

2003

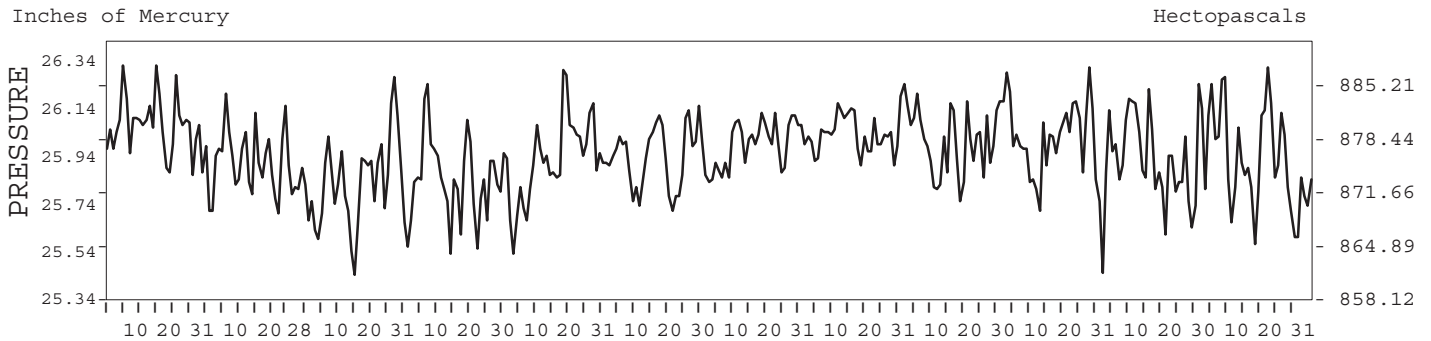
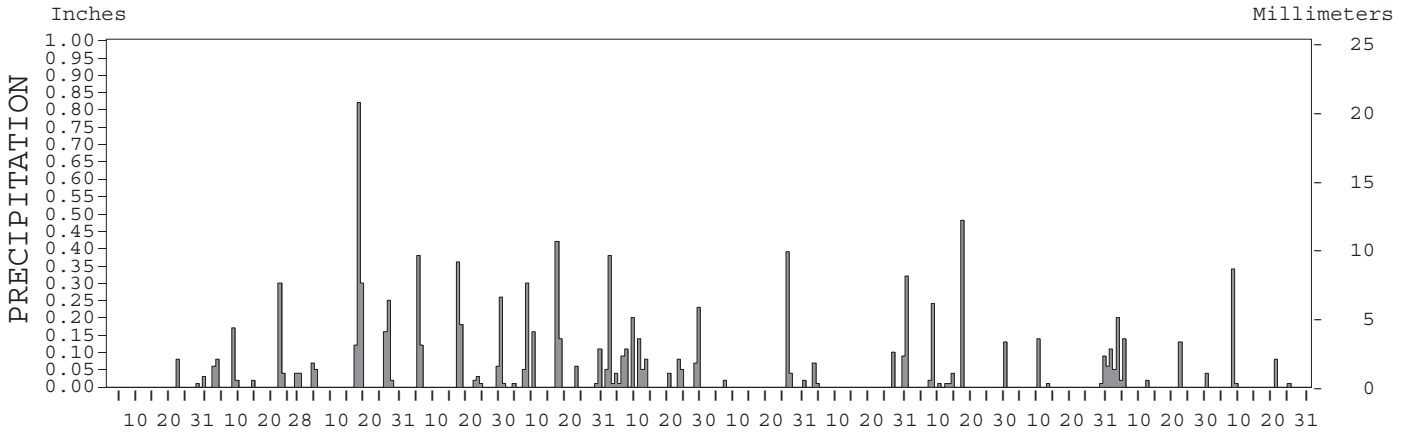
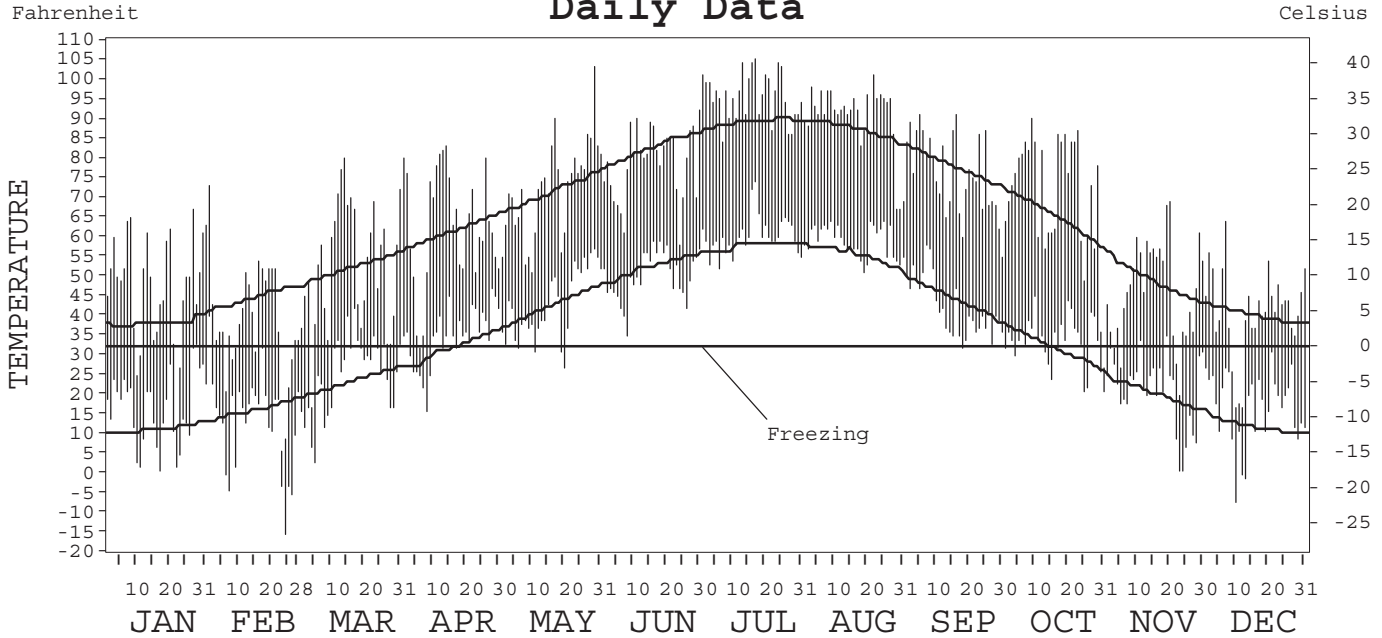
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3210

