

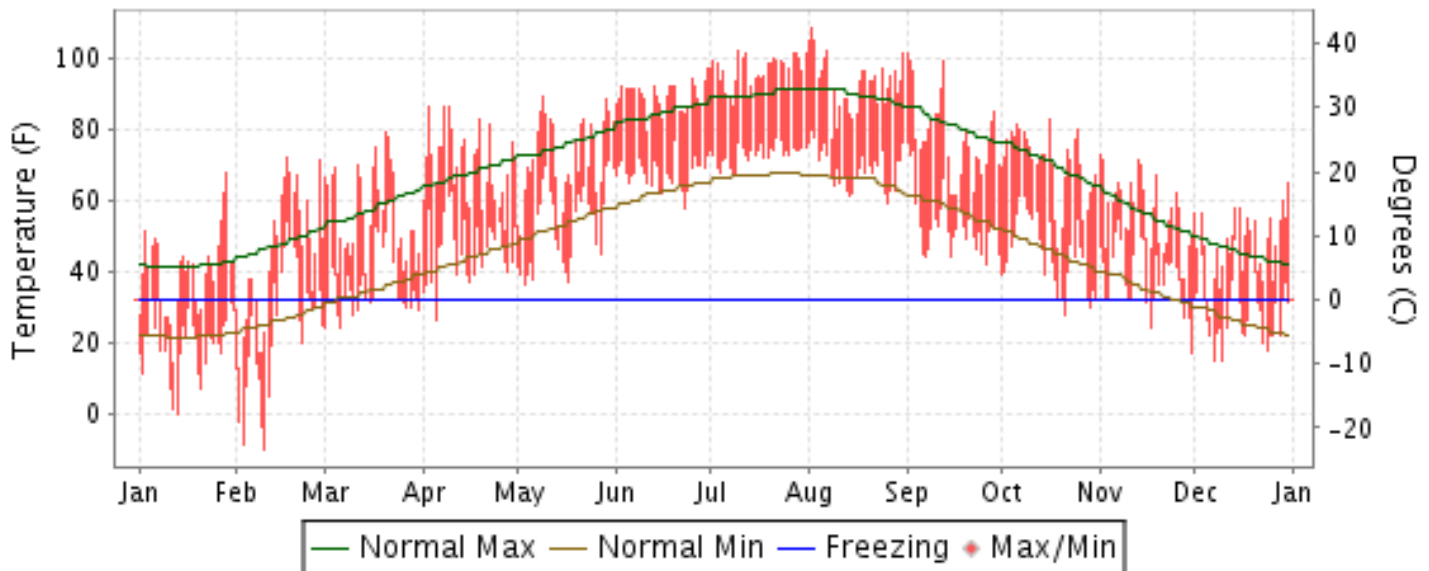


# 2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

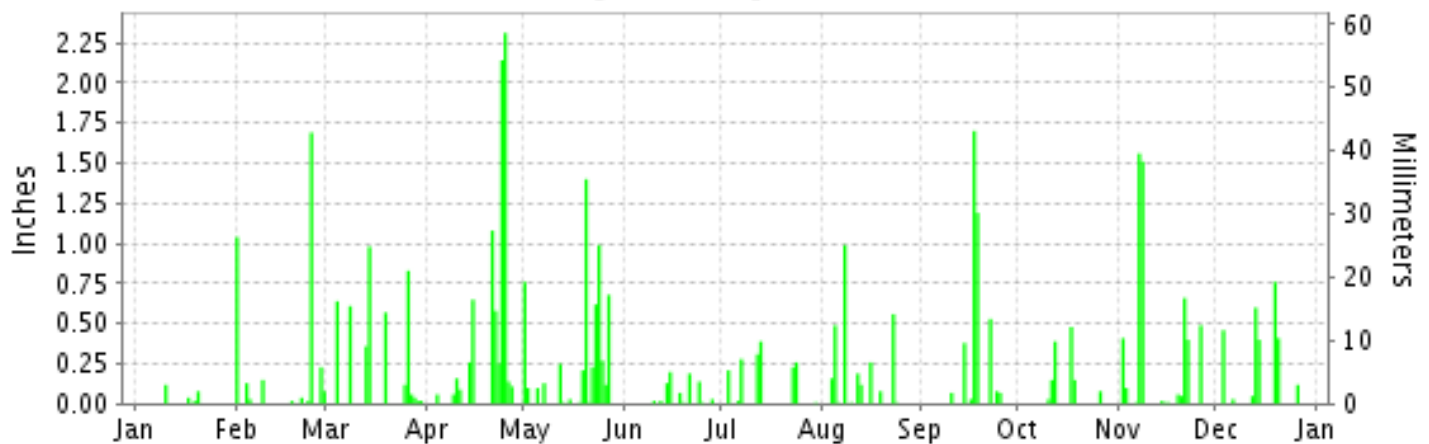
ISSN 0198-2923

## SPRINGFIELD, MISSOURI (KSGF)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

NATIONAL  
OCEANIC AND  
ATMOSPHERIC ADMINISTRATION

NATIONAL  
ENVIRONMENTAL SATELLITE, DATA  
AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2011

