

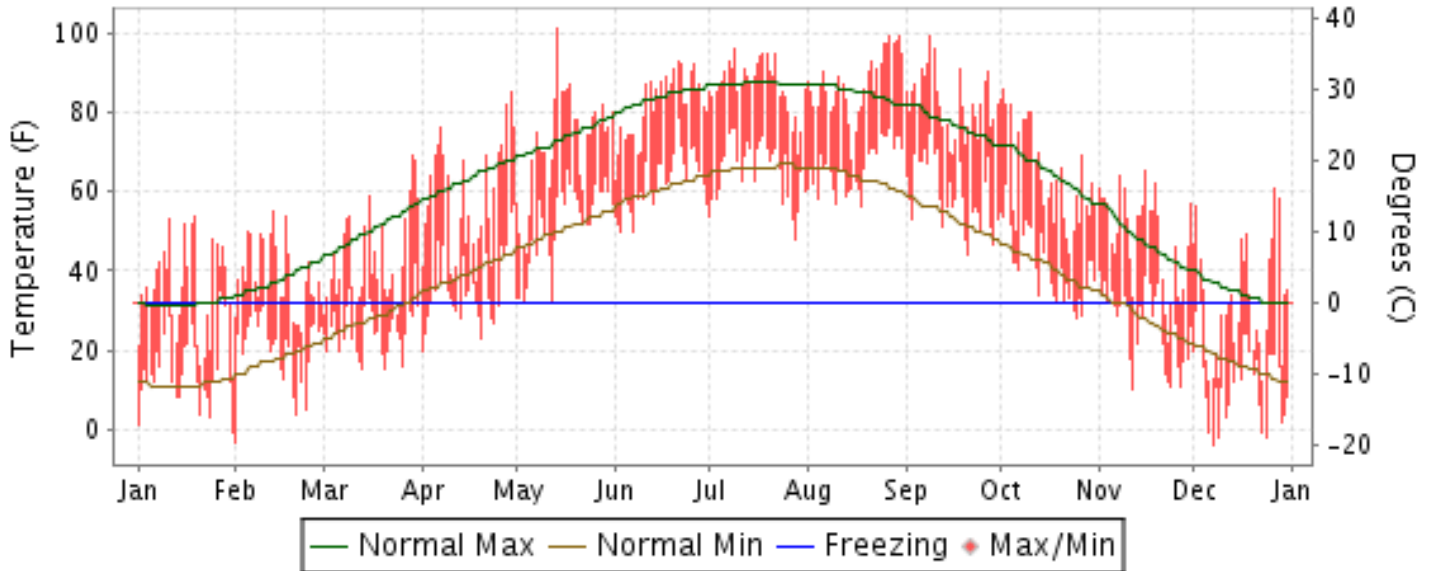


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

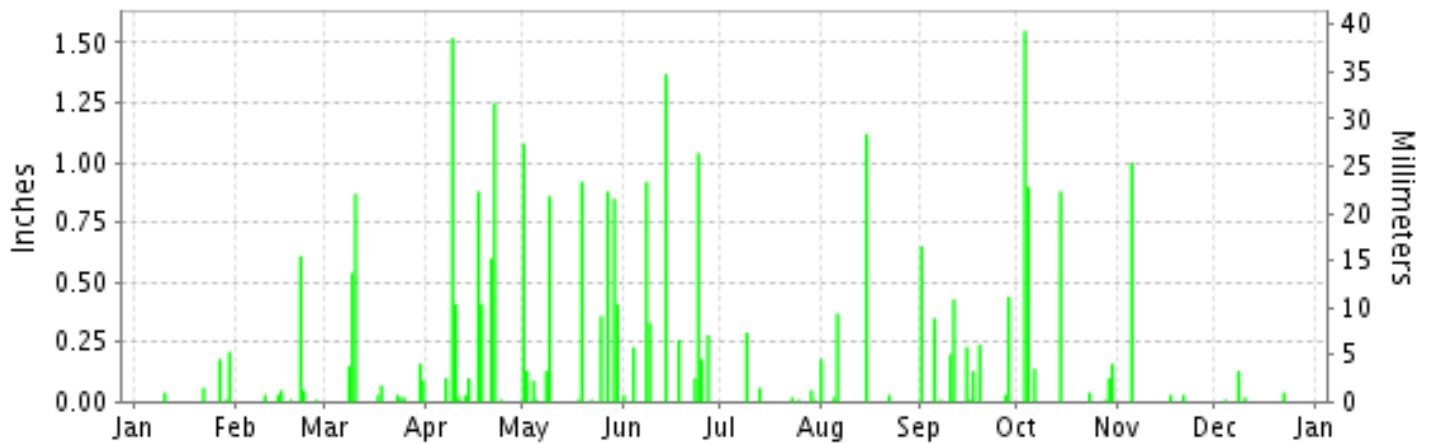
ISSN 0198-3172

OMAHA, NEBRASKA (KOMA)

