

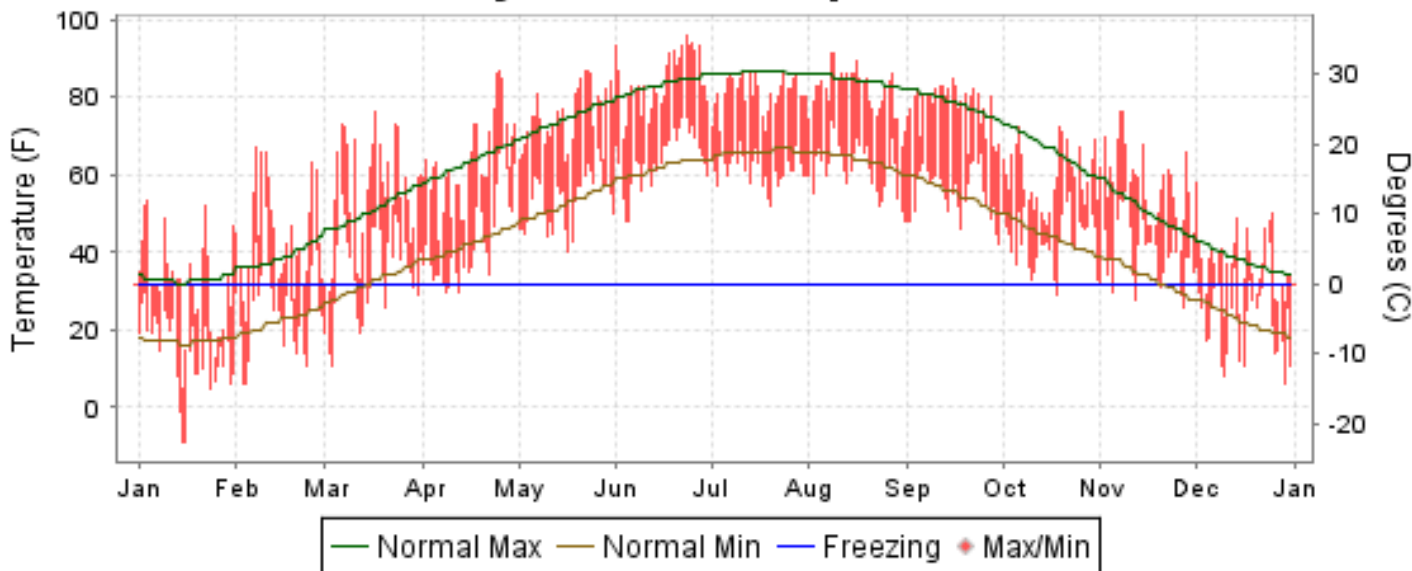


# 2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

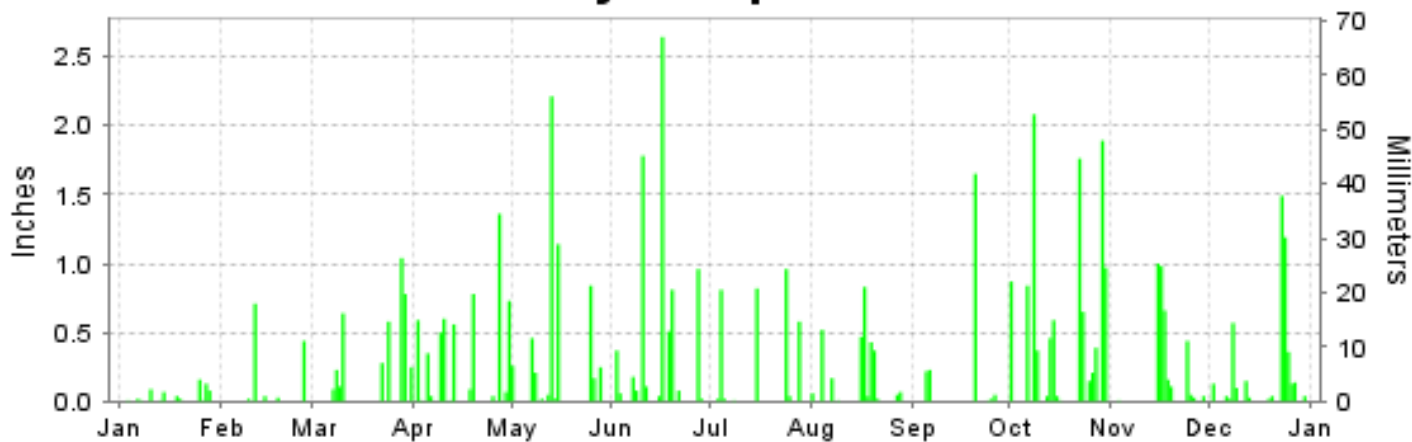
ISSN 0198-1927

## SPRINGFIELD, ILLINOIS (KSPI)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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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 2009