## SPRINGFIELD (KSGF)

LATITUDE: 37° 14'N      LONGITUDE: -93° 23'W      ELEVATION (FT): GRND: 1259 BARO: 1280      TIME ZONE: CENTRAL (UTC -6)      WBAN: 13995

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	39.9	44.7	56.4	70.1	72.5	89.0	96.2	92.7	77.6	70.1	56.5	47.6	67.8	
	HIGHEST DAILY MAXIMUM	68	72	79	86	89	97	102	108	101	83	73	65	108	
	DATE OF OCCURRENCE	29	17	20	09+	09	30	10	02	01	16	01	31	AUG 02	
	MEAN DAILY MINIMUM	19.7	23.8	36.7	46.3	53.1	67.7	73.0	69.0	53.4	44.9	39.0	28.9	46.3	
	LOWEST DAILY MINIMUM	0	-10	24	26	36	58	67	59	42	28	17	15	-10	
	DATE OF OCCURRENCE	13	10	06+	05	03	23	08	26	26	21	30	10+	FEB 10	
	AVERAGE DRY BULB	29.8	34.3	46.6	58.2	62.8	78.4	84.6	80.9	65.5	57.5	47.8	38.3	57.1	
	MEAN WET BULB	26.2	31.5	41.5	52.0	57.6	70.2	73.6	70.9	57.0	50.2	43.2	34.3	50.7	
	MEAN DEW POINT	20.1	26.3	36.3	46.3	54.0	66.1	68.8	66.5	50.8	43.5	37.8	29.2	45.5	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	15	28	21	5	0	0	0	0	69
	MAXIMUM <= 32°	10	8	0	0	0	0	0	0	0	0	0	2	20	
MINIMUM <= 32°	31	19	14	1	0	0	0	0	0	4	8	21	98		
MINIMUM <= 0°	1	4	0	0	0	0	0	0	0	0	0	0	5		
H/C	HEATING DEGREE DAYS	1081	853	568	231	177	0	0	0	93	251	513	820	4587	
	COOLING DEGREE DAYS	0	0	5	33	115	406	616	502	114	26	0	0	1817	
RH	MEAN (PERCENT)	71	73	72	68	76	68	64	66	65	64	72	74	69	
	HOUR 00 LST	77	77	77	76	84	78	75	78	78	73	77	78	77	
	HOUR 06 LST	80	82	83	81	88	84	85	86	85	81	80	82	83	
	HOUR 12 LST	63	68	62	57	63	55	49	50	48	48	64	64	58	
	HOUR 18 LST	66	65	65	57	67	55	46	52	50	56	69	71	60	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	1	0	0	2	0	1	0	2	0	1	1	8	
	THUNDERSTORMS	0	3	5	10	11	11	9	10	3	2	1	1	66	
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.)	28.70	28.69	28.67	28.46	28.55	28.56	28.61	28.58	28.68	28.70	28.66	28.79	28.64	
	MEAN SEA-LEVEL PRESS. (IN.)	30.09	30.07	30.04	29.80	29.88	29.87	29.92	29.89	30.01	30.05	30.03	30.18	29.99	
WINDS	RESULTANT SPEED (MPH)	1.8	2.0	2.8	5.3	5.6	7.1	5.4	4.1	1.2	3.0	4.1	2.6	3.2	
	RES. DIR. (TENS OF DEGS.)	25	18	13	20	17	18	16	14	04	18	19	20	18	
	MEAN SPEED (MPH)	8.7	11.1	11.7	12.5	11.5	10.5	8.2	8.7	7.7	8.8	12.6	9.0	10.1	
	PREVAIL.DIR.(TENS OF DEGS.)	28	15	15	17	16	16	16	16	16	15	16	16	16	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	37	37	41	40	40	44	37	29	33	33	31	44	
	DIR. (TENS OF DEGS.)	33	33	32	32	33	04	05	35	16	21	18	18	05	
	DATE OF OCCURRENCE	07	27	19	22	23	27	24	19	17	25	12	31	JUL 24	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	43	48	44	54	48	52	70	46	36	41	40	40	70	
DIR. (TENS OF DEGS.)	33	21	32	22	33	32	05	34	18	19	18	19	05		
DATE OF OCCURRENCE	07	17	19	23	23	19	24	19	18	25	19	31	JUL 24		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.26	3.43	4.25	7.89	5.92	0.82	1.71	2.88	4.05	1.28	5.29	2.83	40.61	
	GREATEST 24-HOUR (IN.)	0.12	1.69	1.33	3.53	1.41	0.33	0.70	0.99	2.01	0.63	1.57	1.05	3.53	
	DATE OF OCCURRENCE	10	24	13-14	24-25	20-21	14-15	12-13	08	17-18	17-18	06-07	19-20	APR 24-25	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	4	10	11	13	17	10	8	11	8	6	13	8	119	
PRECIPITATION 0.10	1	5	7	10	13	4	6	7	4	4	7	6	74		
PRECIPITATION 1.00	0	2	0	3	1	0	0	0	2	0	2	0	10		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	3.0	14.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.4	19.3	
	GREATEST 24-HOUR (IN.)	1.4	10.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.4	10.0	
	DATE OF OCCURRENCE	20	01	27								16+	06	FEB 01	
	MAXIMUM SNOW DEPTH (IN.)	1	11	1	0	0	0	0	0	0	0	0	T	11	
	DATE OF OCCURRENCE	22+	05+	28									06	FEB 05+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	2	3	0	0	0	0	0	0	0	0	0	0	5		

