

1999

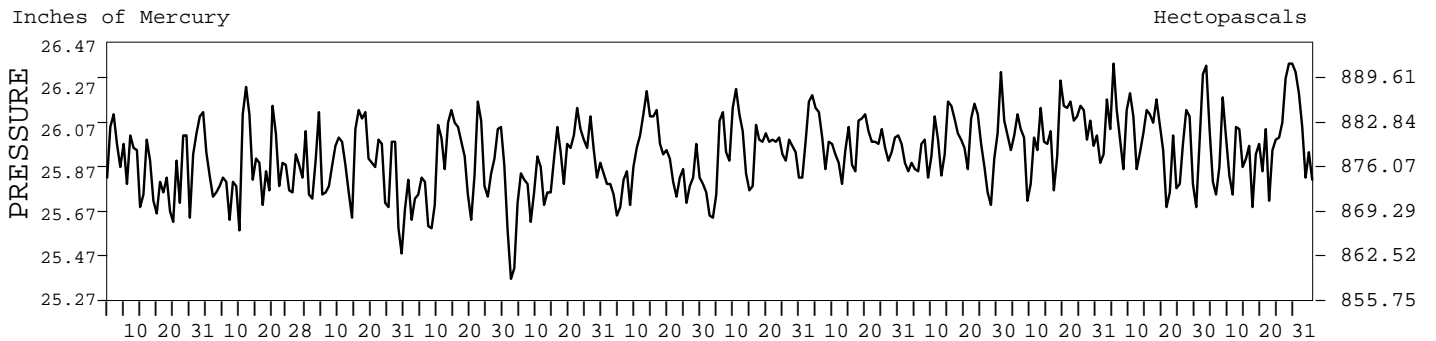
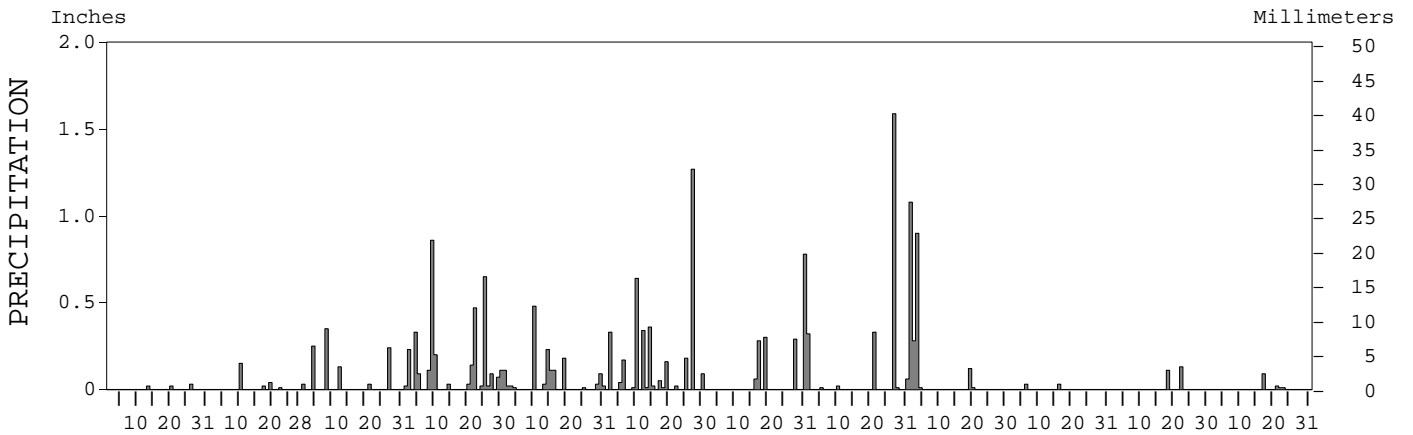
