

2002

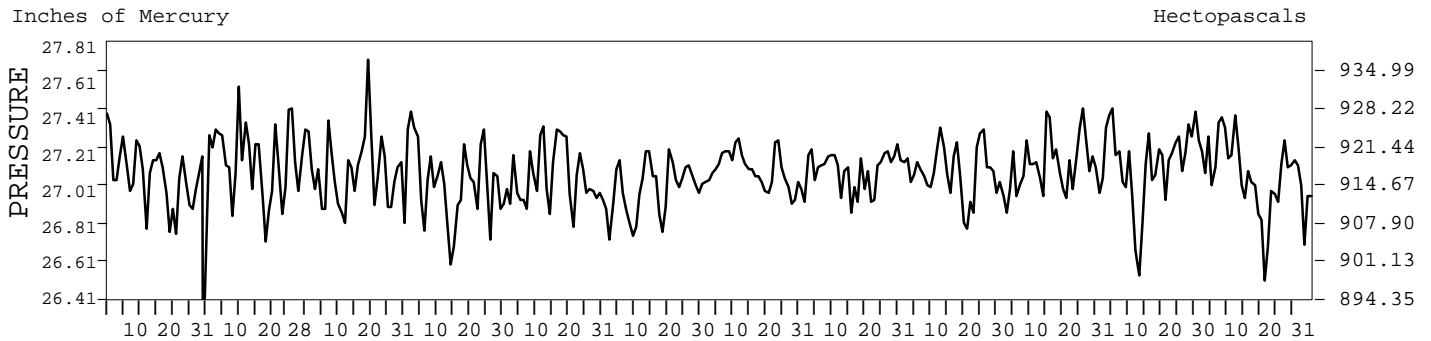
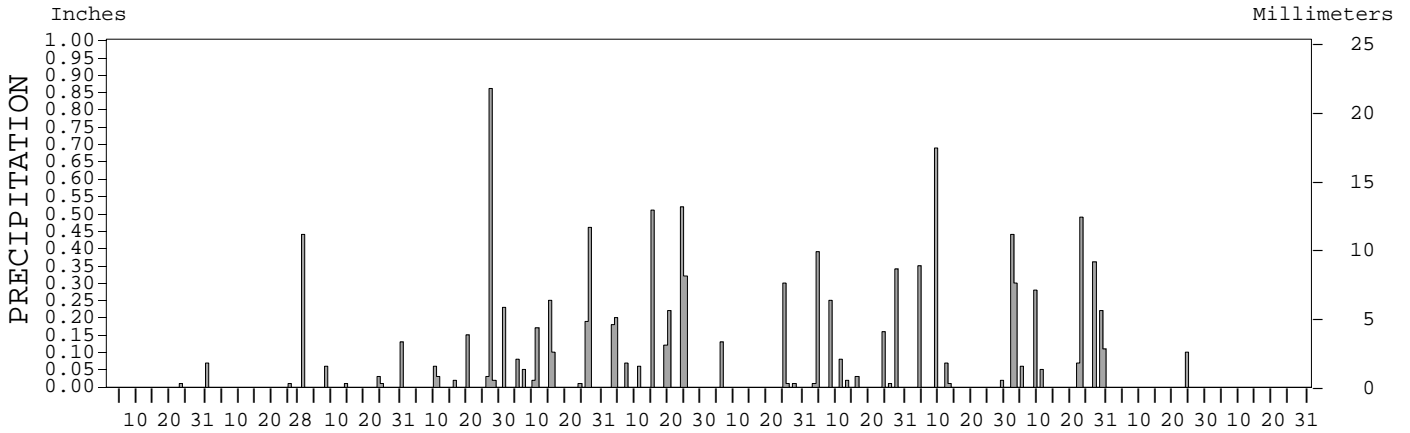
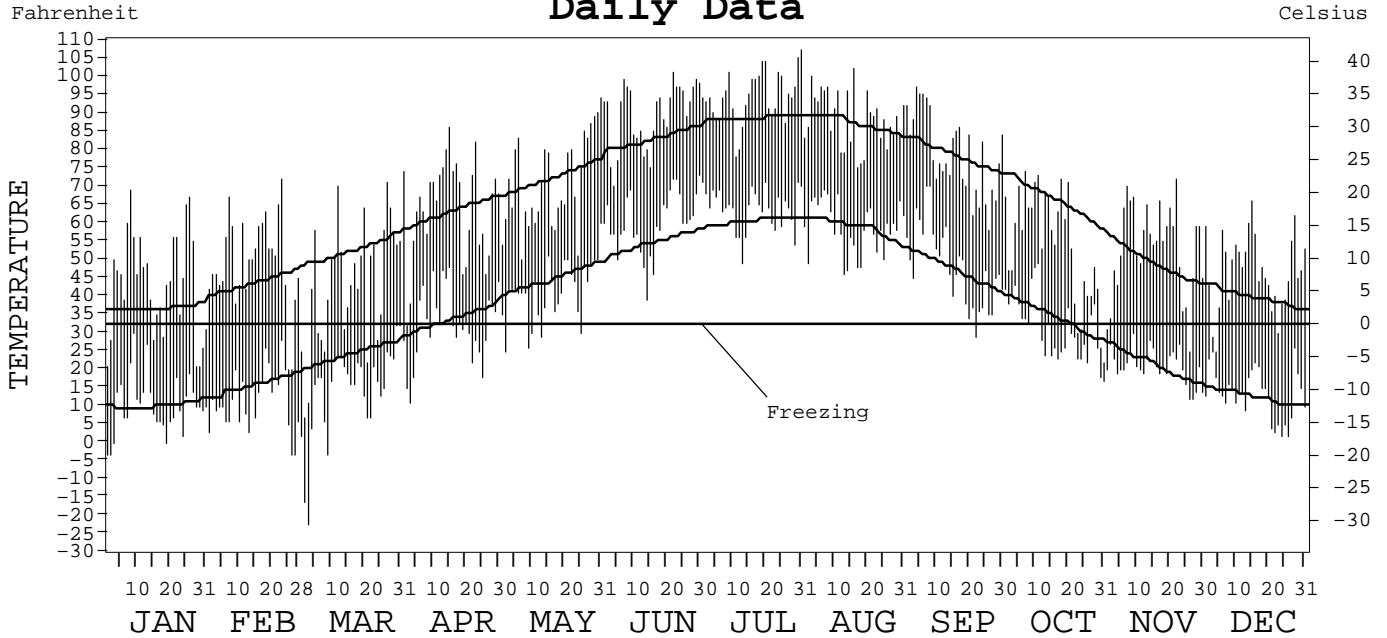
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3156