# NORMALS, MEANS, AND EXTREMES SPRINGFIELD (KSGF)

LATITUDE: 37° 14'N      LONGITUDE: -93° 23'W      ELEVATION (FT): GRND: 1259 BARO: 1280      TIME ZONE: CENTRAL (UTC -6)      WBAN: 13995

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	41.6	47.7	57.8	67.7	75.9	84.6	89.9	89.5	81.2	70.6	56.4	45.5	67.4
	MEAN DAILY MAXIMUM	115	42.3	44.7	56.1	65.7	74.7	82.1	88.0	87.6	79.0	69.3	55.0	44.7	65.8
	HIGHEST DAILY MAXIMUM	66	76	81	87	93	93	101	113	108	104	93	83	77	113
	YEAR OF OCCURRENCE		1950	1972	1974	1963	1972	1954	1954	2011	1947	1981	2006	1991	JUL 1954
	MEAN OF EXTREME MAXS.	115	65.6	69.8	78.2	84.0	87.3	92.9	97.3	97.9	92.6	85.4	74.8	67.2	82.8
	NORMAL DAILY MINIMUM	30	21.8	26.4	34.9	43.6	53.4	62.2	67.1	65.6	57.4	46.1	35.3	25.9	45.0
	MEAN DAILY MINIMUM	115	23.4	25.5	35.1	44.7	54.5	62.5	67.6	66.5	58.1	47.7	35.6	26.8	45.7
	LOWEST DAILY MINIMUM	66	-13	-17	-3	18	30	42	44	44	31	18	4	-16	-17
	YEAR OF OCCURRENCE		1985	1979	1948	1957	1970	1966	1972	1967	1984	1993	1959	1989	FEB 1979
	MEAN OF EXTREME MINS.	115	1.1	6.6	14.7	27.9	38.2	49.4	56.0	53.6	40.5	29.5	17.3	6.0	28.4
	NORMAL DRY BULB	30	31.7	37.1	46.3	55.6	64.7	73.4	78.5	77.6	69.3	58.4	45.9	35.7	56.2
	MEAN DRY BULB	115	32.9	35.1	45.6	55.2	64.6	72.4	77.8	77.1	68.6	58.5	45.3	35.8	55.7
	MEAN WET BULB	28	28.4	32.0	39.5	48.5	58.4	66.4	69.7	68.4	60.8	50.5	40.4	31.2	49.5
	MEAN DEW POINT	28	25.4	28.3	35.6	45.1	56.1	64.5	67.8	66.3	58.4	47.7	37.4	28.2	46.7
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	0.2	6.1	16.5	14.8	4.6	0.2	0.0	0.0	42.5
	MAXIMUM <= 32	30	7.5	4.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.6	18.0
MINIMUM <= 32	30	25.2	19.5	12.5	2.9	0.1	0.0	0.0	0.0	0.1	2.0	12.0	22.6	96.9	
MINIMUM <= 0	30	2.1	0.9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.9	
H/C	NORMAL HEATING DEG. DAYS	30	1034	790	581	300	100	8	1	1	62	248	578	899	4602
	NORMAL COOLING DEG. DAYS	30	0	0	3	20	83	258	415	379	179	28	1	0	1366
RH	NORMAL (PERCENT)	30	71	69	66	66	73	74	72	70	72	69	71	72	70
	HOURLY 00 LST	30	75	74	72	73	82	85	83	81	82	78	76	77	78
	HOURLY 06 LST	30	79	79	78	80	86	88	88	88	88	83	81	80	83
	HOURLY 12 LST	30	64	61	57	56	60	60	57	55	58	56	61	65	59
	HOURLY 18 LST	30	67	62	56	54	61	61	58	56	62	63	67	69	61
S	PERCENT POSSIBLE SUNSHINE	57	50	52	56	59	60	65	71	71	67	64	52	48	60
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISIB <= 1/4 MI)	48	3.1	2.3	1.6	1.0	1.5	1.4	1.0	1.0	1.5	1.7	2.0	2.9	21.0
	THUNDERSTORMS	64	0.8	1.3	3.7	6.1	7.9	8.7	7.4	7.0	4.9	3.2	2.2	1.1	54.3
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	1	3.0		10.0		7.0	11.0							
	PARTLY CLOUDY	1	2.0		4.0		3.0	4.0							
CLOUDY	1	7.0	1.0	5.0		8.0	8.0								
PR	MEAN STATION PRESSURE (IN)	28	28.75	28.72	28.67	28.60	28.62	28.64	28.67	28.69	28.71	28.72	28.71	28.75	28.69
	MEAN SEA-LEVEL PRES. (IN)	28	30.13	30.11	30.03	29.94	29.95	29.95	29.98	30.00	30.03	30.06	30.08	30.13	30.03
WINDS	MEAN SPEED (MPH)	28	9.9	10.2	11.0	10.6	9.0	8.2	7.4	7.2	7.9	8.9	10.0	10.0	9.2
	PREVAIL. DIR. (TENS OF DEGS)	40	17	17	17	17	17	17	17	17	17	17	17	17	17
	MAXIMUM 2-MINUTE: SPEED (MPH)	16	48	39	40	44	49	47	44	46	40	38	44	37	49
	DIR. (TENS OF DEGS)		28	15	19	23	20	36	05	01	01	27	20	13	20
	YEAR OF OCCURRENCE		2008	2001	2007	2009	2003	1996	2011	2008	1998	2007	2008	2001	MAY 2003
	MAXIMUM 3-SECOND SPEED (MPH)	16	66	53	55	55	66	61	70	55	51	52	58	47	70
	DIR. (TENS OF DEGS)		28	28	23	23	26	35	05	01	31	27	20	24	05
YEAR OF OCCURRENCE		2008	2001	2009	2009	2009	1996	2011	2008	2005	2007	2008	2008	JUL 2011	
PRECIPITATION	NORMAL (IN)	30	2.11	2.28	3.82	4.31	4.57	5.02	3.56	3.37	4.83	3.47	4.46	3.17	44.97
	MAXIMUM MONTHLY (IN)	66	6.77	6.41	9.40	10.58	13.41	13.41	18.75	8.60	17.46	9.97	12.24	8.84	18.75
	YEAR OF OCCURRENCE		1950	2008	2008	1994	1990	2008	1958	1982	1993	2009	1985	1982	JUL 1958
	MINIMUM MONTHLY (IN)	66	0.08	0.09	0.50	0.15	1.52	0.23	0.33	0.34	0.10	0.43	0.19	0.13	0.08
	YEAR OF OCCURRENCE		1961	2006	1956	1989	2005	1991	1953	2000	2004	1963	1989	1950	JAN 1961
	MAXIMUM IN 24 HOURS (IN)	66	3.91	3.73	4.59	3.85	5.81	4.83	6.85	3.70	6.27	5.67	6.29	4.50	6.85
	YEAR OF OCCURRENCE		1950	1966	2008	1970	1989	1975	1958	2007	1993	2009	1987	1982	JUL 1958
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	8.8	7.9	10.8	11.1	11.3	10.4	7.4	8.0	8.3	9.1	9.3	8.8	111.2
PRECIPITATION >= 1.00	30	0.4	0.5	1.1	1.1	0.9	1.4	1.1	0.9	1.6	1.1	1.3	1.0	12.4	
SNOWFALL	NORMAL (IN)	30	6.6	4.4	2.9	0.4	0.0	0.0	0.0	0.0	0.0	0.*	1.7	4.0	20.0
	MAXIMUM MONTHLY (IN)	66	23.1	19.2	23.9	7.1	T	T	T	T	0.0	1.2	19.5	20.5	23.9
	YEAR OF OCCURRENCE		1979	1980	1970	1971	1996	2008	1995	2001		1993	1951	2002	MAR 1970
	MAXIMUM IN 24 HOURS (IN)	66	13.5	16.1	15.7	6.9	T	T	T	T	0.0	1.1	12.5	14.3	16.1
	YEAR OF OCCURRENCE		1995	1980	1970	1971	1996	1993	1995	2001		1993	1951	2000	FEB 1980
	MAXIMUM SNOW DEPTH (IN)	68	14	16	17	3	0	0	0	0	0	1	14	13	17
	YEAR OF OCCURRENCE		1995	1980	1970	1971						1993	1951	2000	MAR 1970
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.0	1.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	5.3	