## SPRINGFIELD (KSPI)

LATITUDE: 39° 50'N      LONGITUDE: -89° 41'W      ELEVATION (FT): GRND: 590    BARO: 594      TIME ZONE: CENTRAL (UTC -6)      WBAN: 93822

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	31.9	44.1	55.9	63.8	75.0	84.4	81.0	81.5	77.6	59.5	58.0	37.2	62.5	
	HIGHEST DAILY MAXIMUM	53	67	76	87	87	96	87	91	85	72	76	58	96	
	DATE OF OCCURRENCE	04	07	17	25	23+	23	15	09+	15	19+	08+	01	JUN 23	
	MEAN DAILY MINIMUM	14.2	25.2	35.1	43.0	53.6	64.2	61.5	61.9	55.4	43.3	39.8	23.2	43.4	
	LOWEST DAILY MINIMUM	-9	6	11	30	40	48	52	48	42	29	26	6	-9	
	DATE OF OCCURRENCE	16+	04+	03	12+	17	05+	20	31	30	18	27	29	JAN 16+	
	AVERAGE DRY BULB	23.1	34.7	45.5	53.4	64.3	74.3	71.3	71.7	66.5	51.4	48.9	30.2	52.9	
	MEAN WET BULB	20.8	30.9	40.1	47.7	57.6	67.4	65.5	66.2	60.3	47.4	44.3	28.2	48.0	
	MEAN DEW POINT	14.8	24.6	33.1	41.6	51.7	63.7	61.7	62.9	56.4	43.2	39.1	23.5	43.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	10	0	2	0	0	0	0	12	
	MAXIMUM <= 32°	2	4	2	0	0	0	0	0	0	0	0	8	16	
MINIMUM <= 32°	31	22	12	4	0	0	0	0	0	1	6	26	102		
MINIMUM <= 0°	3	0	0	0	0	0	0	0	0	0	0	0	3		
H/C	HEATING DEGREE DAYS	1293	842	599	378	93	9	0	12	38	413	476	1073	5226	
	COOLING DEGREE DAYS	0	0	0	36	80	294	199	226	93	0	0	0	928	
RH	MEAN (PERCENT)	71	69	65	67	66	72	73	76	74	76	72	76	71	
	HOUR 00 LST	74	74	69	75	76	83	85	87	85	82	76	79	79	
	HOUR 06 LST	75	78	77	78	82	85	86	89	89	85	82	81	82	
	HOUR 12 LST	66	60	55	56	54	61	58	61	58	66	62	68	60	
	HOUR 18 LST	68	63	58	59	53	59	62	67	68	73	70	73	64	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	1	0	0	1	2	0	3	4	3	2	1	19	
	THUNDERSTORMS	0	1	1	4	4	9	4	6	1	2	1	0	33	
CLOUDNESS	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.)	29.42	29.46	29.42	29.29	29.34	29.22	29.31	29.36	29.41	29.32	29.41	29.37	29.36	
	MEAN SEA-LEVEL PRESS. (IN.)	30.10	30.13	30.09	29.95	29.99	29.86	29.96	30.01	30.07	29.98	30.08	30.05	30.02	
WINDS	RESULTANT SPEED (MPH)	3.3	2.6	2.2	0.2	1.8	1.2	0.7	2.0	2.3	1.7	1.8	4.0	1.2	
	RES. DIR. (TENS OF DEGS.)	28	25	15	26	21	26	27	21	05	20	16	22	23	
	MEAN SPEED (MPH)	9.8	11.8	11.3	11.2	7.3	6.4	5.2	5.5	4.9	7.8	8.7	11.0	8.4	
	PREVAIL.DIR.(TENS OF DEGS.)	31	17	13	09	17	25	30	18	06	18	17	18	06	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	32	36	47	33	41	39	38	39	24	24	31	40	47	
	DIR. (TENS OF DEGS.)	30	31	26	19	25	25	02	29	29	22	06	27	26	
	DATE OF OCCURRENCE	17	11	08	26	13	19	24	04	28	30	17	09	MAR 08	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	40	46	58	43	53	52	51	60	38	35	37	54	60	
DIR. (TENS OF DEGS.)	29	33	25	20	26	26	03	29	32	22	06	25	29		
DATE OF OCCURRENCE	17	11	08	26	13	19	24	04	27	30	17	09	AUG 04		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.65	1.24	4.00	5.73	5.63	7.64	3.26	3.04	2.18	11.32	3.48	4.45	52.62	
	GREATEST 24-HOUR (IN.)	0.21	0.71	1.37	1.36	2.23	2.68	1.00	1.04	1.65	2.85	1.48	1.53	2.85	
	DATE OF OCCURRENCE	27-28	11	28-29	27	12-13	15-16	24-25	16-17	20	29-30	15-16	23-24	OCT 29-30	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	12	5	9	14	11	13	8	12	6	16	10	15	131	
PRECIPITATION 0.10	1	2	8	8	8	8	4	6	3	13	6	9	76		
PRECIPITATION 1.00	0	0	1	1	2	2	0	0	1	3	1	2	13		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	6.9	0.3	5.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	20.1	
	GREATEST 24-HOUR (IN.)	1.8	0.3	5.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.8	
	DATE OF OCCURRENCE	25	14	29	06								27	MAR 29	
	MAXIMUM SNOW DEPTH (IN.)	4	1	6	0	0	0	0	0	0	0	0	4	6	
	DATE OF OCCURRENCE	28	01	29									28	MAR 29	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	4	0	1	0	0	0	0	0	0	0	0	2	7		