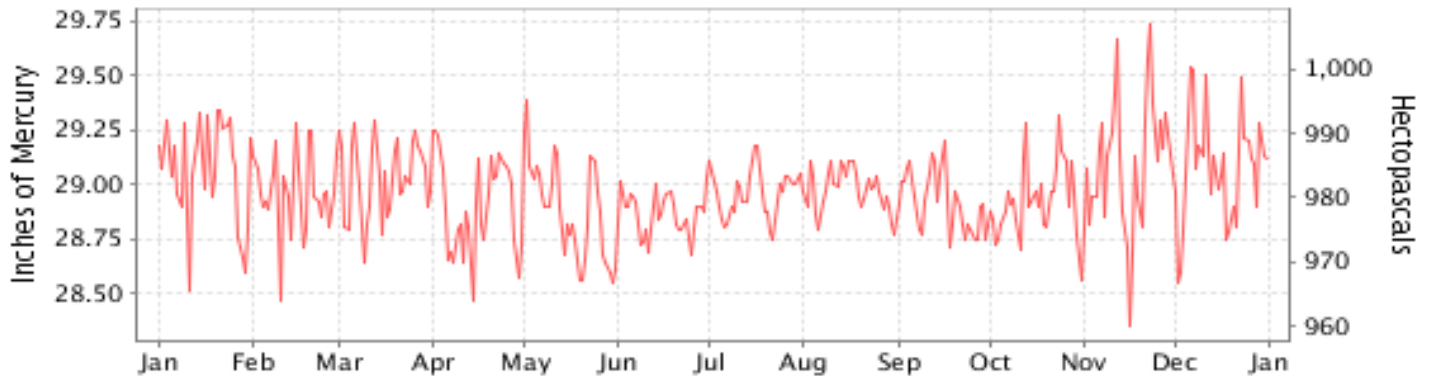
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

OMAHA (KOMA)

LATITUDE: 41° 18'N LONGITUDE: 95° 53'W ELEVATION (FT): GRND: 982 BARO: 1028 TIME ZONE: CENTRAL (UTC -6) WBAN: 14942

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	35.4	38.5	43.3	58.7	72.2	81.6	86.9	87.2	82.2	64.2	48.4	32.3	60.9	
	HIGHEST DAILY MAXIMUM	54	55	69	85	101	93	96	99	99	86	65	61	101	
	DATE OF OCCURRENCE	19	13	29	29	14	21	09	30+	09	02	16	27	MAY 14	
	MEAN DAILY MINIMUM	15.9	20.2	25.2	35.9	51.8	62.3	65.6	66.5	59.8	41.6	26.5	12.2	40.3	
	LOWEST DAILY MINIMUM	-1	-3	15	20	32	50	48	56	44	28	10	-4	-4	
	DATE OF OCCURRENCE	31	01	20+	01	12+	07+	28	18	21	25	12	07	DEC 07	
	AVERAGE DRY BULB	25.6	29.4	34.3	47.3	62.0	72.0	76.3	76.8	71.0	52.9	37.5	22.2	50.6	
	MEAN WET BULB	22.9	26.1	30.2	41.3	54.7	64.5	67.1	68.2	62.7	46.5	32.7	18.8	44.6	
	MEAN DEW POINT	16.9	20.3	23.4	34.4	49.1	60.0	61.7	63.6	57.4	40.5	25.2	12.1	38.7	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	5	11	12	6	0	0	0	0	35
	MAXIMUM <= 32°	13	6	4	0	0	0	0	0	0	0	4	16	43	
MINIMUM <= 32°	29	28	28	13	2	0	0	0	0	5	21	31	157		
MINIMUM <= 0°	1	1	0	0	0	0	0	0	0	0	0	5	7		
H/C	HEATING DEGREE DAYS	1213	991	946	530	177	16	5	0	17	385	819	1318	6417	
	COOLING DEGREE DAYS	0	0	0	7	89	235	360	375	207	21	0	0	1294	
RH	MEAN (PERCENT)	71	71	67	65	67	68	62	67	66	67	64	68	67	
	HOUR 00 LST	76	75	75	72	73	78	73	76	74	74	73	75	75	
	HOUR 06 LST	78	79	78	79	82	82	78	85	83	81	76	76	80	
	HOUR 12 LST	63	64	58	57	60	60	49	53	50	55	53	58	57	
	HOUR 18 LST	67	64	57	52	55	54	48	53	53	56	55	63	56	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	6	1	0	0	0	1	1	0	0	1	0	0	10	
	THUNDERSTORMS	0	0	1	8	9	10	4	2	7	5	1	0	47	
PR	MEAN STATION PRESS. (IN.)	29.07	28.97	29.03	28.90	28.88	28.86	28.96	28.98	28.91	28.93	29.10	29.08	28.97	
	MEAN SEA-LEVEL PRESS. (IN.)	30.16	30.05	30.11	29.96	29.93	29.88	29.99	30.01	29.94	29.98	30.18	30.19	30.03	
WINDS	RESULTANT SPEED (MPH)	1.4	2.7	3.2	1.6	0.8	1.3	3.9	4.9	5.3	2.0	1.2	3.5	0.5	
	RES. DIR. (TENS OF DEGS.)	29	33	36	31	06	14	15	16	15	22	20	34	17	
	MEAN SPEED (MPH)	9.5	11.6	11.2	11.3	11.1	9.9	8.3	8.4	10.3	9.6	10.7	10.2	10.2	
	PREVAIL.DIR.(TENS OF DEGS.)	15	33	14	35	35	15	15	16	16	15	16	33	16	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	35	35	39	43	51	26	35	36	36	38	39	51	
	DIR. (TENS OF DEGS.)	33	32	32	30	33	23	15	17	32	15	16	33	23	
	DATE OF OCCURRENCE	30	18	05	24	27	24	06	01	01	14	03	28	JUN 24	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	41	45	46	51	53	69	35	39	48	44	48	49	69	
DIR. (TENS OF DEGS.)	33	30	31	31	32	24	15	35	31	15	16	34	24		
DATE OF OCCURRENCE	30	10	05	24	27	24	06	06	01	14	03	28	JUN 24		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.50	0.79	1.98	5.33	5.74	4.74	0.44	1.72	2.72	3.78	1.06	0.20	29.00	
	GREATEST 24-HOUR (IN.)	0.22	0.66	1.08	1.85	1.24	1.37	0.29	1.12	0.65	1.58	1.00	0.13	1.85	
	DATE OF OCCURRENCE	29-30	21-22	09-10	21-22	29-30	14	09	15	01	03-04	05	08	APR 21-22	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	5	7	10	11	13	10	6	5	11	8	3	4	93		
PRECIPITATION 0.10	2	1	4	8	9	9	1	3	8	6	1	1	53		
PRECIPITATION 1.00	0	0	0	2	1	2	0	1	0	1	1	0	8		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	4.7	9.3	11.1	0.1	3.1	0.0	0.0	0.0	0.0	0.0	0.4	3.1	31.8	
	GREATEST 24-HOUR (IN.)	3.4	8.3	8.8	0.1	1.9	0.0	0.0	0.0	0.0	0.0	0.4	2.0	8.8	
	DATE OF OCCURRENCE	30	21-22	10	11	01	24					21	08	MAR 10	
	MAXIMUM SNOW DEPTH (IN.)	3	8	9	T	2	0	0	0	0	0	T	2	9	
	DATE OF OCCURRENCE	31+	23+	11	01	02						24+	12+	MAR 11	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	2	1	1	0	2	0	0	0	0	0	0	1	7		

