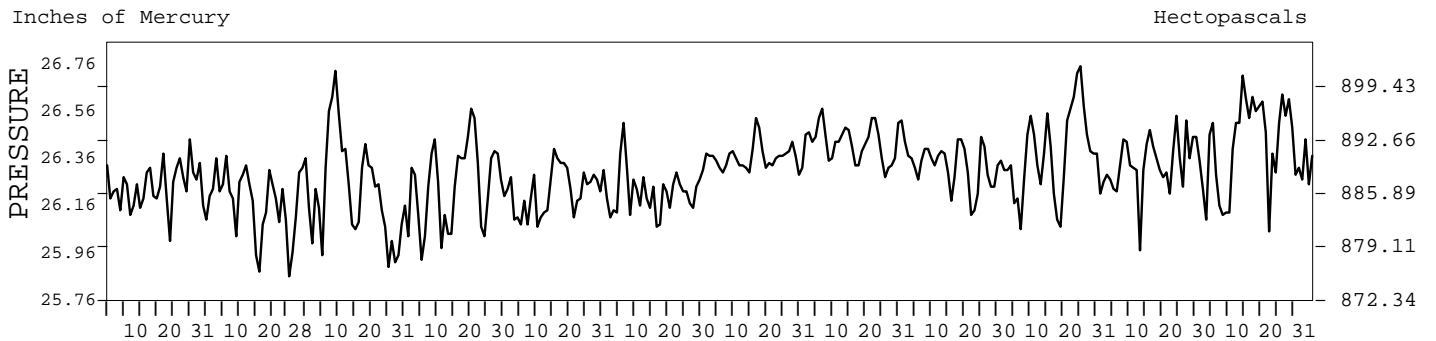
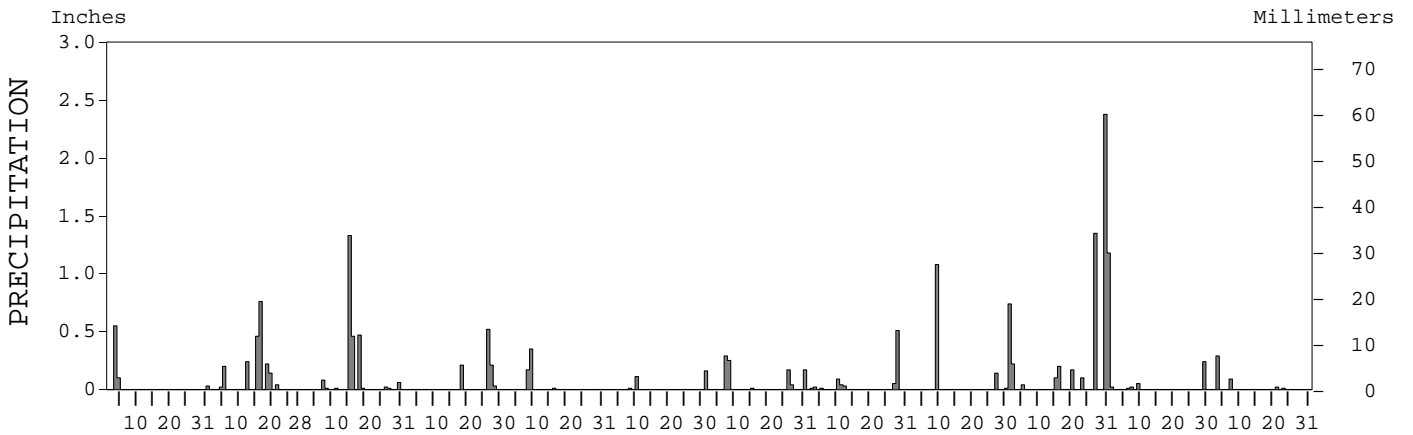
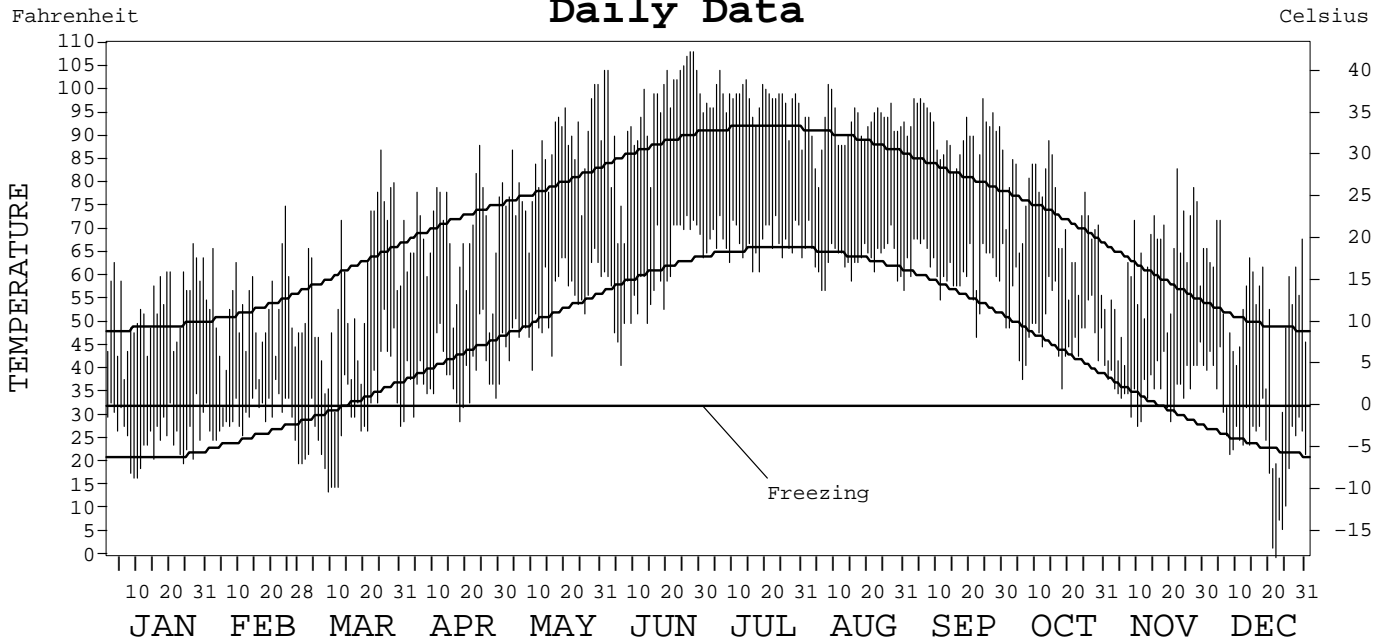
LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-4918