SCOTTSBLUFF, NEBRASKA (BFF)

Daily Data



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METEOROLOGICAL DATA FOR 2003

SCOTTSBLUFF, NE (BFF)

LATITUDE: 41° 52' 27" N LONGITUDE: 103° 35' 43" W ELEVATION (FT): GRND: 3946 BARO: 3949 TIME ZONE: MOUNTAIN (UTC + 7) WBAN: 24028

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	47.5	38.3	53.0	62.5	72.2	78.7	95.6	90.2	76.2	70.7	46.4	41.0	64.4	
	HIGHEST DAILY MAXIMUM	67	73	80	83	103	92	105	101	91	90	69	64	105	
	DATE OF OCCURRENCE	27	01	14	14	29	30	17	22	16+	09	20	07	JUL 17	
	MEAN DAILY MINIMUM	16.5	13.3	25.1	34.8	43.0	50.2	60.3	58.9	42.2	33.7	21.0	16.9	34.7	
	LOWEST DAILY MINIMUM	1	-15	3	16	27	35	52	51	32	21	1	-7	-15	
	DATE OF OCCURRENCE	17	24	05	08	20	08	06	19	18	31+	24+	10	FEB 24	
	AVERAGE DRY BULB	32.0	25.8	39.1	48.7	57.6	64.5	78.0	74.6	59.2	52.2	33.7	29.0	49.5	
	MEAN WET BULB	26.5								51.9	42.3	29.0	26.1		
	MEAN DEW POINT	18.1								47.2	32.7	22.7	22.6		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	2	2	27	22	2	1	0	0	56	
	MAXIMUM ≤ 32°	4	8	1	1	0	0	0	0	0	1	4	4	23	
	MINIMUM ≤ 32°	30	27	24	9	4	0	0	0	1	10	28	31	164	
MINIMUM ≤ 0°	0	6	0	0	0	0	0	0	0	0	0	3	9		
H/C	HEATING DEGREE DAYS	1018	1089	795	483	263	85	0	12	201	390	931	1112	6379	
	COOLING DEGREE DAYS	0	0	0	0	40	77	407	315	32	0	0	0	871	
RH	MEAN (PERCENT)	62	68	65	66	69	68	54	60	71	54	70	81	66	
	HOUR 05 LST	75	77	79	85	91	92	82	85	92	71	82	87	83	
	HOUR 11 LST	52	59	54	53	51	50	39	45	55	38	57	75	52	
	HOUR 17 LST	50	58	51	53	55	52	35	41	57	40	66	77	53	
	HOUR 23 LST	69	75	75	76	81	82	67	70	79	64	77	84	75	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	1	3	0	1	1	1	0	0	0	0	5	2	14	
	THUNDERSTORMS	0	0	1	5	14	18	17	14	6	3	0	1	79	
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.)	26.06	25.91	25.83	25.83	25.93	25.94	25.99	26.04	26.01	25.98	25.94	25.92	25.95	
	MEAN SEA-LEVEL PRESS. (IN.)	30.20		29.89	29.84	29.90	29.89		29.97	29.99		30.05	30.05		
WINDS	RESULTANT SPEED (MPH)	5.4		5.6	3.8	1.8	0.4	2.9	4.7		3.6	1.9	4.0		
	RES. DIR. (TENS OF DEGS.)	33		33	08	08	06	11	11		33	31	31		
	MEAN SPEED (MPH)	10.3	9.1	11.3	11.1	10.9	9.6	8.6	8.8	7.8	8.0	9.4	8.6	9.5	
	PREVAIL. DIR. (TENS OF DEGS.)	31	36	31	12	13	11	11	11	31	30	29	30	31	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	43	38	40	44	39	39	37	26	43	44	43	39	44	
	DIR. (TENS OF DEGS.)	29	29	28	17	36	34	24	27	35	28	29	31	28	
	DATE OF OCCURRENCE	30	17	06	17	29	02	26	17	12	29	11	28	OCT 29	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	54	46	47	52	49	48	45	35	54	56	54	51	56	
DIR. (TENS OF DEGS.)	29	29	28	17	36	33	24	27	35	27	29	30	27		
DATE OF OCCURRENCE	30	17	06	17	29	02	26	17	12	29	11	28	OCT 29		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.12	0.77	1.79	1.42	1.27	1.63	0.47	0.59	0.94	0.31	0.71	0.44	10.46	
	GREATEST 24-HOUR (IN.)	0.08	0.30	0.82	0.54	0.42	0.39	0.39	0.41	0.48	0.14	0.20	0.34	0.82	
	DATE OF OCCURRENCE	22	22	18	17-18	17	02-03	26	30-31	17	10	03	08	MAR 18	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	3	9	8	9	10	16	4	5	8	5	8	4	89	
PRECIPITATION ≥ 0.10	0	2	5	5	5	5	1	2	3	1	4	1	34		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	4.0	11.0	7.2	7.0	0.0	0.0	0.0	0.0	0.0	0.6	10.8	7.1	47.7	
	GREATEST 24-HOUR (IN.)	4.0	6.0	3.0	6.0	0.0	0.0	0.0	0.0	0.0	0.6	5.0	7.0	7.0	
	DATE OF OCCURRENCE	22	22-23	19	05						30-31	22	08	DEC 08	
	MAXIMUM SNOW DEPTH (IN.)	4	6	4	6	0	0	0	0	0	0	5	7	7	
	DATE OF OCCURRENCE	23	28+	01	06+							24+	10+	DEC 10+	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	1	5	3	2	0	0	0	0	0	0	3	1	15		