NORMALS, MEANS, AND EXTREMES OMAHA (KOMA)

LATITUDE: 41° 18'N **LONGITUDE:** 95° 53'W **ELEVATION (FT):** GRND: 982 BARO: 1028 **TIME ZONE:** CENTRAL (UTC -6) **WBAN: 14942**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	33.4	38.1	50.9	63.7	73.8	83.2	87.3	85.1	77.6	64.7	48.9	35.3	61.8	
	MEAN DAILY MAXIMUM	65	31.7	37.3	49.0	63.5	74.1	83.4	87.9	85.5	77.3	65.8	49.5	36.0	61.8	
	HIGHEST DAILY MAXIMUM	76	69	78	91	97	101	105	114	110	104	96	83	72	114	
	YEAR OF OCCURRENCE		2012	1972	2012	1989	2013	1953	1936	1936	1939	1938	1999	1939	1939	JUL 1936
	MEAN OF EXTREME MAXS.	65	54.1	60.0	75.2	86.3	90.4	96.5	99.1	97.5	92.6	84.9	71.2	58.4	80.5	
	NORMAL DAILY MINIMUM	30	13.6	18.1	28.1	39.8	50.9	61.0	66.2	64.0	53.9	41.6	28.8	16.7	40.2	
	MEAN DAILY MINIMUM	65	12.2	17.6	27.8	40.2	51.5	61.3	66.6	64.1	54.0	42.1	29.0	17.2	40.3	
	LOWEST DAILY MINIMUM	76	-23	-21	-16	5	27	38	44	43	25	13	-9	-23	-23	
	YEAR OF OCCURRENCE		1982	1981	1948	1975	1980	1983	1972	1967	1984	1972	1964	1989	1989	DEC 1989
	MEAN OF EXTREME MINS.	65	-9.3	-4.0	7.5	23.9	36.3	47.5	55.2	52.1	37.4	25.6	11.4	-2.5	23.4	
	NORMAL DRY BULB	30	23.5	28.1	39.5	51.7	62.3	72.1	76.7	74.6	65.7	53.2	38.9	26.0	51.0	
	MEAN DRY BULB	65	21.9	27.5	38.4	51.8	62.8	72.5	77.3	74.8	65.7	53.9	39.3	26.7	51.1	
	MEAN WET BULB	29	20.2	23.6	33.7	43.2	53.9	63.6	68.4	66.8	57.5	45.4	32.9	22.7	44.3	
	MEAN DEW POINT	29	17.9	21.2	30.5	39.6	51.5	61.6	66.9	65.3	55.4	42.8	30.8	20.9	42.0	
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.4	1.1	5.3	10.8	7.6	2.8	0.1	0.0	0.0	28.1	
	MAXIMUM <= 32	30	13.3	9.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.8	11.6	39.5	
	MINIMUM <= 32	30	30.1	25.4	20.4	6.5	0.2	0.0	0.0	0.0	0.3	4.9	19.1	29.2	136.1	
MINIMUM <= 0	30	4.8	2.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.9	10.7		
H/C	NORMAL HEATING DEG. DAYS	30	1286	1033	791	413	148	17	1	7	95	382	785	1209	6167	
	NORMAL COOLING DEG. DAYS	30	0	0	1	15	66	230	365	303	117	15	1	0	1113	
RH	NORMAL (PERCENT)	30	73	73	68	63	66	68	71	74	71	68	72	76	70	
	HOURLY 00 LST	30	77	79	74	70	75	78	80	83	81	76	78	80	78	
	HOURLY 06 LST	30	80	81	80	78	82	84	86	89	87	83	82	82	83	
	HOURLY 12 LST	30	67	65	59	53	55	56	59	61	57	55	64	69	60	
	HOURLY 18 LST	30	68	66	56	50	53	53	57	60	58	57	66	73	60	
S	PERCENT POSSIBLE SUNSHINE															
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISIB <= 1/4 MI)	49	1.9	1.9	1.2	0.7	1.0	0.3	0.6	1.7	1.6	1.3	1.7	2.3	16.2	
	THUNDERSTORMS	65	0.1	0.4	1.5	4.1	7.6	9.0	8.2	7.3	4.9	2.5	0.8	0.2	46.6	
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	49	4.9	5.0	5.3	5.1	5.0	4.6	3.8	3.8	3.8	3.8	4.8	5.0	4.6	
	MIDNIGHT-MIDNIGHT (OKTAS)	22	4.5	4.5	4.8	4.7	4.6	4.4	3.8	3.7	3.8	3.8	4.6	4.7	4.3	