# NORMALS, MEANS, AND EXTREMES SPRINGFIELD (KSPI)

LATITUDE: 39 ° 50'N      LONGITUDE: -89 ° 41'W      ELEVATION (FT): GRND: 590    BARO: 594      TIME ZONE: CENTRAL (UTC -6)      WBAN: 93822

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	33.1	38.9	51.1	63.4	74.4	83.3	86.5	84.5	78.5	66.6	50.9	38.0	62.4
	MEAN DAILY MAXIMUM	109	34.7	38.7	50.6	63.5	74.3	83.4	87.5	85.2	78.8	66.9	51.4	38.4	62.8
	HIGHEST DAILY MAXIMUM	62	71	74	87	90	95	103	112	103	101	93	83	74	112
	YEAR OF OCCURRENCE		1950	1996	1981	1986	1967	1954	1954	1964	1984	2006	1950	1984	JUL 1954
	MEAN OF EXTREME MAXS.	109	56.9	61.2	74.8	83.3	89.2	95.0	97.1	95.5	92.1	84.5	72.3	60.4	80.2
	NORMAL DAILY MINIMUM	30	17.1	22.2	32.4	42.2	52.7	61.9	66.0	63.9	55.4	44.4	33.7	22.6	42.9
	MEAN DAILY MINIMUM	109	19.1	22.4	32.0	42.7	53.1	62.4	66.6	64.7	56.6	45.6	34.0	23.6	43.6
	LOWEST DAILY MINIMUM	62	-21	-22	-12	19	28	39	48	43	32	17	-3	-21	-22
	YEAR OF OCCURRENCE		1999	1963	1960	1997	1966	2003	1975	1986	2003	1952	1964	1989	FEB 1963
	MEAN OF EXTREME MINS.	109	-3.5	1.1	13.3	27.7	38.0	48.8	55.0	52.4	40.4	29.1	16.5	2.1	26.7
	NORMAL DRY BULB	30	25.1	30.6	41.8	52.8	63.6	72.6	76.3	74.2	67.0	55.5	42.3	30.3	52.7
	MEAN DRY BULB	109	26.9	30.6	41.3	53.1	63.7	73.0	77.0	74.9	67.7	56.3	42.7	31.0	53.2
	MEAN WET BULB	26	24.6	28.0	36.9	46.5	56.2	65.0	68.9	67.5	59.4	48.7	38.4	28.3	47.4
	MEAN DEW POINT	26	21.5	24.9	32.7	41.9	52.4	62.1	66.6	65.3	56.2	44.8	35.0	25.2	44.1
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	*	1.4	6.7	10.7	6.9	3.2	0.1	0.0	0.0	29.0
	MAXIMUM <= 32	30	14.2	8.6	2.1	*	0.0	0.0	0.0	0.0	0.0	0.0	1.3	8.4	34.6
MINIMUM <= 32	30	27.6	22.0	15.9	4.3	*	0.0	0.0	0.0	0.1	3.7	14.4	24.8	112.8	
MINIMUM <= 0	30	4.1	2.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.5	
H/C	NORMAL HEATING DEG. DAYS	30	1239	979	726	376	126	14	1	4	77	319	674	1061	5596
	NORMAL COOLING DEG. DAYS	30	0	0	2	17	84	249	358	291	140	23	1	0	1165
RH	NORMAL (PERCENT)	30	77	75	71	66	67	70	73	75	72	69	74	79	72
	hour 00 LST	30	79	79	76	73	77	79	83	86	83	78	79	82	80
	hour 06 LST	30	81	82	82	81	81	84	87	91	89	84	83	84	84
	hour 12 LST	30	70	68	62	56	55	56	59	61	56	55	65	72	61
	hour 18 LST	30	74	72	63	57	55	56	61	65	62	62	71	77	65
S	PERCENT POSSIBLE SUNSHINE	48	48	52	51	56	63	68	71	70	68	63	48	44	59
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	46	2.8	2.3	1.7	0.9	0.9	0.7	1.0	1.5	1.2	1.4	1.4	2.4	18.2
	THUNDERSTORMS	109	0.5	0.8	2.9	4.8	7.0	8.4	7.9	6.8	4.4	2.3	1.5	0.5	47.8