NORTH PLATTE,  
NEBRASKA (LBF)

## Daily Data



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# METEOROLOGICAL DATA FOR 2002

## NORTH PLATTE, NE (LBF)

LATITUDE:                      LONGITUDE:                      ELEVATION (FT.):                      TIME ZONE:                      WBAN: 24023  
 41° 07' 19" N                      100° 40' 06" W                      GRND: 2778                      BARO: 2781                      CENTRAL (UTC + 6)

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	43.5	49.4	43.7	63.8	70.8	89.5	94.3	88.3	78.7	54.1	53.0	46.8	64.7	
	HIGHEST DAILY MAXIMUM	69	72	71	86	94	101	107	102	97	74	72	66	107	
	DATE OF OCCURRENCE	08	23	27	15	31	22	31	16	04	07	22	15	JUL 31	
	MEAN DAILY MINIMUM	10.3	11.6	14.7	32.2	41.2	60.0	63.8	58.7	48.1	31.5	21.0	13.5	33.9	
	LOWEST DAILY MINIMUM	-3	-3	-22	11	25	39	49	46	29	17	12	2	-22	
	DATE OF OCCURRENCE	02+	27+	03	03	02	14	13	13	22	31	26+	26+	MAR 03	
	AVERAGE DRY BULB	26.9	30.5	29.2	48.0	56.0	74.8	79.1	73.5	63.4	42.8	37.0	30.2	49.3	
	MEAN WET BULB		24.4	24.7	41.8	48.8	63.4	66.0	63.4	54.9	38.7	31.4	24.4		
	MEAN DEW POINT		14.6	18.0	33.2	41.6	56.3	58.4	57.3	48.2	33.8	24.8	17.5		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	2	17	24	14	6	0	0	0	0	63
	MAXIMUM ≤ 32°	8	2	9	1	0	0	0	0	0	4	2	3	3	29
MINIMUM ≤ 32°	31	28	31	15	5	0	0	0	1	16	30	31	31	188	
MINIMUM ≤ 0°	4	2	3	0	0	0	0	0	0	0	0	0	0	9	
H/C	HEATING DEGREE DAYS	1173	957	1104	506	299	11	0	8	138	680	831	1074	6781	
	COOLING DEGREE DAYS	0	0	0	2	27	312	446	277	96	0	0	0	1160	
RH	MEAN (PERCENT)	66	60	69	60	62	56	54	61	62	74	68	68	63	
	HOUR 00 LST	77	72	79	71	74	66	65	70	73	81	79	78	74	
	HOUR 06 LST	87	84	87	84	82	79	79	83	82	87	86	83	84	
	HOUR 12 LST	48	41	58	46	47	44	36	48	47	63	49	52	48	
	HOUR 18 LST	51	37	51	42	46	34	33	42	44	63	58	57	46	
S	PERCENT POSSIBLE SUNSHINE	76	80	55	74	71	84	92	89	92	63	70	74	77	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	2	1	0	0	1	2	3	2	0	0	11	
	THUNDERSTORMS	0	0	0	4	5	10	3	10	2	2	0	0	36	
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.)		27.18	27.13	27.06	27.08	27.02	27.12	27.13	27.10	27.18	27.16	27.08		
	MEAN SEA-LEVEL PRESS. (IN.)		30.16	30.12	29.95	29.96	29.83	29.93	29.96	29.95	30.11	30.11			
WINDS	RESULTANT SPEED (MPH)		5.9	3.5	1.1	3.1	0.4	2.8	2.3	1.9		5.5	3.1		
	RES. DIR. (TENS OF DEGS.)		32	36	07	12	12	04	12	13		30	30		
	MEAN SPEED (MPH)	8.1	10.1	10.6	11.3	11.1	10.7	9.2	9.8	9.9	8.7	8.1	6.3	9.5	
	PREVAIL. DIR. (TENS OF DEGS.)	31	32	34	11	10	14	18	11	16	17	30	31	31	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	40	45	37	49	41	44	38	38	31	38	33	29	49	
	DIR. (TENS OF DEGS.)	31	34	03	28	15	30	15	01	17	36	32	30	28	
	DATE OF OCCURRENCE	13	09	01	16	21	24	25	16	07	11	05	19	APR 16	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	48	58	45	58	55	49	47	58	37	46	41	37	58	
DIR. (TENS OF DEGS.)	31	34	03	28	15	29	14	16	33	01	31	29	16		
DATE OF OCCURRENCE	13	09	01	16	21	24	25	04	19+	11	05	19	AUG 04		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.08	0.01	0.68	1.17	1.56	2.20	0.45	1.29	1.14	2.38	0.10	T	11.06	
	GREATEST 24-HOUR (IN.)	0.07	0.01	0.44	0.89	0.46	0.52	0.31	0.39	0.69	0.49	0.10	T	0.89	
	DATE OF OCCURRENCE	31	25	01	26-27	27	24	25-26	04	09	23	24	05+	APR 26-27	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	2	1	6	7	10	9	4	9	5	10	1	0	64	
PRECIPITATION ≥ 0.10	0	0	2	2	6	7	2	4	2	7	1	0	33		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	2.0	0.2	10.5	T	T	T	0.0	0.0	0.0	8.2	1.0	T	21.9	
	GREATEST 24-HOUR (IN.)	1.6	0.2	7.4	T	T	T	0.0	0.0	0.0	5.7	1.0	T	7.4	
	DATE OF OCCURRENCE	31	25	01	20	27+	25+	0	0	0	23	24	05+	MAR 01	
	MAXIMUM SNOW DEPTH (IN.)	1	1	7	0	0	0	0	0	0	4	1	T	7	
	DATE OF OCCURRENCE	31	01	03+							24	03+	05+	MAR 03+	
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	1	0	3	0	0	0	0	0	0	2	1	0	7		

