

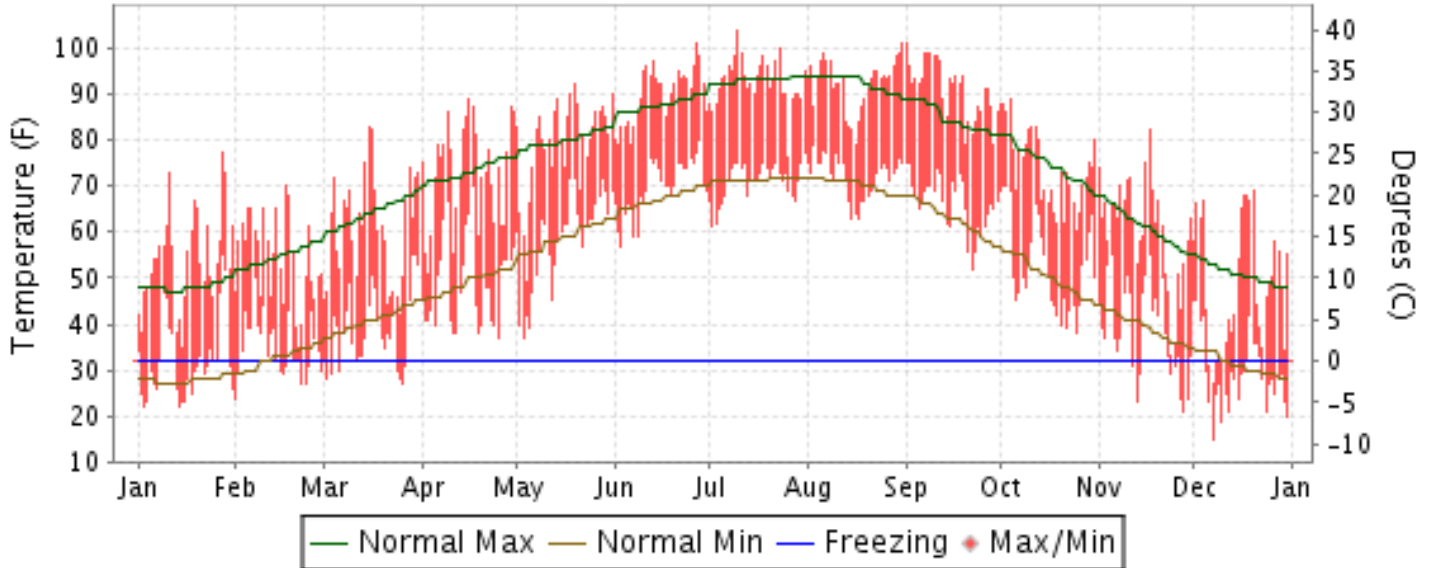


# 2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

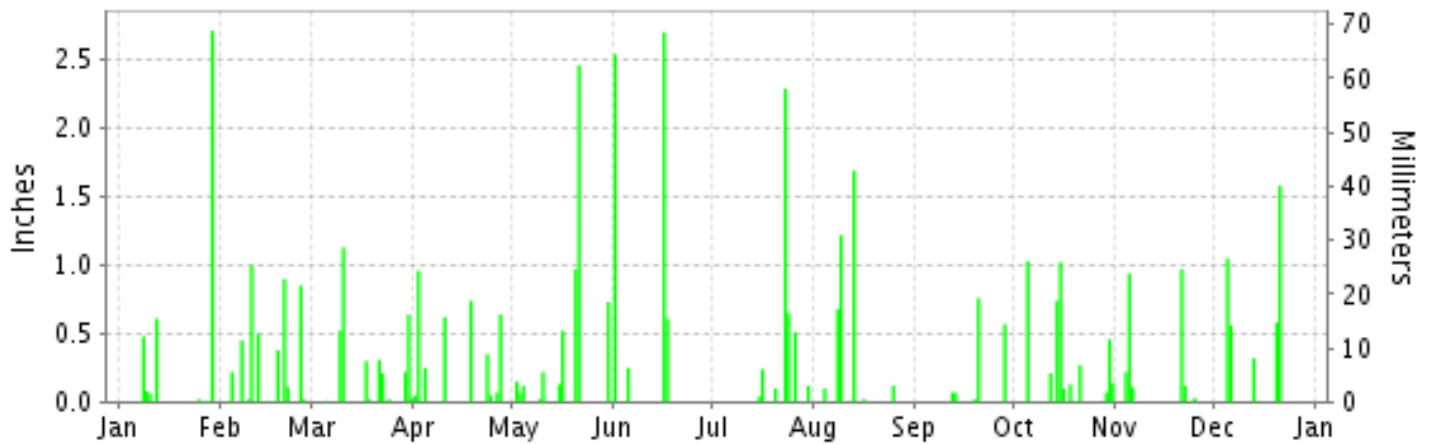
ISSN 0198-0661

## FORT SMITH, ARKANSAS (KFSM)

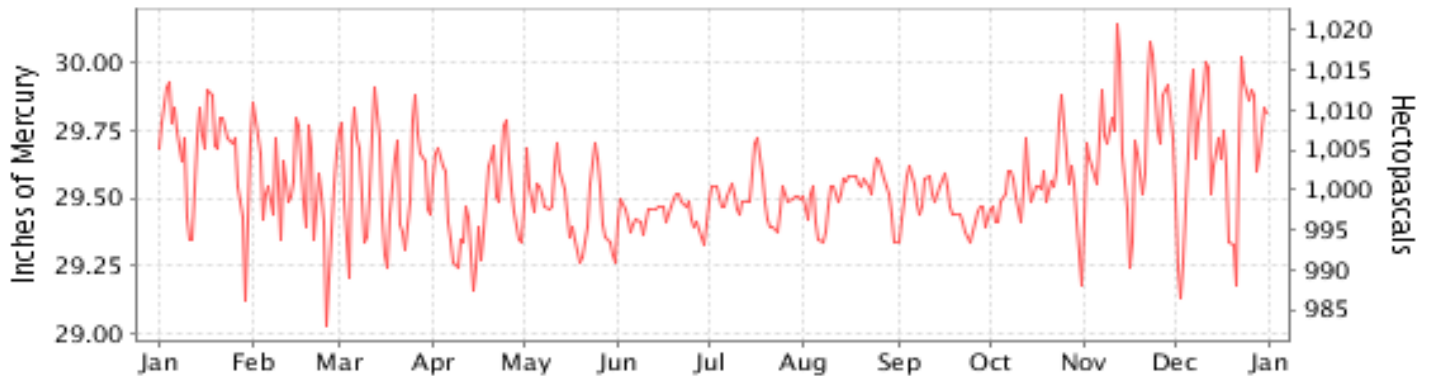
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2013

## FORT SMITH (KFSM)

LATITUDE: 35° 19'N      LONGITUDE: 94° 21'W      ELEVATION (FT): GRND: 449 BARO: 480      TIME ZONE: CENTRAL (UTC -6)      WBAN: 13964

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	54.2	54.2	60.7	72.9	79.4	89.9	92.7	92.2	91.0	74.0	60.7	48.8	72.6	
	HIGHEST DAILY MAXIMUM	77	70	83	89	92	101	104	101	101	89	82	69	104	
	DATE OF OCCURRENCE	28	17	15	16	19	27	10	31	01	04	17	20	JUL 10	
	MEAN DAILY MINIMUM	32.3	35.0	38.7	48.9	58.5	69.8	71.0	72.2	66.3	52.6	38.8	29.3	51.1	
	LOWEST DAILY MINIMUM	22	24	27	37	37	57	61	63	52	38	21	15	15	
	DATE OF OCCURRENCE	14+	01	26	25	03	03	02	17+	22	25	28	07	DEC 07	
	AVERAGE DRY BULB	43.2	44.6	49.7	60.9	69.0	79.9	81.9	82.2	78.7	63.3	49.7	39.0	61.8	
	MEAN WET BULB	38.4	38.7	43.0	52.6	62.2	70.8	71.7	73.5	68.1	57.3	43.5	35.2	54.6	
	MEAN DEW POINT	32.0	31.6	34.4	45.9	57.5	66.3	66.8	69.9	62.7	53.1	36.1	31.0	48.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	3	18	25	23	19	0	0	0	0	88
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	4	4	4
MINIMUM <= 32°	21	13	9	0	0	0	0	0	0	0	8	23	74	74	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	667	564	469	184	70	0	0	0	0	135	455	797	3341	
	COOLING DEGREE DAYS	1	0	2	70	201	453	534	542	419	88	4	0	2314	
RH	MEAN (PERCENT)	68	66	60	63	69	66	64	71	64	74	64	77	67	
	HOUR 00 LST	75	72	66	71	78	75	75	83	77	85	72	83	76	
	HOUR 06 LST	80	76	75	79	85	84	85	90	86	89	78	85	83	
	HOUR 12 LST	58	57	50	53	57	54	52	56	47	57	49	72	55	
	HOUR 18 LST	59	56	48	49	58	51	47	57	48	65	57	72	56	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	3	1	0	2	0	0	0	0	5	2	6	21	
