

2003

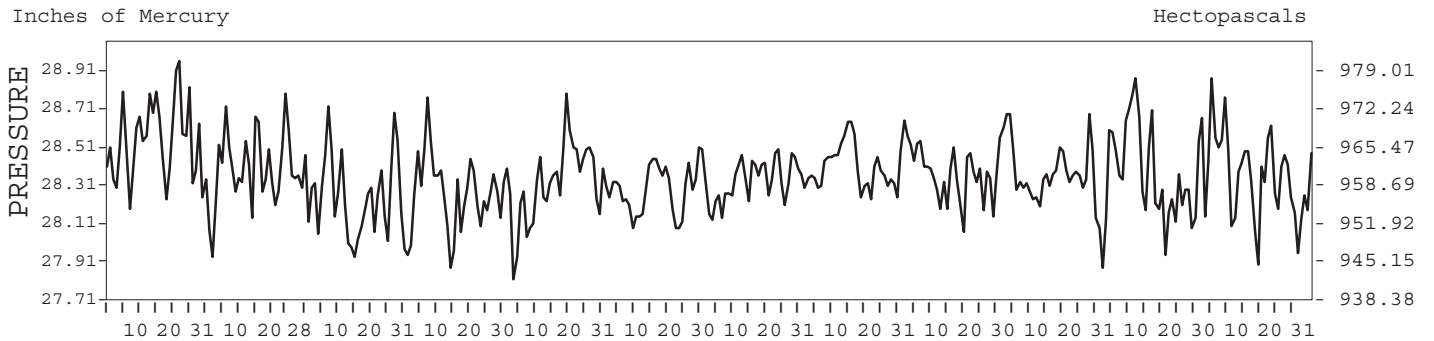
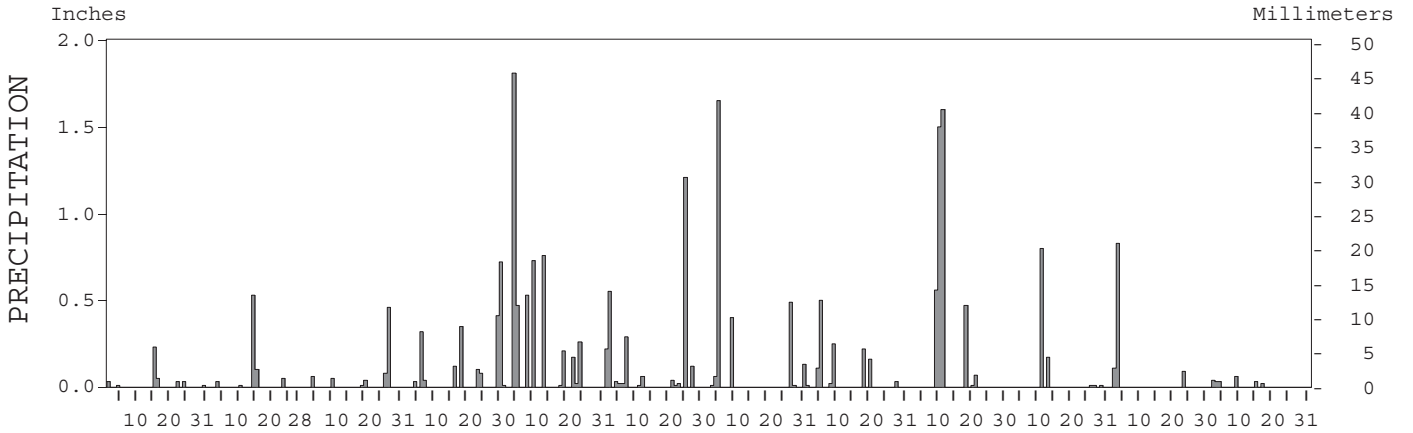
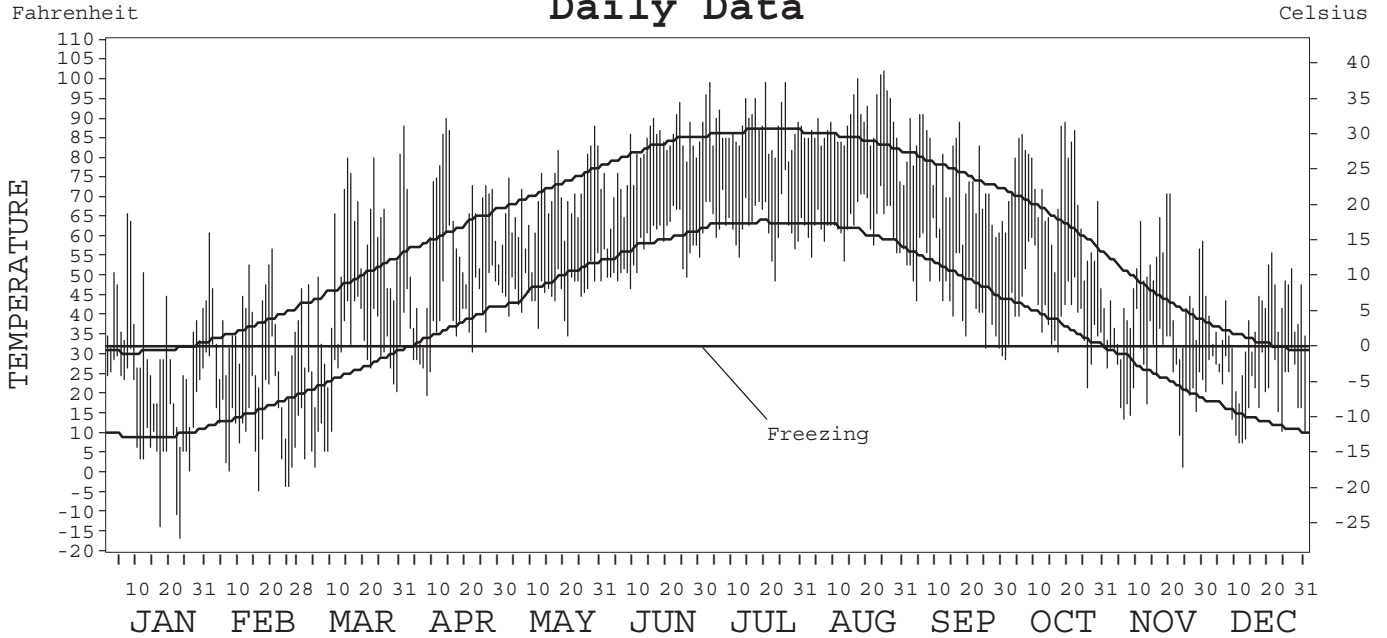
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-313X