**PRECIPITATION (inches) 2011 SPRINGFIELD (KSGF)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	4.51	0.40	2.15	3.42	4.83	5.91	1.01	8.60	1.15	2.59	4.26	8.84	47.67
1983	0.77	0.43	2.58	10.19	3.78	2.31	5.95	1.28	3.46	6.67	5.08	2.55	45.05
1984	1.08	3.46	5.01	5.05	2.11	3.19	2.46	1.34	4.84	5.70	4.67	6.87	45.78
1985	1.55	4.25	6.28	3.92	3.75	7.20	1.61	5.97	1.66	5.05	12.24	3.02	56.50
1986	0.09	1.95	2.07	3.83	3.05	3.23	1.29	4.82	11.65	4.11	2.85	1.25	40.19
1987	2.07	5.25	3.95	2.15	5.39	5.80	2.57	4.35	4.08	3.24	9.16	7.48	55.49
1988	1.34	2.18	5.87	3.75	4.40	5.35	4.80	5.14	5.14	1.91	5.48	3.10	48.46
1989	1.60	1.98	4.95	0.15	6.93	2.67	4.79	3.91	2.40	1.12	0.19	0.81	31.50
1990	5.26	5.68	7.87	2.51	13.41	4.66	3.01	1.46	5.84	5.02	2.41	6.06	63.19
1991	3.00	0.93	1.12	5.16	5.58	0.23	4.20	2.72	3.55	3.78	3.92	3.40	37.59
1992	0.87	2.20	2.24	2.45	2.03	6.03	6.84	3.86	7.36	0.80	9.11	4.25	48.04
1993	2.82	2.67	2.62	3.09	4.42	8.75	4.19	2.71	17.46	1.37	4.05	1.63	55.78
1994	1.40	2.75	3.00	10.58	3.54	3.25	4.48	4.81	1.86	4.68	7.57	1.10	49.02
1995	3.99	1.45	1.17	8.67	7.26	7.79	2.96	2.25	2.43	0.60	0.81	2.48	41.86
1996	3.70	0.61	1.68	5.18	5.10	2.44	2.90	1.92	7.48	5.08	8.06	.71	44.86
1997	1.39	4.02	4.09	2.76	4.66	3.58	1.72	4.21	3.69	3.43	1.78	3.15	38.48
1998	2.67	4.28	6.54	2.58	3.85	3.16	7.39	3.26	5.81	3.97	3.60	1.36	48.47
1999	3.95	1.90	3.04	7.07	6.54	3.80	1.28	2.00	1.79	1.20	1.97	6.99	41.53
2000	1.16	1.69	2.92	1.06	3.46	8.40	6.77	0.34	2.26	2.46	3.24	1.60	35.36
2001	1.45	5.77	0.85	1.88	5.19	6.60	4.87	5.29	3.20	4.24	2.43	3.52	45.29
2002	3.47	0.79	3.38	4.21	9.46	0.99	3.58	4.27	0.56	3.26	0.96	2.89	37.82
2003	0.43	3.73	2.85	2.63	4.90	4.80	2.00	6.37	3.21	1.53	5.98	4.18	42.61
2004	3.88	0.55	6.43	4.41	2.52	3.37	5.98	1.21	0.10	6.31	7.28	1.19	43.23
2005	6.70	2.42	1.65	3.19	1.52	3.28	1.58	4.10	3.73	4.04	2.50	0.61	35.32
2006	1.75	0.09	2.45	5.48	7.00	1.79	3.56	4.19	2.26	2.19	6.38	1.73	38.87
2007	4.25	2.25	2.66	4.04	4.07	8.11	2.80	4.34	4.93	1.88	1.22	3.72	44.27
2008	3.52	6.41	9.40	4.74	5.20	13.41	2.66	0.60	8.15	2.38	1.13	2.52	60.12
2009	1.31	1.64	3.85	8.26	5.52	4.61	3.70	4.51	5.63	9.97	1.13	1.73	51.86
2010	2.52	1.28	3.36	3.99	7.14	2.33	6.37	1.53	11.65	1.01	4.24	0.74	46.16
2011	0.26	3.43	4.25	7.89	5.92	0.82	1.71	2.88	4.05	1.28	5.29	2.83	40.61
POR= 115 YRS	2.21	2.12	3.44	4.14	4.81	4.95	3.57	3.60	4.04	3.33	3.10	2.48	41.79

