

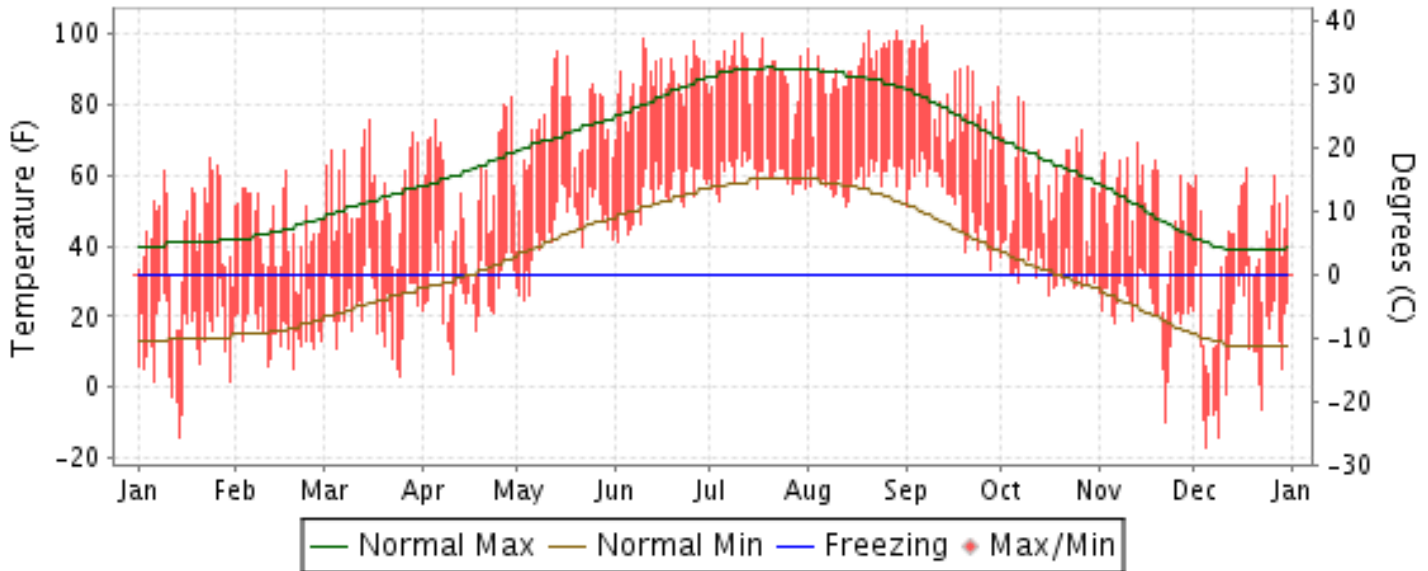


# 2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

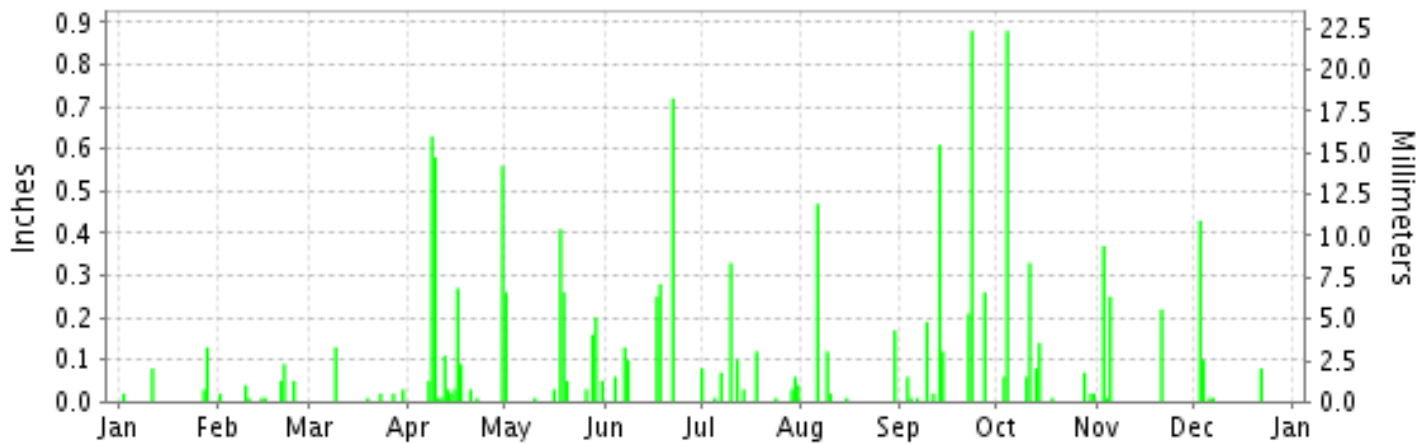