## NORFOLK, NEBRASKA (OFK)

### Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

DIRECTOR NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2003

## NORFOLK, NE (OFK)

LATITUDE: 41° 58' 50" N      LONGITUDE: 97° 26' 13" W      ELEVATION (FT): GRND: 1534      BARO: 1537      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 14941

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	33.0	35.8	52.2	62.5	69.5	80.2	88.3	88.4	75.3	69.0	46.3	38.7	61.6	
	HIGHEST DAILY MAXIMUM	66	61	81	90	88	94	99	102	91	89	71	56	102	
	DATE OF OCCURRENCE	07	01	31	14	29	24	26+	25	06+	19	20+	21	AUG 25	
	MEAN DAILY MINIMUM	13.6	13.5	26.1	40.3	46.2	56.8	63.6	63.1	46.7	40.4	25.2	21.4	38.1	
	LOWEST DAILY MINIMUM	-16	-4	2	20	35	47	49	54	30	22	2	8	-16	
	DATE OF OCCURRENCE	23	16	05	08	21	09	23	13	30	26	24	12+	JAN 23	
	AVERAGE DRY BULB	23.3	24.7	39.2	51.4	57.9	68.5	76.0	75.8	61.0	54.7	35.8	30.1	49.9	
	MEAN WET BULB	20.4	22.1	33.3	45.1	52.4	60.9	68.5	67.4	53.8	47.0	31.3	27.2	44.1	
	MEAN DEW POINT	14.2	16.5	25.5	38.4	47.2	56.1	64.4	62.9	47.3	39.9	24.9	21.6	38.2	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	1	0	3	11	11	3	0	0	0	0	29
	MAXIMUM ≤ 32°	16	11	5	1	0	0	0	0	0	0	4	7	44	
MINIMUM ≤ 32°	31	26	20	7	0	0	0	0	3	5	23	30	145		
MINIMUM ≤ 0°	3	3	0	0	0	0	0	0	0	0	0	0	6		
H/C	HEATING DEGREE DAYS	1285	1125	796	422	230	40	0	0	174	331	871	1076	6350	
	COOLING DEGREE DAYS	0	0	0	24	15	154	346	342	61	18	0	0	960	
RH	MEAN (PERCENT)	71	73	64	66	70	68	69	67	64	63	68	73	68	
	HOUR 00 LST	76	78	72	73	80	79	79	80	76	73	73	77	76	
	HOUR 06 LST	76	81	81	80	91	84	87	86	85	84	78	79	83	
	HOUR 12 LST	63	63	52	55	55	55	56	50	48	46	55	65	55	
	HOUR 18 LST	66	66	50	55	53	53	54	51	46	52	66	69	57	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	1	1	1	4	1	1	0	0	0	1	1	11	
	THUNDERSTORMS	0	0	1	5	8	15	9	12	6	1	0	0	58	
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.)	28.53	28.39	28.25	28.24	28.32	28.28	28.32	28.41	28.37	28.33	28.37	28.35	28.35	
	MEAN SEA-LEVEL PRESS. (IN.)	30.25	30.10	29.93	29.89	29.95	29.90	29.93	30.02		29.98	30.06	30.05		
WINDS	RESULTANT SPEED (MPH)	4.7		2.6	1.5	0.4	1.1	2.0	2.9	3.1	2.8	2.9	2.8		
	RES. DIR. (TENS OF DEGS.)	32		33	10	33	17	13	15	21	25	27	27		
	MEAN SPEED (MPH)	10.1	10.6	11.8	12.1	9.5	9.0	9.3	8.1	10.3	10.1	10.4	11.7	10.2	
	PREVAIL. DIR. (TENS OF DEGS.)	33	36	33	19	12	15	15	16	16	19	31	32	33	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	37	38	36	36	37	40	46	31	36	33	41	40	46	
	DIR. (TENS OF DEGS.)	33	34	32	18	33	19	29	31	32	31	31	31	29	
	DATE OF OCCURRENCE	09	11	28	15	30	22	05	05	26	28	12	17	JUL 05	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	44	48	43	46	44	52	53	38	41	39	52	52	53	
DIR. (TENS OF DEGS.)	33	32	32	19	33	19	28	31	31	33	31	31	28		
DATE OF OCCURRENCE	09	11	28	15	30	22	05	05	26	28	12	17+	JUL 05		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.39	0.72	0.70	2.17	4.98	2.60	2.75	1.30	4.21	1.00	1.03	0.21	22.06	
	GREATEST 24-HOUR (IN.)	0.28	0.62	0.54	1.13	1.81	1.21	1.65	0.61	3.05	0.80	0.93	0.06	3.05	
	DATE OF OCCURRENCE	15-16	14-15	26-27	29-30	04	25	05	04-05	10-11	11	02-03	09	SEP 10-11	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	7	5	6	9	11	13	7	8	6	5	3	6	86	
PRECIPITATION ≥ 0.10	1	2	1	6	8	5	4	5	4	2	2	0	40		
PRECIPITATION ≥ 1.00	0	0	0	0	1	1	1	0	2	0	0	0	5		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	9.0	5.5	2.8	5.6	T	0.0	0.0	0.0	0.0	0.0	1.5	2.0	26.4	
	GREATEST 24-HOUR (IN.)	5.0	3.5	2.0	5.0	T	0.0	0.0	0.0	0.0	0.0	1.5	1.5	5.0	
	DATE OF OCCURRENCE	15	14-15	04	06	04						23	09	APR 06	
	MAXIMUM SNOW DEPTH (IN.)	6	4	2	6	0	0	0	0	0	0	1	2	6	
	DATE OF OCCURRENCE	17+	15	05	07							25+	10	APR 07	
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	4	3	1	1	0	0	0	0	0	0	1	1	11		