NORMALS, MEANS, AND EXTREMES

SCOTTSBLUFF, NE (BFF)

LATITUDE: 41° 52' 27" N
 LONGITUDE: 103° 35' 43" W
 ELEVATION (FT): GRND: 3946 BARO: 3949
 TIME ZONE: MOUNTAIN (UTC + 7)
 WBAN: 24028

	ELEMENT	POR	TEMPERATURE °F												YEAR
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	38.0	44.3	51.7	61.0	71.1	82.2	88.7	86.8	77.3	64.4	48.2	39.8	62.8
	MEAN DAILY MAXIMUM	56	38.6	43.9	50.0	60.9	71.0	81.7	89.2	87.3	77.6	65.3	49.6	40.4	63.0
	HIGHEST DAILY MAXIMUM	61	74	77	87	93	103	106	109	104	102	92	80	77	109
	YEAR OF OCCURRENCE		1982	1962	1943	1992	2003	1990	1989	1988	1998	1967	1989	1980	JUL 1989
	MEAN OF EXTREME MAXS.	56	60.5	64.7	73.4	82.5	89.7	97.4	101.2	98.8	94.3	85.1	71.5	62.4	81.8
	NORMAL DAILY MINIMUM	30	11.0	15.8	23.0	31.4	42.4	52.1	57.4	54.9	43.7	31.3	19.7	11.6	32.9
	MEAN DAILY MINIMUM	56	12.0	16.4	22.7	32.3	43.3	52.9	58.8	56.5	45.8	33.6	21.8	13.9	34.2
	LOWEST DAILY MINIMUM	61	-32	-28	-27	-8	15	30	40	39	19	-6	-13	-42	-42
	YEAR OF OCCURRENCE		1963	1962	1948	1975	1983	1969	1959	1944	1985	1991	1947	1989	DEC 1989
	MEAN OF EXTREME MINS.	56	-11.2	-6.0	2.2	16.2	29.9	40.4	49.5	47.0	31.2	18.4	2.7	-9.1	17.6
	NORMAL DRY BULB	30	24.5	30.0	37.3	46.2	56.8	67.2	73.0	70.9	60.5	47.8	34.0	25.7	47.8
	MEAN DRY BULB	56	25.2	30.1	36.4	46.5	57.2	67.3	74.1	71.9	61.8	49.5	35.8	27.3	48.6
	MEAN WET BULB	20	23.0	25.1	31.4	38.9	49.2	56.8	61.3	60.5	51.2	39.8	29.2	22.6	40.8
	MEAN DEW POINT	20	15.5	16.9	22.7	29.6	41.2	49.1	54.7	53.9	43.6	31.1	21.7	15.6	33.0
	NORMAL NO. DAYS WITH:	MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	1.0	7.8	15.9	13.6	4.9	0.1	0.0	0.0
MAXIMUM ≤ 32°		30	9.2	5.9	2.7	0.6	0.0	0.0	0.0	0.0	*	0.4	3.9	8.2	30.9
MINIMUM ≤ 32°		30	30.0	27.1	26.6	14.7	1.9	0.0	0.0	0.0	1.6	12.8	26.8	30.2	171.7
MINIMUM ≤ 0°		30	5.6	3.3	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.1	4.4	15.3
H/C		NORMAL HEATING DEG. DAYS	30	1241	969	843	549	259	53	9	12	170	517	917	1203
	NORMAL COOLING DEG. DAYS	30	0	0	0	1	19	135	273	211	51	0	0	0	690
RH	NORMAL (PERCENT)	30	66	62	61	58	59	58	57	60	57	58	64	66	60
	HOUR 05 LST	30	74	75	77	77	80	80	81	84	80	76	76	75	78
	HOUR 11 LST	30	58	52	50	45	46	43	43	44	42	43	52	56	48
	HOUR 17 LST	30	58	48	44	40	42	38	36	39	37	40	54	58	44
	HOUR 23 LST	30	72	70	69	67	69	68	67	71	68	67	71	72	69
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISBY ≤ 1/4 MI)	59	1.2	0.9	1.7	0.7	0.7	0.5	0.4	0.8	0.9	1.0	1.5	1.1	11.4
	THUNDERSTORMS	59	0.0	0.0	0.3	2.1	7.8	11.4	10.8	8.5	4.2	1.0	0.1	0.0	46.2
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	1		4.0			7.2	3.2							