AMARILLO,  
TEXAS (AMA)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE	NATIONAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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# METEOROLOGICAL DATA FOR 1998

## AMARILLO, TX (AMA)

LATITUDE: 35° 13' 10" N      LONGITUDE: 101° 42' 20" W      ELEVATION (FT): GRND: 3604      BARO: 3591      TIME ZONE: CENTRAL (UTC+ 6)      WBAN: 23047

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	53.6	51.8	57.0	68.2	84.9	94.7	97.5	92.2	89.9	72.5	62.0	50.9	72.9	
	HIGHEST DAILY MAXIMUM	67	75	87	88	101	108	104	101	98	89	83	72	108	
	DATE OF OCCURRENCE	27	24	25	24	30+	28+	06	08	24+	14	22	05+	JUN 28+	
	MEAN DAILY MINIMUM	26.0	30.1	29.9	38.7	53.5	60.1	67.2	63.7	61.6	48.3	36.4	25.2	45.1	
	LOWEST DAILY MINIMUM	17	20	14	29	40	41	61	57	47	36	28	0	0	
	DATE OF OCCURRENCE	10+	28	09	18+	10	06	18+	31+	22	18	10	22	DEC 22	
	AVERAGE DRY BULB	39.8	41.0	43.5	53.5	69.2	77.4	82.4	78.0	75.8	60.4	49.2	38.1	59.0	
	MEAN WET BULB	32.8	35.7	36.5	43.1	56.4	58.7	66.3	64.4	62.2	52.1	41.8	31.8	48.5	
	MEAN DEW POINT	25.3	29.9	28.3	31.5	46.0	43.7	57.8	56.5	54.5	45.3	34.4	25.0	39.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	10	23	29	24	18	0	0	0	0	104
	MAXIMUM ≤ 32°	0	1	1	0	0	0	0	0	0	0	0	0	5	7
	MINIMUM ≤ 32°	27	19	18	4	0	0	0	0	0	0	6	25	99	
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	1	1	
H/C	HEATING DEGREE DAYS	774	667	664	343	39	21	0	13	180	469	828	3998		
	COOLING DEGREE DAYS	0	0	1	6	177	399	547	407	342	43	0	1922		
RH	MEAN (PERCENT)	66	73	64	50	50	37	49	54	54	64	64	67	58	
	HOUR 06 LST	80	88	81	71	76	60	73	78	73	81	80	79	77	
	HOUR 12 LST	53	62	52	37	38	25	32	37	40	50	48	55	44	
	HOUR 18 LST	52	56	44	32	30	20	33	34	38	51	58	58	42	
	HOUR 24 LST	75	83	72	60	58	45	59	64	63	73	74	72	66	
S	PERCENT POSSIBLE SUNSHINE	84	71		82	89	92	87		86	67	50	82		
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	6	9	7	0	1	0	0	0	0	3	1	1	28	
	THUNDERSTORMS	2	0	2	1	2	1	9	9	2	6	0	0	34	
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						27								
	PARTLY CLOUDY						3								
	CLOUDY						0								
PR	MEAN STATION PRESS. (IN.)	26.24	26.17	26.23	26.24	26.22	26.22	26.37	26.43	26.32	26.37	26.34	26.42	26.30	
	MEAN SEA-LEVEL PRESS. (IN.)	29.94	29.86	29.91	29.88	29.78	29.75	29.90	29.98	29.88	29.99	30.01			
WINDS	RESULTANT SPEED (MPH)	2.4	2.4	1.4	2.8	4.3	4.6	4.4	4.1	2.6	6.2	4.4	2.4	3.2	
	RES. DIR. (TENS OF DEGS.)	25	19	27	25	21	19	20	20	17	19	22	23	21	
	MEAN SPEED (MPH)	11.7	10.9	13.7	13.4	11.7	14.0	11.1	10.1	10.6	13.2	12.5	10.8	12.0	
	PREVAIL. DIR. (TENS OF DEGS.)	01	16	01	36	21	22	19	18	20	18	21	22	19	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	32	36	38	41	33	39	37	30	39	37	44	30	44	
	DIR. (TENS OF DEGS.)	21	25	21	24	11	22	08	03	18	24	23	22	23	
	DATE OF OCCURRENCE	19	25	29	02	08	13	12	27	09	28	09	28+	NOV 09	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	36	44	45	49	40	45	44	34	48	44	49	36	49	
DIR. (TENS OF DEGS.)	20	24	22	24	17	23	28	03	18	24	22	22	22		
	DATE OF OCCURRENCE	19	25	29+	02	13+	13	08	27	09	28	09	18+	NOV 09	
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.68	2.08	2.46	0.97	0.53	0.12	1.09	0.76	1.23	6.48	0.34	0.41	17.15	
	GREATEST 24-HOUR (IN.)	0.65	0.76	1.36	0.69	0.52	0.11	0.46	0.56	1.08	3.36	0.24	0.29	3.36	
	DATE OF OCCURRENCE	03-04	16	15-16	26-27	08-09	10	07-08	27-28	09	30-31	29	03	OCT 30-31	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	3	8	10	4	3	2	7	8	3	10	5	4	67	
PRECIPITATION ≥ 0.10	2	6	3	3	2	1	5	1	2	9	1	1	36		
PRECIPITATION ≥ 1.00	0	0	1	0	0	0	0	0	1	3	0	0	5		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	T	10.4	4.4	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	15.8	
	GREATEST 24-HOUR (IN.)	T	6.2	3.6	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	6.2	
	DATE OF OCCURRENCE	13+	16	16	27+								07	FEB 16	
	MAXIMUM SNOW DEPTH (IN.)	T	4	4	T	0	0	0	0	0	0	0	T	4	
	DATE OF OCCURRENCE	01	16	17	15								23	MAR 17	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	0	3	1	0	0	0	0	0	0	0	0	0	4		