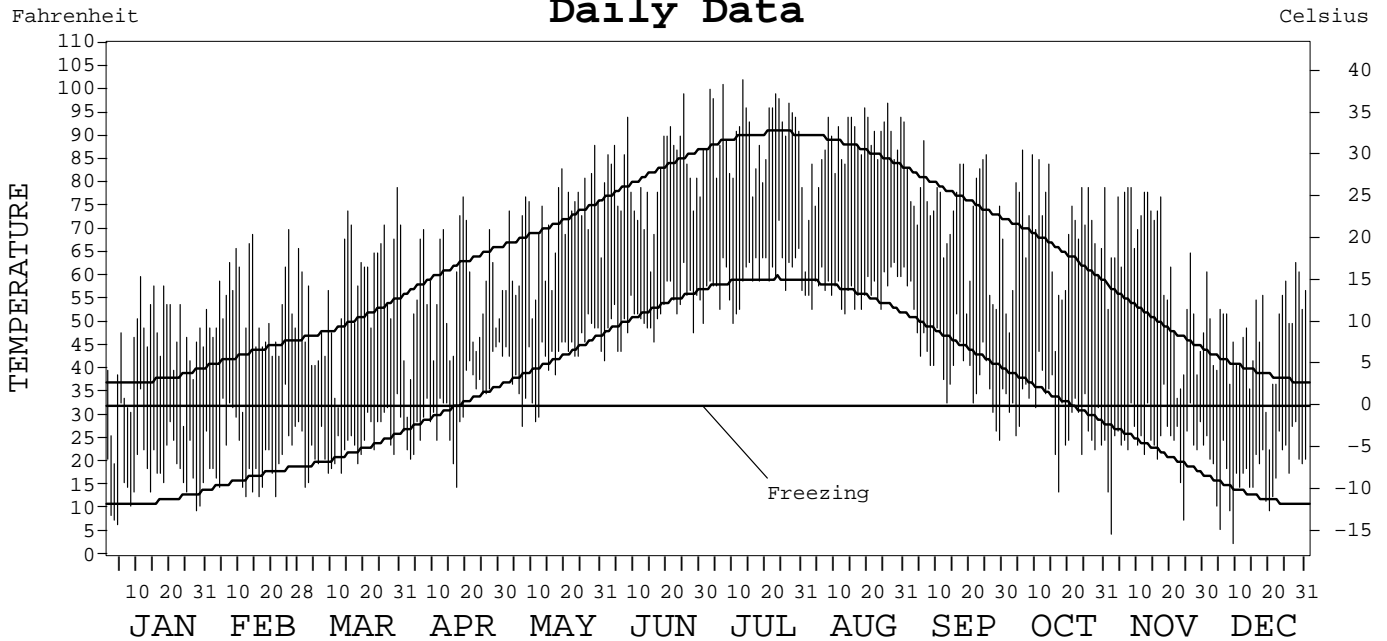
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3210