	MEAN NO. DAYS WITH: CLEAR	49	8.8	7.3	7.1	7.3	7.4	8.0	11.2	12.2	12.3	12.9	8.6	8.0	111.1	
	PARTLY CLOUDY	49	7.9	7.4	8.0	8.5	9.6	11.4	12.1	10.1	7.6	8.1	7.4	7.5	105.6	
	CLOUDY	49	14.3	13.5	15.9	14.2	14.1	10.6	7.7	8.7	10.2	10.1	13.9	15.4	148.6	
PR	MEAN STATION PRESSURE (IN)	26	29.03	29.04	28.96	28.89	28.88	28.87	28.91	28.94	28.96	28.98	28.99	29.03	28.96	
	MEAN SEA-LEVEL PRES. (IN)	26	30.13	30.13	30.03	29.93	29.92	29.90	29.94	29.97	30.00	30.03	30.07	30.13	30.02	
WINDS	MEAN SPEED (MPH)	29	10.1	10.3	11.2	11.7	10.5	9.6	8.5	8.2	9.1	9.7	10.3	10.2	10.0	
	PREVAIL. DIR. (TENS OF DEGS)	43	35	35	35	17	17	17	17	17	17	17	17	17	17	
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	45	43	52	54	57	54	56	70	48	48	46	45	70	
	DIR. (TENS OF DEGS)		33	17	18	32	16	30	03	03	27	11	32	33	03	
	YEAR OF OCCURRENCE		1997	2009	2009	2004	1998	2010	2001	2011	2006	1998	2003	2010	AUG 2011	
	MAXIMUM 3-SECOND SPEED (MPH)	17	53	53	68	64	86	69	70	92	60	64	55	56	92	
	DIR. (TENS OF DEGS)		33	19	18	19	17	24	02	03	28	30	28	33	03	
YEAR OF OCCURRENCE		1997	2009	2009	2001	1998	2013	2001	2011	2006	2012	1998	2010	AUG 2011		
PRECIPITATION	NORMAL (IN)	30	0.72	0.85	1.99	2.96	4.76	4.18	3.83	3.82	2.68	2.15	1.64	1.04	30.62	
	MAXIMUM MONTHLY (IN)	76	3.70	2.97	5.96	8.48	10.63	10.81	10.34	12.26	13.75	6.23	4.70	5.42	13.75	
	YEAR OF OCCURRENCE		1949	1965	1973	1999	2007	1947	1993	1999	1965	2007	1983	1984	SEP 1965	
	MINIMUM MONTHLY (IN)	76	T	0.06	0.12	0.23	0.56	0.24	0.01	0.61	0.41	T	0.03	T	0.01	
	YEAR OF OCCURRENCE		1986	2006	1956	1936	1948	2007	2012	1984	1953	1952	2007	1943	JUL 2012	
	MAXIMUM IN 24 HOURS (IN)	76	1.52	2.24	2.44	2.82	5.63	4.27	3.37	10.48	6.47	3.13	2.53	3.03	10.48	
	YEAR OF OCCURRENCE		1967	1954	2004	1999	2007	1994	1958	1999	1965	1968	1948	1984	AUG 1999	
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	6.0	6.5	8.2	10.2	12.3	11.0	10.3	8.3	8.0	7.1	6.7	6.6	101.2	
PRECIPITATION >= 1.00	30	0.0	0.0	0.4	0.6	1.2	1.0	1.0	1.2	0.8	0.5	0.4	0.1	7.2		
SNOWFALL	NORMAL (IN)	30	6.1	6.1	4.2	1.0	0.0	0.0	0.0	0.0	0.0	0.3	2.5	6.2	26.4	
	MAXIMUM MONTHLY (IN)	75	25.7	25.4	27.2	10.0	3.1	T	T	T	T	7.2	12.0	24.6	27.2	
	YEAR OF OCCURRENCE		1936	1965	1948	1992	2013	2011	2009	2012	1985	1941	1957	2009	MAR 1948	
	MAXIMUM IN 24 HOURS (IN)	68	13.1	18.3	13.0	9.9	2.0	T	T	T	T	7.2	8.7	10.2	18.3	
	YEAR OF OCCURRENCE		1949	1965	1948	1992	1945	2011	2009	2012	1985	1941	1957	1969	FEB 1965	
	MAXIMUM SNOW DEPTH (IN)	64	21	26	27	8	2	0	0	0	0	5	9	17	27	
	YEAR OF OCCURRENCE		2010	2004	1960	1992	2013					1997	1957	1983	MAR 1960	
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.8	2.2	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.1	1.0	2.1	8.8		