	MIDNIGHT-MIDNIGHT (OKTAS)	1					8.0	3.2							
	MEAN NO. DAYS WITH: CLEAR	1	1.0	6.0	3.0		2.0	16.0							
	PARTLY CLOUDY	1	2.0	8.0	3.0		13.0	5.0							
	CLOUDY	1	7.0	3.0	9.0		13.0	4.0							
PR	MEAN STATION PRESSURE (IN)	30	25.95	25.94	25.88	25.90	25.91	25.95	26.00	26.01	26.01	26.00	25.95	25.96	25.95
	MEAN SEA-LEVEL PRES. (IN)	20	30.10	30.09	29.99	29.93	29.88	29.88	29.92	29.94	29.97	30.03	30.05	30.12	29.99
WINDS	MEAN SPEED (MPH)	44	10.7	11.3	12.3	12.7	11.9	10.7	9.4	9.0	9.3	9.8	10.4	10.6	10.7
	PREVAIL. DIR (TENS OF DEGS)	29	30	30	30	30	30	13	10	11	30	30	30	30	30
	MAXIMUM 2-MINUTE: SPEED (MPH)	8	45	48	53	55	51	46	45	43	43	48	46	47	55
	DIR. (TENS OF DEGS)		28	32	30	31	33	27	28	01	35	31	28	29	31
	YEAR OF OCCURRENCE		1996	1996	1997	1997	1999	1997	1997	2002	2003	1996	2000	1997	APR 1997
	MAXIMUM 5-SECOND: SPEED (MPH)	8	54	59	60	68	61	55	59	56	54	57	55	59	68
	DIR. (TENS OF DEGS)		29	31	31	31	32	27	34	36	35	29	28	31	
	YEAR OF OCCURRENCE		2003	1998	1997	1997	1999	1997	2001	2002	2003	1996	2000	1997	APR 1997
PRECIPITATION	NORMAL (IN)	30	0.54	0.58	1.16	1.79	2.70	2.65	2.13	1.19	1.22	1.01	0.80	0.56	16.33
	MAXIMUM MONTHLY (IN)	61	1.26	1.93	2.64	3.89	7.25	8.33	4.82	3.48	4.22	3.02	2.15	1.54	8.33
	YEAR OF OCCURRENCE		1978	1986	1990	1984	1987	1947	1978	2002	1973	1969	1993	1978	JUN 1947
	MINIMUM MONTHLY (IN)	61	T	T	0.17	0.29	0.27	0.59	0.07	0.04	T	0.04	T	0.02	T
	YEAR OF OCCURRENCE		1989	1996	1966	1962	1966	1950	1946	2001	1953	1956	1943	2002	FEB 1996
	MAXIMUM IN 24 HOURS (IN)	61	0.92	0.88	1.68	2.11	2.62	3.74	2.53	2.01	3.28	1.62	1.43	0.90	3.74
	YEAR OF OCCURRENCE		1976	1987	1974	1997	1988	1953	1948	1987	1951	1994	1993	1975	JUN 1953
NORMAL NO. DAYS WITH:	PRECIPITATION ≥ 0.01	30	6.2	5.4	7.4	9.3	11.2	10.2	9.1	7.3	7.1	5.6	5.3	5.7	89.8
	PRECIPITATION ≥ 1.00	30	0.0	0.0	0.1	0.2	0.5	0.5	0.4	0.1	0.1	0.1	*	0.0	2.0
SNOWFALL	NORMAL (IN)	30	6.9	6.2	8.9	5.0	0.6	0.0	0.0	0.0	0.6	2.3	6.6	7.1	44.2
	MAXIMUM MONTHLY (IN)	61	23.7	23.4	23.5	22.2	7.5	0.1	T	T	5.7	21.6	18.5	18.1	23.7
	YEAR OF OCCURRENCE		1949	1987	1980	1997	1967	1951	1993	1998	2000	1969	1983	1985	JAN 1949
	MAXIMUM IN 24 HOURS (IN)	61	11.2	9.8	15.0	11.3	3.7	0.1	T	T	4.8	8.5	8.4	10.9	15.0
	YEAR OF OCCURRENCE		1976	1987	1974	1988	1979	1951	1993	1996	1985	1969	1979	1975	MAR 1974
	MAXIMUM SNOW DEPTH (IN)	55	19	18	14	10	2	0	0	0	4	8	12	12	19
	YEAR OF OCCURRENCE		1949	1949	1987	1975	1983			1985	1969	1979	1987	JAN 1949	
NORMAL NO. DAYS WITH:	SNOWFALL ≥ 1.0	30	2.0	2.1	2.9	1.6	0.2	0.0	0.0	0.0	0.2	0.7	2.1	2.2	14.0