	THUNDERSTORMS	1	2	3	4	4	4	2	3	1	3	0	1	28	
PR	MEAN STATION PRESS. (IN.)	29.67	29.54	29.57	29.47	29.47	29.44	29.51	29.51	29.47	29.54	29.72	29.67	29.55	
	MEAN SEA-LEVEL PRESS. (IN.)	30.18	30.05	30.07	29.97	29.96	29.92	29.99	30.00	29.96	30.04	30.23	30.18	30.05	
WINDS	RESULTANT SPEED (MPH)	1.2	1.4	1.6	0.8	0.6	0.1	2.1	3.0	2.5	0.9	1.7	1.6	1.0	
	RES. DIR. (TENS OF DEGS.)	03	35	36	15	17	23	08	08	08	07	03	34	06	
	MEAN SPEED (MPH)	6.5	8.2	8.0	7.7	6.6	6.1	5.3	4.5	5.2	5.3	6.2	5.5	6.3	
	PREVAIL.DIR.(TENS OF DEGS.)	08	08	08	08	08	07	07	07	07	07	08	06	07	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	32	33	36	38	25	29	31	28	35	32	26	38	
	DIR. (TENS OF DEGS.)	26	20	28	27	24	29	08	25	36	27	26	26	24	
	DATE OF OCCURRENCE	29	18	24	18	30	01	23	08	01	31	17	21	MAY 30	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	41	43	40	47	49	38	37	36	36	44	55	32	55	
DIR. (TENS OF DEGS.)	27	23	27	27	24	24	34	25	36	28	33	27	33		
DATE OF OCCURRENCE	29	18	24	18	20	07	23	08	01	31	12	21	NOV 12		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.97	4.46	3.42	3.73	5.40	6.10	3.95	3.84	1.50	4.18	2.40	4.10	47.05	
	GREATEST 24-HOUR (IN.)	2.71	1.02	1.65	1.01	3.40	2.77	2.94	1.69	0.78	1.41	0.97	2.15	3.40	
	DATE OF OCCURRENCE	29	09-10	09-10	01-02	20-21	16-17	23-24	13	19-20	14-15	21	20-21	MAY 20-21	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	7	11	12	9	11	4	7	7	6	11	7	6	98		
PRECIPITATION 0.10	3	8	7	6	8	4	6	5	2	9	5	5	68		
PRECIPITATION 1.00	1	1	1	0	1	2	1	2	0	2	0	2	13		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)												5.0		
	GREATEST 24-HOUR (IN.)												4.9		
	DATE OF OCCURRENCE												06		
	MAXIMUM SNOW DEPTH (IN.)												5		
DATE OF OCCURRENCE												07			
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0												1			