ISSN 0198-3210

## SCOTTSBLUFF, NEBRASKA (KBFF)

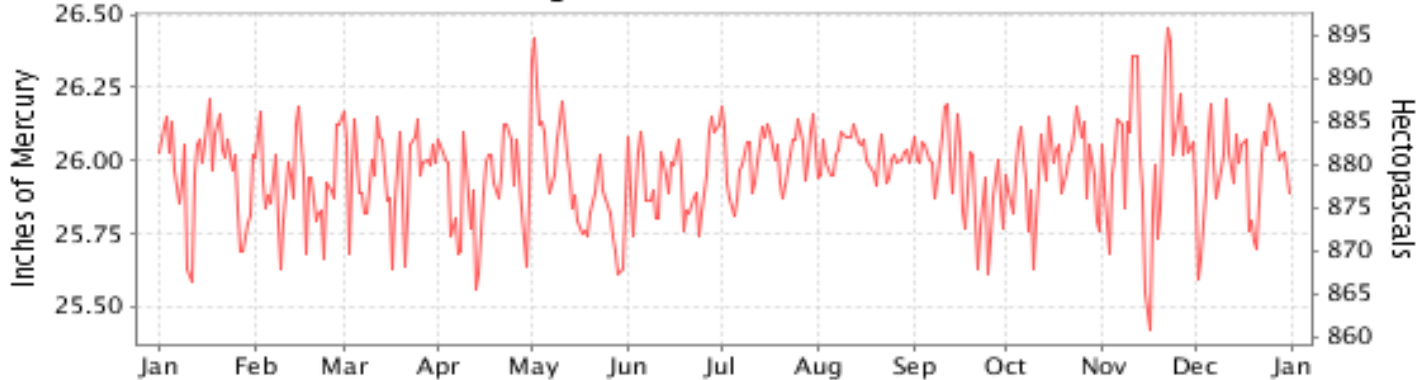
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2013