SCOTTSBLUFF,
NEBRASKA (BFF)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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 ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 1999

SCOTTSBLUFF, NE (BFF)

LATITUDE: 41° 52' 27" N LONGITUDE: 103° 35' 43" W ELEVATION (FT): GRND: 3947 BARO: 3947 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	44.5	53.4	56.5	55.4	69.7	81.4	90.6	87.4	73.3	69.2	61.6	47.6	65.9	
	HIGHEST DAILY MAXIMUM	60	70	79	77	88	99	102	97	89	87	79	63	102	
	DATE OF OCCURRENCE	11	25	30	19	29	25	13	26	06	06	08+	28	JUL 13	
	MEAN DAILY MINIMUM	18.6	22.1	24.3	31.7	42.0	52.0	59.7	57.4	41.9	30.6	24.5	18.4	35.3	
	LOWEST DAILY MINIMUM	7	13	15	15	28	42	50	52	25	14	5	3	3	
	DATE OF OCCURRENCE	04	21+	02	17	07	01	10+	13	29	17	02	09	DEC 09	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	27.1	30.4	33.6	38.7	48.5	57.4		61.8	49.2	39.4	33.1	26.8		
	MEAN DEW POINT	19.8	18.0	24.8	32.7	41.8	51.2		55.9	42.1	28.0	21.0	17.3		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	6	18	15	0	0	0	0	0	39
	MAXIMUM ≤ 32°	5	1	1	1	0	0	0	0	0	0	0	2	10	
	MINIMUM ≤ 32°	29	25	30	15	3	0	0	0	3	17	26	31	179	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	1030	757	757	635	279	47	0	7	231	461	652	983	5839	
	COOLING DEGREE DAYS	0	0	0	0	5	104	326	243	14	0	0	0	692	
RH	MEAN (PERCENT)	66	50	62	70	65	64	58	64	64	51	52	58	60	
	HOUR 05 LST	76	65	84	88	86	87	86	89	87	74	68	72	80	
	HOUR 11 LST	54	36	48	59	49	49	42	49	47	35	40	46	46	
	HOUR 17 LST	54	33	40	54	45	44	36	43	42	32	42	48	43	
	HOUR 23 LST	73	59	73	79	78	79	70	75	77	59	60	66	71	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	1	2	3	2	3	0	4	1	0	4	0	20	
	THUNDERSTORMS	0	0	0	4	13	15	13	10	5	1	0	0	62	
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.)	25.91	25.88	25.91	25.90	25.87	25.91	25.97	26.02	26.01	26.06	26.05	26.01	25.96	
	MEAN SEA-LEVEL PRESS. (IN.)	30.02		29.97	29.94	29.85	29.85		29.95	30.01		30.12	30.13		
WINDS	RESULTANT SPEED (MPH)	5.4	8.7	2.9	3.5	1.6	2.6	2.3	1.1	1.7	2.4	4.0	7.6	2.1	
	RES. DIR. (TENS OF DEGS.)	32	30	12	02	36	10	08	15	36	35	31	31	33	
	MEAN SPEED (MPH)	10.1	13.3	11.2	12.1	11.1	9.8	8.3	7.8	7.3	8.5	8.3	9.7	9.8	
	PREVAIL. DIR. (TENS OF DEGS.)	29	29	11	12	13	12	12	11	31	31	29	31	31	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	40	46	41	45	51	43	30	36	35	36	46	46	51	
	DIR. (TENS OF DEGS.)	33	29	31	32	33	28	11	25	29	33	30	28	33	
	DATE OF OCCURRENCE	02	03	05	10	06	05	02	11	25	29	18	18	MAY 06	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	48	59	46	54	61	51	36	46	41	43	55	55	61	
DIR. (TENS OF DEGS.)	33	29	03	32	32	27	11	25	03	34	31	28	32		
DATE OF OCCURRENCE	02	03	31+	10	06	05	02	11	25	29	18	18	MAY 06		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.03	0.15	0.35	1.06	0.48	1.27	0.78	1.60	1.08	0.03	0.13	0.09	1.60	
	DATE OF OCCURRENCE	26	10	08	09-10	10	27	31	27-28	01	16+	22	17	AUG 27-28	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	3	4	6	17	14	16	5	7	6	2	2	4	86	
PRECIPITATION ≥ 0.10	0	1	4	9	6	8	4	3	4	0	2	0	41		
PRECIPITATION ≥ 1.00	0	0	0	0	0	1	0	1	1	0	0	0	3		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	0.6	1.6	7.2	4.1	T	0.0	0.0	0.0	0.0	0.0	1.8	1.0	16.3	
	GREATEST 24-HOUR (IN.)	0.3	1.5	3.5	2.2	T	0.0	0.0	0.0	0.0	0.0	1.8	1.0	3.5	
	DATE OF OCCURRENCE	26	10	08	02	19+						22	21	MAR 08	
	MAXIMUM SNOW DEPTH (IN.)	T	1	2	2	0	0	0	0	0	0	2	1	2	
	DATE OF OCCURRENCE	14+	11	08+	03							23	21	NOV 23	
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	0	1	2	2	0	0	0	0	0	0	1	1	7		

NORMALS, MEANS, AND EXTREMES

SCOTTSBLUFF, NE (BFF)

LATITUDE: 41° 52' 27" N LONGITUDE: 103° 35' 43" W ELEVATION (FT): GRND: 3947 BARO: 3947 TIME ZONE: MOUNTAIN (UTC + 7) WBAN: 24028