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR														
	PARTLY CLOUDY CLOUDY														
PR	MEAN STATION PRESSURE(IN)	26	29.48	29.43	29.38	29.30	29.31	29.30	29.34	29.37	29.39	29.41	29.41	29.45	29.38
	MEAN SEA-LEVEL PRES. (IN)	26	30.15	30.11	30.05	29.96	29.96	29.95	29.98	30.01	30.04	30.06	30.08	30.13	30.04
WINDS	MEAN SPEED (MPH)	26	11.1	10.9	11.6	11.5	9.7	7.9	7.0	6.7	7.3	9.0	10.8	10.7	9.5
	PREVAIL.DIR(TENS OF DEGS)	35	31	19	19	19	19	19	20	19	19	19	19	19	19
	MAXIMUM 2-MINUTE: SPEED (MPH)	14	39	51	52	61	46	46	52	44	35	40	40	49	61
	DIR. (TENS OF DEGS)		25	29	31	30	28	29	04	33	31	25	27	26	30
	YEAR OF OCCURRENCE		1996	2001	2006	2002	2001	2008	2001	1999	2005	2004	2005	2007	APR 2002
	MAXIMUM 3-SECOND SPEED (MPH)	14	52	62	58	74	68	64	62	60	47	53	53	59	74
	DIR. (TENS OF DEGS)		29	27	25	30	28	29	06	29	31	25	17	28	30
	YEAR OF OCCURRENCE		2006	2001	2009	2002	2008	2008	2001	2009	2005	1996	1998	2008	APR 2002
PRECIPITATION	NORMAL (IN)	30	1.62	1.80	3.15	3.36	4.06	3.77	3.53	3.41	2.83	2.62	2.87	2.54	35.56
	MAXIMUM MONTHLY (IN)	62	5.67	4.89	7.89	9.91	10.72	9.22	10.76	8.37	8.57	11.32	6.94	8.94	11.32
	YEAR OF OCCURRENCE		1949	1990	1973	1964	1996	1990	1981	1981	1986	2009	1985	1982	OCT 2009
	MINIMUM MONTHLY (IN)	62	0.04	0.47	0.63	0.73	0.52	0.23	0.89	0.46	T	0.16	0.25	0.15	T
	YEAR OF OCCURRENCE		1986	2004	1956	1971	1992	1959	1997	1992	1979	1964	1999	1955	SEP 1979
	MAXIMUM IN 24 HOURS (IN)	62	2.78	2.54	2.84	4.45	3.95	4.99	4.43	4.79	5.12	3.51	2.74	6.12	6.12
	YEAR OF OCCURRENCE		1975	1990	1972	1979	1990	2008	1981	1956	1959	1973	2003	1982	DEC 1982
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	9.1	8.5	11.4	11.4	11.0	9.6	8.6	8.3	8.0	8.3	9.8	9.9	113.9
PRECIPITATION >= 1.00	30	0.2	0.3	0.8	0.7	1.0	0.9	1.0	0.9	0.7	0.6	0.5	0.6	8.2	
SNOWFALL	NORMAL (IN)	30	7.4	5.8	3.4	0.7	0.0	0.0	0.0	0.0	0.0	0.*	1.6	6.0	24.9
	MAXIMUM MONTHLY (IN)	62	21.1	16.0	20.3	7.3	T	0.0	T	0.0	0.0	0.3	9.2	22.7	22.7
	YEAR OF OCCURRENCE		1977	1993	1960	1980	1996		1994			1989	1951	1973	DEC 1973
	MAXIMUM IN 24 HOURS (IN)	62	8.8	10.3	8.2	6.1	T	0.0	T	0.0	0.0	0.3	8.0	10.9	10.9
	YEAR OF OCCURRENCE		1964	1965	1978	1980	1996		1994			1989	1951	1973	DEC 1973
	MAXIMUM SNOW DEPTH (IN)	108	16	12	16	5	0	0	0	0	0	2	7	15	16
	YEAR OF OCCURRENCE		1918	1965	1978	1920						1929	1951	1973	MAR 1978
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.2	1.6	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.7	7.1	