PRECIPITATION (inches) 2003 SCOTTSBLUFF, NE (BFF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	0.57	0.10	1.99	0.35	0.79	0.98	0.66	1.58	0.94	0.48	0.42	0.18	9.04
1975	0.32	0.46	1.73	1.78	2.25	1.47	1.60	0.47	0.26	0.74	0.45	1.18	12.71
1976	0.96	0.29	0.36	2.48	2.27	1.31	0.25	0.78	0.22	0.35	0.35	0.10	9.72
1977	0.52	0.02	2.04	2.12	2.07	4.06	1.22	0.63	0.39	0.13	0.91	0.82	14.93
1978	1.26	1.17	0.68	1.24	4.37	2.41	4.82	1.25	0.09	0.74	0.62	1.54	20.19
1979	0.74	0.10	1.22	0.90	1.33	2.59	3.17	2.51	0.74	1.66	1.60	0.49	17.05
1980	1.21	0.99	2.16	0.57	2.82	0.79	1.07	0.47	0.47	0.76	0.57	0.15	12.03
1981	0.69	0.14	0.59	1.47	2.75	2.54	3.54	1.10	0.39	0.34	0.26	0.19	14.00
1982	0.32	0.20	0.46	0.50	2.93	6.63	4.78	1.66	1.78	1.22	0.80	0.57	21.85
1983	0.29	0.04	1.94	2.33	4.20	1.81	0.69	1.23	0.13	0.68	1.75	0.60	15.69
1984	0.44	0.50	1.47	3.89	1.23	1.23	1.80	0.57	0.45	0.88	0.28	0.50	13.24
1985	0.64	0.20	0.37	1.23	0.86	1.76	0.80	0.18	2.71	1.01	1.28	1.17	12.21
1986	0.07	1.93	0.83	2.49	1.51	5.55	4.00	1.01	1.86	1.42	0.81	0.26	21.74
1987	0.34	1.88	1.70	0.44	7.25	4.13	1.14	3.42	0.90	0.08	0.95	1.01	23.24
1988	0.80	0.11	1.11	2.27	5.19	2.29	0.85	0.80	0.97	0.11	0.46	0.40	15.36
1989	T	1.03	0.77	0.65	1.89	1.15	0.32	1.13	1.63	0.70	0.07	0.65	9.99
1990	0.59	0.72	2.64	1.75	2.94	1.14	3.10	1.23	0.97	0.99	1.25	0.36	17.68
1991	0.46	0.39	0.50	1.16	4.35	4.00	0.56	0.11	0.90	1.17	0.72	0.02	14.34
1992	0.81	0.86	1.22	0.34	2.03	3.00	2.96	1.65	0.17	1.15	0.98	0.66	15.83
1993	0.45	1.64	1.36	1.95	0.98	5.55	3.10	2.53	2.17	2.35	2.15	0.59	24.82
1994	0.59	0.77	0.73	1.96	1.10	2.80	2.56	0.45	0.66	2.76	0.64	0.95	15.97
1995	1.07	0.60	0.37	2.41	4.59	3.46	0.87	0.08	1.36	0.84	0.50	0.55	16.70
1996	0.83	T	1.03	0.91	4.48	1.02	2.06	2.24	2.44	0.42	0.89	0.22	16.54
1997	0.26	0.36	0.18	3.89	5.34	3.40	2.28	1.46	0.93	1.83	0.11	0.31	20.35
1998	0.20	0.64	1.30	1.53	1.46	2.32	3.38	1.19	0.41	2.76	1.20	0.86	17.25
1999	0.07	0.22	1.03	3.47	1.45	3.70	1.71	2.34	2.40	0.06	0.24	0.13	16.82
2000	0.48	0.89	1.04	2.80	1.48	0.68	1.70	0.33	2.31	2.47	0.37	0.24	14.79
2001	0.28	0.29	0.42	3.03	2.22	1.70	2.79	0.04	1.01	0.94	0.30	T	13.02
2002	0.05	0.03	0.66	0.44	0.73	0.59	0.08	3.48	0.69	0.87	0.15	T	7.77
2003	0.12	0.77	1.79	1.42	1.27	1.63	0.47	0.59	0.94	0.31	0.71	0.44	10.46
POR= 112 YRS	0.42	0.50	0.93	1.81	2.73	2.72	1.78	1.24	1.23	0.94	0.52	0.50	15.32