WBAN : 13995

**AVERAGE TEMPERATURE (°F) 2011 SPRINGFIELD (KSGF)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	26.2	34.4	49.7	52.8	68.2	70.1	80.2	78.7	68.6	57.9	46.7	42.1	56.3
1983	34.9	40.4	46.7	50.6	61.9	72.2	79.6	83.4	71.0	60.5	48.7	21.5	56.0
1984	29.4	42.8	42.9	54.0	62.6	75.5	77.4	79.5	68.1	60.3	45.3	43.0	56.7
1985	24.4	30.8	50.1	59.0	67.1	72.6	79.5	75.6	69.0	59.4	46.1	28.0	55.1
1986	36.6	37.6	49.6	58.0	65.4	75.8	82.0	73.8	71.9	57.4	41.6	36.3	57.2
1987	32.7	41.5	48.5	56.7	70.8	74.7	78.5	79.1	67.6	52.9	46.9	37.2	57.3
1988	29.6	32.2	45.4	54.8	65.6	74.5	76.7	78.6	68.9	52.9	47.1	37.3	55.3
1989	39.6	27.4	45.5	57.0	62.5	69.6	75.3	75.4	63.7	59.5	46.6	25.7	54.0
1990	41.3	42.0	48.2	54.8	61.9	75.1	77.2	77.1	72.5	55.9	52.2	34.9	57.8
1991	30.5	42.6	48.6	57.8	68.9	75.0	78.5	78.3	68.0	59.3	42.4	40.2	57.5
1992	37.7	43.8	48.6	57.5	63.4	70.5	76.5	71.1	67.6	58.7	44.0	36.4	56.3
1993	33.5	33.9	42.9	52.7	63.8	73.1	80.1	79.2	66.0	54.2	41.8	37.9	54.9
1994	30.1	36.5	48.8	57.7	64.3	77.2	77.1	75.4	67.6	59.7	50.6	40.4	57.1
1995	33.7	39.1	48.5	56.0	62.3	72.1	78.2	82.2	66.6	59.0	43.0	34.2	56.2
1996	30.4	38.3	39.6	53.0	67.0	72.8	75.0	75.8	65.8	57.0	39.5	38.0	54.4
1997	29.1	40.0	47.3	50.6	59.8	70.8	77.8	73.9	69.0	57.7	42.6	35.1	54.5
1998	38.1	39.9	42.5	53.6	69.7	74.6	79.4	77.5	74.9	58.6	49.1	37.0	57.9
1999	35.1	44.1	43.1	57.0	63.1	72.5	79.8	78.1	66.8	58.8	53.4	39.3	57.6
2000	34.8	44.2	49.6	54.2	66.7	70.0	76.1	80.9	70.1	61.3	39.5	23.3	55.9
2001	30.8	37.5	41.4	61.6	65.6	72.9	79.3	77.7	67.0	56.6	50.5	38.8	56.6
2002	35.3	37.9	42.8	58.4	61.9	74.4	78.6	78.1	72.7	55.3	43.6	35.8	56.2
2003	28.8	33.7	45.9	57.6	64.2	69.8	79.2	80.0	66.1	58.5	48.3	37.4	55.8
2004	32.8	36.5	49.1	56.7	67.5	71.9	74.6	72.6	71.0	61.2	49.2	37.8	56.7
2005	36.7	41.8	44.5	56.3	64.2	76.4	79.4	80.2	73.8	58.4	48.3	34.2	57.9
2006	43.9	36.8	48.8	61.9	66.6	74.6	80.9	81.5	66.9	56.2	47.9	40.2	58.9
2007	32.5	34.7	56.3	53.6	69.8	75.4	77.9	81.7	71.2	60.8	47.0	36.1	58.1
2008	33.5	34.9	46.0	53.0	63.8	73.2	77.8	76.3	68.1	57.2	44.5	33.2	55.1
2009	30.5	40.8	48.4	54.5	63.4	75.5	74.2	73.8	67.1	52.0	50.7	31.7	55.2
2010	28.0	30.7	45.7	60.2	65.6	78.3	80.1	81.3	70.1	58.3	47.0	32.4	56.5
2011	29.8	34.3	46.6	58.2	62.8	78.4	84.6	80.9	65.5	57.5	47.8	38.3	57.1
POR= 115 YRS	32.9	35.1	45.6	55.2	64.6	72.4	77.8	77.1	68.6	58.5	45.3	35.8	55.7