## SCOTTSBLUFF (KBFF)

LATITUDE: 41° 52'N      LONGITUDE: 103° 35'W      ELEVATION (FT): GRND: 3945 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	43.4	44.9	55.1	55.1	73.3	86.8	89.5	91.3	82.1	59.5	51.4	39.0	64.3	
	HIGHEST DAILY MAXIMUM	65	61	76	82	95	99	100	101	102	82	69	62	102	
	DATE OF OCCURRENCE	24	17	15	29	14	10	11	29+	06	07	13	18	SEP 06	
	MEAN DAILY MINIMUM	12.8	16.0	21.9	27.0	44.5	54.4	60.2	59.1	52.0	33.3	21.5	11.6	34.5	
	LOWEST DAILY MINIMUM	-14	5	3	4	25	41	53	51	33	26	-10	-17	-17	
	DATE OF OCCURRENCE	14	19	25	11	03	02	04	13	28	16	22	05	DEC 05	
	AVERAGE DRY BULB	28.1	30.5	38.5	41.0	58.9	70.6	74.9	75.2	67.0	46.4	36.5	25.3	49.4	
	MEAN WET BULB	22.6	25.1	31.2	35.3		58.3	62.6				30.3	21.3		
	MEAN DEW POINT	14.5	17.1	20.7	27.6		49.9	55.3				23.4	13.7		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	3	11	19	18	9	0	0	0	0	60
	MAXIMUM <= 32°	7	2	0	5	0	0	0	0	0	0	3	8	8	25
MINIMUM <= 32°	31	28	29	19	4	0	0	0	0	0	19	28	29	187	
MINIMUM <= 0°	4	0	0	0	0	0	0	0	0	0	1	8	8	13	
H/C	HEATING DEGREE DAYS	1137	960	817	712	235	21	2	0	86	568	849	1223	6610	
	COOLING DEGREE DAYS	0	0	0	0	54	195	317	326	155	0	0	0	1047	
RH	MEAN (PERCENT)	63	64	55	63	56	54	57	58	62	71	66	64	61	
	HOUR 05 LST	75	80	79	80	75	76	77	84	85	88	81	71	79	
	HOUR 11 LST	46	45	35	50	38	33	40	37	43	50	46	52	43	
	HOUR 17 LST	60	55	40	54	41	36	42	39	51	64	63	62	51	
	HOUR 23 LST	73	75	66	74	72	69	71	73	74	85	74	69	73	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	0	1	3	2	0	0	4	1	2	1	1	18	
	THUNDERSTORMS	0	0	0	0	9	6	7	5	5	1	0	0	33	
PR	MEAN STATION PRESS. (IN.)	25.97	25.91	25.95	25.91	25.93	25.94	26.01	26.01	25.94	25.96	26.02	25.97	25.96	
	MEAN SEA-LEVEL PRESS. (IN.)	30.11	30.03	30.04	29.97	29.91	29.86	29.93	29.93	29.88	30.01	30.13	30.13	29.99	
WINDS	RESULTANT SPEED (MPH)	5.6	5.5	4.5	3.7	1.4	3.3	4.9	2.6	1.0	4.9	2.3	5.8	2.0	
	RES. DIR. (TENS OF DEGS.)	31	32	33	34	03	08	12	10	10	32	32	30	34	
	MEAN SPEED (MPH)	9.3	10.1	10.7	10.8	10.5	10.2	8.7	7.0	7.3	9.9	6.9	9.4	9.2	
	PREVAIL.DIR.(TENS OF DEGS.)	29	30	30	31	31	12	11	11	12	31	31	29	29	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	37	45	47	43	40	38	35	56	40	41	41	39	56	
	DIR. (TENS OF DEGS.)	28	33	28	03	31	06	25	07	24	31	02	28	07	
	DATE OF OCCURRENCE	24	10	17	08	30	22	08	06	22	05	20	02	AUG 06	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	51	56	61	54	53	51	45	70	49	53	51	49	70	
DIR. (TENS OF DEGS.)	29	33	27	04	32	03	25	01	24	29	03	27	01		
DATE OF OCCURRENCE	24	10	17	08	20	21	05	06	22	11	20	02	AUG 06		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.26	0.28	0.21	2.43	1.46	1.54	0.88	0.79	2.37	1.67	0.85	0.63	13.37	
	GREATEST 24-HOUR (IN.)	0.13	0.13	0.13	1.09	0.64	0.72	0.33	0.47	1.09	0.93	0.38	0.53	1.09	
	DATE OF OCCURRENCE	28	20-21	09	08-09	18-19	22	10	06	22-23	03-04	03-04	03-04	SEP 22-23	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	4	8	5	14	10	6	11	5	10	10	4	5	92	
PRECIPITATION 0.10	1	0	1	5	5	5	3	3	6	3	3	2	37		
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	4.2	1.9	18.4	2.6	0.0	0.0	0.0	0.0	6.6	6.3	11.2	55.2	
	GREATEST 24-HOUR (IN.)	2.0	1.6	1.2	7.4	2.6	0.0	0.0	0.0	0.0	6.2	4.3	7.2	7.4	
	DATE OF OCCURRENCE	11	21	09	09	01					04	21	03	APR 09	
	MAXIMUM SNOW DEPTH (IN.)	2	1	T	9	1	0	0	0	0	1	4	9	9	
	DATE OF OCCURRENCE	29+	24+	19	10	01					05	22+	05	DEC 05	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	2	1	1	5	1	0	0	0	0	1	2	3	16		