WBAN : 24028

AVERAGE TEMPERATURE (°F) 2003 SCOTTSBLUFF, NE (BFF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	19.6	33.9	38.9	47.4	58.1	69.5	76.5	68.3	56.4	52.1	36.3	28.1	48.8
1975	26.6	25.3	33.1	44.5	56.5	65.6	77.2	72.2	59.7	50.9	35.6	31.9	48.3
1976	25.1	37.2	36.6	49.1	58.2	68.1	76.4	72.2	63.1	47.3	34.7	32.2	50.0
1977	20.8	36.6	38.1	53.0	63.5	73.1	76.3	70.2	65.4	51.6	38.1	28.3	51.3
1978	18.3	22.0	40.5	49.6	56.6	69.0	74.9	70.5	66.2	51.6	33.8	18.9	47.7
1979	10.4	28.1	41.0	50.1	56.1	68.6	75.0	71.7	67.0	53.1	32.0	34.3	49.0
1980	23.1	29.7	36.1	49.4	58.6	72.3	78.2	73.1	66.3	51.6	40.8	37.0	51.4
1981	32.5	32.8	42.7	56.4	57.4	71.3	76.2	72.8	66.9	50.9	42.7	31.2	52.8
1982	22.5	27.7	37.6	43.9	55.6	62.8	72.8	74.2	62.1	48.5	34.2	27.9	47.5
1983	32.6	36.5	36.8	40.7	51.1	63.9	74.2	76.7	63.9	51.5	34.2	12.4	47.9
1984	27.3	35.5	37.4	42.2	58.8	66.8	74.8	76.4	59.9	46.2	37.6	24.8	49.0
1985	20.8	25.6	39.5	50.7	61.7	66.3	75.2	71.6	57.4	47.5	22.0	20.2	46.5
1986	32.9	27.9	44.3	47.3	55.3	69.5	72.6	70.9	59.6	48.5	35.2	28.7	49.4
1987	29.0	33.8	33.3	51.0	60.4	68.3	74.7	68.9	60.5	47.6	38.5	25.2	49.3
1988	18.1	30.4	35.9	46.8	58.2	72.7	74.6	72.6	60.4	50.4	37.2	28.1	48.8
1989	30.4	18.4	35.8	48.2	58.4	66.4	77.1	72.5	61.2	48.8	39.3	20.5	48.1
1990	32.3	29.8	37.4	46.8	54.3	70.4	71.7	71.1	65.9	48.8	39.1	20.6	49.0
1991	22.7	37.3	38.9	45.9	59.2	68.2	74.0	73.9	62.7	47.6	32.7	31.9	49.6
1992	31.2	37.8	41.2	50.4	59.7	65.9	68.6	67.1	62.4	49.8	30.8	18.6	48.6
1993	20.9	17.6	37.7	45.9	58.8	63.1	69.9	68.6	57.2	46.4	29.4	30.0	45.5
1994	27.8	26.7	40.6	47.3	62.6	71.1	71.3	73.4	64.9	49.2	35.9	29.4	50.0
1995	24.5	34.4	37.9	42.9	50.9	64.0	71.9	73.9	59.9	46.6	38.4	27.1	47.7
1996	21.4	31.0	32.9	46.9	56.4	69.1	72.3	71.0	60.2	47.8	31.9	27.6	47.4
1997	24.8	30.0	39.3	39.6	56.1	67.8	72.4	69.7	63.5	49.0	34.0	29.6	48.0
1998	28.8	34.8	34.6	45.9	58.8	62.2	74.9	73.2	68.1	48.3	39.8	26.2	49.6
1999	31.6	37.8	40.4	43.6	55.9	66.7	75.2	72.4	57.6	49.9	43.1	33.0	50.6
2000	29.9	35.8	40.1	47.2	59.5	67.1	76.3	75.8	62.6	49.9	26.8	23.8	49.6
2001	28.9	26.0	38.4	47.6	56.8	67.7	76.6	73.8	64.4	49.0	38.7	29.9	49.8
2002	29.3	31.3	30.1	48.5	55.6	72.8	77.5	70.8	61.6	42.4	36.5	31.5	49.0
2003	32.0	25.8	39.1	48.7	57.6	64.5	78.0	74.6	59.2	52.2	33.7	29.0	49.5
POR= 111 YRS	25.7	29.3	36.3	46.7	56.9	67.0	73.0	71.6	61.7	49.6	36.4	27.7	48.5

HEATING DEGREE DAYS (base 65°F) 2003 SCOTTSBLUFF, NE (BFF)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0	28	265	394	854	1135	1183	1105	981	609	268	75	6897
1975-76	0	11	193	434	873	1019	1235	799	874	469	222	46	6175
1976-77	0	8	120	542	903	1011	1362	789	826	360	84	4	6009
1977-78	0	23	72	407	800	1131	1444	1199	752	458	286	54	6626
1978-79	2	20	99	412	930	1425	1690	1029	737	447	288	50	7129
1979-80	0	10	55	363	984	946	1295	1019	889	463	215	8	6247
1980-81	0	1	61	411	721	859	998	897	684	261	253	16	5162
1981-82	6	0	42	432	662	1044	1307	1039	842	629	289	101	6393
1982-83	4	1	155	503	921	1142	997	792	864	722	429	112	6642
1983-84	7	0	126	412	919	1627	1165	851	850	677	219	60	6913
1984-85	0	0	223	574	812	1238	1367	1096	780	422	139	75	6726
1985-86	0	16	286	534	1284	1378	986	1036	636	524	297	27	7004
1986-87	0	0	162	504	891	1118	1110	868	978	420	156	28	6235
1987-88	10	37	153	532	788	1228	1446	999	894	539	241	17	6884
1988-89	1	4	154	446	825	1138	1065	1303	897	511	214	71	6629
1989-90	0	0	169	497	764	1372	1009	977	850	541	327	30	6536
1990-91	18	4	79	497	771	1372	1307	771	802	570	220	19	6430
1991-92	5	0	137	536	965	1018	1042	783	731	438	194	45	5894
1992-93	22	57	107	465	1019	1430	1362	1323	841	567	204	121	7518
1993-94	3	23	237	568	1061	1078	1147	1066	751	521	121	13	6589
1994-95	10	14	84	483	868	1095	1251	851	832	658	429	101	6676
1995-96	10	1	211	561	791	1166	1346	981	991	537	286	30	6911
1996-97	2	2	190	526	985	1152	1242	972	790	755	279	24	6919
1997-98	13	14	121	496	926	1088	1115	840	936	565	203	144	6461
1998-99	4	0	50	511	748	1192	1030	757	757	635	279	47	6010
1999-00	0	7	231	461	652	983	1082	840	768	533	191	58	5806
2000-01	0	3	172	459	1142	1265	1112	1086	817	518	259	80	6913
2001-02	0	3	85	490	784	1082	1102	940	1076	492	310	18	6382
2002-03	0	14	163	691	849	1031	1018	1089	795	483	263	85	6481
2003-	0	12	201	390	931	1112							