# NORMALS, MEANS, AND EXTREMES

## NORFOLK, NE (OFK)

LATITUDE: 41° 58' 50" N      LONGITUDE: 97° 26' 13" W      ELEVATION (FT): GRND: 1534      BARO: 1537      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 14941

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	31.2	37.3	48.5	61.3	72.3	82.3	86.5	84.4	76.4	64.0	45.5	33.6	60.3
	MEAN DAILY MAXIMUM	56	30.1	35.3	45.6	61.2	72.3	82.2	87.0	84.7	75.8	64.4	46.8	34.4	60.0
	HIGHEST DAILY MAXIMUM	58	74	76	88	95	103	106	113	107	101	95	82	71	113
	YEAR OF OCCURRENCE		2002	2002	1986	1992	1967	1988	1954	1983	1971	1990	1999	1962	JUL 1954
	MEAN OF EXTREME MAXS.	56	53.7	58.9	72.3	85.2	90.6	97.2	99.3	97.3	93.1	85.5	70.2	57.6	80.1
	NORMAL DAILY MINIMUM	30	9.6	15.5	25.4	36.8	48.3	58.0	63.0	61.0	50.4	38.0	24.7	13.7	37.0
	MEAN DAILY MINIMUM	56	9.0	14.6	24.3	37.0	48.9	58.9	64.0	61.9	51.0	38.9	25.2	14.2	37.3
	LOWEST DAILY MINIMUM	58	-27	-26	-20	2	24	38	42	40	26	11	-15	-30	-30
	YEAR OF OCCURRENCE		1974	1981	1960	1975	1976	1990	1971	1986	1995	1993	1964	1989	DEC 1989
	MEAN OF EXTREME MINS.	56	-14.5	-8.5	2.9	21.1	33.2	44.9	52.1	49.3	34.0	21.3	6.2	-7.3	19.6
	NORMAL DRY BULB	30	20.4	26.4	37.0	49.1	60.3	70.1	74.8	72.7	63.4	51.0	35.1	23.7	48.7
	MEAN DRY BULB	56	19.5	25.2	35.0	49.0	60.6	70.6	75.4	73.2	63.5	51.6	36.2	24.2	48.7
	MEAN WET BULB	18	20.4	24.6	32.4	43.0	54.2	62.7	67.5	66.0	56.5	44.7	31.3	23.1	43.9
	MEAN DEW POINT	18	14.8	18.7	25.7	35.4	45.6	57.5	63.6	62.1	50.8	37.9	25.7	17.9	38.0
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.7	1.1	6.7	11.3	8.5	3.5	0.3	0.0	0.0	32.1	
MAXIMUM ≤ 32°	30	16.1	11.2	4.3	0.3	0.0	0.0	0.0	0.0	0.0	0.2	4.5	14.0	50.6	
MINIMUM ≤ 32°	30	30.6	26.3	23.0	9.0	0.7	0.0	0.0	0.0	0.7	7.4	23.5	30.3	151.5	
MINIMUM ≤ 0°	30	8.1	4.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.5	18.1	
H/C	NORMAL HEATING DEG. DAYS	30	1388	1096	872	478	180	28	4	11	130	432	881	1266	6766
	NORMAL COOLING DEG. DAYS	30	0	0	0	11	48	197	322	261	93	7	0	0	939
RH	NORMAL (PERCENT)	30	72	72	68	63	65	65	68	71	66	65	72	75	68
	HOUR 00 LST	30	75	77	76	71	74	75	79	82	76	73	76	78	76
	HOUR 06 LST	30	77	79	81	80	82	82	84	87	84	80	81	80	81
	HOUR 12 LST	30	64	63	59	52	52	52	55	57	52	50	62	68	57
	HOUR 18 LST	30	68	65	57	49	50	48	52	55	52	53	66	72	57
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	47	1.4	2.1	1.9	0.9	1.0	0.9	0.8	1.7	1.2	1.2	1.6	1.7	16.4
	THUNDERSTORMS	47	0.1	0.2	1.0	3.6	7.9	9.9	9.8	9.2	4.6	2.1	0.5	0.1	49.0
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	51	4.9	5.0	5.3	5.0	4.9	4.2	3.6	3.8	3.8	4.0	4.9	4.9	4.5
	MIDNIGHT-MIDNIGHT (OKTAS)	21	4.4	4.6	4.8	4.4	4.4	4.0	3.4	3.6	3.4	3.7	4.3	4.2	4.1
