

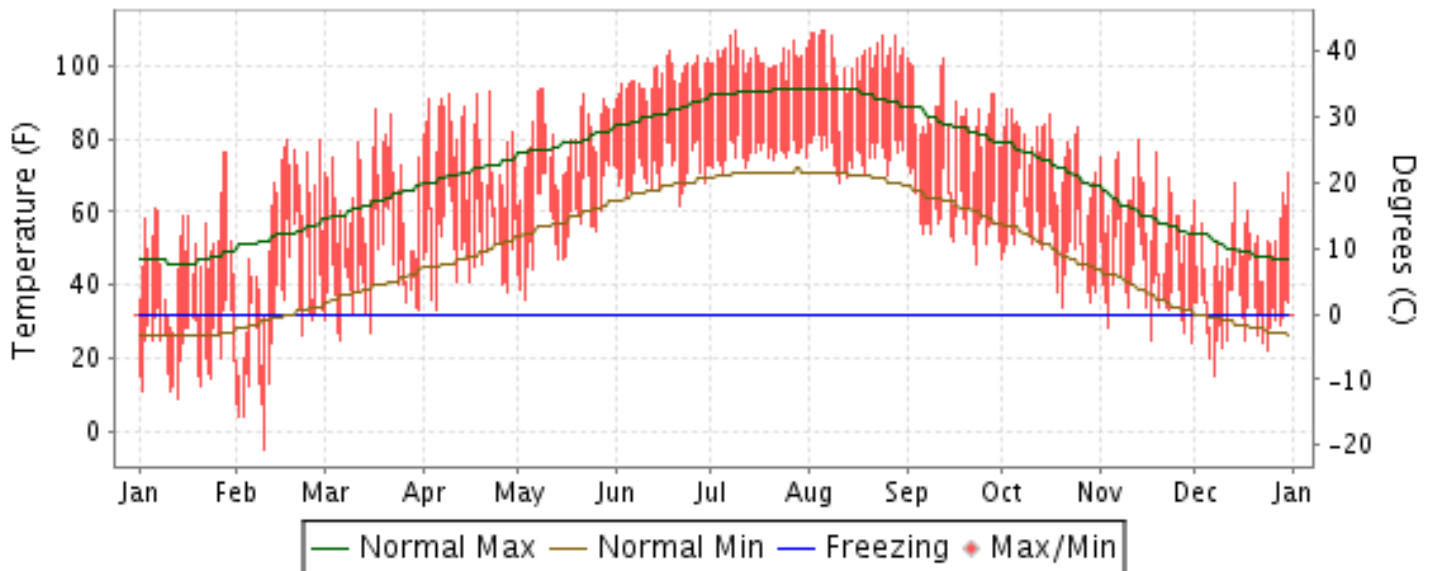


# 2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

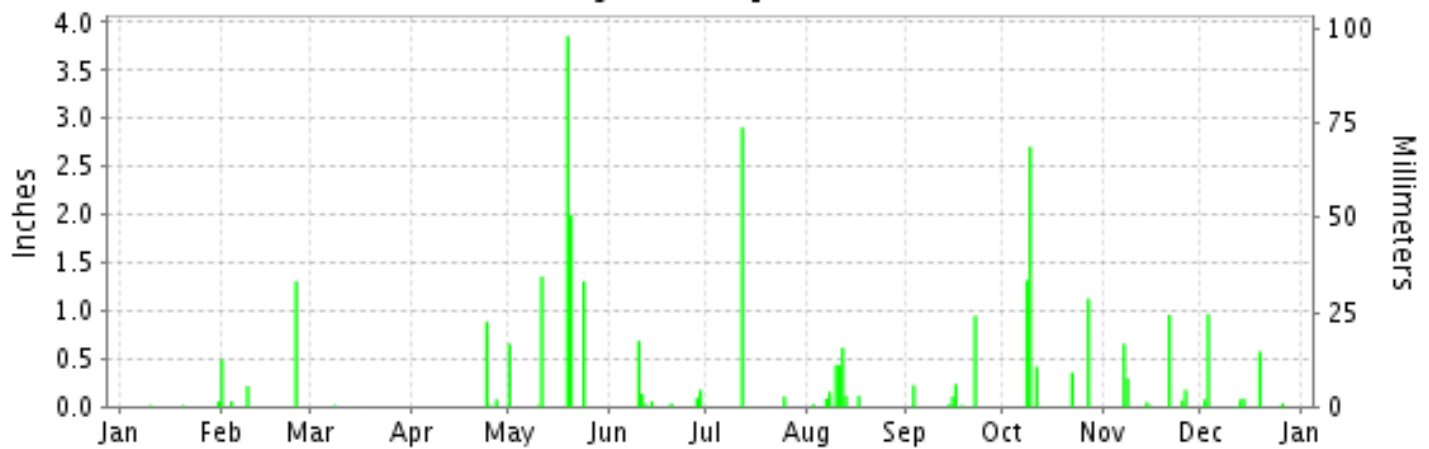
ISSN 0198-4055

## OKLAHOMA CITY, OKLAHOMA (KOKC)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2011

## OKLAHOMA CITY (KOKC)

LATITUDE: 35° 23'N      LONGITUDE: -97° 36'W      ELEVATION (FT): GRND: 1285 BARO: 1284      TIME ZONE: CENTRAL (UTC -6)      WBAN: 13967