**HEATING DEGREE DAYS (base 65°F) 2011 SPRINGFIELD (KSGF)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0	0	68	265	551	704	925	680	563	435	133	16	4340
1983-84	0	0	59	162	489	1343	1097	641	680	338	133	0	4942
1984-85	0	0	106	168	584	678	1251	949	459	204	33	4	4436
1985-86	0	1	88	187	558	1139	874	760	474	226	64	0	4371
1986-87	0	12	16	249	692	882	998	651	505	291	1	1	4298
1987-88	0	1	38	370	540	857	1090	944	601	304	54	2	4801
1988-89	0	8	26	385	531	852	780	1049	601	303	156	22	4713
1989-90	2	1	130	204	546	1214	724	639	521	336	126	4	4447
1990-91	6	0	24	291	381	929	1059	620	508	226	48	0	4092
1991-92	0	0	102	202	670	762	842	607	503	261	112	8	4069
1992-93	0	6	66	203	622	878	970	867	681	361	94	12	4760
1993-94	0	2	70	340	692	836	1074	791	500	251	89	0	4645
1994-95	0	0	60	199	432	755	964	721	510	288	132	3	4064
1995-96	0	0	102	198	656	947	1064	768	779	355	78	17	4964
1996-97	0	0	71	252	756	827	1106	693	542	429	190	19	4885
1997-98	4	1	21	278	663	918	827	698	702	340	29	25	4506
1998-99	0	0	0	210	471	862	920	580	672	248	88	13	4064
1999-00	0	0	77	213	342	792	932	594	471	319	69	16	3825
2000-01	0	0	67	167	762	1287	1053	760	726	171	67	5	5065
2001-02	0	0	61	265	426	803	914	754	682	232	132	1	4270
2002-03	0	0	10	330	636	897	1117	872	584	247	76	24	4793
2003-04	0	0	65	209	501	846	989	821	491	265	77	1	4265
2004-05	4	13	8	160	467	839	871	647	630	273	117	0	4029
2005-06	0	0	21	261	500	950	647	785	505	150	96	0	3915
2006-07	0	0	52	307	506	765	962	842	291	356	19	0	4100
2007-08	0	0	18	192	535	888	969	866	583	365	108	0	4524
2008-09	0	0	30	264	608	977	1063	670	517	337	109	6	4581
2009-10	0	7	33	399	420	1027	1139	953	593	164	85	0	4820
2010-11	0	0	28	210	533	1005	1081	853	568	231	177	0	4686
2011-	0	0	93	251	513	820							

