

2002

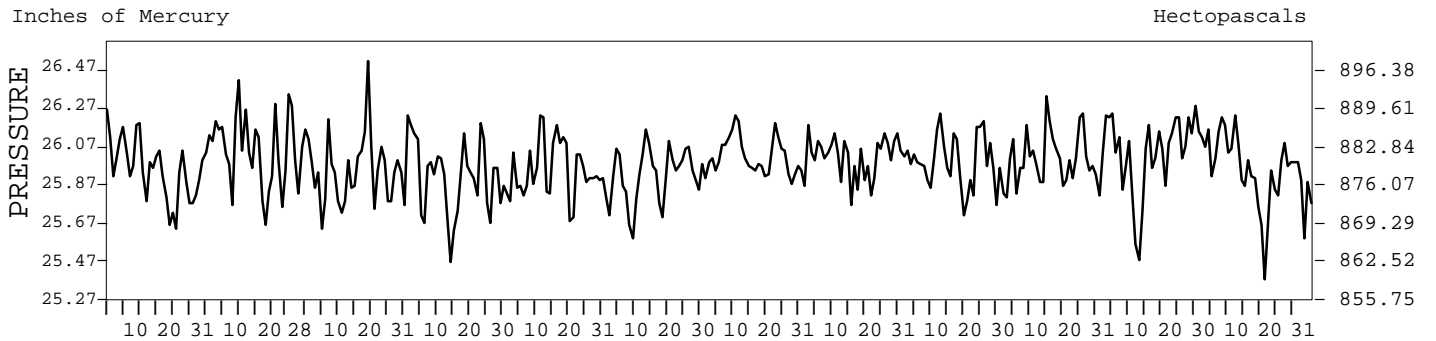
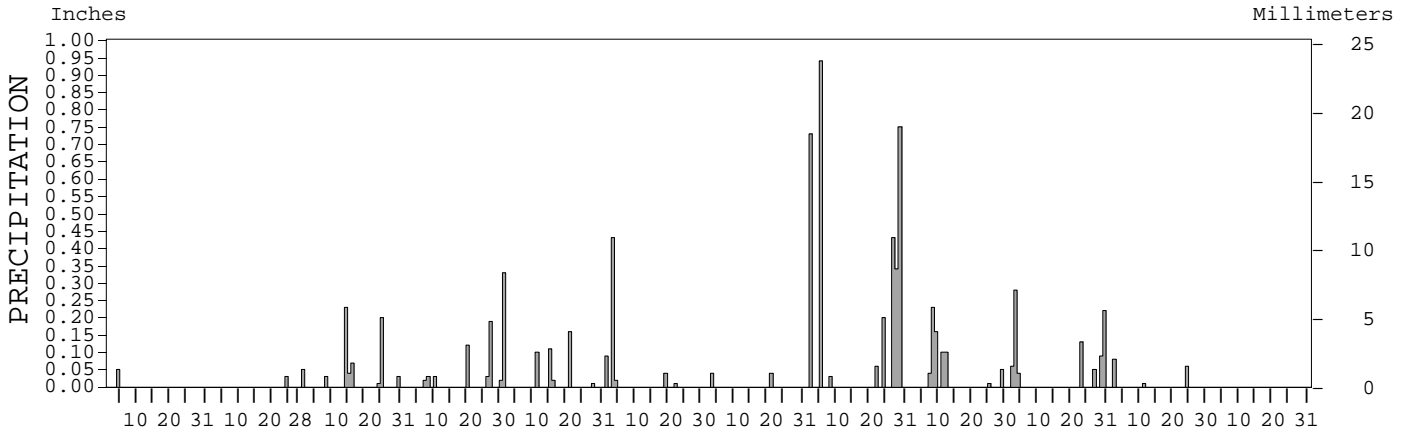