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	49.4	53.8	65.6	78.5	80.2	97.2	102.5	102.2	85.9	75.8	61.3	51.1	75.3	
	HIGHEST DAILY MAXIMUM	76	80	88	93	94	104	110	110	102	88	80	71	110	
	DATE OF OCCURRENCE	29+	27+	17	22	09+	18	09	06+	13+	04+	13	31	AUG 06+	
	MEAN DAILY MINIMUM	22.6	28.9	41.6	50.6	57.7	70.9	75.9	75.7	58.9	50.4	39.4	31.1	50.3	
	LOWEST DAILY MINIMUM	9	-5	25	33	36	62	71	68	46	34	24	15	-5	
	DATE OF OCCURRENCE	13	10	06	05	03	21	05	11	23	20	30	07	FEB 10	
	AVERAGE DRY BULB	36.0	41.4	53.6	64.6	69.0	84.1	89.2	89.0	72.4	63.1	50.4	41.1	62.8	
	MEAN WET BULB	30.1		45.9	53.3	60.8	70.6	72.7	71.9	59.4	53.5	43.9	36.5		
	MEAN DEW POINT	20.3		37.1	41.7	54.8	63.4	64.9	63.9	50.3	46.0	36.5	30.6		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	5	5	30	31	30	8	0	0	0	0	109
MAXIMUM <= 32°	4	6	0	0	0	0	0	0	0	0	0	1	1	11	
MINIMUM <= 32°	27	16	6	0	0	0	0	0	0	0	5	17	7	71	
MINIMUM <= 0°	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
H/C	HEATING DEGREE DAYS	888	663	378	110	67	0	0	0	18	128	436	734	3422	
	COOLING DEGREE DAYS	0	8	33	103	199	581	759	750	246	78	5	0	2762	
RH	MEAN (PERCENT)	58	63	59	49	64	52	48	48	50	60	63	70	57	
	HOUR 00 LST	66	71	63	56	71	59	55	56	57	67	70	76	64	
	HOUR 06 LST	72	75	74	70	79	73	72	66	71	77	75	80	74	
	HOUR 12 LST	48	56	52	38	54	40	35	38	39	45	50	61	46	
	HOUR 18 LST	48	51	46	33	51	36	31	32	36	51	57	65	45	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	0	0	1	0	0	0	0	1	2	1	5	
	THUNDERSTORMS	1	1	0	2	6	8	5	10	4	4	3	1	45	
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.)	28.69	28.66	28.61	28.42	28.46	28.47	28.52	28.50	28.63	28.65	28.65	28.77	28.59	
	MEAN SEA-LEVEL PRESS. (IN.)	30.11	30.06	30.00	29.77		29.80	29.85	29.83	29.99	30.02	30.03	30.18		
WINDS	RESULTANT SPEED (MPH)	2.0	0.4	1.7	2.8	6.8	10.8	6.9	5.3	2.9	2.8	2.7	0.6	2.8	
	RES. DIR. (TENS OF DEGS.)	34	34	12	20	17	18	16	16	05	16	22	26	17	
	MEAN SPEED (MPH)	9.9	12.9	13.5	15.4	14.5	14.2	9.2	9.8	9.6	10.3	13.6	10.3	11.9	
	PREVAIL.DIR.(TENS OF DEGS.)	35	18	17	17	17	17	16	17	01	15	17	16	16	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	33	41	38	51	44	43	44	39	32	40	41	45	51	
	DIR. (TENS OF DEGS.)	36	33	20	32	16	30	35	16	06	25	25	33	32	
	DATE OF OCCURRENCE	31	01	11	15	19	29	12	13	14	11	07	31	APR 15	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	40	53	49	67	58	53	54	56	40	49	55	58	67	
DIR. (TENS OF DEGS.)	35	33	20	31	16	31	25	16	06	25	25	34	31		
DATE OF OCCURRENCE	31	01	11	15	19	29	12	13	14	11	07	31	APR 15		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.10	2.09	0.03	0.99	9.21	1.24	3.04	2.02	1.60	5.95	2.24	1.86	30.37	
	GREATEST 24-HOUR (IN.)	0.06	1.31	0.02	0.89	5.86	0.82	2.91	0.74	0.95	2.94	0.96	1.05	5.86	
	DATE OF OCCURRENCE	31	24	08	24	19-20	10-11	12	12-13	22	08-09	21	02-03	MAY 19-20	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	3	4	2	3	6	7	4	8	8	6	7	8	66	
PRECIPITATION 0.10	0	3	0	1	5	4	2	6	4	5	4	2	36		
PRECIPITATION 1.00	0	1	0	0	4	0	1	0	0	3	0	0	9		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	0.7	18.9	0.0	0.0	T	0.0	T	0.0	0.0	T	0.0	T	19.6	
	GREATEST 24-HOUR (IN.)	0.3	11.8	0.0	0.0	T	0.0	T	0.0	0.0	T	0.0	T	11.8	
	DATE OF OCCURRENCE	31	01			19+		12			22		05	FEB 01	
	MAXIMUM SNOW DEPTH (IN.)	7	12	0	0	0	0	0	0	0	0	0	0	12	
	DATE OF OCCURRENCE	31	02											FEB 02	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	3	0	0	0	0	0	0	0	0	0	0	3		