# NORMALS, MEANS, AND EXTREMES

## NORTH PLATTE, NE (LBF)

LATITUDE: 41° 07' 19" N      LONGITUDE: 100° 40' 06" W      ELEVATION (FT): GRND: 2778      BARO: 2781      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 24023

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	36.5	43.3	52.1	62.7	72.0	82.6	88.4	86.8	78.0	65.6	48.5	39.2	63.0
	MEAN DAILY MAXIMUM	55	35.8	41.6	49.3	61.7	71.6	81.6	87.7	86.1	77.4	65.8	49.7	39.4	62.3
	HIGHEST DAILY MAXIMUM	51	73	79	86	98	97	107	112	105	102	94	82	75	112
	YEAR OF OCCURRENCE		1990	1962	1986	1992	1953	1952	1954	1954	1990	1990	1980	1980	JUL 1954
	MEAN OF EXTREME MAXS.	55	59.5	65.1	75.5	84.7	89.3	96.4	100.0	98.5	94.3	86.1	72.6	62.5	82.0
	NORMAL DAILY MINIMUM	30	9.9	15.4	23.8	33.4	44.5	54.2	60.2	58.4	46.7	33.7	20.7	12.1	34.4
	MEAN DAILY MINIMUM	55	9.6	15.0	22.5	33.5	45.0	54.9	60.7	58.6	47.0	34.0	21.1	12.7	34.5
	LOWEST DAILY MINIMUM	51	-23	-22	-22	7	19	29	39	35	17	10	-13	-34	-34
	YEAR OF OCCURRENCE		1979	1981	2002	1975	1989	1969	1997	1976	1984	1993	1976	1989	DEC 1989
	MEAN OF EXTREME MINS.	55	-10.9	-5.7	1.9	17.3	29.1	41.1	48.5	45.9	29.7	17.5	4.0	-7.7	17.6
	NORMAL DRY BULB	30	21.6	27.6	36.5	48.2	58.2	67.9	74.0	71.8	61.4	49.7	35.4	24.2	48.0
	MEAN DRY BULB	55	22.7	28.1	35.8	47.7	58.2	68.3	74.1	72.5	62.0	49.9	35.3	25.9	48.4
	MEAN WET BULB	18	21.7	25.3	32.3	40.9	51.9	60.6	65.1	64.0	54.3	42.2	28.7	21.4	42.4
	MEAN DEW POINT	18	15.9	18.9	25.0	32.9	46.0	55.2	59.9	59.4	48.4	35.3	22.9	15.8	36.3
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.3	1.0	6.0	13.6	11.3	3.8	0.3	0.0	0.0	36.3	
MAXIMUM ≤ 32°	30	12.1	8.3	4.1	0.2	*	0.0	0.0	0.0	0.0	0.1	3.6	10.8	39.2	
MINIMUM ≤ 32°	30	31.0	27.7	26.9	13.1	2.3	*	0.0	0.0	2.2	14.0	27.7	30.8	175.7	
MINIMUM ≤ 0°	30	8.5	3.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	5.1	18.5	
H/C	NORMAL HEATING DEG. DAYS	30	1312	1013	853	519	240	46	6	14	158	481	902	1222	6766
	NORMAL COOLING DEG. DAYS	30	0	0	0	4	22	139	279	234	70	2	0	0	750
RH	NORMAL (PERCENT)	30	69	68	64	60	63	64	63	64	64	62	67	70	65
	HOUR 00 LST	30	75	76	73	70	73	74	73	75	74	72	75	76	74
	HOUR 06 LST	30	78	79	79	79	82	83	83	84	83	80	80	78	81
	HOUR 12 LST	30	61	59	53	46	50	51	50	50	49	45	54	60	52
	HOUR 18 LST	30	62	56	48	42	47	47	46	46	46	46	56	62	50
S	PERCENT POSSIBLE SUNSHINE	50	63	62	62	64	65	71	77	75	72	70	60	61	67
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	50	1.4	2.4	2.2	1.1	1.1	0.8	1.1	2.0	2.0	1.9	2.3	1.7	20.0
	THUNDERSTORMS	50	0.0	0.1	0.8	2.6	6.5	9.9	9.8	8.1	3.9	1.5	0.2	0.0	43.4
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	44	5.0	5.0	5.2	5.1	5.1	4.2	3.7	3.8	3.7	3.9	4.7	4.5	4.5
	MIDNIGHT-MIDNIGHT (OKTAS)	32	4.4	4.3	4.7	4.6	4.7	4.2	3.8	3.7	3.5	3.6	4.3	4.1	4.2