# NORMALS, MEANS, AND EXTREMES SCOTTSBLUFF (KBFF)

**LATITUDE:** 41° 52'N      **LONGITUDE:** 103° 35'W      **ELEVATION (FT):** GRND: 3945 BARO: 3949      **TIME ZONE:** MOUNTAIN (UTC -7)      **WBAN: 24028**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	40.8	44.4	52.7	61.4	71.6	82.1	89.8	87.7	77.9	64.1	50.2	39.6	63.5
	MEAN DAILY MAXIMUM	120	39.0	41.1	50.9	60.5	71.0	80.6	89.3	86.9	76.4	64.5	49.9	40.5	62.6
	HIGHEST DAILY MAXIMUM	71	74	77	87	93	103	106	109	104	102	92	80	77	109
	YEAR OF OCCURRENCE		1982	1962	1943	2012	2003	2012	1989	2007	2013	1967	1989	1980	JUL 1989
	MEAN OF EXTREME MAXS.	121	60.6	64.6	74.0	82.9	90.5	97.5	101.4	99.0	94.3	85.2	72.2	62.3	82.0
	NORMAL DAILY MINIMUM	30	13.7	16.3	23.8	31.9	42.9	52.3	58.3	56.2	45.4	32.9	21.5	12.5	34.0
	MEAN DAILY MINIMUM	120	12.3	14.8	22.5	31.5	42.3	51.2	57.9	55.1	44.0	32.7	21.4	14.0	33.3
	LOWEST DAILY MINIMUM	71	-32	-28	-27	-8	15	30	40	39	19	-6	-13	-42	-42
	YEAR OF OCCURRENCE		1963	1962	1948	1975	1983	1969	1959	2004	1985	1991	2004	1989	DEC 1989
	MEAN OF EXTREME MINS.	121	-11.2	-4.8	3.3	16.5	29.3	40.3	49.8	46.9	31.5	18.9	2.8	-8.3	17.9
	NORMAL DRY BULB	30	27.2	30.4	38.2	46.7	57.3	67.2	74.1	71.9	61.7	48.5	35.8	26.1	48.8
	MEAN DRY BULB	120	25.7	28.0	36.7	46.0	56.7	66.0	73.6	71.0	60.3	48.6	35.7	27.4	48.0
	MEAN WET BULB	30	20.9	23.5	29.3	36.7	46.7	54.5	60.0	58.7	49.3	38.2	27.6	20.5	38.8
	MEAN DEW POINT	30	17.7	18.6	25.8	32.5	42.4	51.3	56.7	55.5	45.6	33.9	24.4	17.2	35.1
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	1.0	6.9	16.5	13.4	4.6	0.1	0.0	0.0	42.6
	MAXIMUM <= 32	30	7.0	5.1	2.4	0.5	0.0	0.0	0.0	0.0	0.1	0.5	3.1	8.1	26.8
MINIMUM <= 32	30	30.4	27.0	27.1	15.1	1.9	0.0	0.0	0.0	1.3	12.7	26.6	30.8	172.9	
MINIMUM <= 0	30	3.8	2.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	4.5	12.7	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	1170	970	829	552	262	60	6	14	159	512	874	1207	6615
	NORMAL COOLING DEG. DAYS	30	0	0	0	2	21	126	287	229	58	1	0	0	724
<b>RH</b>	NORMAL (PERCENT)	30	66	62	61	58	59	58	57	60	57	58	64	66	61
	HOURLY 05 LST	30	74	75	77	77	80	80	81	84	80	76	76	75	78
	HOURLY 11 LST	30	58	52	50	45	46	43	43	44	42	43	52	56	48
	HOURLY 17 LST	30	58	48	44	40	42	38	37	39	37	40	54	58	45
	HOURLY 23 LST	30	72	70	69	67	69	68	67	71	68	67	71	72	69
<b>S</b>	PERCENT POSSIBLE SUNSHINE														
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	50	1.4	1.1	1.8	1.0	0.6	0.5	0.6	1.0	1.0	1.1	1.8	1.0	12.9
	THUNDERSTORMS	66	0.0	0.0	0.4	2.2	7.9	11.4	10.9	8.7	4.3	1.0	0.1	0.1	47.0