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COOLING DEGREE DAYS (base 65°F) 2003 SCOTTSBLUFF, NE (BFF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	0	0	0	0	24	192	363	135	15	0	0	0	729
1975	0	0	0	1	12	101	386	245	43	4	0	0	792
1976	0	0	0	0	18	146	359	240	66	1	0	0	830
1977	0	0	0	6	45	254	356	194	90	0	0	0	945
1978	0	0	0	0	34	180	316	198	141	0	0	0	869
1979	0	0	0	8	19	163	317	224	121	1	0	0	853
1980	0	0	0	1	22	234	417	263	104	3	0	0	1044
1981	0	0	0	10	23	213	361	250	107	3	0	0	967
1982	0	0	0	0	3	40	251	291	74	0	0	0	659
1983	0	0	0	0	6	82	297	369	99	0	0	0	853
1984	0	0	0	0	35	124	311	359	78	0	0	0	907
1985	0	0	0	3	42	121	324	225	66	0	0	0	781
1986	0	0	0	0	1	167	243	192	10	0	0	0	613
1987	0	0	0	5	20	134	320	164	26	0	0	0	669
1988	0	0	0	0	37	256	302	248	22	0	0	0	865
1989	0	0	0	10	18	118	382	242	61	0	0	0	831
1990	0	0	0	0	1	199	232	202	113	3	0	0	750
1991	0	0	0	2	46	125	289	284	73	2	0	0	821
1992	0	0	0	7	36	79	140	131	39	0	0	0	432
1993	0	0	0	0	18	71	159	142	10	0	0	0	400
1994	0	0	0	0	51	203	213	279	86	0	0	0	832
1995	0	0	0	0	0	78	232	281	64	0	0	0	655
1996	0	0	0	0	26	161	234	195	52	0	0	0	668
1997	0	0	0	0	8	115	247	168	85	5	0	0	628
1998	0	0	0	0	18	68	319	262	150	0	0	0	817
1999	0	0	0	0	5	104	326	243	14	0	0	0	692
2000	0	0	0	0	31	130	356	344	107	0	0	0	968
2001	0	0	0	0	13	169	369	278	74	0	0	0	903
2002	0	0	0	4	23	256	393	199	67	0	0	0	942
2003	0	0	0	0	40	77	407	315	32	0	0	0	871