# NORMALS, MEANS, AND EXTREMES

## AMARILLO, TX (AMA)

LATITUDE: 35° 13' 10" N      LONGITUDE: 101° 42' 20" W      ELEVATION (FT): GRND: 3604      BARO: 3591      TIME ZONE: CENTRAL (UTC+ 6)      WBAN: 23047

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	49.0	52.8	61.6	71.5	79.1	87.6	91.7	89.1	81.8	72.5	59.7	50.1	70.5
	MEAN DAILY MAXIMUM	58	48.9	53.1	61.1	70.7	78.9	87.9	91.2	90.9	83.9	73.8	60.0	51.7	71.0
	HIGHEST DAILY MAXIMUM	57	81	88	94	98	103	108	105	106	102	95	87	81	108
	YEAR OF OCCURRENCE		1950	1963	1971	1989	1996	1998	1994	1944	1983	1954	1980	1955	JUN 1998
	MEAN OF EXTREME MAXS.	50	71.3	75.5	82.2	88.9	94.1	100.2	99.8	98.4	94.6	89.1	78.7	72.2	87.1
	NORMAL DAILY MINIMUM	30	21.2	25.5	32.7	42.1	51.6	60.7	65.5	63.8	56.4	44.5	32.3	23.7	43.3
	MEAN DAILY MINIMUM	58	21.8	26.1	32.0	41.7	51.7	61.1	65.5	64.1	56.7	45.3	32.0	24.6	43.5
	LOWEST DAILY MINIMUM	57	-11	-14	-3	14	28	41	51	49	30	12	0	-8	-14
	YEAR OF OCCURRENCE		1984	1951	1948	1945	1954	1998	1990	1956	1984	1993	1976	1989	FEB 1951
	MEAN OF EXTREME MINS.	50	3.3	8.2	14.3	26.7	37.7	50.0	58.0	56.3	42.7	30.1	15.8	7.4	29.2
	NORMAL DRY BULB	30	35.1	39.2	47.1	56.8	65.4	74.1	78.6	76.5	69.1	58.5	46.0	36.9	56.9
	MEAN DRY BULB	58	35.4	39.6	46.6	56.3	65.3	74.5	78.5	76.8	69.5	58.9	45.6	37.7	57.1
	MEAN WET BULB	53	28.9	32.5	37.5	45.1	54.3	62.1	65.1	64.4	58.6	48.5	37.3	30.7	47.1
	MEAN DEW POINT	53	19.4	22.9	25.8	33.6	45.6	55.0	58.5	58.5	52.0	39.8	28.4	21.8	38.4
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.1	1.0	4.7	12.8	21.1	16.5	6.4	1.0	0.0	0.0	63.6	
MAXIMUM ≤ 32°	30	4.5	2.8	0.9	*	0.0	0.0	0.0	0.0	0.0	*	0.8	3.6	12.6	
MINIMUM ≤ 32°	30	27.5	21.8	14.7	3.5	0.1	0.0	0.0	0.0	0.2	1.8	14.5	26.7	110.8	
MINIMUM ≤ 0°	30	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.7	2.2	
H/C	NORMAL HEATING DEG. DAYS	30	927	722	555	266	89	6	0	0	26	226	570	871	4258
	NORMAL COOLING DEG. DAYS	30	0	0	0	20	102	279	422	357	149	25	0	0	1354
RH	NORMAL (PERCENT)	30	58	59	52	48	54	56	53	58	61	56	59	59	56
	HOUR 06 LST	30	64	65	58	56	63	65	61	67	70	64	66	66	64
	HOUR 12 LST	30	70	72	68	68	74	77	74	78	80	73	72	70	73
	HOUR 18 LST	30	49	50	42	38	43	45	42	46	49	43	47	49	45
	HOUR 24 LST	30	46	43	35	31	37	39	38	43	45	42	48	50	41
S	PERCENT POSSIBLE SUNSHINE	56	69	69	74	76	72	78	79	77	74	76	72	68	74
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	56	3.2	4.1	3.3	1.9	2.1	0.7	0.5	0.7	2.0	2.5	2.8	2.7	26.5
	THUNDERSTORMS	56	0.2	0.5	1.6	3.3	8.1	9.3	9.2	8.7	4.1	2.5	0.6	0.2	48.3
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1	3.2	4.4	4.0	3.7	4.0	2.0	2.0	2.9	4.0	3.6	3.2	2.4	3.3
	MIDNIGHT-MIDNIGHT (OKTAS)	1	3.2	4.4	4.0	3.6	4.0	1.6	2.0	3.2	1.6	3.2	2.8	2.4	3.0