# NORMALS, MEANS, AND EXTREMES FORT SMITH (KFSM)

LATITUDE:  
35° 19'N

LONGITUDE:  
94° 21'W

ELEVATION (FT):  
GRND: 449 BARO: 480

TIME ZONE:  
CENTRAL (UTC -6)

WBAN: 13964

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	49.9	55.4	64.7	73.7	80.5	88.1	93.0	93.4	85.4	74.8	62.8	51.5	72.8
	MEAN DAILY MAXIMUM	113	49.3	51.9	63.3	72.1	80.1	87.1	93.2	92.9	84.5	75.1	61.3	51.5	71.9
	HIGHEST DAILY MAXIMUM	68	81	86	94	96	98	106	111	115	109	96	86	82	115
	YEAR OF OCCURRENCE		1952	1962	1974	2006	1951	2012	1954	2011	2000	1963	2006	1951	AUG 2011
	MEAN OF EXTREME MAXS.	113	71.0	75.0	82.9	87.9	91.3	96.2	101.3	101.3	96.5	89.9	79.8	72.5	87.1
	NORMAL DAILY MINIMUM	30	29.0	33.1	41.1	49.5	59.2	67.5	71.6	70.8	62.3	50.7	40.3	31.2	50.5
	MEAN DAILY MINIMUM	113	29.3	31.6	41.0	49.5	59.1	66.6	71.4	70.5	62.3	51.1	39.5	31.9	50.3
	LOWEST DAILY MINIMUM	68	-10	-9	7	22	35	47	50	51	33	22	8	-5	-10
	YEAR OF OCCURRENCE		1977	1951	1948	1975	1954	1972	1972	1986	1967	1952	1976	1989	JAN 1977
	MEAN OF EXTREME MINS.	113	11.2	15.9	23.0	32.7	43.9	55.7	62.2	60.1	46.1	33.1	22.3	15.0	35.1
	NORMAL DRY BULB	30	39.4	44.2	52.9	61.6	69.9	77.8	82.3	82.1	73.9	62.8	51.6	41.3	61.7
	MEAN DRY BULB	113	39.3	41.8	52.2	60.8	69.6	76.9	82.3	81.7	73.4	63.1	50.4	41.7	61.1
	MEAN WET BULB	30	33.5	37.6	44.6	53.0	62.4	69.5	72.2	71.4	64.6	54.6	44.2	35.9	53.6
	MEAN DEW POINT	30	31.5	34.5	41.6	50.3	60.8	68.4	70.8	69.9	62.8	52.5	42.1	33.7	51.6
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.5	2.2	11.9	22.8	21.9	9.0	0.6	0.0	0.0	68.9
	MAXIMUM <= 32	30	1.9	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.3
	MINIMUM <= 32	30	20.5	12.7	4.8	0.6	0.0	0.0	0.0	0.0	0.0	0.4	6.4	17.4	62.8
MINIMUM <= 0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	
H/C	NORMAL HEATING DEG. DAYS	30	792	582	386	156	27	1	0	0	17	137	411	734	3243
	NORMAL COOLING DEG. DAYS	30	0	1	11	54	178	385	536	530	283	68	8	1	2055
RH	NORMAL (PERCENT)	30	73	69	65	66	73	74	70	70	72	72	73	74	71
	HOURLY 00 LST	30	78	76	73	76	84	85	82	81	84	83	81	80	80
	HOURLY 06 LST	30	83	82	80	84	89	90	90	90	89	89	85	84	86
	HOURLY 12 LST	30	63	59	54	51	59	59	55	54	56	54	59	63	57
	HOURLY 18 LST	30	63	56	51	49	58	58	54	53	58	58	63	65	57
S	PERCENT POSSIBLE SUNSHINE	51	49	55	56	61	62	69	73	72	66	65	55	50	61
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	50	2.7	1.4	1.1	0.8	1.1	0.9	0.7	0.8	1.3	2.3	2.1	2.5	17.7
	THUNDERSTORMS	66	1.3	2.0	4.7	6.5	7.9	7.5	6.8	6.1	4.2	3.3	2.6	1.6	54.5