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)			4.0			7.2	3.2							
	MIDNIGHT-MIDNIGHT (OKTAS)						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							
<b>PR</b>	MEAN STATION PRESSURE(IN)	30	25.96	25.95	25.91	25.89	25.91	25.93	25.99	26.01	26.00	25.98	25.96	25.96	25.95
	MEAN SEA-LEVEL PRES. (IN)	30	30.10	30.07	29.99	29.92	29.88	29.86	29.91	29.93	29.97	30.02	30.06	30.11	29.99
<b>WINDS</b>	MEAN SPEED (MPH)	30	10.1	10.5	11.1	11.7	11.1	10.1	8.7	8.4	8.5	9.3	9.6	9.5	9.9
	PREVAIL.DIR(TENS OF DEGS)	39	31	31	31	31	31	12	11	11	31	31	31	31	31
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	49	52	53	55	52	46	49	56	56	48	48	47	56
	DIR. (TENS OF DEGS)		34	32	30	31	27	28	03	07	30	31	32	29	07
	YEAR OF OCCURRENCE		2012	2007	1997	1997	2010	2011	2008	2013	2008	1996	2005	1997	AUG 2013
	MAXIMUM 3-SECOND SPEED (MPH)	18	85	64	70	68	71	62	79	70	81	60	61	62	85
	DIR. (TENS OF DEGS)		36	33	29	31	27	25	05	01	30	28	27	34	36
YEAR OF OCCURRENCE		2010	2007	2004	1997	2010	2012	2008	2013	2008	2011	2011	2011	JAN 2010	
<b>PRECIPITATION</b>	NORMAL (IN)	30	0.41	0.60	1.00	1.83	2.48	2.85	1.83	1.30	1.18	1.14	0.66	0.51	15.79
	MAXIMUM MONTHLY (IN)	71	1.26	1.93	2.64	3.89	7.25	8.33	4.82	3.48	4.22	3.16	2.15	1.54	8.33
	YEAR OF OCCURRENCE		1978	1986	1990	1984	1987	1947	1978	2002	1973	2009	1993	1978	JUN 1947
	MINIMUM MONTHLY (IN)	71	T	T	0.00	0.29	0.27	0.25	0.04	T	T	0.04	T	0.02	0.00
	YEAR OF OCCURRENCE		1989	1996	2012	1962	1966	2007	2006	2012	1953	1956	1943	2002	MAR 2012
	MAXIMUM IN 24 HOURS (IN)	71	0.92	0.88	1.68	2.11	2.62	3.74	2.53	2.01	3.28	1.64	1.43	0.90	3.74
	YEAR OF OCCURRENCE		1976	1987	1974	1997	1988	1953	1948	1987	1951	2005	1993	1975	JUN 1953
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	4.6	5.3	6.8	8.9	11.4	10.8	7.8	7.3	7.2	6.5	5.2	5.4	87.2
PRECIPITATION >= 1.00	30	0.0	0.0	0.0	0.2	0.4	0.6	0.3	0.1	0.1	0.2	0.0	0.0	1.9	
<b>SNOWFALL</b>	NORMAL (IN)	30	5.4	7.0	7.8	5.4	0.5	0.0	0.0	0.0	0.5	2.7	5.7	7.1	42.1
	MAXIMUM MONTHLY (IN)	71	23.7	23.4	23.5	22.2	7.5	0.1	T	0.0	5.7	31.3	18.5	18.2	31.3
	YEAR OF OCCURRENCE		1949	1987	1980	1997	1967	1951	1993	2012	2000	2009	1983	2007	OCT 2009
	MAXIMUM IN 24 HOURS (IN)	71	11.2	9.8	15.0	11.3	7.2	0.1	T	T	4.8	13.8	8.6	10.9	15.0
	YEAR OF OCCURRENCE		1976	1987	1974	1988	2010	1951	1993	1996	1985	2009	2004	1975	MAR 1974
	MAXIMUM SNOW DEPTH (IN)	65	19	18	14	10	5	0	0	0	4	15	12	12	19
	YEAR OF OCCURRENCE		1949	1949	1987	1975	2010				1985	2009	1979	1987	JAN 1949
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.5	2.4	2.5	1.7	0.2	0.0	0.0	0.0	0.2	0.9	1.9	2.3	13.6	