**PRECIPITATION (inches) 2009 SPRINGFIELD (KSPI)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	0.72	1.42	4.29	2.22	2.22	3.23	2.08	3.91	4.95	1.47	0.57	1.99	29.07
1981	0.43	2.12	2.27	4.57	6.17	5.80	10.76	8.37	1.13	1.94	2.21	2.35	48.12
1982	4.48	1.81	3.04	3.40	4.12	2.54	2.53	3.68	2.75	2.69	4.50	8.94	44.48
1983	0.46	0.96	3.44	5.02	4.53	2.62	1.60	0.84	1.36	3.63	4.71	3.50	32.67
1984	0.70	1.97	4.00	5.45	6.32	2.26	3.46	0.63	4.80	4.74	4.36	3.91	42.60
1985	0.65	2.96	4.19	1.46	1.75	5.82	2.95	6.03	0.64	3.08	6.94	2.43	38.90
1986	0.04	1.80	1.45	1.57	2.56	6.23	5.39	1.13	8.57	3.63	1.95	1.40	35.72
1987	1.46	0.73	2.08	2.59	0.56	4.08	4.12	3.23	0.99	1.26	3.25	5.00	29.35
1988	2.17	1.39	2.69	1.27	1.76	0.62	1.74	1.56	2.84	1.68	4.37	3.22	25.31
1989	0.88	1.27	1.68	5.50	4.18	0.89	3.13	2.57	5.49	1.02	0.84	0.58	28.03
1990	1.49	4.89	3.41	1.28	8.84	9.22	5.48	2.68	1.91	5.03	3.47	4.97	52.67
1991	1.29	0.71	2.64	3.57	5.74	1.26	3.22	4.03	4.35	6.41	3.31	1.38	37.91
1992	1.03	1.59	2.39	2.82	0.52	2.31	6.86	0.46	1.54	1.47	6.14	2.36	29.49
1993	3.97	1.48	2.48	4.59	2.05	7.26	9.46	3.21	6.05	2.92	3.04	1.07	47.58
1994	1.15	1.01	1.27	8.16	3.99	6.05	1.93	3.19	0.93	2.73	3.09	1.99	35.49
1995	4.01	0.51	3.41	2.71	7.54	1.29	2.70	3.67	0.65	2.24	1.38	1.34	31.45
1996	1.54	1.04	1.93	3.93	10.72	1.95	3.32	1.81	1.12	1.59	2.96	.72	32.63
1997	1.58	2.74	2.50	1.48	3.10	1.54	0.89	4.64	3.53	1.79	4.50	1.75	30.04
1998	2.43	2.71	4.63	4.05	5.65	8.81	3.32	5.30	1.27	3.30	2.81	0.64	44.92
1999	1.94	2.15	0.97	4.61	2.90	2.95	2.08	4.64	2.42	1.78	0.25	2.20	28.89
2000	0.54	1.27	2.80	1.94	1.35	7.46	3.16	3.33	2.92	2.55	2.99	0.91	31.22
2001	2.06	3.01	1.11	1.99	3.50	4.42	3.41	3.34	2.50	4.96	2.61	2.09	35.00
2002	2.45	1.38	2.08	6.48	7.86	5.29	2.62	5.41	1.22	3.12	0.51	1.70	40.12
2003	0.76	1.15	1.79	2.83	3.17	6.77	3.91	3.82	1.58	2.99	4.58	1.42	34.77
2004	1.40	0.47	3.31	2.48	3.60	3.61	5.16	2.66	0.24	5.25	4.91	1.23	34.32
2005	5.55	1.71	1.11	1.97	2.21	1.36	2.68	2.88	3.96	2.79	3.94	1.47	31.63
2006	2.12	0.53	4.78	4.40	1.64	2.46	2.28	2.45	2.02	2.80	3.93	3.22	32.63
2007	2.46	2.75	2.21	2.76	1.51	5.57	1.52	2.50	1.60	2.91	2.28	3.65	31.72
2008	3.66	4.78	2.80	3.64	5.04	7.49	9.45	1.61	8.53	1.83	0.98	3.92	53.73
2009	0.65	1.24	4.00	5.73	5.63	7.64	3.26	3.04	2.18	11.32	3.48	4.45	52.62
POR= 109 YRS	1.86	1.75	3.00	3.59	3.87	4.02	3.34	3.17	3.21	2.75	2.46	2.12	35.14