PRECIPITATION (inches) 2013 OMAHA (KOMA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	0.38	0.62	2.32	4.77	4.92	5.56	1.58	0.61	2.55	3.87	0.52	5.42	33.12
1985	0.56	1.88	1.36	3.16	2.46	1.73	3.27	1.50	2.71	1.36	0.85	0.37	21.21
1986	T	1.00	2.51	4.96	4.88	2.37	2.77	3.86	8.11	4.86	0.99	0.89	37.20
1987	0.08	0.55	4.14	2.24	8.64	3.29	6.72	10.16	1.56	1.33	1.60	1.01	41.32
1988	0.42	0.18	0.14	1.57	4.68	1.60	2.68	1.78	2.63	0.14	2.55	0.95	19.32
1989	1.10	0.86	0.40	1.80	0.83	5.05	3.06	1.80	6.46	1.55	0.15	0.74	23.80
1990	0.59	0.34	4.01	0.36	5.08	3.88	6.36	0.81	0.81	1.71	1.15	1.18	26.28
1991	1.08	0.26	2.85	4.46	4.07	7.79	2.96	3.67	1.37	3.76	3.51	1.75	37.53
1992	1.41	1.18	3.08	3.19	2.27	1.44	7.31	1.57	6.86	2.22	3.01	1.15	34.69
1993	1.42	0.93	2.67	2.26	4.90	8.03	10.34	7.53	2.29	1.18	0.66	0.51	42.72
1994	0.50	1.01	0.15	1.46	1.73	8.54	3.60	1.97	3.32	1.37	1.64	1.21	26.50
1995	0.80	0.47	2.50	4.26	7.07	1.28	3.14	2.52	2.75				
1996			0.83	2.36	7.57	2.96	2.39	2.19	4.90	1.64	2.46	.32	
1997	0.29	0.69	1.08	3.66	1.54	4.51	4.69	1.33	4.30	5.25	2.30	0.57	30.21
1998	1.13	1.27	4.13	3.53	4.71	8.23	7.77	3.85	0.85	2.65	1.48	0.13	39.73
1999	0.59	1.40	1.31	8.48	4.50	3.75	3.07	12.26	1.64	0.03	1.11	0.57	38.71
2000	0.17	1.95	0.81	2.85	2.69	5.52	5.03	1.30	0.64	1.93	3.27	0.95	27.11
2001	1.61	1.53	1.38	2.37	8.78	2.29	2.06	1.95	2.39	2.10	1.55	0.67	28.68
2002	0.37	0.30	0.84	3.35	4.14	2.08	2.70	8.05	0.90	3.18	0.13	T	26.04
2003	0.34	1.32	0.50	3.66	4.37	3.25	2.49	0.74	1.41	1.43	2.91	0.84	23.26
2004	1.25	1.31	4.49	0.97	8.21	2.70	6.83	3.77	1.66	0.26	2.02	0.34	33.81
2005	0.52	1.90	0.98	2.63	4.60	2.69	1.93	4.66	0.92	0.75	1.04	0.81	23.43
2006	0.68	0.06	2.17	3.81	2.54	1.07	2.57	8.52	4.26	0.87	0.26	2.25	29.06
2007	0.59	1.12	4.15	3.71	10.63	0.24	1.66	6.62	2.31	6.23	0.03	1.79	39.08
2008	0.29	0.59	1.53	4.00	6.36	9.51	3.13	1.32	2.90	4.55	1.56	0.79	36.53
2009	0.24	0.75	1.05	2.21	1.38	4.58	3.65	6.24	1.72	3.46	0.36	2.28	27.92
2010	1.12	0.70	1.72	3.01	2.54	9.25	6.32	4.83	2.42	0.16	2.38	0.54	34.99
2011	1.14	0.59	0.71	3.31	5.08	4.31	3.33	5.84	0.99	0.39	1.31	1.71	28.71
2012	0.06	2.29	1.12	3.72	3.56	3.57	0.01	2.39	1.59	2.07	0.38	1.85	22.61
2013	0.50	0.79	1.98	5.33	5.74	4.74	0.44	1.72	2.72	3.78	1.06	0.20	29.00
POR= 65 YRS	0.77	0.94	1.89	2.96	4.50	4.11	3.66	3.94	3.03	2.15	1.47	0.91	30.33