# NORMALS, MEANS, AND EXTREMES OKLAHOMA CITY (KOKC)

**LATITUDE:** 35° 23'N      **LONGITUDE:** -97° 36'W      **ELEVATION (FT):** GRND: 1285 BARO: 1284      **TIME ZONE:** CENTRAL (UTC -6)      **WBAN: 13967**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	47.1	53.5	62.5	71.2	78.9	87.2	93.1	92.5	84.1	73.4	59.6	49.8	71.1
	MEAN DAILY MAXIMUM	64	47.5	52.9	61.6	71.7	79.2	87.5	93.2	92.8	84.2	73.6	60.4	50.4	71.3
	HIGHEST DAILY MAXIMUM	57	80	92	93	100	104	105	110	110	108	96	87	86	110
	YEAR OF OCCURRENCE		1986	1996	1967	1972	1985	1998	2011	2011	2000	1972	1980	1955	AUG 2011
	MEAN OF EXTREME MAXS.	64	69.9	75.1	82.8	87.5	91.9	96.6	101.6	101.7	96.6	89.0	78.3	70.9	86.8
	NORMAL DAILY MINIMUM	30	26.2	31.1	39.4	48.1	57.9	66.4	70.8	69.8	62.2	50.6	38.2	29.2	49.2
	MEAN DAILY MINIMUM	64	26.4	30.7	38.6	48.7	58.2	66.6	70.9	69.9	62.0	50.5	38.3	29.4	49.2
	LOWEST DAILY MINIMUM	57	-4	-5	3	20	36	47	53	51	36	16	11	-8	-8
	YEAR OF OCCURRENCE		1988	2011	1960	1957	2011	1954	1971	1956	1989	1993	1991	1989	DEC 1989
	MEAN OF EXTREME MINS.	64	8.3	13.1	20.3	32.2	44.3	55.9	62.6	60.7	46.8	34.4	22.0	12.4	34.4
	NORMAL DRY BULB	30	36.7	42.3	51.0	59.7	68.4	76.8	82.0	81.2	73.2	62.0	48.9	39.5	60.1
	MEAN DRY BULB	64	37.0	41.8	50.1	60.2	68.7	77.2	82.1	81.4	73.2	62.1	49.4	39.9	60.3
	MEAN WET BULB	28	31.3	35.7	42.9	51.0	61.0	68.1	70.3	69.6	63.1	53.0	42.4	33.8	51.9
	MEAN DEW POINT	28	28.1	31.5	39.1	47.5	58.6	66.1	67.7	66.9	60.6	50.2	39.0	30.5	48.8
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	*	0.1	0.4	2.1	10.9	22.3	22.6	9.6	0.9	0.0	0.0	68.9
	MAXIMUM <= 32	30	4.7	2.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.6	10.4
MINIMUM <= 32	30	22.5	14.9	7.3	1.1	0.0	0.0	0.0	0.0	0.0	0.6	8.5	19.6	74.5	
MINIMUM <= 0	30	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	884	648	446	197	43	1	0	0	30	152	482	780	3663
	NORMAL COOLING DEG. DAYS	30	0	1	7	38	145	360	527	497	271	58	3	0	1907
<b>RH</b>	NORMAL (PERCENT)	30	67	65	63	63	70	69	63	63	67	67	69	70	66
	HOURLY 00 LST	30	73	71	69	70	78	78	72	71	76	74	75	75	74
	HOURLY 06 LST	30	78	77	77	78	84	85	81	81	83	81	81	79	80
	HOURLY 12 LST	30	58	57	53	52	58	57	50	50	54	53	58	60	55
	HOURLY 18 LST	30	59	54	50	49	56	55	47	47	53	56	62	63	54
<b>S</b>	PERCENT POSSIBLE SUNSHINE	41	60	61	65	66	66	76	80	80	74	70	62	59	68
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	48	3.5	2.8	1.7	1.0	0.9	0.6	0.1	0.4	0.7	1.4	2.2	3.1	18.4
	THUNDERSTORMS	64	0.7	1.3	3.5	5.4	8.7	8.7	6.0	6.4	4.8	3.4	1.4	0.8	51.1
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)	1	4.8	5.1	5.3	4.8	5.2	2.4	2.0	2.7	4.8	3.6	3.2	4.8	4.1
	MIDNIGHT-MIDNIGHT (OKTAS)	1	4.8	5.2	5.1	4.8	5.2	2.4	2.0	2.4	2.4	3.2	3.6	4.0	3.8
	MEAN NO. DAYS WITH: CLEAR	3	4.3	10.0	8.3	10.5	8.7	13.0	16.0	15.0	7.0	12.5	5.5	8.5	119.3
	PARTLY CLOUDY	3	4.7	2.7	2.7	2.0	6.0	5.3	4.5	4.5	3.0	4.0	4.5	5.0	48.9
	CLOUDY	3	7.3	10.0	7.0	8.0	6.3	3.3	2.5	3.0	2.0	5.0	6.5	7.5	68.4
<b>PR</b>	MEAN STATION PRESSURE(IN)	28	28.73	28.69	28.62	28.56	28.55	28.56	28.61	28.62	28.64	28.66	28.68	28.72	28.64
	MEAN SEA-LEVEL PRES. (IN)	28	30.14	30.09	30.00	29.92	29.90	29.90	29.94	29.95	29.99	30.03	30.07	30.13	30.01
<b>WINDS</b>	MEAN SPEED (MPH)	28	11.6	12.2	13.4	13.4	11.7	10.8	10.0	9.4	9.9	11.0	11.9	11.4	11.4
	PREVAIL.DIR(TENS OF DEGS)	31	36	36	17	17	17	17	17	17	16	17	17	17	17
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	47	45	52	51	53	49	48	46	41	43	48	49	53
	DIR. (TENS OF DEGS)		31	32	24	32	23	03	34	05	01	03	23	34	23
	YEAR OF OCCURRENCE		2008	1997	1996	2011	2002	2004	2000	1996	2010	1994	2005	2009	MAY 2002
	MAXIMUM 3-SECOND SPEED (MPH)	18	53	54	62	67	74	63	64	56	52	51	56	62	74
	DIR. (TENS OF DEGS)		31	33	23	31	27	22	33	16	01	03	20	33	27
	YEAR OF OCCURRENCE		2008	1997	1996	2011	2008	1998	2000	2011	2010	1994	1994	2009	MAY 2008
<b>PRECIPITATION</b>	NORMAL (IN)	30	1.28	1.56	2.90	3.00	5.44	4.63	2.94	2.48	3.98	3.64	2.11	1.89	35.85
	MAXIMUM MONTHLY (IN)	71	5.68	4.63	8.02	10.78	12.07	14.66	11.90	9.95	11.85	13.18	5.72	8.14	14.66
	YEAR OF OCCURRENCE		1949	1990	2007	1947	1982	1989	1996	2008	1991	1983	1994	1984	JUN 1989
	MINIMUM MONTHLY (IN)	71	0.00	T	T	0.17	0.33	0.55	T	0.00	T	T	T	0.03	0.00
	YEAR OF OCCURRENCE		1985	1947	1940	1989	1942	2001	1983	2000	1948	1958	1949	1996	AUG 2000
	MAXIMUM IN 24 HOURS (IN)	71	3.10	2.21	3.51	4.48	7.56	7.80	5.75	5.39	7.68	8.95	2.89	2.89	8.95
	YEAR OF OCCURRENCE		1982	2008	2007	1999	1993	2010	1981	2007	1970	1983	1994	1991	OCT 1983
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	5.6	5.6	7.4	7.6	10.3	8.5	5.8	6.2	7.6	7.3	6.3	5.6	83.8
	PRECIPITATION >= 1.00	30	0.3	0.3	1.0	0.8	1.5	1.6	1.0	0.8	1.2	1.1	0.7	0.6	10.9
<b>SNOWFALL</b>	NORMAL (IN)	30	3.1	2.1	0.7	0.*	0.0	0.0	0.0	0.0	0.0	0.*	0.6	2.1	8.6
	MAXIMUM MONTHLY (IN)	71	17.3	18.9	13.9	0.7	T	T	T	T	T	0.1	7.5	14.0	18.9
	YEAR OF OCCURRENCE		1949	2011	1968	1957	2011	1992	2011	1997	1992	1993	1972	2009	FEB 2011
	MAXIMUM IN 24 HOURS (IN)	71	8.9	11.8	8.4	0.7	T	T	T	T	T	0.1	5.5	13.5	13.5
	YEAR OF OCCURRENCE		1988	2011	1948	1957	2011	1992	2011	1997	1992	1993	1972	2009	DEC 2009
	MAXIMUM SNOW DEPTH (IN)	63	12	12	8	T	0	0	0	0	0	T	3	14	14
	YEAR OF OCCURRENCE		1988	2011	1948	1973						1993	1980	2009	DEC 2009
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.0	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	2.9