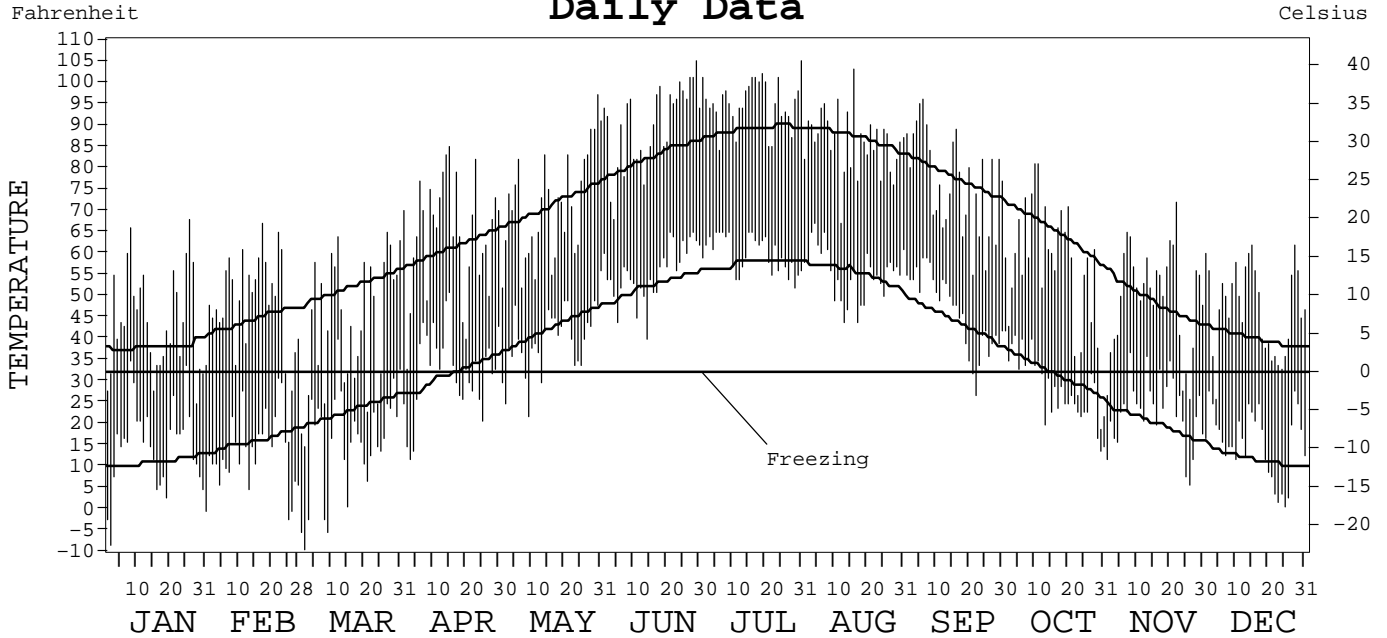
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3210