WBAN : 14942

AVERAGE TEMPERATURE (°F) 2013 OMAHA (KOMA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	19.6	33.2	30.3	46.6	57.7	71.8	75.1	76.5	61.9	52.2	39.4	27.1	49.3
1985	19.1	23.6	43.4	54.9	63.4	67.2	74.1	69.4	62.1	52.7	28.5	16.4	47.9
1986	29.4	22.8	42.8	51.9	61.3	73.9	77.9	70.1	67.9	53.7	34.4	29.4	51.3
1987	28.6	36.8	42.8	55.3	67.3	74.2	77.8	70.9	64.8	48.3	43.4	30.9	53.4
1988	21.1	23.9	40.7	50.5	67.3	76.3	76.4	77.3	66.2	49.1	40.0	29.5	51.5
1989	32.4	16.0	37.9	54.6	62.4	69.4	77.4	74.4	63.0	53.9	36.2	17.7	49.6
1990	33.5	31.3	42.7	50.8	58.5	73.5	74.8	75.3	69.0	53.3	42.9	21.2	52.2
1991	16.3	34.2	42.5	54.2	67.3	74.6	75.8	74.3	66.0	52.1	30.6	31.8	51.6
1992	32.6	36.7	43.6	50.0	61.8	69.4	71.1	68.4	64.0	53.5	35.4	27.9	51.2
1993	19.5	22.2	35.6	47.7	61.4	70.0	75.1	75.2	59.7	50.9	35.0	29.4	48.5
1994	18.1	22.9	42.1	51.3	64.5	74.1	73.2	72.6	67.1	55.3	41.4	28.7	50.9
1995	23.0	31.5	39.3	47.9	58.1	71.8	78.7	79.6					
1996			33.0	49.2	59.4	72.8	73.4	72.8	63.1	54.0	32.9	22.2	
1997	19.0	29.5	41.6	45.7	58.0	73.4	77.2	73.4	66.5	54.0	35.3	29.9	50.3
1998	25.8	36.0	32.5	52.0	66.5	69.6	76.8	75.6	71.6	55.8	43.6	30.9	53.1
1999	22.6	35.5	39.5	51.6	62.3	70.8	80.4	72.8	63.8	53.3	47.0	31.0	52.6
2000	27.1	36.2	44.6	51.9	66.0	70.5	75.1	77.1	67.8	57.5	33.4	15.6	51.9
2001	26.6	21.4	35.0	55.5	63.5	71.6	79.0	75.7	65.0	53.5	49.4	32.0	52.4
2002	30.3	32.1	33.0	52.4	59.6	77.3	81.1	74.9	68.2	47.5	37.6	32.1	52.2
2003	22.8	23.7	39.6	53.4	59.6	69.1	78.4	78.0	63.4	55.4	37.9	30.2	51.0
2004	21.1	24.9	43.5	54.0	63.9	68.7	73.1	70.0	70.4	54.8	42.1	30.4	51.4
2005	20.9	32.9	40.7	55.5	61.8	75.6	79.7	75.0	71.1	55.0	42.6	24.4	52.9
2006	36.7	29.7	39.4	56.9	64.3	74.7	79.8	74.5	62.3	50.0	39.8	33.2	53.4
2007	22.3	21.3	46.3	49.9	66.5	72.9	78.5	78.2	67.0	56.9	38.7	22.8	51.8
2008	19.9	22.1	36.3	47.5	60.2	71.9	77.3	75.8	65.4	54.7	38.9	22.2	49.4
2009	20.8	29.8	39.4	50.0	63.7	71.7	71.9	71.7	65.5	46.8	45.7	20.4	49.8
2010	16.7	20.7	40.8	57.3	61.9	74.3	78.2	79.0	66.9	57.3	39.9	24.7	51.5
2011	18.3	26.1	39.3	51.7	62.5	73.3	82.0	76.5	63.8	57.1	41.5	30.2	51.9
2012	31.0	31.4	56.5	57.0	68.4	76.1	84.9	75.7	65.4	51.1	42.9	29.2	55.8
2013	25.6	29.4	34.3	47.3	62.0	72.0	76.3	76.8	71.0	52.9	37.5	22.2	50.6
POR= 65 YRS	21.9	27.5	38.4	51.8	62.8	72.5	77.3	74.8	65.7	53.9	39.3	26.7	51.0

HEATING DEGREE DAYS (base 65°F) 2013 OMAHA (KOMA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0	3	184	391	766	1166	1416	1153	666	325	88	45	6203
1985-86	0	13	217	378	1089	1501	1095	1176	689	389	134	1	6682
1986-87	0	15	40	338	913	1096	1122	784	685	322	67	7	5389
1987-88	1	32	67	512	639	1048	1353	1185	748	433	29	6	6053
1988-89	1	7	56	488	744	1095	1002	1368	844	380	143	23	6151
1989-90	0	7	140	356	855	1460	973	935	684	460	206	15	6091
1990-91	4	1	75	371	662	1350	1506	859	695	338	108	0	5969
1991-92	0	0	123	402	1027	1022	999	816	656	449	154	11	5659
1992-93	2	26	114	359	881	1141	1403	1192	904	514	140	34	6710
1993-94	0	1	171	448	895	1097	1448	1174	702	432	120	8	6496
1994-95	0	5	83	302	698	1116	1296	931	791	507	213	21	5963
1995-96	1	0							981	471	211	22	
1996-97	0	0	130	347	956	1321	1417	986	719	572	226	0	6674
1997-98	1	7	57	399	884	1082	1207	806	1000	390	52	58	5943
1998-99	0	0	22	287	634	1050	1307	818	781	396	122	27	5444
1999-00	0	2	112	366	535	1047	1168	828	625	391	72	16	5162
2000-01	0	1	87	242	940	1526	1185	1214	925	301	120	20	6561
2001-02	0	0	87	360	462	1014	1072	915	985	400	221	0	5516
2002-03	0	5	69	546	816	1013	1299	1149	781	369	183	35	6265
2003-04	0	0	128	315	807	1070	1357	1156	659	339	124	30	5985
2004-05	5	28	24	318	679	1065	1359	892	749	297	160	0	5576
2005-06	1	0	30	357	666	1249	871	983	788	270	126	0	5341
2006-07	0	0	123	490	746	978	1317	1219	581	466	48	5	5973
2007-08	0	0	74	279	782	1301	1389	1237	881	520	188	0	6651
2008-09	0	0	74	340	782	1320	1363	978	785	456	112	17	6227
2009-10	1	18	50	557	570	1377	1490	1233	743	248	183	0	6470
2010-11	0	0	48	249	745	1243	1438	1084	791	399	162	2	6161
2011-12	0	0	116	281	696	1073	1048	967	296	263	47	9	4796
2012-13	0	6	86	428	654	1103	1213	991	946	530	177	16	6150
2013-	5	0	17	385	819	1318							