WBAN : 13995

**COOLING DEGREE DAYS (base 65°F) 2011 SPRINGFIELD (KSGF)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	0	7	7	139	182	477	432	184	51	5	1	1485
1983	0	0	3	8	41	239	462	577	245	29	9	0	1613
1984	0	0	0	14	64	319	389	455	204	31	0	1	1477
1985	0	0	5	30	108	237	456	337	216	20	0	0	1409
1986	0	0	2	22	85	333	535	290	231	20	0	0	1518
1987	0	0	0	47	188	302	424	446	125	4	4	0	1540
1988	0	0	1	4	81	293	369	436	150	13	0	0	1347
1989	0	0	4	70	88	165	326	328	98	40	2	0	1121
1990	0	0	8	38	35	312	392	379	257	14	4	0	1439
1991	0	0	5	18	175	307	426	419	196	34	0	0	1580
1992	0	0	3	41	68	183	367	202	151	17	0	0	1032
1993	0	0	4	2	61	259	476	450	106	13	0	0	1371
1994	0	0	2	39	72	373	380	326	144	39	6	0	1381
1995	0	0	7	21	56	223	416	537	158	20	0	0	1438
1996	0	3	0	4	145	259	317	340	103	10	0	0	1181
1997	0	0	0	0	35	197	410	282	146	59	0	0	1129
1998	0	0	11	5	179	321	453	397	308	18	0	0	1692
1999	0	0	0	14	36	247	462	412	138	25	2	0	1336
2000	0	0	1	4	128	172	352	501	226	60	4	0	1448
2001	0	0	0	72	91	249	447	400	125	11	0	0	1395
2002	0	0	0	41	45	292	429	414	248	37	1	0	1507
2003	0	0	0	34	57	174	449	470	107	15	7	0	1313
2004	0	0	5	20	160	213	307	256	192	46	0	0	1199
2005	0	0	0	15	101	348	453	480	291	65	6	0	1759
2006	0	0	10	63	152	294	501	521	115	41	0	0	1697
2007	0	0	29	21	176	317	407	522	208	72	0	0	1752
2008	0	0	0	13	78	252	403	357	127	28	1	0	1259
2009	0	0	9	30	65	326	292	286	102	0	0	0	1110
2010	0	0	5	28	111	404	475	513	188	10	0	0	1734
2011	0	0	5	33	115	406	616	502	114	26	0	0	1817

**SNOWFALL (inches) 2011 SPRINGFIELD (KSGF)**

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	3.7	0.4	1.5	T	0.0	0.0	5.6
1983-84	0.0	0.0	0.0	0.0	0.2	14.5	6.9	9.6	0.4	0.0	0.0	0.0	31.6
1984-85	0.0	0.0	0.0	0.0	1.4	4.5	13.7	6.0	T	0.0	0.0	0.0	25.6
1985-86	0.0	0.0	0.0	0.0	T	6.2	T	7.3	0.0	0.0	0.0	0.0	13.5
1986-87	0.0	0.0	0.0	0.0	T	0.1	11.7	2.1	T	0.0	0.0	0.0	13.9
1987-88	0.0	0.0	0.0	0.0	0.3	8.7	5.8	4.3	7.0	T	0.0	0.0	26.1
1988-89	0.0	0.0	0.0	0.0	3.0	6.8	0.8	2.7	15.0	0.0	0.0	T	28.3
1989-90	0.0	0.0	0.0	T	T	6.4	0.9	8.5	0.7	T	T	T	16.5
1990-91	T	0.0	0.0	0.0	T	8.2	2.1	4.6	T	T	T	0.0	14.9
1991-92	0.0	0.0	0.0	0.0	T	T	4.6	T	0.1	0.0	0.0	0.0	4.7
1992-93	0.0	0.0	0.0	0.0	0.4	3.5	3.2	14.1	1.5	1.0	0.0	T	23.7
1993-94	0.0	0.0	0.0	1.2	0.4	0.4	3.4	0.9	6.9	0.1	0.0	0.0	13.3
1994-95	0.0	0.0	0.0	0.0	0.0	T	15.0	0.2	1.0	T	T	0.0	16.2
1995-96	T	0.0	0.0	0.0	1.4	7.2	13.0	1.8	T	T	T	0.0	
1996-97	0.0	0.0	0.0	T	1.0	.7	10.8	1.8	0.0	T	T	0.0	14.3
1997-98	0.0	0.0	0.0	T	1.7	3.5	4.3	0.3	5.4	0.0	0.0	T	15.2
1998-99	0.0	0.0	0.0	0.0	0.0	0.1	7.0	T	14.3	T	0.0	0.0	21.4
1999-00	0.0	0.0	0.0	0.0	0.0	T	3.7	0.3	4.6	0.0	0.0	0.0	8.6
2000-01	0.0	0.0	0.0	0.0	T	18.1	2.6	0.9	T	0.0	0.0	T	21.6
2001-02	0.0	T	0.0				4.6	3.4	2.8	0.0	T	0.0	
2002-03	T	0.0	0.0	0.0	0.0	20.5	3.9	13.6	0.6	T	0.0	T	38.6
2003-04	0.0	0.0	0.0	0.0	T	11.4	1.0	2.0	0.0	0.0	0.0	0.0	14.4
2004-05	0.0	0.0	0.0	0.0	T	0.0	2.9	3.2	0.2	T	0.0	0.0	6.3
2005-06	0.0	0.0	0.0	0.0	T	0.5	T	1.2	T	T	0.0	0.0	1.7
2006-07	0.0	0.0	0.0	T	7.0	5.3	3.8	1.1	T	T	0.0	0.0	17.2
2007-08	0.0	0.0	0.0	0.0	0.3	0.7	2.6	2.0	6.7	T	0.0	T	12.3
2008-09	0.0	0.0	0.0	0.0	0.5	0.3	5.1	1.4	0.2	T	0.0	0.0	7.5
2009-10	0.0	0.0	0.0	0.0	0.0	1.8	11.9	2.3	4.1	0.0	0.0	0.0	20.1
2010-11	0.0	0.0	0.0	0.0	0.1	0.9	3.0	14.9	1.0	0.0	0.0	0.0	19.9
2011-	0.0	0.0	0.0	0.0	T	0.4							
POR= 71 YRS	T	T	0.0	T	1.3	3.3	4.7	4.1	3.3	0.3	T	T	17.0