	MEAN NO. DAYS WITH:														
	CLEAR	44	8.4	7.2	7.5	7.0	6.8	10.1	12.1	11.7	12.8	12.5	8.8	9.8	114.7
PARTLY CLOUDY	44	8.7	7.5	7.7	9.0	10.0	10.7	12.0	11.4	8.4	8.0	7.8	7.8	109.6	
CLOUDY	44	13.9	13.6	15.8	14.0	14.3	9.2	6.9	8.0	8.8	10.1	13.2	13.4	141.2	
PR	MEAN STATION PRESSURE (IN)	29	27.10	27.09	27.00	27.00	27.00	27.10	27.10	27.10	27.10	27.11	27.12	27.08	
	MEAN SEA-LEVEL PRES. (IN)	18	30.11	30.10	30.01	29.93	29.91	29.98	29.93	29.95	29.99	30.03	30.06	30.14	30.01
WINDS	MEAN SPEED (MPH)	47	9.3	9.8	11.6	12.6	11.4	10.4	9.6	9.1	9.7	9.7	9.9	9.2	10.2
	PREVAIL. DIR (TENS OF DEGS)	31	31	31	36	11	16	11	11	11	18	31	31	31	11
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	6	44	52	47	49	48	49	55	56	46	45	46	45	56
	DIR. (TENS OF DEGS)		31	36	31	28	31	34	24	31	30	31	29	36	31
	YEAR OF OCCURRENCE		1997	1999	2000	2002	1998	1999	1999	1999	1999	1997	1998	2000	AUG 1999
	MAXIMUM 5-SECOND:														
SPEED (MPH)	6	55	62	56	58	59	62	70	75	53	61	53	53	75	
DIR. (TENS OF DEGS)		32	36	31	28	31	33	24	30	28	31	32	36	30	
YEAR OF OCCURRENCE		1997	1999	2000	2002	1998	1999	1999	1999	1999	1997	1997	2000	AUG 1999	
PRECIPITATION	NORMAL (IN)	30	0.39	0.51	1.24	1.97	3.34	3.17	3.17	2.15	1.32	1.24	0.76	0.40	19.66
	MAXIMUM MONTHLY (IN)	51	1.12	1.98	2.98	5.94	8.01	6.81	7.05	6.30	6.03	3.24	2.89	1.22	8.01
	YEAR OF OCCURRENCE		1960	1978	1992	2001	1962	1965	1979	1992	1963	2000	1979	1977	MAY 1962
	MINIMUM MONTHLY (IN)	50	T	T	0.05	0.10	0.77	0.33	0.42	0.06	T	0.05	0.02	T	T
	YEAR OF OCCURRENCE		1964	1996	1994	1989	1966	1952	1955	1967	1953	1988	1989	1988	FEB 1996
	MAXIMUM IN 24 HOURS (IN)	51	0.75	1.15	2.26	2.42	2.95	3.80	3.15	2.93	2.53	2.24	1.48	0.79	3.80
	YEAR OF OCCURRENCE		1992	1971	1959	1971	1962	1965	1964	1957	1963	2000	1979	1978	JUN 1965
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	5.0	5.0	6.8	7.9	11.3	9.2	10.0	7.6	7.4	4.8	4.7	4.5	84.2	
PRECIPITATION ≥ 1.00	30	0.0	*	0.2	0.4	0.9	0.7	0.9	0.3	0.3	0.1	*	0.0	3.8	
SNOWFALL	NORMAL (IN)	30	5.0	4.7	4.8	2.8	0.*	0.0	0.0	0.0	0.2	1.0	4.9	4.4	27.8
	MAXIMUM MONTHLY (IN)	51	17.1	20.6	21.9	14.5	3.6	T	T	T	3.1	15.7	17.5	14.1	21.9
	YEAR OF OCCURRENCE		1976	1978	1980	1984	1967	1995	1996	1992	1985	1969	1979	1973	MAR 1980
	MAXIMUM IN 24 HOURS (IN)	51	11.9	9.7	15.1	8.5	2.3	T	T	T	3.1	8.8	9.7	8.6	15.1
	YEAR OF OCCURRENCE		1976	1955	1980	1984	1967	1995	1995	1992	1985	1969	2000	1968	MAR 1980
	MAXIMUM SNOW DEPTH (IN)	54	18	13	18	9	1	0	0	0	3	5	13	10	18
	YEAR OF OCCURRENCE		1949	1993	1980	1949	1967				1985	1969	1979	1968	MAR 1980
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	1.5	1.6	1.5	0.8	0.0	0.0	0.0	0.0	0.1	0.4	1.4	1.1	8.4	