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	2	1.5	3.0	12.0		8.0	11.0	3.0	12.0	7.0	14.0		5.0	
	PARTLY CLOUDY	1	1.0	4.0	1.0		2.0	5.0	1.0	1.0	4.0	1.0		3.0	
	CLOUDY	1	4.0	2.0	9.0		7.0	7.0		2.0	7.0	4.0		10.0	
PR	MEAN STATION PRESSURE(IN)	30	29.65	29.61	29.53	29.47	29.45	29.46	29.49	29.50	29.52	29.57	29.60	29.64	29.54
	MEAN SEA-LEVEL PRES. (IN)	30	30.16	30.11	30.03	29.96	29.94	29.94	29.97	29.98	30.01	30.06	30.10	30.15	30.03
WINDS	MEAN SPEED (MPH)	30	7.8	8.2	8.7	8.3	7.1	6.2	5.7	5.8	6.2	6.5	7.4	7.6	7.1
	PREVAIL.DIR.(TENS OF DEGS)	34	07	08	08	08	09	08	07	07	07	07	07	07	07
	MAXIMUM 2-MINUTE: SPEED (MPH)	19	43	40	51	45	49	57	53	54	45	51	41	44	57
	DIR. (TENS OF DEGS)		20	28	02	26	25	28	07	31	31	29	28	22	28
	YEAR OF OCCURRENCE		2010	2011	2004	1995	2011	1996	2005	2003	2000	2001	2006	1996	JUN 1996
	MAXIMUM 3-SECOND SPEED (MPH)	19	56	49	62	53	64	70	79	67	69	62	66	63	79
	DIR. (TENS OF DEGS)		21	29	26	27	26	02	08	31	04	30	29	30	08
YEAR OF OCCURRENCE		2010	2011	2009	1995	2011	2008	2005	2003	2010	2001	1998	2012	JUL 2005	
PRECIPITATION	NORMAL (IN)	30	2.81	2.76	3.85	4.30	5.47	4.28	3.30	2.59	4.05	4.32	4.44	3.29	45.46
	MAXIMUM MONTHLY (IN)	68	11.33	7.94	10.53	10.32	13.45	10.40	10.41	7.42	8.96	12.05	14.01	10.09	14.01
	YEAR OF OCCURRENCE		1949	1951	2008	1957	1990	1958	1960	2008	1974	1951	1946	1971	NOV 1946
	MINIMUM MONTHLY (IN)	68	0.20	0.14	0.50	0.56	0.79	0.38	0.08	0.20	0.06	T	0.29	0.27	0.06
	YEAR OF OCCURRENCE		1986	1947	2007	1989	1970	1954	2001	2000	1956	1964	2012	1981	SEP 1956
	MAXIMUM IN 24 HOURS (IN)	68	5.42	4.45	4.88	5.12	5.56	4.44	7.13	5.09	5.20	6.48	6.91	5.78	7.13
	YEAR OF OCCURRENCE		1949	1985	2008	1964	1982	2010	1960	1971	2008	2007	1973	1971	JUL 1960
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	7.5	7.8	9.7	9.1	10.7	9.3	6.5	6.3	7.7	8.4	7.5	7.7	98.2
PRECIPITATION >= 1.00	30	0.7	0.8	0.8	1.3	1.6	1.3	0.9	0.6	1.4	1.4	1.5	0.9	13.2	
SNOWFALL	NORMAL (IN)	30	2.4	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.9
	MAXIMUM MONTHLY (IN)	52	13.0	11.5	5.3	T	T	T	T	0.0	0.0	T	4.7	7.2	13.0
	YEAR OF OCCURRENCE		1977	1960	1968	1994	1992	1996				1993	1976	1975	JAN 1977
	MAXIMUM IN 24 HOURS (IN)	52	11.0	5.8	5.3	T	T	T	0.0	0.0	0.0	T	4.7	7.1	11.0
	YEAR OF OCCURRENCE		1988	1978	1968	1994	1992	1996				1993	1976	1975	JAN 1988
	MAXIMUM SNOW DEPTH (IN)	46	11	6	3	0	0	0	0	0	0	0	4	5	11
	YEAR OF OCCURRENCE		1988	1960	1989								1976	2013	JAN 1988
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	