**PRECIPITATION (inches) 2011 OKLAHOMA CITY (KOKC)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	3.68	0.98	1.63	1.92	12.07	4.06	2.11	1.13	2.86	1.03	2.78	1.94	36.19
1983	2.62	1.71	2.51	2.34	6.88	3.18	T	3.18	0.90	13.18	1.90	0.70	39.10
1984	0.35	1.16	4.70	1.79	1.62	3.48	0.30	2.35	1.01	6.64	2.05	8.14	33.59
1985	0.92	3.71	6.60	5.35	1.49	8.34	1.33	2.63	4.59	5.23	3.73	0.26	44.18
1986	0.00	0.68	1.75	4.42	8.21	3.11	0.38	3.29	9.54	8.00	4.63	1.16	45.17
1987	2.45	4.05	2.33	0.41	11.86	6.50	2.99	1.83	4.58	1.82	1.92	3.75	44.49
1988	1.24	0.41	7.85	3.19	1.07	3.59	1.92	1.60	5.19	2.04	2.45	1.39	31.94
1989	1.17	2.20	2.72	0.17	4.33	14.66	1.91	5.55	4.51	3.26	0.09	0.32	40.89
1990	1.85	4.63	4.43	5.11	5.79	1.25	2.65	3.16	7.35	1.27	1.59	1.46	40.54
1991	0.89	0.03	1.59	2.10	6.39	3.85	1.98	3.24	11.85	3.98	1.94	5.90	43.74
1992	1.15	1.28	1.08	3.64	4.88	6.35	4.01	5.82	2.92	1.13	4.51	3.08	39.85
1993	1.90	3.21	2.82	2.50	10.90	2.65	1.24	1.86	7.05	0.47	1.34	1.27	37.21
1994	0.21	2.56	3.18	3.38	2.69	1.70	2.17	1.81	2.17	1.88	5.72	1.63	29.10
1995	1.28	0.04	2.21	3.76	7.39	6.06	1.94	3.15	6.66	1.54	0.39	2.35	36.77
1996	0.08	0.02	2.17	2.00	1.90	1.16	11.90	5.85	5.88	2.53	3.36	T	36.85
1997	0.52	2.59	0.60	4.39	3.68	3.01	4.60	4.04	1.66	3.93	1.11	2.96	33.09
1998	4.09	0.32	6.45	3.34	2.12	2.67	0.02	0.48	4.39	6.76	3.09	1.62	35.35
1999	1.81	1.20	3.45	6.92	3.10	8.61	1.94	1.35	4.88	2.22	0.06	3.71	39.25
2000	0.75	1.47	3.12	5.17	1.36	6.71	5.25	0.00	1.73	8.39	2.79	2.30	39.04
2001	2.23	2.25	1.01	1.04	7.70	0.55	1.27	1.95	5.55	3.56	1.08	0.91	29.10
2002	2.62	0.47	2.24	5.10	2.48	4.56	4.94	1.58	2.94	4.64	0.74	1.84	34.15
2003	0.02	0.87	2.30	1.56	2.41	4.70	0.65	4.79	1.98	1.01	1.23	1.11	22.63
2004	1.45	1.45	3.98	1.35	1.20	7.03	3.65	5.01	0.64	4.86	5.66	0.50	36.78
2005	2.05	2.69	0.44	0.29	2.23	4.89	3.22	4.45	1.89	1.17	T	0.28	23.60
2006	0.27	0.08	2.78	3.18	3.01	2.32	3.42	4.01	3.76	1.56	1.43	2.02	27.84
2007	2.08	0.62	8.02	2.57	8.49	10.06	6.31	5.39	5.73	3.72	0.53	3.43	56.95
2008	0.65	2.88	3.29	4.17	4.54	5.83	1.07	9.95	0.59	1.63	0.70	0.52	35.82
2009	0.43	0.98	2.53	4.80	4.54	1.13	3.53	5.74	4.62	5.63	0.29	1.47	35.69
2010	2.77	2.47	0.96	2.97	2.27	9.05	5.91	0.48	3.59	0.99	0.94	0.13	32.53
2011	0.10	2.09	0.03	0.99	9.21	1.24	3.04	2.02	1.60	5.95	2.24	1.86	30.37
POR= 64 YRS	1.22	1.46	2.53	2.88	5.21	4.40	3.02	2.83	3.62	3.18	1.72	1.49	33.56