PRECIPITATION (inches) 2002 NORTH PLATTE, NE (LBF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0.40	0.10	2.45	1.45	3.85	0.88	2.87	2.82	3.98	1.26	0.54	1.13	21.73
1974	0.27	0.08	0.42	1.17	1.64	3.86	2.27	1.15	0.24	0.61	0.04	0.42	12.17
1975	0.26	0.17	0.92	1.77	2.12	6.12	2.51	0.25	0.56	0.14	1.15	0.22	16.19
1976	0.99	0.14	2.03	2.80	2.88	2.43	0.92	2.87	2.03	1.18	0.08	0.01	18.36
1977	0.18	0.27	2.89	4.85	5.90	1.31	4.41	1.79	1.48	0.18	0.39	1.22	24.87
1978	0.52	1.98	0.40	1.96	4.84	1.75	3.70	1.92	0.33	0.43	1.03	0.99	19.85
1979	0.86	0.09	2.78	1.46	2.96	3.37	7.05	1.49	0.45	1.32	2.89	0.28	25.00
1980	0.52	0.82	2.56	0.77	2.59	1.89	0.64	3.04	0.34	1.00	0.13	0.02	14.32
1981	0.07	0.05	2.72	2.47	5.37	2.32	5.09	2.48	0.25	0.60	1.94	0.43	23.79
1982	0.20	0.15	0.99	1.42	6.32	2.35	1.78	1.18	1.26	2.44	0.73	1.08	19.90
1983	0.33	0.25	1.54	2.12	3.20	3.32	3.74	1.98	0.14	0.56	1.56	0.46	19.20
1984	0.36	0.87	1.20	5.01	2.82	4.37	0.94	1.38	0.39	2.41	0.69	0.72	21.16
1985	0.55	0.14	0.44	1.84	4.01	0.87	3.98	1.16	3.23	1.24	1.09	0.79	19.34
1986	0.02	1.10	0.70	3.77	2.80	1.70	2.57	1.22	1.02	1.58	0.19	0.27	16.94
1987	0.16	1.55	1.65	1.01	3.19	3.95	2.81	1.19	1.16	1.67	1.26	0.81	20.41
1988	0.72	0.03	0.37	2.02	3.59	3.12	3.03	3.93	1.59	0.05	0.40	T	18.85
1989	0.55	0.73	0.38	0.10	3.02	3.51	1.86	2.37	1.11	0.08	0.02	0.28	14.01
1990	0.27	0.18	1.75	1.52	3.65	1.90	1.99	1.79	0.31	1.48	0.87	0.09	15.80
1991	0.35	0.21	1.00	3.00	5.39	2.78	1.81	0.53	1.75	2.14	0.92	0.67	20.55
1992	0.89	1.42	2.98	0.18	3.18	2.61	3.75	6.30	0.25	0.92	0.20	0.33	23.01
1993	0.74	1.37	0.61	1.80	2.47	6.12	5.47	3.78	0.71	1.59	1.32	0.22	26.20
1994	0.53	0.29	0.05	1.47	1.16	4.92	4.52	1.24	0.60	2.63	0.78	0.66	18.85
1995	0.12	0.09	1.21	3.09	4.51	2.59	2.01	0.73	1.98	0.87	0.08	0.02	17.30
1996	0.50	T	0.33	0.84	4.12	3.87	5.57	3.25	5.55	0.33	0.40	0.03	24.79
1997	T	0.73	0.07	1.00	1.87	2.58	3.19	3.40	1.76	2.77	0.04	0.20	17.61
1998	0.27	0.40	1.30	0.67	2.93	4.84	5.81	1.85	1.13	1.92	1.31	0.01	22.44
1999	0.34	0.26	0.64	2.83	1.92	5.32	0.93	5.49	1.20	0.22	0.14	0.05	19.34
2000	0.31	0.46	1.22	1.65	1.21	1.53	2.86	2.05	1.22	3.24	0.53	0.04	16.32
2001	0.48	0.40	0.60	5.94	2.19	1.71	2.52	5.26	2.76	0.80	0.96	0.07	23.69
2002	0.08	0.01	0.68	1.17	1.56	2.20	0.45	1.29	1.14	2.38	0.10	T	11.06
POR= 128 YRS	0.42	0.50	0.97	2.07	2.99	3.25	2.73	2.18	1.54	1.04	0.53	0.40	18.62