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	37.9	43.6	50.3	61.4	70.9	82.0	89.7	87.2	77.2	65.5	50.2	39.5	63.0
	MEAN DAILY MAXIMUM	52	38.1	43.9	49.9	60.7	70.9	81.6	88.9	87.0	77.5	65.4	49.8	40.3	62.8
	HIGHEST DAILY MAXIMUM	57	74	77	87	93	95	106	109	104	102	92	80	77	109
	YEAR OF OCCURRENCE		1982	1962	1943	1992	1969	1990	1989	1988	1998	1967	1989	1980	JUL 1989
	MEAN OF EXTREME MAXS.	52	60.3	64.6	73.6	82.5	89.3	97.2	101.0	98.7	94.2	85.1	71.6	62.6	81.7
	NORMAL DAILY MINIMUM	30	11.8	16.8	22.1	31.5	41.8	52.7	58.7	56.0	45.6	33.7	22.4	12.9	33.8
	MEAN DAILY MINIMUM	52	11.7	16.5	22.7	32.3	43.4	52.9	58.7	56.5	45.9	33.7	22.0	13.8	34.2
	LOWEST DAILY MINIMUM	57	-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.	52	-12.0	-5.9	1.9	16.4	30.1	40.5	49.4	46.9	31.4	18.5	2.9	-9.5	17.5
	NORMAL DRY BULB	30	24.9	30.2	36.2	46.5	56.4	67.3	74.2	71.6	61.4	49.6	36.3	26.2	48.4
	MEAN DRY BULB	52	24.8	30.2	36.4	46.5	57.2	67.3	73.8	71.8	61.7	49.6	35.9	27.2	48.5
	MEAN WET BULB	16	22.5	25.1	31.4	38.7	49.2	57.0	60.9	60.5	51.1	39.8	29.4	22.2	40.6
	MEAN DEW POINT	16	15.3	16.9	22.5	29.3	41.2	49.6	54.5	54.0	43.3	31.0	21.8	15.1	32.9
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	1.2	7.7	16.7	12.9	4.0	0.1	0.0	0.0	42.7	
MAXIMUM ≤ 32°	30	9.2	6.1	3.4	0.2	0.0	0.0	0.0	0.0	*	0.2	3.2	8.7	31.0	
MINIMUM ≤ 32°	30	29.9	26.9	26.9	13.4	1.7	0.1	0.0	0.0	1.6	12.6	26.3	30.2	169.6	
MINIMUM ≤ 0°	30	6.5	3.3	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.5	16.0	
H/C	NORMAL HEATING DEG. DAYS	30	1243	974	893	555	278	61	0	9	175	477	861	1203	6729
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	12	130	290	214	67	0	0	0	713
RH	NORMAL (PERCENT)	30	64	63	60	56	58	57	56	58	57	56	62	65	59
	HOUR 05 LST	30	73	74	76	75	79	79	80	81	79	75	75	74	77
	HOUR 11 LST	30	57	53	50	44	45	43	42	43	43	42	51	56	47
	HOUR 17 LST	30	57	49	44	39	41	39	36	38	37	39	52	58	44
	HOUR 23 LST	30	70	70	68	65	68	67	66	68	67	65	69	71	68
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	55	1.2	0.9	1.7	0.7	0.7	0.5	0.4	0.8	0.9	0.9	1.4	1.1	11.2
	THUNDERSTORMS	55	0.0	0.0	0.3	1.8	7.7	11.3	10.4	8.2	4.2	0.9	0.0	0.0	44.9
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)	26	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)	16	30.09	30.08	29.99	29.93	29.89	29.88	29.92	29.94	29.97	30.03	30.05	30.13	29.99
WINDS	MEAN SPEED (MPH)	40	10.8	11.4	12.5	12.7	11.9	10.7	9.4	9.0	9.3	9.8	10.5	10.6	10.7
	PREVAIL. DIR (TENS OF DEGS)	25	30	30	30	30	30	12	10	10	30	30	30	30	30
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	4	45	48	53	55	51	46	45	37	39	48	46	47	55
	DIR. (TENS OF DEGS)		28	32	30	31	33	27	28	34	28	31	30	29	31
	YEAR OF OCCURRENCE		1996	1996	1997	1997	1999	1997	1997	1998	1997	1996	1999	1997	APR 1997
	MAXIMUM 5-SECOND:														
SPEED (MPH)	4	52	59	60	68	61	55	56	53	48	57	55	59	68	
DIR. (TENS OF DEGS)		01	31	31	31	32	27	28	35	27	29	29	28	31	
YEAR OF OCCURRENCE		1996	1998	1997	1997	1999	1997	1997	1998	1997	1996	1998	1997	APR 1997	
PRECIPITATION	NORMAL (IN)	30	0.50	0.47	1.09	1.58	2.77	2.64	2.06	1.07	1.10	0.81	0.62	0.56	15.27
	MAXIMUM MONTHLY (IN)	57	1.26	1.93	2.64	3.89	7.25	8.33	4.82	3.42	4.22	3.02	2.15	1.54	8.33
	YEAR OF OCCURRENCE		1978	1986	1990	1984	1987	1947	1978	1987	1973	1969	1993	1978	JUN 1947
	MINIMUM MONTHLY (IN)	57	T	T	0.17	0.29	0.27	0.59	0.07	0.08	T	0.04	T	0.02	T
	YEAR OF OCCURRENCE		1989	1996	1966	1962	1966	1950	1946	1995	1953	1956	1943	1991	FEB 1996
	MAXIMUM IN 24 HOURS (IN)	57	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	6.0	5.2	7.6	8.8	11.4	10.4	9.1	6.7	7.0	4.7	4.9	5.9	87.7	
PRECIPITATION ≥ 1.00	30	0.0	0.0	0.1	0.1	0.5	0.4	0.3	0.1	*	*	0.0	0.0	1.5	
SNOWFALL	NORMAL (IN)	30	6.5	5.4	8.8	5.0	0.9	T	0.0	0.0	0.4	2.7	5.1	7.2	42.0
	MAXIMUM MONTHLY (IN)	57	23.7	23.4	23.5	22.2	7.5	0.1	T	T	5.1	21.6	18.5	18.1	23.7
	YEAR OF OCCURRENCE		1949	1987	1980	1997	1967	1951	1993	1998	1985	1969	1983	1985	JAN 1949
	MAXIMUM IN 24 HOURS (IN)	57	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)	51	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	2.1	1.8	2.8	1.6	0.4	0.0	0.0	0.0	0.1	0.8	1.7	2.2	13.5	