WBAN : 93822

**AVERAGE TEMPERATURE (°F) 2009 SPRINGFIELD (KSPI)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	27.8	21.8	37.1	51.1	64.6	72.0	81.4	79.3	68.7	52.8	42.3	31.7	52.6
1981	26.4	32.4	44.1	60.4	60.3	74.9	77.1	73.8	67.2	54.6	45.3	26.8	53.6
1982	17.0	24.2	40.3	48.1	70.0	68.3	77.1	72.5	66.1	55.4	43.0	38.8	51.7
1983	28.7	34.9	40.6	47.8	59.9	73.8	80.4	80.0	69.1	57.2	45.7	16.1	52.9
1984	22.3	35.9	31.8	50.4	60.3	75.2	74.5	76.9	65.7	59.9	41.7	35.9	52.5
1985	18.5	24.9	45.7	57.8	65.2	69.7	74.3	70.8	67.9	58.1	42.8	21.5	51.4
1986	29.1	26.9	45.3	57.4	65.9	74.7	78.8	70.0	70.4	56.1	37.9	32.6	53.8
1987	26.1	36.6	45.4	54.7	70.5	75.4	78.8	75.3	67.6	50.6	46.2	34.6	55.2
1988	25.6	25.6	41.5	52.8	65.8	73.8	78.6	78.7	68.7	49.7	43.0	31.6	53.0
1989	36.0	20.3	40.6	52.3	59.3	70.5	75.4	73.3	63.8	56.9	42.0	18.7	50.8
1990	37.1	36.1	45.5	50.8	59.9	73.1	75.2	74.0	68.4	53.5	47.8	30.0	54.3
1991	24.0	35.3	45.1	57.3	69.2	75.6	75.3	74.5	66.8	55.8	38.5	34.7	54.3
1992	32.1	38.1	43.7	52.2	62.3	69.6	74.3	70.9	67.0	56.1	42.4	32.8	53.5
1993	29.8	27.6	38.6	50.9	64.3	72.0	77.2	76.0	62.4	52.9	40.5	33.1	52.1
1994	21.4	29.4	42.9	53.9	62.3	75.2	75.4	72.8	66.7	57.8	47.8	37.3	53.6
1995	26.4	30.3	45.1	51.6	61.2	73.7	78.3	80.2	64.7	56.0	37.5	28.0	52.8
1996	23.2	31.4	36.0	49.3	63.3	72.5	72.1	73.6	64.2	55.6	35.3	31.5	50.7
1997	20.4	34.4	43.4	48.2	58.8	70.9	75.6	71.8	66.7	56.4	39.2	32.4	51.5
1998	32.7	40.4	40.4	53.0	68.3	71.7	75.4	74.9	71.1	56.7	46.0	34.0	55.4
1999	25.1	37.3	38.7	55.0	64.7	72.3	77.9	71.5	64.5	54.9	48.4	33.9	53.7
2000	27.5	39.0	46.2	52.2	65.9	69.8	73.5	75.4	67.1	58.1	38.1	17.4	52.5
2001	25.8	31.4	37.4	59.4	65.2	70.4	76.6	74.1	64.4	54.1	49.9	35.5	53.7
2002	34.0	35.1	38.3	54.5	60.0	74.8	78.0	75.0	68.9	51.5	39.7	33.2	53.6
2003	22.1	26.2	43.0	54.2	61.3	68.5	75.0	75.3	62.9	54.9	44.8	34.7	51.9
2004	24.8	31.2	45.4	55.3	67.1	69.4	73.1	68.8	68.2	55.5	45.7	33.2	53.1
2005	29.1	36.8	40.5	56.5	62.6	75.4	76.7	76.4	71.3	56.4	45.0	26.6	54.4
2006	39.0	31.2	42.9	58.2	64.0	71.9	78.1	74.9	64.5	51.3	45.6	35.5	54.8
2007	30.6	22.5	49.8	51.1	68.7	72.9	73.0	79.3	71.1	60.2	43.2	31.2	54.5
2008	28.5	26.6	40.3	51.1	60.2	74.2	74.2	71.6	66.8	55.1	41.7	28.5	51.6
2009	23.1	34.7	45.5	53.4	64.3	74.3	71.3	71.7	66.5	51.4	48.9	30.2	52.9
POR= 109 YRS	26.9	30.6	41.3	53.1	63.7	73.0	77.0	74.9	67.7	56.3	42.7	31.0	53.2