**PRECIPITATION (inches) 2013 FORT SMITH (KFSM)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	0.80	2.60	4.13	2.16	4.70	1.87	3.33	2.00	6.18	11.80	7.33	6.16	53.06
1985	1.65	5.71	7.45	4.44	2.78	2.77	2.03	3.57	3.60	4.88	10.73	0.40	50.01
1986	0.20	3.55	1.80	6.97	5.33	4.36	0.20	5.63	1.84	4.20	2.35	1.21	37.64
1987	2.50	3.45	3.90	1.13	6.46	2.79	2.96	2.83	1.71	2.19	4.70	8.12	42.74
1988	1.62	2.09	5.03	5.57	1.26	1.75	2.32	1.05	5.72	1.46	5.51	1.65	35.03
1989	4.43	5.53	5.99	0.56	10.21	5.51	7.09	2.45	3.47	0.83	0.60	0.74	47.41
1990	5.13	5.95	4.61	8.48	13.45	0.63	2.37	3.60	4.87	3.52	3.77	4.84	61.22
1991	2.21	0.82	3.86	7.43	3.43	1.95	2.65	1.80	4.83	8.84	3.99	4.43	46.24
1992	1.43	1.48	2.26	3.90	5.60	8.33	4.51	2.34	6.91	0.89	5.56	5.46	48.67
1993	4.05	3.10	1.90	7.33	5.31	5.03	0.18	2.57	6.17	4.79	4.26	2.87	47.56
1994	3.46	3.95	2.93	5.27	6.52	3.64	10.38	2.91	0.26	3.23	13.92	3.74	60.21
1995	3.51	0.78	2.20	5.55	6.41	4.44	4.20	0.50	4.00	1.87	2.07	4.21	39.74
1996	3.05	1.35	3.58	5.93	4.41	5.23	7.67	4.38	6.53	3.83	9.18	1.87	57.01
1997	0.56	6.50	4.18	3.62	1.62	6.64	1.06	2.16	1.36	6.31	2.38	4.49	40.88
1998	7.76	3.02	4.99	1.01	2.62	2.46	2.63	1.73	5.46	5.79	3.43	3.04	43.94
1999	2.12	1.17	4.78	5.33	8.79	7.75	0.08	0.20	4.03	3.42	1.45	5.01	44.13
2000	1.88	1.12	2.99	2.42	3.55	8.80	1.46	T	3.42	3.37	6.58	3.26	38.85
2001	2.39	7.11	1.23	2.15	8.79	2.31	T	1.88	3.81	3.21	1.98	5.72	40.58
2002	3.79	1.22	8.87	5.94	3.94	3.04	2.53	4.74	1.06	2.05	1.21	5.22	43.61
2003	0.37	3.35	1.98	2.71	3.33	4.18	0.49	2.70	3.24	1.42	4.63	1.83	30.23
2004	2.82	1.75	4.74	6.38	2.27	7.79	7.28	1.27	0.27	6.13	7.88	1.48	50.06
2005	4.91	1.63	2.30	3.13	2.84	2.93	2.20	1.82	6.51	1.23	0.83	0.39	30.72
2006	3.09	0.63	5.31	5.33	6.39	3.57	1.55	2.87	4.69	5.44	8.77	2.62	50.26
2007	6.13	2.52	0.50	4.06	4.49	3.56	5.26	0.98	5.75	8.54	0.56	3.59	45.94
2008	0.59	3.59	10.53	8.05	5.08	7.59	1.29	7.42	8.11	3.65	2.02	3.08	61.00
2009	3.49	1.83	3.54	4.88	8.91	2.09	4.66	5.10	7.23	10.26	1.59	2.87	56.45
2010	2.92	1.70	2.62	2.25	3.58	5.36	2.47	2.27	5.79	1.70	2.47	2.14	35.27
2011	0.51	3.18	0.80	9.55	11.91	0.44	0.22	4.13	1.47	3.72	7.19	3.44	46.56
2012	4.42	2.18	8.06	2.99	1.15	1.57	3.91	2.18	1.79	2.65	0.29	2.75	33.94
2013	3.97	4.46	3.42	3.73	5.40	6.10	3.95	3.84	1.50	4.18	2.40	4.10	47.05
POR= 113 YRS	2.53	2.65	3.44	4.15	5.20	3.86	2.96	3.10	3.47	3.64	3.39	2.92	41.31