	MEAN NO. DAYS WITH:														
	CLEAR	51	8.8	7.7	7.4	7.8	7.8	10.1	12.6	12.5	12.9	12.2	8.4	8.8	117.0
PARTLY CLOUDY	51	7.6	7.1	7.7	8.4	9.7	10.1	11.3	10.4	7.6	7.9	7.4	7.5	102.7	
CLOUDY	51	14.5	13.5	15.9	13.8	13.5	9.8	7.1	8.1	9.5	10.9	14.2	14.7	145.5	
PR	MEAN STATION PRESSURE (IN)	26	28.41	28.39	28.31	28.30	28.30	28.30	28.30	28.40	28.40	28.40	28.41	28.36	28.36
	MEAN SEA-LEVEL PRES. (IN)	18	30.13	30.13	30.02	29.94	29.91	29.98	29.94	29.98	29.99	30.03	30.06	30.11	30.02
WINDS	MEAN SPEED (MPH)	24	11.4	11.4	13.0	13.3	11.5	10.5	9.6	9.2	10.2	10.9	11.6	11.4	11.2
	PREVAIL. DIR (TENS OF DEGS)	23	32	34	34	34	18	18	18	18	18	18	32	32	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	7	46	44	43	49	44	44	53	41	44	40	51	46	53
	DIR. (TENS OF DEGS)		33	32	19	26	07	28	30	26	21	19	31	32	30
	YEAR OF OCCURRENCE		1997	2000	1999	2001	1998	1997	2000	2000	1998	2001	1997	1997	JUL 2000
	MAXIMUM 5-SECOND:														
SPEED (MPH)	7	53	55	52	60	52	56	69	62	52	47	63	56	69	
DIR. (TENS OF DEGS)		33	34	21	26	06	35	29	27	21	25	31	33	29	
YEAR OF OCCURRENCE		1997	1999	1999	2001	1998	2001	2000	2000	1998	1997	1997	2000	JUL 2000	
PRECIPITATION	NORMAL (IN)	30	0.57	0.76	1.97	2.59	3.92	4.25	3.74	2.80	2.25	1.72	1.44	0.65	26.66
	MAXIMUM MONTHLY (IN)	58	2.33	3.18	7.27	7.47	8.61	12.22	9.11	6.16	8.13	4.57	3.97	2.25	12.22
	YEAR OF OCCURRENCE		1949	1971	1987	1984	1977	1967	1950	1998	1970	1968	1983	1982	JUN 1967
	MINIMUM MONTHLY (IN)	58	0.06	0.04	0.04	0.23	1.01	0.54	0.33	0.53	0.30	T	0.03	0.05	T
	YEAR OF OCCURRENCE		1986	1949	1994	1969	1948	1987	1954	1971	1956	1958	1980	2002	OCT 1958
	MAXIMUM IN 24 HOURS (IN)	58	1.30	2.41	2.76	2.11	4.12	5.51	3.46	5.06	3.88	2.79	2.22	1.34	5.51
	YEAR OF OCCURRENCE		1982	1971	1987	1999	1973	1974	1952	1995	1970	1968	2000	1981	JUN 1974
	NORMAL NO. DAYS WITH:														
	PRECIPITATION ≥ 0.01	30	6.2	6.1	8.4	9.5	11.3	9.5	9.5	8.3	7.5	6.2	6.2	6.0	94.7
PRECIPITATION ≥ 1.00	30	*	0.1	0.3	0.6	0.8	1.1	1.2	0.7	0.5	0.3	0.3	*	5.9	
SNOWFALL	NORMAL (IN)	30	5.9	5.5	5.6	2.7	0.*	0.0	0.0	0.0	0.*	0.7	4.9	6.0	31.3
	MAXIMUM MONTHLY (IN)	58	16.4	22.8	20.8	13.2	2.7	T	T	T	1.1	6.5	22.6	19.1	22.8
	YEAR OF OCCURRENCE		1982	1984	1960	1984	1947	1996	1996	1992	1985	1991	1983	1968	FEB 1984
	MAXIMUM IN 24 HOURS (IN)	58	12.8	22.5	9.8	9.7	2.7	T	T	T	1.1	5.6	14.6	12.1	22.5
	YEAR OF OCCURRENCE		1982	1984	1995	1984	1947	1996	1995	1992	1985	1991	1983	1978	FEB 1984
	MAXIMUM SNOW DEPTH (IN)	55	17	19	28	9	0	0	0	0	0	3	17	17	28
	YEAR OF OCCURRENCE		1969	1969	1960	1997						1997	1983	1968	MAR 1960
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	1.7	1.9	1.8	0.8	0.0	0.0	0.0	0.0	0.0	0.2	1.7	1.9	10.0	