**PRECIPITATION (inches) 2013 SCOTTSBLUFF (KBFF)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2004	0.13	0.73	0.14	0.90	0.57	1.70	2.24	0.21	2.81	1.20	1.35	0.06	12.04
2005	0.66	0.25	1.22	2.62	2.39	5.58	1.67	1.91	0.76	2.18	0.26	0.14	19.64
2006	0.49	0.84	1.36	0.84	1.12	3.59	0.04	1.34	0.63	0.53	0.06	1.19	12.03
2007	0.08	0.38	1.66	1.34	1.09	0.25	0.69	1.40	0.41	0.71	0.05	1.30	9.36
2008	0.01	0.33	0.84	1.26	2.24	2.17	1.37	3.10	1.69	0.86	0.20	0.20	14.27
2009	0.92	0.25	0.80	2.98	1.40	5.96	1.91	0.95	0.70	3.16	0.30	0.72	20.05
2010	0.03	0.95	0.46	2.43	3.25	3.89	1.37	1.29	0.04	0.76	0.66	1.00	16.13
2011	0.46	0.37	1.18	2.85	5.87	3.74	1.76	0.22	0.22	1.46	0.38	0.34	18.85
2012	0.16	0.69	0.00	0.98	0.35	1.74	0.93	T	0.79	0.87	0.29	0.19	6.99
2013	0.26	0.28	0.21	2.43	1.46	1.54	0.88	0.79	2.37	1.67	0.85	0.63	13.37
POR= 120 YRS	0.40	0.49	0.90	1.79	2.66	2.71	1.82	1.22	1.23	0.93	0.60	0.50	15.25

WBAN : 24028

**AVERAGE TEMPERATURE (°F) 2013 SCOTTSBLUFF (KBFF)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2004	28.3	30.6	42.9	47.9	58.2	63.9	71.6	67.7	62.0	50.5	34.5	31.0	49.1
2005	28.4	34.5	39.0	45.7	55.3	66.3	75.3	69.3	64.0	49.5	40.2	26.8	49.5
2006	34.8	26.9	35.2	50.6	58.9	71.5	77.1	72.9	56.7	46.4	36.2	28.7	49.7
2007	22.7	27.9	43.7	45.1	59.2	69.5	77.7	75.3	63.8	51.4	39.0	20.0	49.6
2008	19.1	29.2	37.9	44.9	54.6	65.3	75.3	70.9	59.7	48.3	39.4	23.4	47.3
2009	28.9	34.1	39.1	45.2	58.7	65.5	71.0	69.7	63.4	40.4	40.4	18.3	47.9
2010	28.0	26.5	40.6	48.4	54.2	68.0	74.8	74.4	64.0	53.5	35.4	30.4	49.9
2011	26.9	25.7	39.9	46.5	53.1	67.3	77.5	76.1	63.2	51.0	37.2	26.0	49.2
2012	30.5	29.8	49.1	53.5	60.8	75.3	79.8	74.1	65.2	47.9	41.4	28.6	53.0
2013	28.1	30.5	38.5	41.0	58.9	70.6	74.9	75.2	67.0	46.4	36.5	25.3	49.4
POR= 120 YRS	25.7	28.0	36.7	46.0	56.7	66.0	73.6	71.0	60.3	48.6	35.7	27.4	48.0