WBAN : 13967

**AVERAGE TEMPERATURE (°F) 2011 OKLAHOMA CITY (KOKC)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	35.3	37.7	52.7	57.5	68.2	72.2	81.0	84.1	74.5	62.7	48.6	43.2	59.8
1983	38.6	42.6	48.8	54.0	64.6	73.4	81.6	84.0	74.9	62.7	50.4	25.8	58.5
1984	34.0	45.4	46.4	56.5	68.4	78.6	81.6	82.6	71.5	61.6	49.7	43.0	59.9
1985	30.6	37.2	53.0	62.7	70.0	76.0	80.9	81.3	73.1	61.2	46.1	35.1	58.9
1986	43.6	44.8	55.5	62.8	69.0	79.0	85.9	80.0	74.8	61.6	44.8	40.8	61.9
1987	35.1	45.9	50.3	61.8	72.6	77.1	80.1	82.2	72.4	60.0	50.5	40.6	60.7
1988	34.2	40.3	49.5	58.9	70.3	78.4	81.6	82.8	73.5	59.3	51.2	43.9	60.3
1989	42.8	33.1	51.1	63.4	69.4	74.3	79.6	78.3	67.8	63.1	52.2	32.7	59.0
1990	45.9	46.0	52.6	59.2	68.6	82.0	80.7	81.6	77.0	60.9	54.9	37.1	62.2
1991	34.9	49.0	54.3	62.5	72.3	78.0	82.2	81.2	70.9	62.6	45.0	44.1	61.4
1992	42.0	49.9	54.1	61.3	66.5	74.1	81.1	74.8	72.5	62.3	45.9	39.8	60.4
1993	36.5	38.8	48.0	56.2	66.0	76.8	83.6	82.3	69.8	57.1	44.2	42.0	58.4
1994	36.0	37.4	52.7	59.4	66.8	79.6	79.9	79.7	70.7	62.6	50.1	42.5	59.8
1995	38.6	44.9	49.8	56.8	64.3	73.0	81.0	81.5	70.9	61.6	49.3	39.9	59.3
1996	35.8	44.3	46.0	58.7	73.8	77.9	81.3	78.0	69.4	61.2	46.3	42.3	59.6
1997	37.8	44.0	52.5	54.7	66.7	75.4	81.6	78.6	75.3	62.3	46.5	39.1	59.5
1998	40.6	45.5	47.4	57.4	72.5	81.1	88.0	85.0	81.2	64.4	53.2	41.6	63.2
1999	40.5	50.7	49.8	61.3	68.1	75.7	82.2	84.8	71.1	62.7	56.8	43.3	62.3
2000	40.7	49.1	53.4	59.0	71.0	74.6	80.8	85.4	76.1	64.1	43.3	30.5	60.7
2001	36.3	40.8	46.6	63.6	69.5	76.4	85.7	82.9	70.7	60.2	53.9	42.2	60.7
2002	40.0	41.1	46.0	61.0	65.9	76.3	79.8	81.3	74.2	56.2	47.4	41.0	59.2
2003	36.8	37.7	49.5	60.4	69.1	73.9	84.3	82.8	69.4	63.6	50.5	43.1	60.1
2004	39.9	39.9	55.3	61.2	71.9	75.4	78.9	76.6	75.1	64.6	50.6	43.5	61.1
2005	39.6	46.8	51.7	61.3	69.2	78.0	80.4	81.0	77.1	63.5	53.8	38.9	61.8
2006	47.7	41.7	55.1	67.3	72.6	80.0	86.2	85.9	71.3	62.8	52.9	43.5	63.9
2007	36.8	42.1	60.2	57.4	71.0	77.1	80.7	84.2	76.1	65.5	52.9	39.1	61.9
2008	40.1	42.0	52.7	59.6	71.4	80.1	83.5	81.1	71.4	61.3	51.0	39.5	61.1
2009	37.3	48.1	53.9	59.6	66.6	80.2	82.4	79.3	70.8	55.7	54.1	35.0	60.3
2010	36.1	36.6	49.6	61.8	69.3	81.2	82.5	85.1	76.0	63.2	51.2	40.9	61.1
2011	36.0	41.4	53.6	64.6	69.0	84.1	89.2	89.0	72.4	63.1	50.4	41.1	62.8
POR= 64 YRS	37.0	41.8	50.1	60.2	68.7	77.2	82.1	81.4	73.2	62.1	49.4	39.9	60.2