## SCOTTSBLUFF, NEBRASKA (BFF)

### Daily Data



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*Thomas R. Karl*

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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# METEOROLOGICAL DATA FOR 2002

## 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	44.0	48.4	44.0	64.5	71.3	89.9	95.1	86.1	76.7	55.9	49.8	47.1	64.4	
	HIGHEST DAILY MAXIMUM	68	67	65	85	97	105	105	103	96	81	72	62	105	
	DATE OF OCCURRENCE	26	17	27	15	30	29	31	16	06	11+	22	28+	JUL 31	
	MEAN DAILY MINIMUM	14.5	14.2	16.1	32.5	39.8	55.7	59.8	55.4	46.4	28.9	23.2	15.9	33.5	
	LOWEST DAILY MINIMUM	-8	-2	-9	12	22	40	52	44	27	14	6	1	-9	
	DATE OF OCCURRENCE	02	25	02	03	09	14	29	17+	22	30	26	25	MAR 02	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	23.3	23.9	25.4	39.8		57.6	61.9	58.9	52.3	36.1	30.6	25.4		
	MEAN DEW POINT	11.8	10.1	18.2	29.0		46.4	51.8	51.4	45.1	29.2	22.4	16.3		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	2	18	26	9	4	0	0	0	0	59
	MAXIMUM ≤ 32°	5	3	10	0	0	0	0	0	0	3	4	1	1	26
	MINIMUM ≤ 32°	29	28	29	13	5	0	0	0	2	20	26	31	183	
MINIMUM ≤ 0°	3	2	5	0	0	0	0	0	0	0	0	0	0	10	
H/C	HEATING DEGREE DAYS	1102	940	1076	492	310	18	0	14	163	691	849	1031	6686	
	COOLING DEGREE DAYS	0	0	0	4	23	256	393	199	67	0	0	0	942	
RH	MEAN (PERCENT)	53	47	66	50	54	43	46	58	61	66	61	59	55	
	HOUR 05 LST	66	61	80	68	76	65	74	80	84	82	75	74	74	
	HOUR 11 LST	44	34	56	39	40	31	32	44	45	54	47	46	43	
	HOUR 17 LST	41	30	52	36	36	28	25	39	40	52	51	46	40	
	HOUR 23 LST	58	56	74	59	63	50	53	68	71	74	69	69	64	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	4	1	0	0	0	0	0	4	1	0	10	
	THUNDERSTORMS	0	0	0	4	5	11	8	17	5	1	0	0	52	
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.)	25.94	26.03	25.94	25.89	25.93	25.90	26.00	26.00	25.96	26.01	26.02	25.91	25.96	
	MEAN SEA-LEVEL PRESS. (IN.)	30.07	30.17	30.07	29.91		29.80	29.90	29.94	29.93	30.08	30.12	30.03		
WINDS	RESULTANT SPEED (MPH)	6.9	8.3	3.5	1.6		1.2	1.5	1.4	1.7	2.7	7.3	5.1		
	RES. DIR. (TENS OF DEGS.)	31	32	35	03		11	15	07	05	02	31	31		
	MEAN SPEED (MPH)	10.6	11.4	10.8	12.0		9.8	9.0	9.2	8.6	8.8	9.5	8.5		
	PREVAIL. DIR. (TENS OF DEGS.)	31	33	29	12	36	12	11	11	11	12	31	30	31	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	40	43	41	38	47	38	40	43	35	33	33	41	47	
	DIR. (TENS OF DEGS.)	31	29	29	29	15	29	35	01	33	32	33	29	15	
	DATE OF OCCURRENCE	13	11+	27	22	21	21	21	16	18	16+	05	27+	MAY 21	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	51	52	47	45	55	46	49	56	41	40	40	52	56	
DIR. (TENS OF DEGS.)	32	28	29	27	15	29	24	36	32	33	32	27	36		
DATE OF OCCURRENCE	13	11+	27+	16	21	21	23+	16	18	16+	29	15	AUG 16		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.05	0.03	0.23	0.19	0.33	0.45	0.04	0.94	0.39	0.32	0.08	T	0.94	
	DATE OF OCCURRENCE	04	24	14	27	01	03-04	21+	05	08-09	03-04	02	31+	AUG 05	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	1	1	8	7	6	5	2	8	7	7	3	0	55	
PRECIPITATION ≥ 0.10	0	0	2	2	4	1	0	6	4	3	0	0	22		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	T	0.4	1.6	1.0	0.0	0.0	0.0	0.0	0.0	9.0	2.5	T	14.5	
	GREATEST 24-HOUR (IN.)	T	0.4	0.4	1.0	0.0	0.0	0.0	0.0	0.0	6.0	1.8	T	6.0	
	DATE OF OCCURRENCE	28+	24	14+	20						30	24	21+	OCT 30	
	MAXIMUM SNOW DEPTH (IN.)	0	1	5	1	0	0	0	0	0	8	8	T	8	
	DATE OF OCCURRENCE		25	15	20						31+	01	21	NOV 01	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	0	0	0	1	0	0	0	0	0	3	1	0	5		



PRECIPITATION (inches) 2002 SCOTTSBLUFF, NE (BFF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
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
POR= 111 YRS	0.42	0.49	0.92	1.81	2.74	2.72	1.79	1.24	1.23	0.94	0.51	0.50	15.31

WBAN : 24028

AVERAGE TEMPERATURE (°F) 2002 SCOTTSBLUFF, NE (BFF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
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
POR= 110 YRS	25.6	29.3	36.3	46.7	56.9	67.0	72.9	71.6	61.7	49.6	36.4	27.7	48.5

HEATING DEGREE DAYS (base 65°F) 2002 SCOTTSBLUFF, NE (BFF)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	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-	0	14	163	691	849	1031							

WBAN : 24028

COOLING DEGREE DAYS (base 65°F) 2002 SCOTTSBLUFF, NE (BFF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
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

SNOWFALL (inches) 2002 SCOTTSBLUFF, NE (BFF)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	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-	0.0	0.0	0.0	9.0	2.5	T							
POR= 58 YRS	T	0.0	0.5	2.6	5.2	6.2	6.2	5.6	8.3	4.8	0.9	0.0	40.3

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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2002  
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 TEMPERATURE	WIND INSTRUMENT	EXTREME THERMOMETER	PSYCHROMETER	SUNSHINE SWITCH	TIPPING GAUGE BUCKET	WEIGHING RAIN GAGE	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.