WBAN : 13964

**AVERAGE TEMPERATURE (°F) 2013 FORT SMITH (KFSM)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	33.3	45.0	48.7	58.1	67.3	78.5	80.6	80.9	71.4	64.4	49.7	48.4	60.5
1985	31.6	37.1	56.7	62.8	69.3	76.4	82.2	81.1	73.8	63.7	53.0	35.2	60.2
1986	41.2	46.0	55.2	63.5	70.2	79.3	84.7	78.3	76.8	62.8	48.0	41.5	62.3
1987	39.6	46.8	52.1	61.6	74.1	78.0	81.0	83.5	72.8	59.7	52.2	43.0	62.0
1988	35.4	42.2	51.6	61.4	70.7	79.8	83.5	84.2	76.1	60.0	51.2	42.4	61.5
1989	42.6	36.2	53.0	62.9	69.3	75.9	79.6	80.3	70.3	63.9	52.5	33.1	60.0
1990	45.1	48.2	54.7	60.4	67.6	80.7	81.9	82.0	77.2	60.8	55.0	39.1	62.7
1991	36.3	47.7	54.8	63.5	73.4	79.0	82.1	80.0	72.6	63.7	46.9	45.4	62.1
1992	41.4	50.1	53.7	61.9	67.4	75.6	80.8	75.9	71.4	63.1	48.1	42.3	61.0
1993	39.3	40.4	49.6	57.8	68.0	77.7	86.7	85.2	72.6	59.3	46.6	43.7	60.6
1994	37.0	43.0	54.5	63.7	68.8	81.9	80.5	78.0	71.7	63.5	54.3	44.1	61.8
1995	40.2	45.0	54.0	59.6	68.2	75.3	81.8	84.4	70.5	61.9	48.4	40.1	60.8
1996	36.8	44.5	45.8	59.8	72.8	77.6	79.8	79.0	70.3	62.1	46.3	44.1	59.9
1997	38.2	46.1	54.8	56.9	67.2	75.5	82.7	79.0	75.0	62.5	48.2	40.5	60.6
1998	44.8	46.6	49.6	60.2	73.5	80.2	86.5	84.4	80.5	65.2	54.1	43.2	64.1
1999	42.3	50.6	50.6	62.9	68.8	77.3	82.6	85.0	72.6	63.3	57.4	44.8	63.2
2000	42.6	50.2	55.3	60.0	71.8	74.8	81.8	87.0	76.3	65.9	45.4	31.5	61.9
2001	36.8	44.7	49.0	66.7	70.6	77.7	85.8	84.3	72.3	61.2	56.2	44.5	62.5
2002	41.1	42.1	49.0	64.3	68.4	78.1	82.4	82.0	76.2	60.6	48.6	43.3	61.3
2003	37.5	39.8	52.4	63.1	70.8	74.4	82.6	83.3	71.4	65.1	53.9	43.4	61.5
2004	40.8	41.8	56.8	63.0	71.8	76.3	79.1	77.3	75.3	67.0	54.1	42.2	62.1
2005	43.7	48.8	51.4	62.1	69.2	79.0	82.1	84.6	79.2	64.0	53.8	40.3	63.2
2006	47.7	43.1	55.0	67.4	71.9	77.4	84.2	85.1	71.3	61.0	54.5	47.4	63.8
2007	39.5	42.0	60.6	58.0	71.2	77.7	80.2	85.0	75.9	66.5	53.3	42.4	62.7
2008	39.2	43.8	53.4	60.2	70.0	78.3	83.3	80.5	72.7	62.3	50.1	40.7	61.2
2009	39.1	47.7	54.1	60.6	68.4	80.6	81.4	78.8	72.6	58.4	55.7	37.7	61.3
2010	36.9	38.0	51.5	64.5	72.2	83.6	84.4	87.4	76.0	63.8	54.0	41.2	62.8
2011	37.6	43.1	56.2	64.6	69.2	85.0	91.3	88.2	72.8	64.9	54.5	44.9	64.4
2012	45.8	47.7	63.6	67.5	75.8	82.6	88.1	83.8	77.3	62.0	53.1	46.2	66.1
2013	43.2	44.6	49.7	60.9	69.0	79.9	81.9	82.2	78.7	63.3	49.7	39.0	61.8
POR= 113 YRS	39.3	41.8	52.2	60.8	69.6	76.9	82.3	81.7	73.4	63.1	50.4	41.7	61.1

**HEATING DEGREE DAYS (base 65°F) 2013 FORT SMITH (KFSM)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0	0	53	99	461	514	1032	774	281	111	5	1	3331
1985-86	0	0	47	112	364	917	731	529	302	87	13	0	3102
1986-87	0	0	0	121	501	724	779	506	405	168	0	0	3204
1987-88	0	0	3	175	390	675	912	656	414	134	4	0	3363
1988-89	0	0	2	179	411	692	688	797	376	160	52	0	3357
1989-90	0	0	39	126	378	982	611	464	333	180	51	0	3164
1990-91	0	0	12	182	301	794	884	481	324	87	17	0	3082
1991-92	0	0	31	107	541	603	728	429	346	148	51	0	2984
1992-93	0	0	19	96	500	700	790	683	479	230	33	0	3530
1993-94	0	0	12	212	547	653	862	610	330	117	47	0	3390
1994-95	0	0	32	134	324	643	760	552	348	185	40	0	3018
1995-96	0	0	57	128	495	765	868	591	590	177	14	0	3685
1996-97	0	0	21	125	555	639	824	523	314	241	40	0	3282
1997-98	0	0	0	170	498	754	619	509	496	160	10	2	3218
1998-99	0	0	0	70	320	674	694	400	436	100	14	0	2708
1999-00	0	0	22	111	228	618	687	429	310	163	18	0	2586
2000-01	0	0	25	92	586	1029	872	561	489	80	16	0	3750
2001-02	0	0	16	154	267	631	734	636	490	105	33	0	3066
2002-03	0	0	0	196	495	665	846	699	380	118	5	0	3404
2003-04	0	0	10	78	355	665	749	668	264	104	31	0	2924
2004-05	0	0	0	47	323	701	653	449	413	114	52	0	2752
2005-06	0	0	1	138	345	758	531	607	325	54	14	0	2773
2006-07	0	0	17	185	317	541	783	635	183	245	6	0	2912
2007-08	0	0	0	92	358	690	801	610	362	173	28	0	3114
2008-09	0	0	0	127	445	747	797	478	349	186	32	0	3161
2009-10	0	0	2	216	276	838	864	750	415	71	18	0	3450
2010-11	0	0	4	74	331	731	842	608	302	84	72	0	3048
2011-12	0	0	8	103	327	617	589	492	137	46	0	0	2319
2012-13	0	0	0	160	352	580	667	564	469	184	70	0	3046
2013-	0	0	0	135	455	797							