**HEATING DEGREE DAYS (base 65°F) 2011 OKLAHOMA CITY (KOKC)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0	0	14	156	490	671	809	622	496	345	96	9	3708
1983-84	0	0	25	117	439	1207	955	561	572	263	45	0	4184
1984-85	0	0	75	162	462	676	1059	773	377	108	10	0	3702
1985-86	0	0	63	146	562	921	656	562	308	122	17	0	3357
1986-87	0	0	2	137	599	742	918	528	450	177	3	0	3556
1987-88	0	0	1	165	442	748	948	712	473	204	14	0	3707
1988-89	0	0	8	196	408	644	679	887	441	140	38	0	3441
1989-90	0	0	78	135	386	993	583	525	387	202	52	0	3341
1990-91	0	0	9	169	307	860	925	444	339	110	25	0	3188
1991-92	0	0	37	150	594	642	704	430	332	154	59	2	3104
1992-93	0	1	5	115	563	774	878	725	525	265	53	0	3904
1993-94	0	1	27	269	619	706	896	767	394	204	53	0	3936
1994-95	0	0	31	138	451	690	810	554	477	253	84	0	3488
1995-96	0	0	75	129	465	767	898	602	584	209	10	0	3739
1996-97	0	0	29	151	556	697	839	583	385	310	43	0	3593
1997-98	0	1	2	188	549	798	750	542	554	238	9	3	3634
1998-99	0	0	0	75	347	719	752	398	463	144	28	0	2926
1999-00	0	0	34	115	249	669	746	457	354	192	40	1	2857
2000-01	0	0	35	113	648	1063	882	672	561	105	22	0	4101
2001-02	0	0	18	169	338	698	768	661	582	163	65	0	3462
2002-03	0	0	2	307	527	736	868	757	476	169	19	1	3862
2003-04	0	0	24	112	443	672	768	721	313	145	39	0	3237
2004-05	0	0	0	79	428	658	780	505	405	139	68	0	3062
2005-06	0	0	3	140	356	802	531	645	330	63	28	0	2898
2006-07	0	0	9	150	362	658	867	636	179	257	3	0	3121
2007-08	0	0	0	109	365	798	766	660	385	192	33	0	3308
2008-09	0	0	2	157	420	787	853	470	361	202	57	0	3309
2009-10	0	0	19	290	324	925	891	789	478	133	37	0	3886
2010-11	0	0	7	85	410	743	888	663	378	110	67	0	3351
2011-	0	0	18	128	436	734							