SNOWFALL (inches) 2003 SCOTTSBLUFF, NE (BFF)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0.0	0.0	3.8	T	T	2.7	5.9	5.8	17.7	10.7	T	0.0	46.6
1975-76	0.0	0.0	0.0	6.1	4.7	15.5	12.0	5.5	5.9	0.9	0.0	T	50.6
1976-77	0.0	0.0	0.0	0.1	5.4	1.3	8.1	0.1	10.9	1.0	0.0	0.0	26.9
1977-78	0.0	0.0	0.0	0.4	6.3	11.8	14.9	15.3	1.6	0.8	3.4	0.0	54.5
1978-79	0.0	0.0	0.0	2.9	7.2	17.5	10.5	1.6	7.7	4.3	6.4	0.0	58.1
1979-80	0.0	0.0	0.0	3.8	13.5	5.3	17.1	10.6	23.5	3.9	0.8	0.0	78.5
1980-81	0.0	0.0	0.0	1.2	3.7	1.7	8.3	2.1	3.2	1.3	0.0	0.0	21.5
1981-82	0.0	0.0	0.0	0.6	0.2	1.8	4.4	3.8	2.8	2.1	T	0.0	15.7
1982-83	0.0	0.0	0.0	5.3	4.3	4.9	2.8	T	16.4	8.9	2.6	0.0	45.2
1983-84	0.0	0.0	T	0.0	18.5	7.9	4.8	2.7	13.5	13.3	1.2	0.0	61.9
1984-85	0.0	0.0	1.6	2.2	2.5	7.1	7.2	2.3	3.2	1.7	0.0	0.0	27.8
1985-86	0.0	0.0	5.1	0.3	17.5	18.1	0.5	16.0	6.0	12.5	1.0	0.0	77.0
1986-87	0.0	0.0	0.0	1.5	5.1	2.8	3.7	23.4	16.6	0.4	0.0	0.0	53.5
1987-88	0.0	0.0	0.0	0.3	5.8	17.0	14.6	1.9	10.6	11.6	T	0.0	61.8
1988-89	0.0	0.0	0.0	T	3.5	4.1	T	13.0	9.2	2.7	T	T	32.5
1989-90	0.0	0.0	T	2.0	0.6	11.6	7.0	8.6	18.6	6.0	1.5	0.0	55.9
1990-91	0.0	0.0	0.0	7.6	10.7	4.4	5.7	2.2	4.2	2.6	1.8	T	39.2
1991-92	0.0	0.0	0.0	5.9	4.7	0.1	7.8	1.0	6.6	T	0.0	T	26.1
1992-93	T	0.0	T	4.1	10.3	10.4	7.9	19.0	11.5	2.0	T	T	65.2
1993-94	T	0.0	2.5	3.3	11.1	6.2	7.1	8.9	0.1	8.7	0.0	T	47.9
1994-95	0.0	0.0	T	T	4.2	11.0	11.5	9.9	3.4	7.6	T	T	47.6
1995-96	0.0	0.0	0.5	1.8	3.5	6.2	11.0	T	7.8	2.7	T	0.0	33.5
1996-97	0.0	T	0.0	0.7	8.3	3.7	2.7	T	T	22.2	0.0	T	T
1997-98	0.0	0.0	0.0	8.0	1.1	3.1	1.6	3.0	7.0	2.3	T	0.0	26.1
1998-99	T	T	0.0	T	11.9	8.0	0.6	1.6	7.2	4.1	T	0.0	33.4
1999-00	0.0	0.0	0.0	0.0	1.8	1.0	7.0	10.0	6.0	0.4	0.0	0.0	26.2
2000-01	0.0	0.0	5.7	T	2.5	5.0	4.5	8.8	4.8	7.0	T	0.0	38.3
2001-02	0.0	0.0	0.0	0.0	4.8	T	T	0.4	1.6	1.0	0.0	0.0	7.8
2002-03	0.0	0.0	0.0	9.0	2.5	T	4.0	11.0	7.2	7.0	0.0	0.0	40.7
2003-	0.0	0.0	0.0	0.6	10.8	7.1							
POR= 59 YRS	T	0.0	0.5	2.6	5.3	6.2	6.2	5.7	8.3	4.8	0.9	0.0	40.5

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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
SCOTTSBLUFF,
NEBRASKA (BFF)

Scottsbluff is located in the North Platte river valley that extends from central Wyoming southeast across western Nebraska. The valley is approximately 20 miles wide in the vicinity of Scottsbluff with a range of hills both to the north and south, parallel to the river. To the south the hills average 600 to 700 feet above the river with some projections upward to 1,000 feet. To the north, rolling hills range from 300 to 400 feet higher than the river.

Due to the protection of the higher hills to the south, southerly winds in the valley are rare. Prevailing winds are west to northwest during the winter months and east to southeast during the summer months. West to northwest winds are intensified by the funneling action of the valley and velocities of 30 to 50 mph are common during the winter and early spring. Quite often these winds are warmed by the downslope (chinook) effect from the higher elevations to the west and bring rapid warming and melting of the snow. Outbreaks of Arctic air bring cold wave conditions about five times each season. Snow with strong winds causing blowing and drifting snow occur several times each winter with a severe blizzard of extended duration occurring about once every thirty years. Easterly winds during the winter and early spring cause upslope conditions with low cloudiness and precipitation.

The average temperature is in the upper 40s. Summertime highs generally range from the 80s to the 90s with lows around 60. Summer temperatures of 100 degrees are reached or exceeded at least once each summer. In winter, highs average about 40 degrees with lows in the teens. Temperatures of zero or below occur about 15 times each winter.

Most of the precipitation occurs as thunderstorms during the spring and summer months. Severe thunderstorms with destructive hail are quite common during the late spring and summer. Tornadoes are infrequent and usually of short duration.

The Platte River in the vicinity of Scottsbluff is a wide shallow stream and has very little effect on the climate. Water stored in numerous upstream reservoirs is used for extensive irrigation in the valley. Lowland flooding occurs when heavy rains fall upstream and a greater than normal amount of water is being released from the upstream reservoirs.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is September 29 and the average last occurrence in the spring is May 7.

STATION LOCATION

SCOTTSBLUFF, 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
						GROUND											
						SEA LEVEL	GROUND	WIND	EX-TREME	PSYCHROMETER	SUNSHINE	TIPPING GAUGE	RAINING	8 INCH RAIN GAGE	HYGROMETER		
NOTE: <u>AIRPORT</u> Municipal Airport	12/17/53	06/01/95	300' NE	41°52'	103°36'	c3957	a20 f30	5	5			5 d4	3 d4	b6 5		a. 50 ft. to 8/2/64. b. Commissioned 3400 ft. NW of thermometer site 8/22/64. c. 3950 ft. to 8/22/64. d. Relocated July 1969. e. Minor adjustment 4/1981. f. Minor adjustment 8/22/82.	
*Scotts Bluff County Airport effective 8/1/70 Scotts Bluff County AP	06/01/95	Present	NA	41°52'	103°36'	g3946								S		ASOS Commissioned 06/01/95 g. Ground elevation.	

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* NOTES: For earlier station history see previous editions.