	MEAN NO. DAYS WITH:														
	CLEAR	3	7.7	9.7	11.0	12.0	11.0	17.8	17.0	15.5	9.5	12.0	10.0	13.0	146.2
	PARTLY CLOUDY	3	5.0	3.7	3.3	4.3	5.3	4.7	3.0	2.5	1.0	2.5	3.0	5.0	43.3
	CLOUDY	3	4.7	6.0	3.3	4.7	5.7	1.5	2.0	3.5	1.5	4.0	3.5	3.5	43.9
PR	MEAN STATION PRESSURE (IN)	25	26.35	26.31	26.23	26.25	26.25	26.30	26.37	26.38	26.37	26.37	26.33	26.35	26.32
	MEAN SEA-LEVEL PRES. (IN)	53	30.07	30.02	29.91	29.87	29.85	29.84	29.91	29.92	29.95	29.99	30.03	30.06	29.95
WINDS	MEAN SPEED (MPH)	34	12.7	13.4	14.7	14.7	14.1	13.7	12.4	11.3	12.4	12.5	12.8	12.6	13.1
	PREVAIL. DIR (TENS OF DEGS)	20	23	36	21	18	18	18	18	18	18	21	22	36	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	6	45	48	47	52	43	60	48	44	40	40	45	51	60
	DIR. (TENS OF DEGS)		02	02	03	02	01	03	03	03	02	02	03	03	03
	YEAR OF OCCURRENCE		1996	1993	1997	1994	1993	1994	1994	1996	1994	1996	1994	1993	JUN 1994
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	6	54	55	53	62	49	68	53	53	52	61	52	57	68
DIR. (TENS OF DEGS)		02	02	04	02	02	03	03	03	02	02	03	03	03	
YEAR OF OCCURRENCE		1996	1993	1997	1994	1996	1994	1994	1993	1994	1996	1994	1993	JUN 1994	
PRECIPITATION	NORMAL (IN)	30	0.50	0.61	0.96	0.99	2.48	3.70	2.62	3.22	1.99	1.37	0.69	0.43	19.56
	MAXIMUM MONTHLY (IN)	57	2.33	2.08	3.99	6.45	9.81	10.73	7.59	7.55	5.02	7.64	2.26	4.52	10.73
	YEAR OF OCCURRENCE		1968	1998	1973	1997	1951	1965	1960	1974	1950	1941	1961	1959	JUN 1965
	MINIMUM MONTHLY (IN)	57	0.00	T	T	T	0.04	0.01	0.12	0.28	0.03	0.00	0.00	T	0.00
	YEAR OF OCCURRENCE		1986	1991	1950	1964	1984	1953	1946	1983	1977	1952	1989	1976	NOV 1989
	MAXIMUM IN 24 HOURS (IN)	57	1.74	1.28	2.27	1.99	6.75	6.15	4.74	4.26	3.42	3.45	1.53	3.11	6.75
	YEAR OF OCCURRENCE		1968	1971	1973	1985	1951	1960	1982	1945	1941	1948	1980	1943	MAY 1951
	NORMAL NO. DAYS WITH:														
	PRECIPITATION ≥ 0.01	30	3.9	4.4	5.2	4.9	7.9	8.9	7.7	8.7	6.5	4.7	3.6	4.1	70.5
PRECIPITATION ≥ 1.00	30	*	0.1	0.1	0.1	0.5	0.9	0.7	0.9	0.5	0.2	*	0.0	4.0	
SNOWFALL	NORMAL (IN)	30	3.8	4.6	2.9	0.6	0.*	0.0	0.0	0.0	0.*	0.3	1.9	2.8	16.9
	MAXIMUM MONTHLY (IN)	57	14.5	17.3	14.7	6.5	0.5	T	T	0.0	0.3	3.9	13.6	15.3	17.3
	YEAR OF OCCURRENCE		1983	1971	1961	1997	1978	1992	1994	1984	1976	1952	1987	1987	FEB 1971
	MAXIMUM IN 24 HOURS (IN)	57	10.2	13.5	9.8	6.5	0.5	T	T	0.0	0.3	3.2	12.2	11.3	13.5
	YEAR OF OCCURRENCE		1994	1971	1957	1997	1978	1992	1994	1994	1984	1976	1952	1987	FEB 1971
	MAXIMUM SNOW DEPTH (IN)	53	10	14	10	6	T	T	0	0	T	1	9	13	14
	YEAR OF OCCURRENCE		1987	1983	1957	1973	1988	1949			1984	1970	1952	1987	FEB 1983
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	1.4	1.3	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.8	5.4	