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**COOLING DEGREE DAYS (base 65°F) 2011 OKLAHOMA CITY (KOKC)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	0	9	28	130	234	503	598	305	90	3	1	1901
1983	0	0	0	20	91	266	523	599	329	54	8	0	1890
1984	0	0	0	16	159	414	521	551	279	64	5	0	2009
1985	0	0	12	43	172	336	501	512	313	38	0	0	1927
1986	0	2	21	63	147	425	653	473	301	40	0	0	2125
1987	0	0	0	88	242	371	475	543	230	18	12	0	1979
1988	0	0	1	29	186	410	525	558	270	25	1	0	2005
1989	0	0	16	100	179	285	459	419	170	83	8	0	1719
1990	0	0	12	33	169	517	495	522	378	48	13	0	2187
1991	0	0	15	45	257	398	542	507	219	85	1	0	2069
1992	0	0	3	51	114	283	508	312	239	36	0	1	1547
1993	0	0	4	9	89	362	584	545	177	32	0	0	1802
1994	0	0	20	44	116	446	470	464	208	70	9	0	1847
1995	0	0	11	14	72	250	506	521	262	33	0	0	1669
1996	0	7	4	28	288	382	514	408	170	42	0	0	1843
1997	2	0	5	7	104	316	520	429	317	112	0	0	1812
1998	0	0	13	16	252	496	719	627	497	62	2	0	2684
1999	0	4	0	40	131	327	540	619	225	51	10	0	1947
2000	0	0	3	20	232	295	498	639	372	94	0	0	2153
2001	0	0	0	70	168	348	650	563	196	27	8	1	2031
2002	0	0	1	50	102	344	468	509	285	41	5	0	1805
2003	0	0	4	36	152	275	603	559	162	75	17	0	1883
2004	0	0	18	39	260	318	439	368	308	73	0	0	1823
2005	0	0	1	37	206	399	484	502	373	102	25	0	2129
2006	0	0	32	139	270	456	664	656	203	90	6	0	2516
2007	0	2	38	35	194	372	494	599	342	130	8	0	2214
2008	1	0	10	37	240	460	581	507	200	50	5	3	2094
2009	0	1	23	48	117	464	545	447	199	8	2	0	1854
2010	0	0	9	45	174	494	549	630	344	37	3	0	2285
2011	0	8	33	103	199	581	759	750	246	78	5	0	2762

**SNOWFALL (inches) 2011 OKLAHOMA CITY (KOKC)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0.0	0.0	0.0	0.0	T	T	5.1	4.3	T	0.0	0.0	0.0	9.4
1983-84	0.0	0.0	0.0	0.0	T	1.9	5.6	2.0	T	0.0	0.0	0.0	9.5
1984-85	0.0	0.0	0.0	0.0	T	6.1	1.5	2.3	0.0	0.0	0.0	0.0	9.9
1985-86	0.0	0.0	0.0	0.0	T	2.9	0.0	10.9	0.0	0.0	0.0	0.0	13.8
1986-87	0.0	0.0	0.0	0.0	0.0	T	10.0	1.0	T	0.0	0.0	0.0	11.0
1987-88	0.0	0.0	0.0	0.0	2.0	8.3	12.1	0.2	0.9	0.0	0.0	0.0	23.5
1988-89	0.0	0.0	0.0	0.0	0.6	2.0	4.8	T	4.0	0.6	T	0.0	12.0
1989-90	0.0	0.0	0.0	0.0	T	1.7	0.0	1.7	0.1	0.0	0.0	0.0	3.5
1990-91	0.0	0.0	0.0	0.0	0.0	4.2	T	0.0	T	0.0	0.0	0.0	4.2
1991-92	0.0	0.0	0.0	T	2.1	1.0	5.0	0.0	T	0.0	T	T	8.1
1992-93	0.0	0.0	T		T	3.3	0.4	1.8	T	T		0.0	
1993-94	0.0	0.0	0.0	0.1	0.0	T	0.5	T	6.0	0.0	0.0		
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	4.9	T	4.5	T	T	T	9.4
1995-96	0.0	0.0		0.0	0.5	4.1	1.0	0.3	T	0.0	T		
1996-97					T		6.5		T	T	0.0	T	
1997-98	T	T	0.0	0.0	0.1	2.0	T	T	T	0.0	T	T	2.1
1998-99	0.0	0.0	0.0	T	0.0	1.0	T	0.0	1.3	T	T	0.0	2.3
1999-00	0.0	0.0	T	0.0	0.0	T	9.1	0.0	T	T	0.0	0.0	9.1
2000-01	0.0	0.0	0.0	T	T	8.2	3.4	T	T	0.0	T	0.0	11.6
2001-02	0.0	0.0	T	T	3.2	1.5	T	2.9	1.3	0.0	0.0	0.0	8.9
2002-03	0.0	0.0	0.0	0.0	0.0	2.0	T	5.0	T	0.0	T	0.0	7.0
2003-04	0.0	0.0	0.0	0.0	0.0	1.9	0.3	0.3	0.0	0.0	T	0.0	2.5
2004-05	0.0	0.0	0.0	0.0	T	T	2.8	0.1	0.0	0.0	0.0	0.0	2.9
2005-06	0.0	0.0	0.0	0.0	0.0	2.2	0.5	0.2	1.6	0.0	0.0	0.0	4.5
2006-07	0.0	0.0	0.0	0.0	4.1	T	2.9	2.2	0.0	T	0.0	0.0	9.2
2007-08	0.0	0.0	0.0	T	T	2.1	0.6	0.0	0.2	0.0	T	0.0	2.9
2008-09	0.0	0.0	0.0	0.0	0.0	T	1.4	T	2.5	0.0	T	0.0	3.9
2009-10	0.0	0.0	0.0	0.0	0.0	14.0	5.2	1.5	2.5	T	T	0.0	23.2
2010-11	0.0	0.0	0.0	0.0	T	T	0.7	18.9	0.0	0.0	T	0.0	19.6
2011-	T	0.0	0.0	T	0.0	T							
POR= 63 YRS	T	T	T	T	0.5	2.0	2.8	2.3	1.3	T	T	T	8.9

WBAN : 13967

**REFERENCE NOTES :**

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD. 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.</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 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 HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</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 the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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# 2011 OKLAHOMA CITY OKLAHOMA (KOKC)

Oklahoma City is located along the North Canadian River, a frequently nearly-dry stream, at the geographic center of the state. It is not quite 1,000 miles south of the Canadian Border and a little less than 500 miles north of the Gulf of Mexico. The surrounding country is gently rolling with the nearest hills or low mountains, the Arbuckles, 80 miles south. The elevation ranges around 1,250 feet above sea level.