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AVERAGE TEMPERATURE (°F) 2002 NORTH PLATTE, NE (LBF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	21.5	30.3	40.4	45.8	56.0	67.7	72.8	73.7	58.4	51.7	35.0	23.2	48.0
1974	16.0	33.0	40.1	50.0	59.5	66.5	77.5	67.1	57.5	52.9	34.8	24.2	48.3
1975	25.7	23.4	31.5	46.6	57.1	65.7	74.6	73.2	58.5	50.9	30.2	26.4	47.0
1976	17.8	32.7	34.0	47.4	53.1	64.6	72.8	70.6	59.8	45.2	30.5	28.2	46.4
1977	16.6	32.0	37.0	51.7	63.1	70.5	74.5	68.5	63.8	50.0	35.8	24.9	49.0
1978	11.2	14.7	35.1	48.4	56.6	68.2	74.5	71.0	65.4	49.2	32.1	14.6	45.1
1979	6.0	17.2	37.0	48.4	57.4	68.1	74.1	72.9	67.1	53.8	32.2	34.0	47.4
1980	25.1	26.8	35.5	50.5	60.2	72.5	78.0	74.0	63.7	48.9	38.5	32.0	50.5
1981	29.7	29.1	40.2	55.8	54.8	68.6	73.8	70.1	63.0	49.0	39.9	26.7	50.1
1982	17.1	28.1	36.3	44.8	57.3	63.4	75.0	73.1	61.7	49.2	33.3	28.1	47.3
1983	27.1	35.1	37.2	42.3	54.0	65.2	75.3	78.0	64.8	51.3	36.7	7.5	47.9
1984	20.4	33.2	34.1	43.3	58.1	68.0	73.7	75.5	58.4	48.0	37.2	22.5	47.7
1985	18.3	23.1	40.5	52.2	60.8	65.4	75.3	70.1	59.8	48.6	24.6	19.2	46.5
1986	31.6	27.0	44.3	48.9	58.0	71.4	75.6	71.3	63.0	50.4	35.5	30.2	50.6
1987	29.5	35.8	36.7	51.3	63.1	70.2	75.7	70.3	61.3	47.0	38.2	27.7	50.6
1988	16.4	26.5	37.8	48.5	60.7	74.6	74.5	73.4	62.0	48.7	38.0	30.3	49.3
1989	30.2	17.8	35.7	51.1	59.0	65.8	74.3	71.7	61.0	50.7	37.6	20.6	48.0
1990	30.6	30.9	40.0	48.5	56.7	71.1	73.7	74.0	67.6	50.2	38.1	21.9	50.3
1991	23.1	37.5	40.5	49.3	61.8	71.0	74.9	73.7	63.6	48.4	32.2	33.4	50.8
1992	32.1	37.3	41.8	50.6	58.7	65.7	68.5	66.5	63.0	49.9	32.4	22.5	49.1
1993	18.5	18.0	37.0	45.5	58.7	65.3	71.5	70.3	58.3	48.5	32.7	30.4	46.2
1994	24.0	23.7	41.5	47.8	62.6	71.7	70.5	72.6	65.4	52.0	37.4	29.1	49.9
1995	26.8	34.0	37.8	43.8	52.6	66.7	73.8	79.3	62.6	48.2	38.6	28.8	49.4
1996	20.9	30.1	31.3	47.3	56.6	68.5	71.2	70.0	59.1	48.6	30.7	25.0	46.6
1997	23.3	29.1	39.5	42.3	55.1	69.5	73.9	70.9	64.2	51.1	33.9	28.2	48.4
1998	26.0	34.7	32.6	46.3	59.6	64.1	75.3	72.4	68.5	49.7	39.3	27.7	49.7
1999	27.6	36.7	38.5	45.3	57.1	66.9	75.6	70.7	58.2	50.0	41.8	30.7	49.9
2000	27.3	33.9	40.9	48.0	60.7	67.9	76.5	77.5	63.6	51.1	24.6	21.6	49.5
2001	27.7	23.4	36.9	49.1	57.0	67.5	77.5	71.1	61.7	48.4	38.9	27.4	48.9
2002	26.9	30.5	29.2	48.0	56.0	74.8	79.1	73.5	63.4	42.8	37.0	30.2	49.3
POR= 128 YRS	23.3	28.0	36.4	48.6	58.7	68.6	74.6	72.9	63.3	50.9	36.4	27.0	49.1

HEATING DEGREE DAYS (base 65°F) 2002 NORTH PLATTE, NE (LBF)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	10	0	219	407	892	1290	1518	889	765	445	190	62	6687
1974-75	0	40	256	373	900	1262	1216	1160	1032	558	247	62	7106
1975-76	6	0	228	437	1035	1191	1460	929	956	521	363	70	7196
1976-77	0	13	178	608	1028	1133	1493	920	858	395	81	2	6709
1977-78	2	34	96	458	869	1236	1662	1400	924	491	275	71	7518
1978-79	5	24	99	488	982	1560	1828	1335	862	491	259	56	7989
1979-80	4	11	52	341	975	957	1233	1102	909	439	166	10	6199
1980-81	0	6	107	491	790	1019	1089	1000	762	283	318	26	5891
1981-82	9	4	101	492	749	1179	1479	1030	885	601	239	111	6879
1982-83	0	18	160	484	946	1138	1167	833	854	672	343	90	6705
1983-84	2	0	128	419	840	1780	1379	915	953	647	236	33	7332
1984-85	0	0	247	519	829	1312	1440	1168	752	393	156	83	6899
1985-86	0	23	252	502	1205	1416	1029	1060	634	479	219	2	6821
1986-87	0	14	98	446	878	1074	1093	810	868	420	102	15	5818
1987-88	13	36	139	551	796	1152	1501	1109	839	490	170	3	6799
1988-89	0	13	128	498	803	1067	1072	1316	902	430	211	67	6507
1989-90	2	7	180	437	815	1374	1061	948	771	502	259	15	6371
1990-91	15	1	84	457	797	1331	1290	762	754	466	149	5	6111
1991-92	3	1	148	508	977	971	1010	797	714	436	219	45	5829
1992-93	18	60	113	466	970	1310	1436	1311	862	578	204	73	7401
1993-94	2	24	218	513	965	1066	1263	1151	724	517	131	5	6579
1994-95	3	8	90	395	820	1106	1180	863	840	631	377	67	6380
1995-96	17	2	167	517	786	1116	1359	1004	1037	527	283	40	6855
1996-97	3	1	214	503	1021	1233	1284	1001	782	673	306	14	7035
1997-98	10	17	113	452	926	1133	1202	841	998	551	195	114	6552
1998-99	2	0	39	467	764	1149	1151	785	815	586	248	54	6060
1999-00	8	9	227	458	690	1057	1164	894	738	503	169	49	5966
2000-01	0	0	142	424	1204	1337	1152	1156	868	473	255	87	6645
2001-02	0	5	146	511	773	1160	1173	957	1104	506	299	11	6645
2002-	0	8	138	680	831	1074							