PRECIPITATION (inches) 2003 NORFOLK, NE (OFK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	0.36	0.12	0.46	1.70	3.38	7.09	0.84	2.72	0.55	1.71	0.11	0.67	19.71
1975	1.26	0.39	0.86	4.03	2.56	7.62	3.40	2.71	0.69	0.16	3.67	0.19	27.54
1976	0.29	0.71	2.68	1.79	3.53	2.48	1.23	0.66	2.56	0.38	0.08	0.21	16.60
1977	0.26	0.81	3.58	3.45	8.61	5.04	3.25	4.33	1.82	3.00	1.52	0.51	36.18
1978	0.21	0.92	0.82	4.35	2.84	0.86	4.48	3.86	0.82	0.62	0.79	0.92	21.49
1979	1.09	0.44	4.45	1.92	5.14	3.08	4.08	2.84	1.81	4.26	1.65	0.54	31.30
1980	0.25	0.54	0.94	1.11	1.77	3.79	1.06	4.66	0.86	1.91	0.03	0.24	17.16
1981	0.14	0.39	2.57	0.36	2.34	3.39	4.16	3.63	0.57	1.49	2.10	0.73	21.87
1982	1.63	0.35	1.68	1.47	7.70	1.62	2.48	3.30	2.72	3.53	2.66	2.25	31.39
1983	0.75	0.55	3.68	2.27	3.28	6.82	2.73	1.35	1.61	1.16	3.97	0.68	28.85
1984	0.34	2.34	2.33	7.47	4.14	5.48	2.31	1.50	0.72	4.30	1.62	1.13	33.68
1985	0.25	0.15	1.46	5.49	2.85	4.53	1.62	2.48	4.61	0.96	0.89	0.47	25.76
1986	0.06	1.12	2.67	4.39	3.37	5.32	4.00	2.81	3.57	2.61	0.48	0.38	30.78
1987	0.28	0.77	7.27	0.70	5.60	0.54	3.68	3.38	3.21	1.11	1.19	0.78	28.51
1988	0.74	0.46	0.21	2.30	5.21	1.34	4.56	2.46	5.47	0.03	1.03	0.88	24.69
1989	1.18	0.58	0.90	0.90	1.71	1.96	3.68	0.89	3.61	0.33	0.06	0.75	16.55
1990	0.66	0.46	2.31	0.72	3.31	7.64	5.13	2.36	1.01	1.50	1.26	0.51	26.87
1991	0.87	0.46	1.94	2.72	7.55	6.52	1.19	1.30	1.52	1.96	2.28	0.80	29.11
1992	0.61	1.48	2.48	0.66	2.14	4.04	4.36	5.06	2.87	3.14	1.30	0.96	29.10
1993	1.30	1.70	1.14	3.68	2.41	6.39	8.97	2.86	3.17	1.40	0.82	0.43	34.27
1994	0.78	0.84	0.04	1.96	1.10	5.35	9.01	3.66	2.70	0.95	1.34	1.01	28.74
1995	0.50	0.44	2.97	3.70	6.81	1.94	2.34	5.96	5.33	2.25	0.69	0.47	33.40
1996	0.90	0.05	0.60	0.72	5.14	2.69	3.65	3.74	3.20	0.26	3.68	0.34	24.97
1997	0.10	0.86	0.58	2.54	3.34	3.97	1.76	1.37	2.75	2.42	0.12	0.37	20.18
1998	0.20	0.31	2.41	3.95	2.48	7.42	5.77	6.16	0.54	3.74	2.05	0.13	35.16
1999	0.23	0.62	0.68	5.35	4.24	5.45	4.05	2.02	0.36	0.20	0.46	0.20	23.86
2000	0.16	1.16	1.14	1.15	2.55	4.18	5.17	1.54	1.26	2.28	2.78	0.17	23.54
2001	1.16	0.34	0.75	3.02	6.32	1.17	2.84	5.52	2.34	1.05	2.94	0.06	27.51
2002	0.37	0.35	0.62	1.89	2.54	3.44	0.51	5.63	1.31	3.08	0.19	0.05	19.98
2003	0.39	0.72	0.70	2.17	4.98	2.60	2.75	1.30	4.21	1.00	1.03	0.21	22.06
POR= 58 YRS	0.58	0.75	1.66	2.32	3.82	4.32	3.40	2.82	2.29	1.57	1.02	0.58	25.13