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**COOLING DEGREE DAYS (base 65°F) 2013 FORT SMITH (KFSM)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	2	25	111	412	490	500	253	86	8	6	1893
1985	0	0	27	52	146	351	538	503	317	80	13	0	2027
1986	0	0	6	49	179	435	617	418	359	58	0	0	2121
1987	0	0	10	72	290	398	502	578	243	15	12	0	2120
1988	0	0	6	31	185	450	583	604	344	31	0	0	2234
1989	0	0	13	102	189	332	460	481	205	102	12	0	1896
1990	0	2	22	52	140	480	533	533	386	59	9	0	2216
1991	0	0	17	49	284	426	538	474	266	72	6	4	2136
1992	0	0	1	62	131	323	496	346	218	43	0	2	1622
1993	0	0	9	17	132	387	678	633	247	45	2	0	2150
1994	0	0	9	88	171	514	487	411	238	93	9	0	2020
1995	1	0	15	30	148	316	529	610	230	36	3	0	1918
1996	0	3	1	26	262	387	463	438	188	38	4	1	1811
1997	0	0	2	7	111	322	555	439	306	104	0	0	1846
1998	0	0	25	24	281	467	671	611	473	84	3	3	2642
1999	0	5	0	46	139	378	554	622	256	68	4	0	2072
2000	0	3	15	22	236	301	531	691	373	126	5	0	2303
2001	0	3	0	137	196	387	653	603	244	42	8	5	2278
2002	0	0	2	89	148	398	549	535	342	65	7	0	2135
2003	0	0	0	68	196	288	554	575	207	86	28	0	2002
2004	3	0	19	50	250	347	444	387	314	119	2	0	1935
2005	0	0	1	34	189	425	536	614	431	111	15	0	2356
2006	0	0	22	132	236	380	604	632	212	67	9	1	2295
2007	0	0	51	41	207	389	479	626	332	144	13	0	2282
2008	11	0	10	35	189	405	574	487	239	48	6	0	2004
2009	0	1	17	61	145	476	512	436	235	17	1	0	1901
2010	0	0	3	65	250	567	609	701	343	46	8	0	2592
2011	0	0	39	79	206	607	822	727	246	106	18	0	2850
2012	0	0	100	127	342	537	722	588	376	74	3	6	2875
2013	1	0	2	70	201	453	534	542	419	88	4	0	2314

**SNOWFALL (inches) 2013 FORT SMITH (KFSM)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	0.0	0.7	0.0	3.2	T	T	0.0	0.0	0.0	3.9
1981-82	0.0	0.0	0.0	0.0	0.0	T	3.6	6.7	3.0	0.0	0.0	0.0	13.3
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	T	1.0	0.0	0.0	0.0	0.0	1.0
1983-84	0.0	0.0	0.0	0.0	T	0.9	1.9	1.8	0.4	0.0	0.0	0.0	5.0
1984-85	0.0	0.0	0.0	0.0	0.0	3.1	8.1	5.0	0.0	0.0	0.0	0.0	16.2
1985-86	0.0	0.0	0.0	0.0	0.0	2.0	0.0	6.1	0.0	0.0	0.0	0.0	8.1
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.6	0.4	0.0	0.0	0.0	3.4
1987-88	0.0	0.0	0.0	0.0	0.0	0.5	12.3	T	3.0	0.0	0.0	0.0	15.8
1988-89	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.3	3.3	0.0	T	0.0	
1989-90	0.0	0.0	0.0	0.0	0.0	0.2	T	T	0.0	T	T	0.0	0.2
1990-91	0.0	0.0	0.0	0.0	0.0	5.3	0.0	T	T	T	0.0	0.0	5.3
1991-92	0.0	0.0	0.0	0.0	T	0.0	T	T	T	0.0	T	0.0	T
1992-93	0.0	0.0	0.0	0.0	T	T	T	T	T	T	0.0	0.0	T
1993-94	0.0	0.0	0.0	T	0.2	0.0	2.4	0.7	2.6	T	0.0	0.0	5.9
1994-95	0.0	0.0	0.0	0.0	0.0	T	4.7		0.6	0.0	0.0	0.0	
1995-96	0.0	0.0	0.0	0.0	T	T	0.5	T	T	0.0	0.0	T	0.5
1996-97	0.0	0.0	0.0	0.0	T	T		T	0.0	0.0	0.0	0.0	
1997-98	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0					
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-06													
2006-07													
2007-08													
2008-09													
2013-	0.0					5.0							
POR= 98 YRS	0.0	0.0	0.0	T	0.2	0.9	2.2	2.1	0.4	T	T	T	5.8

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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

## FORT SMITH

### ARKANSAS (KFSM)

The weather station at Fort Smith, Arkansas, was established on June 1, 1882 by the U. S. Army Signal Service. For the first 63 years, offices were located at several places within a few blocks of each other in downtown Fort Smith. Since 1945 the station has been at the Fort Smith Municipal Airport, about 5 miles southeast of its original location. Fragmentary weather records made by Army Surgeons exist as far back as 1821.