PRECIPITATION (inches) 1998 AMARILLO, TX (AMA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0.02	0.50	1.15	0.30	2.93	4.09	2.55	4.51	2.77	2.56	0.34	0.83	22.55
1970	0.02	0.02	2.10	1.33	0.23	1.54	1.39	1.27	0.34	1.06	0.26	T	9.56
1971	0.10	1.65	0.10	0.77	0.91	4.17	1.75	3.33	4.70	2.59	2.08	0.89	23.04
1972	0.21	0.11	0.11	0.03	2.81	3.87	2.59	1.73	0.71	1.66	1.19	0.32	15.34
1973	0.56	0.42	3.99	1.88	1.43	0.84	4.08	2.31	1.22	1.05	0.10	0.17	18.05
1974	0.33	0.24	0.60	0.04	4.06	3.33	1.31	7.55	1.65	3.44	0.12	0.42	23.09
1975	0.28	1.33	0.51	1.02	2.47	4.15	5.19	3.97	0.76	0.33	0.92	0.15	21.08
1976	T	0.10	0.79	1.65	1.36	2.94	1.77	1.78	4.28	1.14	0.43	T	16.24
1977	0.64	0.53	0.24	2.74	4.01	2.06	3.14	4.94	0.03	0.26	0.32	0.27	19.18
1978	0.63	0.80	0.21	0.55	5.76	6.50	1.82	1.61	2.42	0.97	0.47	0.27	22.01
1979	0.92	0.28	1.46	1.29	3.94	3.19	2.03	5.08	0.52	1.28	0.40	0.07	20.46
1980	0.85	0.55	1.38	0.82	2.88	1.30	0.65	1.80	1.55	0.42	0.84	0.35	13.39
1981	0.11	0.23	1.87	0.90	2.11	1.04	2.73	5.22	3.47	1.79	1.50	0.03	21.00
1982	0.15	0.39	0.52	0.43	1.96	4.75	6.23	0.55	1.37	0.71	0.75	0.79	18.60
1983	1.78	1.19	0.98	0.83	2.85	1.76	0.74	0.28	0.37	3.23	0.33	0.64	14.98
1984	0.56	0.37	0.98	1.18	0.04	6.76	0.83	2.28	0.95	3.19	1.09	1.00	19.23
1985	0.99	0.77	1.49	2.79	0.86	3.08	2.07	1.67	4.96	3.07	0.39	0.26	22.40
1986	0.00	1.02	0.60	0.30	3.28	3.70	3.52	7.04	1.45	1.94	1.82	0.66	25.33
1987	1.26	0.84	0.92	0.57	4.28	3.29	0.83	3.28	3.40	1.17	0.43	1.75	22.02
1988	0.33	0.04	1.19	2.22	6.02	3.68	3.30	3.59	3.15	0.71	0.29	0.17	24.69
1989	0.16	0.55	0.52	0.75	2.51	6.07	2.74	3.22	1.80	0.74	0.00	0.49	19.55
1990	1.22	1.61	2.56	1.10	0.90	0.14	3.28	2.79	2.72	0.46	0.50	0.23	17.51
1991	0.86	T	0.41	0.04	3.08	2.47	2.20	1.28	2.04	0.64	0.66	2.24	15.92
1992	0.50	0.30	1.11	1.60	3.10	7.57	2.36	2.27	0.16	0.31	0.80	0.55	20.63
1993	0.76	0.36	1.29	0.35	1.92	2.76	3.36	4.64	1.00	0.53	0.51	0.95	18.43
1994	1.01	0.07	1.22	1.15	1.41	1.26	5.01	2.86	2.02	0.46	0.58	0.30	17.35
1995	0.32	T	0.80	0.83	4.94	2.71	2.85	2.18	2.62	0.45	0.06	0.59	18.35
1996	0.07	0.26	0.24	T	1.67	2.92	4.95	6.43	1.86	0.84	1.30	0.05	20.59
1997	0.64	0.47	0.01	6.45	2.16	2.93	5.51	1.40	1.35	0.74	1.17	2.12	24.95
1998	0.68	2.08	2.46	0.97	0.53	0.12	1.09	0.76	1.23	6.48	0.34	0.41	17.15
POR= 59 YRS	0.55	0.57	0.89	1.22	2.75	3.29	2.83	3.00	1.88	1.61	0.64	0.66	19.89