WBAN : 14941

AVERAGE TEMPERATURE (°F) 2003 NORFOLK, NE (OFK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	16.7	29.5	39.5	51.2	61.2	68.7	81.2	69.0	60.1	54.0	37.5	25.9	49.5
1975	20.7	19.3	29.2	44.6	63.5	69.6	77.5	76.3	60.0	55.0	35.5	24.7	48.0
1976	21.5	33.8	37.2	53.4	59.7	70.9	77.2	75.2	64.5	46.0	30.8	23.2	49.5
1977	12.5	30.9	41.1	56.2	67.8	72.8	78.1	70.2	65.7	51.2	35.5	22.3	50.4
1978	8.3	12.1	33.8	49.1	60.4	72.0	75.4	72.7	69.0	50.8	34.8	17.2	46.3
1979	5.7	11.2	32.9	47.1	58.0	70.7	74.2	72.9	67.2	51.0	32.9	31.0	46.2
1980	21.8	21.4	33.6	51.4	61.1	72.4	78.9	75.5	65.3	49.7	40.2	26.4	49.8
1981	26.7	29.3	40.8	57.8	57.8	72.2	76.0	71.5	63.8	49.8	40.5	23.5	50.8
1982	9.1	22.5	33.9	46.9	61.7	65.4	75.6	72.7	62.8	52.3	34.3	28.3	47.1
1983	24.5	29.5	37.1	43.6	57.2	69.8	78.2	81.0	66.6	52.2	37.0	6.9	48.6
1984	22.8	31.4	29.0	46.0	58.5	72.1	75.3	76.5	60.8	52.8	38.9	24.2	49.0
1985	18.1	23.4	41.3	54.5	64.6	67.4	73.9	70.0	60.7	51.1	25.0	17.4	47.3
1986	30.9	24.1	42.5	50.3	61.6	72.9	76.8	69.1	63.9	51.5	33.3	28.8	50.5
1987	27.3	35.7	39.4	54.2	66.0	73.1	77.7	70.0	64.0	46.2	40.6	29.0	51.9
1988	16.2	22.9	39.5	49.2	66.2	76.2	75.4	75.4	64.8	48.0	38.4	29.3	50.1
1989	30.6	15.2	34.0	53.2	59.9	68.3	76.9	73.5	62.6	52.1	34.6	15.6	48.0
1990	31.4	29.0	40.3	49.4	57.4	72.9	73.6	74.2	67.8	51.7	40.0	20.4	50.7
1991	17.2	34.7	40.4	52.8	64.5	75.0	76.0	74.6	65.4	49.2	28.8	31.0	50.8
1992	32.6	35.7	41.6	48.7	61.1	67.8	68.5	67.6	62.9	51.5	33.2	24.2	49.6
1993	17.7	18.1	33.8	46.7	60.1	67.7	73.3	72.9	59.3	50.2	33.1	29.4	46.9
1994	17.2	18.2	40.8	49.4	64.4	73.3	71.8	70.8	67.1	54.8	39.5	25.8	49.4
1995	22.7	31.5	36.8	45.7	55.7	69.9	76.6	78.0	62.1	51.5	34.8	26.8	49.3
1996	16.4	28.6	30.7	46.3	57.0	70.7	70.9	70.8	61.0	51.1	28.7	17.3	45.8
1997	17.1	27.8	39.7	42.8	55.4	71.0	74.7	71.5	65.4	52.7	33.4	28.7	48.4
1998	25.0	34.5	29.9	49.1	64.5	66.8	75.4	73.9	69.3	53.9	40.5	29.5	51.0
1999	22.5	34.5	38.5	48.8	60.4	67.4	77.2	71.6	61.5	51.5	45.1	30.5	50.8
2000	25.9	34.1	42.8	50.0	63.6	68.8	74.9	75.8	65.3	54.2	28.4	15.3	49.9
2001	24.9	18.6	33.6	51.8	61.8	70.5	77.3	74.0	64.0	52.3	46.5	30.2	50.5
2002	29.5	30.9	29.9	51.1	57.2	74.9	79.8	72.9	65.3	44.5	36.2	31.6	50.3
2003	23.3	24.7	39.2	51.4	57.9	68.5	76.0	75.8	61.0	54.7	35.8	30.1	49.9
POR= 58 YRS	19.8	25.1	35.0	49.1	60.5	70.5	75.4	73.4	63.5	51.8	36.1	24.2	48.7

HEATING DEGREE DAYS (base 65°F) 2003 NORFOLK, NE (OFK)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0	18	190	340	817	1208	1369	1275	1107	604	105	25	7058
1975-76	2	0	207	326	877	1247	1343	900	854	352	191	15	6314
1976-77	0	1	108	587	1018	1287	1624	951	733	287	6	0	6602
1977-78	0	5	45	423	882	1318	1756	1477	965	471	187	28	7557
1978-79	1	9	49	434	900	1476	1836	1506	988	533	248	33	8013
1979-80	3	14	56	430	954	1046	1332	1258	966	423	174	8	6664
1980-81	0	1	100	473	738	1190	1180	995	741	238	235	5	5896
1981-82	9	1	98	464	727	1283	1730	1188	958	537	123	60	7178
1982-83	0	10	140	389	915	1132	1246	991	858	637	258	38	6614
1983-84	0	0	120	391	838	1798	1302	969	1109	563	220	6	7316
1984-85	0	1	196	375	775	1260	1451	1160	730	344	79	52	6423
1985-86	1	15	241	424	1195	1469	1048	1140	692	434	127	3	6789
1986-87	0	26	85	413	943	1114	1161	817	783	350	81	9	5782
1987-88	2	45	89	575	726	1110	1508	1218	783	469	61	6	6592
1988-89	4	14	96	520	790	1101	1063	1392	956	417	190	45	6588
1989-90	3	7	156	402	906	1531	1035	1002	759	500	238	19	6558
1990-91	4	0	87	425	739	1379	1477	843	755	381	149	1	6240
1991-92	0	0	130	489	1080	1048	1001	842	717	492	176	21	5996
1992-93	13	42	119	426	949	1259	1460	1308	962	545	167	52	7302
1993-94	0	11	188	473	952	1097	1472	1305	742	487	115	14	6856
1994-95	0	12	75	309	759	1209	1303	934	870	572	279	45	6367
1995-96	4	0	166	427	898	1178	1501	1051	1056	553	276	31	7141
1996-97	6	2	177	434	1080	1472	1475	1035	776	659	297	8	7421
1997-98	6	21	81	424	943	1117	1233	849	1082	471	101	82	6410
1998-99	0	0	38	339	727	1091	1313	849	814	477	164	60	5872
1999-00	1	3	161	415	590	1064	1207	888	682	448	105	36	5600
2000-01	3	3	128	338	1093	1537	1237	1293	966	417	156	42	7213
2001-02	0	1	104	399	549	1072	1096	946	1082	429	283	7	5968
2002-03	0	7	112	630	856	1028	1285	1125	796	422	230	40	6531
2003-	0	0	174	331	871	1076							