**HEATING DEGREE DAYS (base 65°F) 2013 SCOTTSBLUFF (KBFF)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2003-04	0	12	201	390	931	1112	1130	991	681	505	229	93	6275
2004-05	22	45	133	444	911	1049	1128	848	798	573	316	85	6352
2005-06	6	22	112	474	736	1176	930	1060	917	425	228	5	6091
2006-07	0	6	256	572	858	1120	1304	1033	653	588	213	52	6655
2007-08	0	8	119	417	774	1389	1418	1030	836	597	315	67	6970
2008-09	1	16	166	510	762	1283	1111	859	797	588	221	69	6383
2009-10	12	11	116	757	733	1441	1140	1073	750	492	349	43	6917
2010-11	5	0	89	354	886	1063	1175	1092	773	549	364	39	6389
2011-12	0	0	110	434	825	1202	1063	1015	490	349	164	2	5654
2012-13	0	5	71	523	704	1121	1137	960	817	712	235	21	6306
2013-	2	0	86	568	849	1223							

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**COOLING DEGREE DAYS (base 65°F) 2013 SCOTTSBLUFF (KBFF)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2004	0	0	0	0	25	67	231	135	51	0	0	0	509
2005	0	0	0	0	22	131	330	161	86	2	0	0	732
2006	0	0	0	0	45	206	382	257	14	1	0	0	905
2007	0	0	0	0	38	194	401	337	92	4	0	0	1066
2008	0	0	0	0	3	82	329	206	15	0	0	0	635
2009	0	0	0	0	34	91	205	163	76	0	0	0	569
2010	0	0	0	0	24	141	315	298	65	2	0	0	845
2011	0	0	0	0	2	112	393	354	61	10	0	0	932
2012	0	0	1	9	41	316	464	294	83	0	0	0	1208
2013	0	0	0	0	54	195	317	326	155	0	0	0	1047

**SNOWFALL (inches) 2013 SCOTTSBLUFF (KBFF)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	.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
2002-03	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
2003-04	0.0	0.0	0.0	0.6	10.8	7.1	6.5	11.0	0.9	1.1	0.0	0.0	38.0
2004-05	0.0	0.0	0.0	T	11.7	1.2	7.9	2.6	7.4	7.1	2.0	0.0	39.9
2005-06	0.0	0.0	0.0	0.0	0.7	3.4	5.9	14.8	10.7	5.0	T	T	40.5
2006-07	0.0	0.0	0.0	3.0	0.4	15.9	1.2	2.9	5.0	2.8	0.0	0.0	31.2
2007-08	0.0	0.0	0.0	0.0	2.2	18.2	0.7	4.6	9.9	5.3	0.4	0.0	41.3
2008-09	0.0	0.0	0.0	T	1.2	4.6	14.3	2.4	7.7	9.3	T	0.0	39.5
2009-10	0.0	0.0	0.0	31.3	3.6	16.9	1.3	14.8	4.2	2.6	7.2	0.0	81.9
2010-11	0.0	0.0	0.0	0.0	6.0	11.6	8.6	6.4	11.2	3.4	0.0	0.0	47.2
2011-12	0.0	0.0	0.0	T	5.5	3.4	0.9	10.5	0.0	T	0.0	0.0	20.3
2012-13	0.0	0.0	0.0	6.5	3.7	2.3	4.0	4.2	1.9	18.4	2.6	0.0	43.6
2013-	0.0	0.0	0.0	6.6	6.3	11.2							
POR= 88 YRS	T	T	0.3	2.5	4.7	6.0	5.2	6.2	7.6	5.3	0.9	T	38.7

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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. 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 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</p> <p>GENERAL CONTINUED: 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</p>	<p>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. 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. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: <a href="http://www.ncdc.noaa.gov/homr/">http://www.ncdc.noaa.gov/homr/</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b> The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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# 2013