WBAN : 23047

AVERAGE TEMPERATURE (°F) 1998 AMARILLO, TX (AMA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	41.4	40.4	38.8	59.9	67.2	72.8	82.6	80.2	71.1	54.5	46.7	38.4	57.8
1970	33.2	43.2	41.7	56.0	68.8	74.5	80.7	79.1	70.9	54.0	46.6	43.4	57.7
1971	37.8	38.8	48.3	55.7	64.9	75.9	76.9	72.2	67.1	57.2	45.6	37.6	56.5
1972	35.7	40.9	51.7	59.5	63.2	73.6	74.5	73.9	69.2	57.9	36.9	32.9	55.8
1973	33.4	39.5	47.1	50.3	62.9	75.1	78.1	78.8	68.7	62.0	50.8	38.6	57.1
1974	35.0	42.2	53.1	60.2	71.5	75.0	79.3	73.6	62.9	59.0	45.7	36.1	57.8
1975	37.1	35.3	45.0	54.9	64.5	73.3	75.5	76.7	65.8	61.1	45.8	40.4	56.3
1976	36.9	47.8	46.5	56.8	60.2	72.2	74.8	75.1	66.5	49.9	38.5	37.5	55.2
1977	30.1	43.8	48.7	57.8	67.3	78.1	80.7	77.5	74.3	60.7	47.4	39.9	58.9
1978	29.0	30.1	47.2	61.4	63.7	75.4	80.7	76.1	70.7	59.4	45.6	32.7	56.0
1979	24.9	40.0	46.6	54.5	62.2	70.9	77.1	73.6	69.8	60.1	40.5	38.8	54.9
1980	34.9	37.7	43.9	52.4	61.9	78.3	82.9	78.5	70.7	56.6	42.7	41.4	56.8
1981	37.9	42.2	48.8	63.1	65.6	78.5	81.3	74.4	69.0	56.6	49.1	40.1	58.9
1982	37.1	35.9	47.3	53.8	63.3	72.2	78.8	78.7	71.1	57.3	45.6	36.1	56.4
1983	33.4	36.2	45.3	50.9	60.3	70.4	80.0	81.0	73.6	60.5	47.9	24.7	55.4
1984	31.6	40.3	44.0	51.8	66.9	74.6	75.6	75.3	65.7	56.9	47.0	40.5	55.9
1985	31.5	37.2	49.5	60.0	68.1	75.1	80.1	79.6	68.9	56.9	43.5	34.0	57.0
1986	42.5	40.4	52.7	59.4	65.1	73.3	80.6	74.4	68.8	55.7	42.7	37.1	57.7
1987	34.0	42.0	44.6	54.8	64.5	72.1	77.2	75.3	67.6	57.9	45.4	34.6	55.8
1988	32.2	38.3	44.3	54.1	63.6	73.3	75.8	76.4	67.7	59.0	47.6	38.5	55.9
1989	40.7	32.3	51.2	59.9	67.3	69.4	76.2	76.0	66.3	60.4	47.9	31.4	56.6
1990	39.2	40.8	47.0	55.9	63.6	81.3	76.4	76.3	72.0	57.7	49.7	33.2	57.8
1991	32.6	45.9	49.7	58.2	68.5	74.7	76.5	76.2	67.1	58.5	41.2	39.0	57.3
1992	38.0	45.0	50.6	58.7	63.3	70.8	76.6	73.5	70.2	60.1	39.3	34.2	56.7
1993	33.1	36.0	46.1	54.4	64.5	74.0	79.1	74.9	67.9	54.6	40.9	38.7	55.4
1994	36.5	37.6	48.9	55.0	65.2	79.4	77.4	75.9	69.1	58.2	46.5	41.7	57.6
1995	39.2	43.9	47.4	53.9	61.6	70.8	77.2	78.2	67.9	58.2	48.2	38.4	57.1
1996	34.9	43.1	44.2	56.9	72.5	75.6	77.1	74.4	65.9	57.6	45.7	39.7	57.3
1997	35.3	38.8	50.3	48.9	63.2	71.6	77.9	75.0	71.9	58.2	42.8	33.5	55.6
1998	39.8	41.0	43.5	53.5	69.2	77.4	82.4	78.0	75.8	60.4	49.2	38.1	59.0
POR= 59 YRS	35.5	39.8	46.7	56.4	65.3	74.5	78.5	76.9	69.5	58.9	45.6	37.7	57.1

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HEATING DEGREE DAYS (base 65°F) 1998 AMARILLO, TX (AMA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0	0	1	374	543	817	981	602	713	280	50	33	4394
1970-71	0	0	47	359	544	661	837	726	524	290	89	0	4077
1971-72	1	0	120	245	575	843	900	692	409	203	106	0	4094
1972-73	13	2	48	274	833	987	972	706	548	438	113	0	4934
1973-74	0	0	56	154	420	813	922	633	368	190	17	0	3573
1974-75	0	0	119	199	571	890	853	826	612	323	67	16	4476
1975-76	0	0	104	158	569	757	861	492	567	253	171	0	3932
1976-77	0	0	59	464	790	846	1075	592	499	215	22	0	4562
1977-78	0	0	1	150	522	768	1107	972	551	136	139	6	4352
1978-79	0	0	33	197	574	992	1236	697	561	319	144	30	4783
1979-80	0	2	28	186	727	806	926	788	649	373	146	0	4631
1980-81	0	0	35	280	662	723	832	630	496	111	65	0	3834
1981-82	0	0	26	271	469	765	849	803	534	340	96	2	4155
1982-83	0	0	23	252	575	888	972	800	603	421	171	32	4737
1983-84	0	0	40	175	506	1241	1028	709	642	390	56	0	4787
1984-85	0	0	125	262	531	752	1034	769	474	169	37	5	4158
1985-86	0	0	111	249	640	957	691	681	379	203	72	0	3983
1986-87	0	2	26	290	665	858	954	634	624	315	70	9	4447
1987-88	0	8	18	226	584	936	1010	765	633	323	102	4	4609
1988-89	0	7	32	197	517	815	747	909	429	219	59	27	3958
1989-90	0	0	91	185	507	1037	795	672	551	276	140	0	4254
1990-91	0	0	11	234	454	981	994	529	467	208	53	1	3932
1991-92	0	0	71	258	709	798	833	576	437	203	98	10	3993
1992-93	0	0	21	171	765	949	984	808	577	317	82	5	4679
1993-94	0	2	39	332	717	810	875	760	499	309	78	0	4421
1994-95	0	0	31	228	553	716	792	583	547	333	146	13	3942
1995-96	0	1	89	217	497	813	926	634	636	250	21	0	4084
1996-97	3	0	70	251	571	775	917	728	447	476	99	2	4339
1997-98	0	4	35	259	661	967	774	667	664	343	39	21	4434
1998-	0	0	13	180	469	828							