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COOLING DEGREE DAYS (base 65°F) 2003 NORFOLK, NE (OFK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	0	0	0	4	34	164	506	149	50	4	0	0	911
1975	0	0	0	1	67	171	398	359	60	24	0	0	1080
1976	0	0	0	11	32	200	387	324	100	6	0	0	1060
1977	0	0	0	30	101	241	415	174	73	0	0	0	1034
1978	0	0	4	0	56	244	330	257	176	2	0	0	1069
1979	0	0	0	2	39	212	297	268	128	0	0	0	946
1980	0	0	0	23	61	236	440	334	115	5	0	0	1214
1981	0	0	0	29	19	229	357	206	70	0	0	0	910
1982	0	0	0	2	26	76	336	255	80	2	0	0	777
1983	0	0	0	0	23	188	416	501	175	3	0	0	1306
1984	0	0	0	2	23	226	326	365	76	6	0	0	1024
1985	0	0	0	34	73	135	283	177	119	0	0	0	821
1986	0	0	4	1	30	249	372	159	56	0	0	0	871
1987	0	0	0	32	119	259	405	207	67	1	0	0	1090
1988	0	0	0	2	111	349	333	345	97	0	0	0	1237
1989	0	0	2	69	39	150	382	278	89	6	0	0	1015
1990	0	0	0	38	10	263	280	292	178	16	0	0	1077
1991	0	0	0	21	140	309	348	302	148	6	0	0	1274
1992	0	0	0	9	61	114	130	131	60	14	0	0	519
1993	0	0	0	0	25	141	263	259	23	20	0	0	731
1994	0	0	0	27	103	271	215	198	143	2	0	0	959
1995	0	0	0	0	0	197	368	408	87	17	0	0	1077
1996	0	0	0	0	36	209	198	187	65	10	0	0	705
1997	0	0	0	0	8	196	311	227	99	50	0	0	891
1998	0	0	0	2	94	142	328	284	173	3	0	0	1026
1999	0	0	0	0	24	139	384	215	62	4	0	0	828
2000	0	0	0	0	71	157	316	345	143	9	0	0	1041
2001	0	0	0	27	64	213	389	287	80	12	0	0	1072
2002	0	0	0	22	45	309	462	259	129	0	0	0	1226
2003	0	0	0	24	15	154	346	342	61	18	0	0	960