## SCOTTSBLUFF

### NEBRASKA (KBFF)

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 History

SCOTTSBLUFF, NE

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
SCOTTSBLUFF MUNICIPAL AP	1940-08-01	1941-06-30	41° 52'	-103° 36'			AIRWAYS
SCOTTSBLUFF MUNICIPAL AP	1942-01-01	1947-12-01	41° 52'	-103° 36'			AIRWAYS
SCOTTSBLUFF MUNICIPAL AP	1950-01-01	1970-08-01	41° 52'	-103° 36'	3957		AIRWAYS, COOP
SCOTTSBLUFF COUNTY AP	1973-01-01	1987-05-28	41° 52'	-103° 36'	3957		COOP, WXSVC
SCOTTSBLUFF COUNTY AP	1987-05-28	1995-06-01	41° 52'	-103° 36'	3945		COOP, WXSVC
SCOTTSBLUFF MUNICIPAL AP	1947-12-01	1950-01-01	41° 52'	-103° 36'	3967		AIRWAYS, COOP
SCOTTSBLUFF W B HEILIG FIELD AP	1995-06-01	2001-08-01	41° 52'	-103° 35'	3943		ASOS, COOP, WXSVC
SCOTTSBLUFF COUNTY AP	1970-08-01	1973-01-01	41° 52'	-103° 36'	3957		AIRWAYS, COOP
SCOTTSBLUFF W B HEILIG FIELD AP	2007-04-11	Present	41° 52'	-103° 35'	3945		ASOS, COOP, WXSVC
SCOTTSBLUFF W B HEILIG FIELD AP	2001-08-01	2007-04-11	41° 52'	-103° 35'	3945		ASOS, COOP, WXSVC

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1995-07-01	1995-10-01	HOURLY	2400	UNIV		
PRECIP	2002-10-26	2003-11-08	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	1940-08-01	1982-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	1987-05-28	1995-07-01	HOURLY	2400			
PRECIP	2003-11-08	2012-03-23	DAILY	2400	PCPNX		
TEMP	2003-11-08	2012-03-23	DAILY	2400	ATEMP		
TEMP	2012-03-23	2012-05-22	DAILY	2400	ATEMP		
TEMP	2012-05-22	Present	DAILY	2400	ATEMP		
PRECIP	1987-05-28	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	2002-10-26	2003-11-08	DAILY	2400	PCPNX		
TEMP	2002-10-26	2003-11-08	DAILY	2400			
PRECIP	2003-11-08	2012-03-23	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	1995-07-01	1995-10-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-10-01	2001-08-01	DAILY	2400	TB	RCRD	
PRECIP	2001-08-01	2002-10-26	DAILY	2400	AHTB	RCRD;HTD	
PRECIP	1982-01-01	1987-05-28	DAILY	2400	UNIV	RCRD	
TEMP	1982-01-01	1987-05-28	DAILY	2400			
TEMP	1987-05-28	1995-07-01	DAILY	2400	HYGR		
TEMP	1995-07-01	1995-10-01	DAILY	2400	HYGR		
PRECIP	2001-08-01	2002-10-26	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2012-03-23	2012-05-22	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1982-01-01	1987-05-28	HOURLY	2400			
TEMP	2001-08-01	2002-10-26	DAILY	2400	ATEMP		
TEMP	1995-10-01	2001-08-01	DAILY	2400	HYGR		
TEMP	1940-08-01	1982-01-01	DAILY	2400			
PRECIP	1995-10-01	2001-08-01	HOURLY	2400			
PRECIP	2012-03-23	2012-05-22	DAILY	2400	PCPNX		
PRECIP	2012-05-22	Present	DAILY	2400	PCPNX	SHLD	
PRECIP	2012-05-22	Present	HOURLY	2400	AWPAG	SHLD;RCRD;HTD	

\* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

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NOAA/National Climatic Data Center

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151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)