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COOLING DEGREE DAYS (base 65°F) 1998 AMARILLO, TX (AMA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	0	30	147	264	550	478	190	54	0	0	1713
1970	0	0	0	14	176	327	495	446	231	24	0	0	1713
1971	0	0	13	18	94	334	381	232	189	10	0	0	1271
1972	0	0	4	44	59	265	313	285	182	60	0	0	1212
1973	0	0	0	3	53	310	414	435	173	67	1	0	1456
1974	0	0	6	52	228	306	449	274	61	20	0	0	1396
1975	0	0	0	24	61	273	330	367	134	46	0	0	1235
1976	0	0	0	13	32	223	312	318	110	5	0	0	1013
1977	0	0	0	10	100	399	493	389	287	22	0	0	1700
1978	0	0	6	33	108	324	497	351	209	28	0	0	1556
1979	0	0	0	12	64	218	380	276	177	41	0	0	1168
1980	0	0	0	4	58	408	562	429	211	26	0	0	1698
1981	0	0	1	59	87	410	512	299	154	16	0	0	1538
1982	0	0	0	9	52	225	437	432	213	22	0	0	1390
1983	0	0	0	2	31	201	473	502	306	41	3	0	1559
1984	0	0	0	1	121	298	331	325	151	17	0	0	1244
1985	0	0	2	27	143	315	473	458	235	6	0	0	1659
1986	0	0	3	45	87	256	489	299	144	10	0	0	1333
1987	0	0	0	19	64	227	386	334	105	11	0	0	1146
1988	0	0	0	3	67	263	340	366	120	19	0	0	1178
1989	0	0	10	75	136	164	354	347	138	51	0	0	1275
1990	0	0	0	9	101	494	359	358	229	17	1	0	1568
1991	0	0	0	12	166	298	364	358	144	66	0	0	1408
1992	0	0	0	19	52	188	366	271	186	25	0	0	1107
1993	0	0	0	6	77	283	443	315	134	15	0	0	1273
1994	0	0	6	18	91	439	392	345	159	24	4	0	1478
1995	0	0	9	7	47	194	388	419	182	13	0	0	1259
1996	0	5	0	14	260	325	386	297	103	27	0	0	1417
1997	0	0	0	0	49	205	407	320	247	55	0	0	1283
1998	0	0	1	6	177	399	547	407	342	43	0	0	1922

SNOWFALL (inches) 1998 AMARILLO, TX (AMA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0.0	0.0	0.0	0.0	T	7.1	0.1	T	14.1	1.8	0.0	0.0	23.1
1970-71	0.0	0.0	0.0	3.9	2.6	T	0.8	17.3	1.0	T	0.0	0.0	25.6
1971-72	0.0	0.0	0.0	0.0	T	7.9	1.6	2.0	0.6	0.0	0.0	0.0	12.1
1972-73	0.0	0.0	0.0	0.4	9.9	2.8	7.0	4.2	0.5	5.7	0.0	0.0	30.5
1973-74	0.0	0.0	0.0	0.0	0.4	1.5	3.6	1.2	T	0.0	0.0	0.0	6.7
1974-75	0.0	0.0	0.0	0.0	T	1.5	3.8	11.7	1.2	T	0.0	0.0	18.2
1975-76	0.0	0.0	0.0	0.0	0.4	1.8	T	T	4.2	0.0	0.0	0.0	6.4
1976-77	0.0	0.0	0.0	3.9	4.3	T	6.4	3.7	T	T	0.0	0.0	18.3
1977-78	0.0	0.0	0.0	0.0	1.3	0.2	8.2	9.4	1.5	T	0.5	0.0	21.1
1978-79	0.0	0.0	0.0	0.0	2.0	3.3	5.9	1.9	T	T	0.0	0.0	13.1
1979-80	0.0	0.0	0.0	1.6	2.2	0.3	1.4	5.2	1.0	T	0.0	0.0	11.7
1980-81	0.0	0.0	0.0	0.0	8.6	T	1.1	0.1	0.1	0.0	0.0	0.0	9.9
1981-82	0.0	0.0	0.0	0.0	T	0.3	1.1	4.7	1.7	T	0.0	0.0	7.8
1982-83	0.0	0.0	0.0	0.0	4.5	1.9	14.5	13.0	8.1	5.9	0.0	0.0	47.9
1983-84	0.0	0.0	0.0	0.0	T	5.2	7.0	3.5	2.5	0.0	0.0	0.0	18.2
1984-85	0.0	0.0	0.3	0.0	0.1	0.3	7.4	0.3	0.2	0.0	0.0	0.0	8.6
1985-86	0.0	0.0	T	0.0	T	2.8	0.0	10.9	1.0	0.0	0.0	0.0	14.7
1986-87	0.0	0.0	0.0	T	0.2	3.3	12.1	3.1	6.4	0.1	0.0	0.0	25.2
1987-88	0.0	0.0	0.0	0.0	0.7	15.3	4.3	0.5	8.5	4.2	0.0	0.0	33.5
1988-89	0.0	0.0	0.0	0.0	2.4	2.2	T	0.1	4.2	0.1	T	T	9.0
1989-90	0.0	0.0	T	0.0	0.0	5.4	8.5	3.0	0.0	0.0	0.0	0.0	16.9
1990-91	0.0	0.0	0.0	0.0	2.2	3.8	5.0	T	1.0	0.0	T	T	12.0
1991-92	0.0	0.0	T	3.2	T	2.0	1.0	0.2	T	0.3	T	T	6.7
1992-93	0.0	0.0	0.0	T	9.0	10.0	2.5	2.2	2.1	T	T	0.0	25.8
1993-94	0.0	0.0	0.0	T	T	0.5	10.2	T	3.0	T	0.0	0.0	13.7
1994-95	T	0.0	0.0	0.0	T	0.0	3.7	T	2.3	0.0	0.0	0.0	6.0
1995-96	T	0.0	T	0.0	0.5	2.7	1.1	4.6	0.1	0.0	T	0.0	9.0
1996-97	T	0.0	0.0	1.5	8.0	1.1	10.8	2.0	0.0	6.5	0.0	T	29.9
1997-98	T	0.0	0.0	T	5.4	10.9	T	10.4	4.4	T	0.0	0.0	31.1
1998-	0.0	0.0	0.0	0.0	0.0	1.0							
POR= 59 YRS	0.3	0.1	0.0	0.2	1.8	2.8	3.9	3.5	2.5	0.7	0.1	0.0	15.9