SNOWFALL (inches) 2003 NORFOLK, NE (OFK)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0.0	0.0	0.0	0.0	1.0	8.6	15.5	6.2	3.9	4.1	0.0	0.0	39.3
1975-76	0.0	0.0	0.0	T	15.8	0.7	3.0	4.7	9.6	0.0	0.0	0.0	33.8
1976-77	0.0	0.0	0.0	1.6	1.0	3.2	4.2	4.0	8.9	2.3	0.0	0.0	25.2
1977-78	0.0	0.0	0.0	T	7.6	8.9	3.4	15.1	8.4	T	0.0	0.0	43.4
1978-79	0.0	0.0	0.0	0.0	7.3	15.1	12.2	6.1	10.0	1.8	0.0	0.0	52.5
1979-80	0.0	0.0	0.0	0.1	4.2	2.5	4.4	4.7	3.7	2.6	0.0	0.0	22.2
1980-81	0.0	0.0	0.0	2.3	0.6	2.0	1.4	3.8	T	0.0	0.0	0.0	10.1
1981-82	0.0	0.0	0.0	0.5	4.3	8.7	16.4	3.8	4.8	8.6	0.0	0.0	47.1
1982-83	0.0	0.0	0.0	3.1	4.0	11.1	7.1	4.6	15.4	6.3	0.0	0.0	51.6
1983-84	0.0	0.0	T	0.0	22.6	7.8	3.5	22.8	16.2	13.2	0.0	0.0	86.1
1984-85	0.0	0.0	T	0.4	1.1	5.6	3.1	0.9	6.3	0.5	0.0	0.0	17.9
1985-86	0.0	0.0	1.1	T	7.7	6.2	0.6	4.2	5.3	6.5	0.0	0.0	31.6
1986-87	0.0	0.0	0.0	1.2	1.7	2.6	3.3	4.2	5.8	0.0	0.0	0.0	18.8
1987-88	0.0	0.0	0.0	T	3.9	3.4	7.2	4.4	0.7	3.0	0.0	0.0	22.6
1988-89	0.0	0.0	0.0	0.0	5.0	2.1	3.8	5.8	6.7	0.1	T	0.0	23.5
1989-90	T	0.0	0.0	0.0	1.2	6.0	6.5	4.1	0.3	1.1	0.0	T	19.2
1990-91	0.0	T	0.0	0.4	8.6	5.0	9.5	1.9	8.8	0.0	T	T	34.2
1991-92	0.0	0.0	0.0	6.5	9.2	T	1.0	1.7	3.0	3.1	T	0.0	24.5
1992-93	0.0	T	0.0	T	2.6	7.7	13.0	17.8	3.2	0.2	T	T	44.5
1993-94	T	0.0	0.0	T	5.0	4.6	6.4	8.4	0.5	5.3	T	0.0	30.2
1994-95	T	0.0	0.0	0.0	1.5	10.1	3.3	1.4	9.8	2.9	0.0	0.0	29.0
1995-96	T	0.0	T	1.1	1.6	6.6	13.3	0.1	6.7	3.6	0.0	T	33.0
1996-97	T	0.0	0.0	0.0	5.1	8.0	2.8	8.2	0.1	12.6	0.0	0.0	36.8
1997-98	0.0	T	0.0	2.9	0.8	3.1	1.5	0.6	12.9	0.2	T	T	22.0
1998-99	0.0	0.0	T	T	3.9	3.9	4.2	8.7	2.5	T	0.0	0.0	23.2
1999-00	0.0	0.0	0.0	0.0	1.5	2.8	1.2	3.8	0.5	T	0.0	0.0	9.8
2000-01	0.0	0.0	0.0	0.0	8.5	3.4	10.9	3.0	1.0	T	0.0	0.0	26.8
2001-02	0.0	0.0	0.0	0.0	T	1.0	6.6	3.0	7.6	T	T	0.0	18.2
2002-03	0.0	0.0	0.0	3.8	2.8	0.5	9.0	5.5	2.8	5.6	T	0.0	30.0
2003-	0.0	0.0	0.0	0.0	1.5	2.0							
POR= 57 YRS	T	T	0.0	0.6	3.6	5.6	5.8	5.7	6.0	2.3	0.2	T	29.8

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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 (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</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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2003  
NORFOLK,  
NEBRASKA (OFK)

Norfolk is located in northeastern Nebraska, in the valley of the Elkhorn River. The city of Norfolk lies at an average elevation of 1,550 feet above sea level. The surrounding country is moderately rolling in all directions. The terrain becomes more level to the south and southwest. Norfolk is situated near the western limit of the Corn Belt. To the east the climate and soils are favorable for diversified farming and dairying. To the west precipitation becomes lighter, and the farming country gives way to the grazing lands of the Great Plains. There are no local topographic features of sufficient importance to affect the climate of the area.

Northeast Nebraska has a climate typical of the interior of large continents in middle latitudes. The rainfall is moderate. Summers are hot and winters cold, and there are great variations in temperature and precipitation from day to day and from season to season. Most of the moisture which falls over this area is brought in from the Gulf of Mexico. The rapid changes in temperature are caused by the interchange of warm air from the south and southwest with cold air from the north. The rapid day to day changes in weather conditions produce an invigorating and healthful climate in northeast Nebraska.

Daily temperature ranges of 30 to 40 degrees are not uncommon. Summertime precipitation is almost wholly in the form of showers and thunderstorms. Practically all precipitation in the colder months is in the form of snow. As a rule, nearly 85 percent of the snowfall occurs from December to March and the ground is covered by snow during this period.

Norfolk is subject to the strong and persistent winds which prevail over the Great Plains states. Winds of 40 to 50 mph are not uncommon in this area, and gusts up to 100 mph have been recorded at Norfolk. Prevailing winds are from the south and southwest from May through September, with prevailing northwesterly winds during the remainder of the year.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 5 and the average last occurrence in the spring is May 1.

# STATION LOCATION

NORFOLK, NEBRASKA

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									
						GROUND	SEA LEVEL	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAUGE	WINDHOLE	8 INCH RAIN GAUGE		
*NOTE:																	
<u>AIRPORT</u>																	
Municipal Airport + South 13th Street	10/05/46	5/08/75	3.5 mi. SSW	41°59'	97°26'	1544	a51	5	5					3	3	a. 38 ft. to 9/10/59. +. Karl Stefan field renamed Karl Stefan Memorial Airport in 1965.	
N. Wing, Admin. Bldg. Karl Stefan Memorial Airport	5/08/75	04/01/96	NA	41°59'	97°26'	1544	37 d33	5	5		b5 f4	5 f4	4 f3		c5 e4	Office moved within building. Instruments moved about 30' N.  b. Installed 10/15/76. c. Commissioned 3/19/82. d. Lowered 11/1/83. e. Minor move & type change 12/20/84. f. Minor move 12/20/84.	
Karl Stefan Memorial AP	04/01/96	Present	NA	41°59'	97°26'	g1534									S	ASOS Commissioned 04/01/96 g. Ground elevation.	

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