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COOLING DEGREE DAYS (base 65°F) 2013 OMAHA (KOMA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	6	22	220	320	366	96	4	0	0	1034
1985	0	0	0	30	44	116	290	156	137	1	0	0	774
1986	0	0	10	5	26	276	408	181	133	0	0	0	1039
1987	0	0	0	39	145	292	407	221	69	2	1	0	1176
1988	0	0	0	5	109	351	364	394	99	3	0	0	1325
1989	0	0	10	77	68	159	395	306	89	19	0	0	1123
1990	0	0	0	41	9	277	316	327	199	12	4	0	1185
1991	0	0	5	21	184	295	345	295	161	9	0	0	1315
1992	0	0	0	7	63	150	198	136	90	11	0	0	655
1993	0	0	0	0	35	188	322	324	21	19	0	0	909
1994	0	0	0	28	108	287	262	248	151	9	0	0	1093
1995	0	0	0	0	8	230	431	458					
1996	0	0	0	8	46	264	266	250	79	14	0	0	
1997	0	0	0	0	18	260	388	273	110	62	0	0	1111
1998	0	0	1	6	108	205	373	336	227	9	0	0	1265
1999	0	0	0	0	43	208	484	248	84	12	0	0	1079
2000	0	0	0	2	110	188	317	385	179	18	0	0	1199
2001	0	0	0	27	80	225	439	342	93	10	1	0	1217
2002	0	0	0	27	62	377	507	322	170	8	0	0	1473
2003	0	0	0	29	24	166	421	410	85	20	0	0	1155
2004	0	0	0	20	100	147	264	190	191	10	0	0	922
2005	0	0	1	20	67	324	466	319	220	52	0	0	1469
2006	0	0	0	36	109	296	448	302	48	29	0	0	1268
2007	0	0	7	20	100	246	427	415	139	33	0	0	1387
2008	0	0	0	1	45	211	386	342	94	27	5	0	1111
2009	0	0	0	13	77	225	222	235	70	0	0	0	842
2010	0	0	1	24	93	283	416	443	112	16	0	0	1388
2011	0	0	0	5	94	257	531	361	85	45	0	0	1378
2012	0	0	38	30	160	348	624	342	105	2	0	0	1649
2013	0	0	0	7	89	235	360	375	207	21	0	0	1294

SNOWFALL (inches) 2013 OMAHA (KOMA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.0	T	T	5.0	4.0	4.0	6.0	T	0.0	0.0	19.0
1985-86	0.0	0.0	T	0.0	5.0	4.5	T	7.7	T	0.3	0.0	0.0	17.5
1986-87	0.0	0.0	0.0	0.0	1.8	5.5	1.2	1.6	10.5	T	0.0	0.0	20.6
1987-88	0.0	0.0	0.0	T	9.0	2.0	2.0	2.2	0.8	0.0	0.0	0.0	16.0
1988-89	0.0	0.0	0.0	0.0	4.3	2.7	1.4	11.8	3.3	T	T	0.0	23.5
1989-90	0.0	0.0	0.0	T	1.2	5.3	5.2	4.0	6.7	0.1	0.0	T	22.5
1990-91	0.0	0.0	0.0	T	1.1	10.1	14.9	0.3	4.1	1.1	0.0	T	31.6
1991-92	0.0	0.0	0.0	2.5	8.8	T	0.3	1.1	0.4	10.0	0.0	0.0	23.1
1992-93	0.0	0.0	0.0	0.0	5.8	3.9	13.0	8.5	4.1	1.5	0.0	T	36.8
1993-94	0.0	0.0	0.0	T	2.8	3.1	3.5	8.8	1.4	1.2	0.0	T	20.8
1994-95	0.0	0.0	0.0	0.0	2.0	12.1	5.5	3.0	4.8	0.4	T	0.0	27.8
1995-96	T	0.0	0.0										
1996-97						6.2			T				
1997-98													
1998-99						4.0	6.0	12.2	5.8	0.4	0.0	0.0	
1999-00					T	4.1	1.6	7.7	T	T	0.0	T	
2000-01	0.0	0.0	0.0	0.0	2.7	18.1	6.9	10.4	0.7	T	T	T	38.8
2001-02	0.0	0.0	0.0	T	T	1.8	6.6	2.2	11.1	T	T	0.0	21.7
2002-03	T	T	0.0	1.6	1.5	T	7.5	12.2	3.9	4.9	T	0.0	31.6
2003-04	0.0	0.0	0.0	0.0	0.3	6.8	19.8	17.7	3.2	0.0	T	0.0	47.8
2004-05	T	T	0.0	0.0	2.4	T	14.6	4.4	T	0.0	T	T	21.4
2005-06	0.0	T	T	0.0	4.1	5.4	T	1.2	9.4	T	0.0	0.0	20.1
2006-07	0.0	0.0	0.0	T	T	2.6	11.1	8.9	7.9	T	T	0.0	30.5
2007-08	0.0	0.0	0.0	T	0.2	9.2	6.5	6.4	0.9	T	0.0	T	23.2
2008-09	T	0.0	0.0	0.0	0.1	5.5	5.4	9.8	T	0.6	T	T	21.4
2009-10	T	0.0	0.0	3.7	0.0	24.6	10.4	8.1	0.8	T	T	T	47.6
2010-11	0.0	0.0	0.0	0.0	3.4	4.8	13.9	7.4	5.4	T	0.0	T	34.9
2011-12	0.0	T	0.0	0.0	1.3	6.3	1.2	11.6	0.0	T	T	0.0	20.4
2012-13	0.0	T	0.0	0.0	T	7.4	4.7	9.3	11.1	0.1	3.1	0.0	35.7
2013-	0.0	0.0	0.0	0.0	0.4	3.1							
POR= 62 YRS	T	T	T	0.3	2.4	5.8	7.1	6.7	5.9	0.8	0.1	T	29.1