WBAN : 23047

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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1998  
AMARILLO,  
TEXAS (AMA)

The station is located 7 statute miles east northeast of the downtown post office in a region of rather flat topography. The Canadian River flows eastward 18 miles north of the station, with its bed about 800 feet below the plains. The Prairie Dog Town Fork of the Red River flows southeastward about 15 miles south of the station where it enters the Palo Duro Canyon, which is about 1,000 feet deep. There are numerous shallow Playa lakes, often dry, over the area, and the nearly treeless grasslands slope downward to the east. The terrain gradually rises to the west and northwest.

Three-fourths of the total annual precipitation falls from April through September, occurring from thunderstorm activity. Snow usually melts within a few days after it falls. Heavier snowfalls of 10 inches or more, usually with near blizzard conditions, average once every 5 years and last 2 to 3 days.

The Amarillo area is subject to rapid and large temperature changes, especially during the winter months when cold fronts from the northern Rocky Mountain and Plains states sweep across the area. Temperature drops of 50 to 60 degrees within a 12-hour period are not uncommon. Temperature drops of 40 degrees have occurred within a few minutes.

Humidity averages are low, occasionally dropping below 20 percent in the spring. Low humidity moderates the effect of high summer afternoon temperatures, permits evaporative cooling systems to be very effective, and provides many pleasant evenings and nights.

Severe local storms are infrequent, although a few thunderstorms with damaging hail, lightning, and wind in a very localized area occur most years, usually in spring and summer. These storms are often accompanied by very heavy rain, which produces local flooding, particularly of roads and streets. Tornadoes are rare.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 29 and the average last occurrence in the spring is April 14.

# STATION LOCATION

AMARILLO, TEXAS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE											* Type	REMARKS
						SEA LEVEL	GROUND											
							WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND		
<u>CITY</u>																		
NW corner Polk and Fifth Streets	1/1/92	5/1/02	NA	35°13'	101°50'	3657											Station established.	
SW corner Polk and Fifth Streets	5/1/02	6/1/03	80 ft. S	35°13'	101°50'	3657											Temporary quarters preparatory to moving into permanent ones.	
SE corner Taylor and Seventh Streets	6/1/03	4/1/41	1100 ft. SE	35°13'	101°50'	3657	49	10	10			3			3		Tipping bucket record begun 11/16/02. WBO-WBAS consolidation 4/1/41.	
<u>AIRPORT</u>																		
Administration Building English Field Airport	6/12/31	11/29/37	NA	35°14'	101°42'	3589	52	37	37							4	Bureau of Air Commerce to 4/9/32, Weather Bureau to 7/11/35, and CAA thereafter. Destroyed by fire 11/29/37. CAA observations at City Office site following fire to 12/15/37.	
CAA Airway Building English Field Airport	12/15/37	3/22/41	400 ft. SW	35°14'	101°42'	3590	17	4	4							4	CAA to 5/1/40 then Weather Bureau.	
Administration Building Amarillo Air Terminal (Name changed from English Field Airport 1/1/50).	3/22/41	11/20/74	500 ft. E	35°14'	101°42'	3590 c3604	a33 d23	5 e17	5 e17	6		4 a4	4 a4	4 a4	NA b5	NA	Weather Bureau Operation a - Moved 525' SW 4/21/55. b - Telepsychrometer (5') 4/21/55-2/1/61. Hygro commissioned 1 1/4 miles SW of thermometer site 2/1/61. c - Effective 2/1/61. d - Effective 5/3/61. e - Effective 4/1/63.	
NWS Building Amarillo Air Terminal +	11/20/74	11/1/92	1100 ft. W	35°14'	101°42'	3604	f23	5	5	18		4	4	4	f5 g4 h5	NA	f - Not moved 11/20/74. g - Relocated 8/4/83. h - Raised & type change 9/26/85.	
+ Amarillo Int'l Airport (Name change 6/1/77)	11/1/92	Present		35°13'	101°43'											S	ASOS Commissioned 11/01/92	

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.  
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