PRECIPITATION (inches) 1999 SCOTTSBLUFF, NE (BFF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.57	0.18	0.93	2.26	1.38	2.49	1.10	0.40	0.34	1.57	0.38	0.39	11.99
1971	0.23	0.44	1.31	1.71	4.73	2.47	1.46	1.47	2.09	0.69	0.33	0.13	17.06
1972	0.35	0.25	0.69	2.91	1.54	4.43	3.77	1.71	1.64	0.79	1.75	0.77	20.60
1973	0.58	0.43	1.97	2.24	0.80	0.88	3.69	0.09	4.22	0.74	1.36	1.24	18.24
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
POR= 108 YRS	0.41	0.48	0.91	1.79	2.76	2.74	1.79	1.22	1.21	0.92	0.51	0.50	15.24

WBAN : 24028

AVERAGE TEMPERATURE (°F) 1999 SCOTTSBLUFF, NE (BFF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	24.5	33.0	30.4	41.4	56.9	64.5	72.9	73.2	57.3	42.6	36.0	25.7	46.5
1971	26.8	28.6	34.7	48.2	54.5	69.3	70.2	72.9	58.4	47.5	37.9	29.4	48.2
1972	24.9	33.4	41.7	46.0	56.5	68.2	70.0	71.0	61.1	48.8	30.1	20.4	47.7
1973	24.6	29.8	38.1	41.9	54.9	67.5	71.6	72.9	57.2	50.7	35.3	25.6	47.5
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
POR= 107 YRS	25.6	29.2	36.4	46.7	56.9	66.9	72.9	71.6	61.7	49.7	36.5	27.7	48.5

HEATING DEGREE DAYS (base 65°F) 1999 SCOTTSBLUFF, NE (BFF)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0	0	261	689	861	1212	1177	1013	937	497	321	16	6984
1971-72	13	0	243	537	807	1096	1237	908	714	561	273	19	6408
1972-73	41	14	146	495	1041	1379	1245	980	825	684	312	57	7219
1973-74	18	0	249	438	883	1216	1407	863	801	523	230	53	6681
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-	0	7	231	461	652	983							

WBAN : 24028

COOLING DEGREE DAYS (base 65°F) 1999 SCOTTSBLUFF, NE (BFF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	0	0	7	99	254	263	37	0	0	0	660
1971	0	0	0	0	1	150	179	254	50	0	0	0	634
1972	0	0	0	0	16	121	203	207	36	0	0	0	583
1973	0	0	0	0	4	138	228	250	21	0	0	0	641
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

SNOWFALL (inches) 1999 SCOTTSBLUFF, NE (BFF)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	T	11.2	0.4	4.4	2.2	4.4	14.2	3.0	T	0.0	39.8
1971-72	0.0	0.0	T	1.0	3.4	1.3	4.1	2.3	1.0	6.2	0.0	0.0	19.3
1972-73	0.0	0.0	0.0	5.3	14.0	10.2	6.9	5.9	4.8	5.2	T	0.0	52.3
1973-74	0.0	0.0	T	4.6	12.2	11.8	9.9	1.1	17.9	1.7	0.0	0.0	59.2
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			22.2	0.0	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-	0.0	0.0	0.0	0.0	1.8	1.0							
POR= 55 YRS	T	0.0	0.4	2.5	5.2	6.4	6.3	5.5	8.5	5.0	0.9	0.0	40.7

WBAN : 24028

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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1999
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.