**HEATING DEGREE DAYS (base 65°F) 2009 SPRINGFIELD (KSPI)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0	0	49	395	675	1028	1193	906	648	181	184	0	5259
1981-82	0	0	51	332	581	1175	1483	1139	760	502	9	20	6052
1982-83	0	5	86	325	656	806	1117	836	749	510	169	14	5273
1983-84	0	0	75	269	574	1512	1320	835	1023	446	170	1	6225
1984-85	0	0	127	194	691	899	1437	1116	601	262	67	32	5426
1985-86	0	11	99	223	658	1340	1105	1060	618	261	74	1	5450
1986-87	0	19	25	284	807	999	1199	788	599	325	34	0	5079
1987-88	0	3	44	440	565	934	1216	1139	720	360	59	11	5491
1988-89	0	5	33	475	654	1027	890	1242	749	405	224	19	5723
1989-90	0	4	106	269	683	1431	856	803	613	459	168	10	5402
1990-91	7	2	72	360	512	1080	1262	827	612	243	69	0	5046
1991-92	0	0	120	295	787	932	1007	771	651	382	154	20	5119
1992-93	0	8	82	296	671	991	1083	1041	813	419	85	35	5524
1993-94	0	0	117	382	730	979	1347	992	679	351	142	12	5731
1994-95	0	4	64	242	512	851	1187	964	610	395	141	7	4977
1995-96	0	0	109	289	820	1140	1289	973	892	462	144	19	6137
1996-97	1	0	97	305	884	1031	1375	852	664	500	212	20	5941
1997-98	2	5	57	342	768	1003	993	681	768	354	39	37	5049
1998-99	0	0	17	266	567	953	1231	771	807	305	77	21	5015
1999-00	0	0	100	319	496	955	1155	748	581	376	89	24	4843
2000-01	0	1	78	244	804	1470	1208	933	852	220	109	34	5953
2001-02	0	0	103	339	443	907	954	829	820	357	197	1	4950
2002-03	0	0	36	443	751	980	1321	1082	675	336	134	44	5802
2003-04	0	0	113	315	599	932	1241	973	604	313	93	20	5203
2004-05	0	33	29	296	572	979	1106	785	751	268	140	0	4959
2005-06	0	0	35	310	592	1185	797	938	675	223	137	2	4894
2006-07	0	0	90	459	577	908	1062	1183	484	427	35	0	5225
2007-08	0	0	30	220	646	1042	1124	1105	759	416	182	0	5524
2008-09	0	0	39	316	694	1122	1293	842	599	378	93	9	5385
2009-	0	12	38	413	476	1073							

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**COOLING DEGREE DAYS (base 65°F) 2009 SPRINGFIELD (KSPI)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	0	0	10	88	228	515	452	169	20	0	0	1482
1981	0	0	8	50	43	303	380	280	121	13	0	0	1198
1982	0	0	0	1	173	131	379	244	126	32	1	1	1088
1983	0	0	1	1	17	289	483	471	205	34	0	0	1501
1984	0	0	0	16	30	312	303	375	155	44	0	1	1236
1985	0	0	7	52	80	178	293	202	191	17	0	0	1020
1986	0	0	14	38	109	299	434	182	193	14	0	0	1283
1987	0	0	0	21	212	318	436	329	130	0	8	0	1454
1988	0	0	0	3	93	281	430	437	150	6	0	0	1400
1989	0	0	2	30	57	190	332	268	77	24	0	0	980
1990	0	0	14	39	18	261	328	289	182	12	1	0	1144
1991	0	0	5	20	207	327	326	302	184	18	0	0	1389
1992	0	0	0	4	75	166	294	199	150	28	0	0	916
1993	0	0	0	1	71	253	386	352	46	13	0	0	1122
1994	0	0	0	26	67	327	329	257	123	27	2	0	1158
1995	0	0	0	0	33	276	418	479	105	16	0	0	1327
1996	0	0	0	0	99	250	231	274	80	20	0	0	954
1997	0	0	0	0	28	204	341	223	115	81	0	0	992
1998	0	0	11	0	145	246	327	312	207	15	0	1	1264
1999	0	0	0	12	74	249	409	210	94	14	1	0	1063
2000	0	0	4	0	123	174	273	332	148	37	3	0	1094
2001	0	0	0	60	122	203	365	288	88	8	0	0	1134
2002	0	0	0	50	51	301	413	321	162	34	0	0	1332
2003	0	0	0	20	29	156	318	327	57	8	1	0	916
2004	0	0	0	28	165	161	257	157	133	9	0	0	910
2005	0	0	0	21	74	320	371	360	231	48	1	0	1426
2006	0	0	0	29	114	214	412	313	82	40	0	0	1204
2007	0	0	19	14	157	242	256	451	221	78	0	0	1438
2008	0	0	0	7	41	280	295	211	99	17	0	0	950
2009	0	0	0	36	80	294	199	226	93	0	0	0	928