Although some influence is exerted at times by warm, moist air currents from the Gulf of Mexico, the climate of Oklahoma City falls mainly under continental controls characteristic of the Great Plains Region. The continental effect produces pronounced daily and seasonal temperature changes and considerable variation in seasonal and annual precipitation. Summers are long and usually hot. Winters are comparatively mild and short.

During the year, temperatures of 100 degrees or more occur on an average of 10 days, but have occurred on as many as 50 days or more. While summers are usually hot, the discomforting effect of extreme heat is considerably mitigated by low humidity and the prevalence of a moderate southerly breeze. Approximately one winter in three has temperatures of zero or lower.

The length of the growing season varies from 180 to 251 days. Average date of last freeze is early April and average date of first freeze is early November. Freezes have occurred in early October.

During an average year, skies are clear approximately 40 percent of the time, partly cloudy 25 percent, and cloudy 35 percent of the time. The city is almost smoke-free as a result of favorable atmospheric conditions and the almost exclusive use of natural gas for heating. Flying conditions are generally very good with flight by visual flight rules possible about 96 percent of the time.

Summer rainfall comes mainly from showers and thunderstorms. Winter precipitation is generally associated with frontal passages. Measurable precipitation has occurred on as many as 122 days and as few as 55 days during the year. The seasonal distribution of precipitation is normally 12 percent in winter, 34 percent in spring, 30 percent in summer, and 24 percent in fall. The period with the least number of days with precipitation is November through January, and the month with the most rainy days is May. Thunderstorms occur most often in late spring and early summer. Large hail and/or destructive winds on occasion accompany these thunderstorms.

Snowfall averages less than 10 inches per year and seldom remains on the ground very long. Occasional brief periods of freezing rain and sleet storms occur.

Heavy fogs are infrequent. Prevailing winds are southerly except in January and February when northerly breezes predominate.

# Station History

OKLAHOMA CITY, OK

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
OKLAHOMA CITY WILL ROGERS WORLD AP	1992-10-01	1995-08-01	35° 23'	-97° 36'	1285		ASOS, COOP
OKLAHOMA CITY WILL ROGERS WORLD AP	1995-08-01	2003-08-01	35° 23'	-97° 36'	1304		ASOS, COOP
OKLAHOMA CITY WILL ROGERS WORLD AP	2006-05-16	Present	35° 23'	-97° 36'	1285		ASOS, COOP
OKLAHOMA CITY WILL ROGERS FIELD	1932-04-02	1946-08-01	35° 24'	-97° 36'	1280		AIRWAYS
OKLAHOMA CITY WILL ROGERS WORLD AP	1965-11-29	1969-01-01	35° 24'	-97° 36'	1285		AIRWAYS, COOP
OKLAHOMA CITY WILL ROGERS WORLD AP	1969-01-01	1992-10-01	35° 24'	-97° 36'	1285		COOP, WXSVC
OKLAHOMA CITY WILL ROGERS FIELD	1946-08-01	1965-10-21	35° 24'	-97° 36'	1280		AIRWAYS, COOP
OKLAHOMA CITY WILL ROGERS WORLD AP	1965-10-21	1965-11-29	35° 24'	-97° 36'	1280		AIRWAYS, COOP
OKLAHOMA CITY WILL ROGERS WORLD AP	2003-08-01	2006-05-16	35° 23'	-97° 36'	1285		ASOS, COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1995-08-01	2006-05-16	HOURLY	2400	AHTB	RCRD;HTD	
MAX/MINTEM	1974-12-01	1992-10-01	ONCE DAILY	2400	PALMER		
PRECIP	1992-10-01	1995-08-01	DAILY	2400	AHTB	RCRD;HTD	
TEMP	1992-10-01	1995-08-01	DAILY	2400			
PRECIP	1992-10-01	1995-08-01	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2006-05-16	Present	DAILY	2400	PCPNX		
TEMP	1932-04-02	1974-12-01	DAILY	2400	HYGR		
PRECIP	1932-04-02	1974-12-01	DAILY		UNIV	RCRD	
TEMP	1995-08-01	2006-05-16	DAILY	2400	ATEMP		
TEMP	1974-12-01	1992-10-01	DAILY	2400	HYGR		
PRECIP	1974-12-01	1992-10-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1974-12-01	1992-10-01	DAILY	2400	UNIV	RCRD	
MAX/MINTEM	1992-10-01	1995-08-01	ONCE DAILY	2400	PALMER		
MAX/MINTEM	1932-04-02	1974-12-01	ONCE DAILY	2400	PALMER		
PRECIP	1995-08-01	2006-05-16	DAILY	2400	AHTB	RCRD;HTD	
PRECIP	2006-05-16	Present	HOURLY	2400	AWPAG	RCRD;HTD	
TEMP	2006-05-16	Present	DAILY	2400	ATEMP		

\* 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.info@noaa.gov](mailto:ncdc.info@noaa.gov)

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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