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COOLING DEGREE DAYS (base 65°F) 2002 NORTH PLATTE, NE (LBF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0	0	0	0	11	121	260	278	29	3	0	0	702
1974	0	0	0	5	24	117	394	115	40	3	0	0	698
1975	0	0	0	10	11	89	311	260	39	7	0	0	727
1976	0	0	0	0	5	62	247	192	27	0	0	0	533
1977	0	0	0	2	26	174	305	149	64	0	0	0	720
1978	0	0	0	1	21	174	307	218	117	5	0	0	843
1979	0	0	0	0	27	156	294	262	123	0	0	0	862
1980	0	0	0	10	27	243	411	289	74	0	0	0	1054
1981	0	0	0	10	9	141	288	168	47	1	0	0	664
1982	0	0	0	0	8	70	314	276	68	0	0	0	736
1983	0	0	0	0	8	103	331	412	128	1	0	0	983
1984	0	0	0	0	27	129	281	331	55	2	0	0	825
1985	0	0	0	14	32	100	326	189	100	0	0	0	761
1986	0	0	0	3	11	201	334	217	43	0	0	0	809
1987	0	0	0	16	48	176	352	208	35	0	0	0	835
1988	0	0	0	1	41	293	301	282	46	0	0	0	964
1989	0	0	0	21	35	99	295	220	67	2	0	0	739
1990	0	0	0	15	10	205	291	289	165	5	0	0	980
1991	0	0	0	3	59	194	317	276	112	2	0	0	963
1992	0	0	0	13	31	68	135	116	60	1	0	0	424
1993	0	0	0	0	15	88	212	194	24	6	0	0	539
1994	0	0	0	10	63	213	183	251	111	0	0	0	831
1995	0	0	0	0	0	125	298	449	103	4	0	0	979
1996	0	0	0	0	33	149	204	165	44	3	0	0	598
1997	0	0	0	0	5	156	295	206	96	29	0	0	787
1998	0	0	0	0	37	94	326	237	150	0	0	0	844
1999	0	0	0	0	9	119	343	192	28	0	0	0	691
2000	0	0	0	0	42	140	362	393	107	0	0	0	1044
2001	0	0	0	4	13	168	394	201	52	3	0	0	835
2002	0	0	0	2	27	312	446	277	96	0	0	0	1160