Fort Smith is located on the Arkansas River at its confluence with the Poteau River and at the point where it enters the state from Oklahoma. The river valley is broad and fairly flat, although elevations in the city of Fort Smith range from 390 feet at the river to about 700 feet. Within 20 miles to the north are the Boston Mountains with elevations to about 2,100 feet and about the same distance south are the Ouachita Mountains with a maximum elevation of about 2,600 feet. The general terrain in the area consists of low broken hills separated by creek and river bottom land.

The surrounding terrain has a definite influence on the weather of Fort Smith. Under conditions of light wind, the direction is prevailing northeast throughout the year. When there is a fairly strong inversion these winds may remain northeasterly even though a strong gradient is present. Although infrequent, dense fog will move in from the river to the east and persist longer than would be expected. In the summer this will result in uncomfortably high humidities and in the winter in cooler temperatures than reported at surrounding stations. Summertime temperatures in the mountains to the north are generally several degrees cooler than in the river valley.

Temperature extremes do occur. In summer there is an average of 10 days when the temperature rises to 100 degrees or higher. On the other hand, in about one year in five, the temperature does not reach 100 degrees. Wintertime temperatures rarely fall to zero or below.

Rainfall is well distributed throughout the growing season. January is the driest month, May the wettest. The difference is almost 3 inches, but rainfall is generally adequate for agricultural pursuits. Summer precipitation comes in the form of convective showers. Dry spells occur, but true droughts are infrequent.

Snowfall varies widely from season to season. Although snowfall averages a little over 6 inches, some years go by with no measurable amount being recorded. Ice storms are much more frequent, causing many problems with traffic movement.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 30 and the average last occurrence in the spring is April 3.

# Station History

FORT SMITH, AR

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
FORT SMITH MUNICIPL AP	1944-01-01	1944-12-31	35° 19'	-94° 22'	446		AIRWAYS
FORT SMITH MUNICIPL AP	1945-09-01	1946-08-01	35° 19'	-94° 22'	446		AIRWAYS
FORT SMITH MUNICIPL AP	1973-01-01	1981-12-31	35° 19'	-94° 22'	447		COOP, WXSVC
FORT SMITH MUNICIPL AP	1946-08-01	1973-01-01	35° 19'	-94° 22'	447		AIRWAYS, COOP
FORT SMITH MUNICIPL AP	1981-12-31	1982-01-01	35° 19'	-94° 22'	447		COOP
FORT SMITH MUNICIPL AP	1982-01-01	1994-07-01	35° 19'	-94° 22'	449		COOP
FORT SMITH REGIONAL AP	1994-07-01	1995-06-14	35° 19'	-94° 22'	449	.5 MI SE	ASOS, COOP
FORT SMITH REGIONAL AP	1995-08-01	2006-11-06	35° 19'	-94° 21'	449		ASOS, COOP
FORT SMITH REGIONAL AP	1995-06-14	1995-08-01	35° 19'	-94° 22'	449		ASOS, COOP
FORT SMITH REGIONAL AP	2006-11-06	2010-12-16	35° 19'	-94° 21'	449		AIRSAMPLE, ASOS, COOP
FORT SMITH REGIONAL AP	2010-12-16	Present	35° 19'	-94° 21'	449		AIRSAMPLE, ASOS, COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1994-07-01	2001-10-22	DAILY	2400	TB	RCRD	
PRECIP	2006-11-06	Present	DAILY	2400	PCPNX		
PRECIP	2001-10-22	2006-11-06	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	1944-01-01	1960-09-01	DAILY	2400	UNIV	RCRD	
PRECIP	1960-09-01	1991-04-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1960-09-01	1991-04-01	DAILY	2400	UNIV	RCRD	
TEMP	1960-09-01	1991-04-01	DAILY	2400			
PRECIP	1994-07-01	2001-10-22	HOURLY	2400	TB	RCRD	
TEMP	2001-10-22	2006-11-06	DAILY	2400	ATEMP		
TEMP	2006-11-06	Present	DAILY	2400	ATEMP		
TEMP	1994-07-01	2001-10-22	DAILY	2400	HYGR		
PRECIP	2006-11-06	Present	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	1991-04-01	1994-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1991-04-01	1994-07-01	HOURLY	2400	UNIV	RCRD	
TEMP	1944-01-01	1960-09-01	DAILY	2400			
TEMP	1991-04-01	1994-07-01	DAILY	2400	HYGR		
PRECIP	2001-10-22	2006-11-06	DAILY	2400	AHTB	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>

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

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : [ncdc.orders@noaa.gov](mailto:ncdc.orders@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)