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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: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: 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
OMAHA (EPPLEY AIRFIELD)
NEBRASKA (KOMA)

Omaha, Nebraska, is situated on the west bank of the Missouri River. The river level at Omaha is normally about 965 feet above sea level and the rolling hills in and around Omaha rise to about 1,300 feet above sea level. The climate is typically continental with relatively warm summers and cold, dry winters. It is situated midway between two distinctive climatic zones, the humid east and the dry west. Fluctuations between these two zones produce weather conditions for periods that are characteristic of either zone, or combinations of both. Omaha is also affected by most low pressure systems that cross the country. This causes periodic and rapid changes in weather, especially during the winter months.

Most of the precipitation in Omaha falls during sharp showers or thunderstorms, and these occur mostly during the growing season from April to September. Of the total precipitation, about 75 percent falls during this six-month period. The rain occurs mostly as evening or nighttime showers and thunderstorms. Although winters are relatively cold, precipitation is light, with only 10 percent of the total annual precipitation falling during the winter months.

Sunshine is fairly abundant, ranging around 50 percent of the possible in the winter to 75 percent of the possible in the summer.

Station History

OMAHA, NE

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
OMAHA EPPLEY AIRFIELD	1973-01-01	1977-01-01	41° 18'	-95° 54'	997		COOP, WXSVC
OMAHA EPPLEY AIRFIELD	1996-02-22	2012-02-01	41° 18'	-95° 53'	982		AIRWAYS, ASOS, COOP
OMAHA WB AP	1930-11-01	1932-01-01	41° 18'	-95° 54'			AIRWAYS
OMAHA EPPLEY AIRFIELD	1995-10-01	1996-02-22	41° 18'	-95° 52'	982		AIRWAYS, COOP
OMAHA MUNICIPAL AP	1935-06-01	1941-06-12	41° 18'	-95° 54'	997		AIRWAYS
OMAHA EPPLEY AIRFIELD	2012-02-01	Present	41° 18'	-95° 53'	982		AIRWAYS, ASOS, COOP
OMAHA EPPLEY AIRFIELD	1977-01-01	1995-10-01	41° 18'	-95° 54'	997		AIRWAYS, COOP
OMAHA WB AP	1932-01-01	1935-06-01	41° 18'	-95° 54'	997		AIRWAYS
OMAHA FORT CROOK	1929-06-01	1930-10-31	41° 7'	-95° 55'			AIRWAYS
OMAHA EPPLEY AIRFIELD	1941-06-12	1947-12-01	41° 18'	-95° 54'	997		AIRWAYS
OMAHA EPPLEY AIRFIELD	1947-12-01	1973-01-01	41° 18'	-95° 54'	997		AIRWAYS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1995-07-01	1995-10-01	DAILY	2400	HYGR		
TEMP	1930-11-01	1994-08-01	DAILY	2400			
PRECIP	1995-07-01	1995-10-01	DAILY	2400	UNIV	RCRD	
PRECIP	1930-11-01	1994-08-01	DAILY	2400			
PRECIP	1995-07-01	1995-10-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1995-10-01	2003-09-29	DAILY	2400	AHTB	RCRD;HTD	
TEMP	1995-10-01	2003-09-29	DAILY	2400	HYGR		
TEMP	1994-08-01	1995-07-01	DAILY	2400	HYGR		
PRECIP	1995-10-01	2003-09-29	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	2003-09-29	Present	DAILY	2400	ATEMP		
PRECIP	1994-08-01	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	2003-09-29	Present	DAILY	2400	PCPNX		
PRECIP	2003-09-29	Present	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	1994-08-01	1995-07-01	HOURLY	2400			

* 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>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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