WBAN : 13995

**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>
--	---

# 2011 SPRINGFIELD MISSOURI (KSGF)

The entire metropolitan area, airport, and surrounding territory consists of comparatively flat or very gently rolling tableland, practically atop the crest of the Missouri Ozark Mountain plateau. The average elevation of the city proper is slightly over 1,300 feet above sea level. There are no serious problems of instrumental exposure.

As a result of this advantageous location, the city and surrounding territory enjoy what is described as a plateau climate. The winter season in the Ozarks has temperatures considerably milder than in the upland, plain or prairie, and in the summer the Ozarks are appreciably cooler.

The city of Springfield also occupies a unique location with regard to natural water drainage. The line separating two major water sheds crosses the north-central part of the city. Drainage north of this line flows north into the Gasconade and Missouri Rivers. To the south of the line, drainage is to the south into the White and Mississippi Rivers.

The average annual temperature range is over 140 degrees with lowest temperatures below -25 and highest temperatures above 115 degrees.

The growing season extends over a period of 199 days. Agriculture is greatly diversified, practically every farm product of the temperate zone is grown in this area. It is a noted livestock and poultry production and distribution center. The climate permits green pasturage the year around in varying quantity, resulting in ever increasing cattle production for both meat and dairy products.

The air is remarkably free from palls of industrial smoke, and the altitude of the city also tends to prevent other than few amounts of either radiation or advection fogs.

# Station History

SPRINGFIELD, MO

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
SPRINGFIELD REGIONAL AP	1980-10-01	1986-05-16	37° 13'	-93° 22'	1268		COOP, WXSVC
SPRINGFIELD MUNICIPAL AP	1945-07-02	1947-11-01	37° 13'	-93° 22'	1265		AIRWAYS
SPRINGFIELD MUNICIPAL AP	1973-01-01	1980-10-01	37° 13'	-93° 22'	1268		COOP, WXSVC
SPRINGFIELD REGIONAL AP	1995-11-01	2009-07-23	37° 14'	-93° 23'	1259		ASOS, COOP, WXSVC
SPRINGFIELD MUNICIPAL AP	1960-07-01	1973-01-01	37° 13'	-93° 22'	1268		AIRWAYS, COOP
SPRINGFIELD REGIONAL AP	1988-07-12	1994-11-01	37° 13'	-93° 22'	1268		COOP, WXSVC
SPRINGFIELD MUNICIPAL AP	1947-11-01	1960-07-01	37° 13'	-93° 22'	1265		AIRWAYS, COOP
SPRINGFIELD REGIONAL AP	1994-11-01	1995-11-01	37° 13'	-93° 22'	1278		COOP, WXSVC
SPRINGFIELD MUNICIPAL AP	1940-08-01	1945-07-02	37° 13'	-93° 15'	1355		AIRWAYS
SPRINGFIELD REGIONAL AP	2009-07-23	Present	37° 14'	-93° 23'	1259		ASOS, COOP, WXSVC
SPRINGFIELD MUNICIPAL AP	1933-01-07	1940-08-01	37° 13'	-93° 15'	1365		AIRWAYS
SPRINGFIELD REGIONAL AP	1986-05-16	1988-07-12	37° 13'	-93° 22'	1268		COOP, WXSVC

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1945-07-02	1960-07-01	DAILY	2400			
PRECIP	1960-07-01	1988-07-12	DAILY	2400	UNIV	RCRD	
TEMP	1988-07-12	1990-04-20	DAILY	2400	MXMN		
TEMP	1990-04-20	1995-07-01	DAILY	2400	MMTS		
PRECIP	1990-04-20	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1945-07-02	1960-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	2009-07-23	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1960-07-01	1988-07-12	HOURLY	2400			
TEMP	1995-11-01	2009-07-23	DAILY	2400	HYGR		
TEMP	2009-07-23	Present	DAILY	2400	ATEMP		
TEMP	1960-07-01	1988-07-12	DAILY	2400			
PRECIP	1988-07-12	1990-04-20	HOURLY	2400			
PRECIP	1990-04-20	1995-07-01	HOURLY	2400			
TEMP	1995-07-01	1995-11-01	DAILY	2400	MMTS		
PRECIP	1995-11-01	2009-07-23	DAILY	2400	TB	RCRD	
PRECIP	1995-11-01	2009-07-23	HOURLY	2400	TB	RCRD	
PRECIP	2009-07-23	Present	DAILY	2400	AWPAG	RCRD;HTD	
PRECIP	1988-07-12	1990-04-20	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1995-11-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1995-11-01	DAILY	2400	UNIV	RCRD	

\* 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)