SNOWFALL (inches) 2002 NORTH PLATTE, NE (LBF)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0.0	0.0	0.0	T	4.3	14.1	4.2	1.0	2.3	0.7	0.0	0.0	26.6
1974-75	0.0	0.0	0.0	0.0	T	4.5	2.2	2.6	3.9	3.0	0.0	0.0	16.2
1975-76	0.0	0.0	0.0	0.8	10.9	1.2	17.1	1.6	5.2	T	0.0	0.0	36.8
1976-77	0.0	0.0	0.0	1.0	0.6	T	2.5	2.2	9.9	8.1	0.0	0.0	24.3
1977-78	0.0	0.0	0.0	T	0.3	6.4	6.2	20.6	2.0	T	T	0.0	35.5
1978-79	0.0	0.0	0.0	T	7.6	10.3	6.3	0.3	5.9	2.3	T	0.0	32.7
1979-80	0.0	0.0	0.0	2.9	17.5	2.3	5.2	9.1	21.9	7.4	0.0	0.0	66.3
1980-81	0.0	0.0	0.0	0.6	1.2	T	0.7	0.5	0.5	0.4	0.0	0.0	3.9
1981-82	0.0	0.0	0.0	T	5.3	6.4	4.4	1.7	6.4	0.9	0.0	0.0	25.1
1982-83	0.0	0.0	0.0	1.0	2.0	9.7	1.6	0.1	5.9	5.4	0.0	0.0	25.7
1983-84	0.0	0.0	T	0.0	12.1	7.3	5.3	9.6	8.8	14.5	0.2	0.0	57.8
1984-85	0.0	0.0	T	0.3	0.9	8.7	8.5	0.8	2.1	0.0	0.0	0.0	21.3
1985-86	0.0	0.0	3.1	T	13.0	8.1	0.2	8.7	3.8	T	0.0	0.0	36.9
1986-87	0.0	0.0	0.0	2.0	1.0	2.6	1.6	9.2	7.2	0.1	0.0	0.0	23.7
1987-88	0.0	0.0	0.0	1.3	8.2	7.2	12.6	0.6	3.8	2.1	0.0	0.0	35.8
1988-89	0.0	0.0	0.0	T	2.5	T	6.1	10.6	4.3	0.3	T	0.0	23.8
1989-90	T	0.0	T	T	T	2.2	5.9	1.9	5.3	0.3	T	T	15.6
1990-91	0.0	0.0	0.0	2.0	9.7	0.8	4.1	1.1	5.6	T	T	0.0	23.3
1991-92	0.0	0.0	0.0	7.3	1.6	1.8	5.4	1.2	5.1	0.3	T	0.0	22.7
1992-93	T	T	0.0	T	2.2	3.9	10.1	17.2	2.7	2.0	T	T	38.1
1993-94	T	0.0	T	T	3.9	3.3	10.6	6.0	0.4	11.5	T	T	35.7
1994-95	T	0.0	0.0	0.0	4.6	9.0	0.1	2.7	7.4	9.6	0.0	T	33.4
1995-96	T	0.0	0.7	4.1	0.8	0.5	4.9	T	3.4	4.0	0.0	0.0	18.4
1996-97	T		0.0	T	5.2	1.0	0.9	12.1	0.5	4.4	0.0	0.0	
1997-98	0.0	T	0.0	5.7	1.6	3.2	4.4	4.2	8.8	0.0	T	T	27.9
1998-99	T	0.0	0.0	T	5.7	0.7	4.5	5.2	2.7	1.2	0.0	T	20.0
1999-00	T	T	0.0	0.0	1.4	1.1	8.1	3.6	0.8	T	T	T	15.0
2000-01	T	T	2.8	0.0	10.6	1.0	7.4	5.3	4.2	6.3	T	T	37.6
2001-02	T	T	0.0	0.0	1.6	3.4	2.0	0.2	10.5	T	T	T	17.7
2002-	0.0	0.0	0.0	8.2	1.0	T							
POR= 50 YRS	T	T	0.2	1.6	3.7	4.3	5.3	5.0	6.4	2.9	0.2	T	29.6

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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. 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  
NORTH PLATTE,  
NEBRASKA (LBF)

The climate of North Platte is characterized throughout the year by frequent rapid changes in the weather. During the winter, most North Pacific lows cross the country north of North Platte. The passage usually brings little or no snowfall, and only a moderate drop in temperature. Only when there is a major outbreak of cold air from Canada does the temperature fall to zero or below. The duration of below-zero temperature is hardly more than two mornings, and by the third or fourth day the temperature is ordinarily rising to the 40s or higher. Snowfall at the onset of a cold outbreak is usually less than 2 inches.

Only when a low moves from the middle Rockies through Nebraska, allowing easterly winds to draw moist air into the low circulation, does snowfall of appreciable amounts occur. Few of these storms move slowly enough, or are intense enough, to deposit much precipitation in the North Platte area. However, during some winters the cold outbreak and intense low from the mid-Rockies combine to produce severe cold and snow several inches in depth, with blizzard conditions following. During and after these snowfalls and blizzards, rail and highway traffic may be stalled until the snow is cleared. Widespread loss of unsheltered livestock and wild life results from such conditions.

The sudden and frequent weather changes of the winter continue through spring with decreasing intensity of temperature changes but increasing precipitation. The summer and fall months bring frequent changes from hot to cool weather. Most summer and fall precipitation is associated with thunderstorms, so the amounts are extremely variable. The surrounding area is occasionally damaged by locally severe winds and hailstorms.

Temperatures may reach into the upper 90s and lower 100s frequently during the summer months, but the elevation and clear skies bring rapid cooling after sunset to lows in the 60s or below by daybreak. Since the humidity is generally low, the extremely hot days of summer are not uncomfortable.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is September 24 and the average last occurrence in the spring is May 11.

# STATION LOCATION

NORTH PLATTE, NEBRASKA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT * REMARKS	
						SEA LEVEL GROUND TEMPERATURE	GROUND										HYGROMETER
							WIND INSTRUMENT	EXTREME THERMOMETER	PSYCHROMETER	SUNSHINE SWITCH	TIPPING GAUGE BUCKET	WEIGHING RAIN GAUGE	8 INCH RAIN GAUGE				
*NOTE: <u>AIRPORT</u>																	
Administration Building Lee Bird Field	1/15/52	02/01/96	5/8 mi. E	41°08'	100°41'	c2775 j2779	a20	6 d5	6 d5	%17 f23	e5	4 d5	4 d4 i5	b5 g5 h5	a. 32 ft. to 8/12/64. b. Commissioned 1550 ft. SSE of thermometer site 8/12/64. c. 2779 ft. to 8/12/64. d. Relocated about 165 ft. WSW of previous location 7/12/68 and moved 200 ft. NNE 12/17/74. e. Commissioned 4/21/75. %. Effective 11/22/71. f. Effective 11/21/80. g. Type change 7/1/80. h. Type change 1/9/86. i. Moved 20' SSW 5/4/87. j. Changed 06/06/95		
Lee Bird Field	02/01/96	Present	NA	41°07'	100°40'	k2778								S	ASOS Commissioned 02/01/96 g. Ground elevation.		

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