## SNOWFALL (inches) 2009 SPRINGFIELD (KSPI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	T	3.5	2.1	2.7	8.6	0.6	0.0	0.0	0.0	17.5
1981-82	0.0	0.0	0.0	0.0	0.1	21.6	12.0	11.4	0.7	4.6	0.0	0.0	50.4
1982-83	0.0	0.0	0.0	0.0	0.2	0.9	2.4	1.3	5.4	0.2	0.0	0.0	10.4
1983-84	0.0	0.0	0.0	T	T	16.2	3.9	9.8	5.7	0.0	0.0	0.0	35.6
1984-85	0.0	0.0	0.0	0.0	1.8	0.7	9.3	2.5	T	T	0.0	0.0	14.3
1985-86	0.0	0.0	0.0	0.0	T	4.3	0.2	15.1	0.6	0.1	0.0	0.0	20.3
1986-87	0.0	0.0	0.0	0.0	0.5	T	20.3	T	0.0	0.0	0.0	0.0	20.8
1987-88	0.0	0.0	0.0	0.0	0.1	5.7	0.4	10.2	5.0	0.0	0.0	0.0	21.4
1988-89	0.0	0.0	0.0	0.0	T	5.5	0.3	13.7	5.2	T	T	0.0	24.7
1989-90	0.0	0.0	0.0	0.3	T	6.7	0.6	0.5	1.2	T	0.0	0.0	9.3
1990-91	0.0	0.0	0.0	0.0	T	9.4	6.8	0.8	3.1	0.0	0.0	0.0	20.1
1991-92	0.0	0.0	0.0	T	3.2	0.5	4.6	0.9	2.2	T	0.0	0.0	11.4
1992-93	0.0	0.0	0.0	0.0	1.2	2.5	7.0	16.0	2.9	0.4	0.0	0.0	30.0
1993-94	0.0	0.0	0.0	0.2	0.8	1.7	5.8	4.4	0.9	2.7	T	0.0	16.5
1994-95	T	0.0	0.0	0.0	T	0.2	3.7	4.4	0.2	0.0	0.0	0.0	8.5
1995-96	0.0	0.0	0.0	0.0	1.2	5.9	11.2	1.1	1.6	0.0	T	0.0	21.0
1996-97	0.0	0.0	0.0	0.0	0.2	2.4	19.3	T	T	T	0.0	0.0	21.9
1997-98	0.0	0.0	0.0	T	1.2	7.6	3.5	0.0	6.9	0.0	0.0	0.0	19.2
1998-99	0.0	0.0	0.0	0.0	T	2.5	16.1	3.2	6.4	T	0.0	0.0	28.2
1999-00	0.0	0.0	0.0	0.0	0.0	2.4	6.8	0.3	5.5	T	0.0	0.0	15.0
2000-01	0.0	0.0	0.0	0.0	T	10.0	2.1	0.9	0.4	T	0.0	0.0	13.4
2001-02	0.0	0.0	0.0	0.0	T	3.3	1.1	4.0	2.4	0.0	0.0	0.0	10.8
2002-03	0.0	0.0	0.0	0.0	T	5.3	9.1	10.5	0.2	T	0.0	0.0	25.1
2003-04	0.0	0.0	0.0	0.0	T	3.7	6.1	2.7	1.8	0.0	T	0.0	14.3
2004-05	0.0	0.0	0.0	0.0	6.1	T	8.6	2.1	0.3	0.0	0.0	0.0	17.1
2005-06	0.0	0.0	0.0	0.0	T	14.5	0.9	4.4	6.0	0.0	0.0	0.0	25.8
2006-07	0.0	0.0	0.0	T	0.7	5.9	4.6	13.3	0.2	T	0.0	0.0	24.7
2007-08	0.0	0.0	0.0	0.0	0.2	11.0	7.0	13.1	4.2	T	0.0	0.0	35.5
2008-09	0.0	0.0	0.0	T	1.2	2.6	6.9	0.3	5.8	0.2	0.0	0.0	17.0
2009-	0.0	0.0	0.0	0.0	0.0	6.9							
POR= 109 YRS	T	0.0	0.0	0.1	1.2	4.7	5.7	5.3	3.8	0.5	T	0.0	21.3

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### REFERENCE NOTES :

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).

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).

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.

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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.  
STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK METADATA SYSTEM", URL IS: <https://mi3.ncdc.noaa.gov/mi3qry/login.cfm>

#### NOTE:

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.

# 2009

## SPRINGFIELD

### ILLINOIS (KSPI)

The location of Springfield near the center of North America gives it a typical continental climate with warm summers and fairly cold winters. The surrounding country is nearly level. There are no large hills in the vicinity, but rolling terrain is found near the Sangamon River and Spring Creek.

Monthly temperatures range from the upper 20s for January to the upper 70s for July. Considerable variation may take place within the seasons. Temperatures of 70 degrees or higher may occur in winter and temperatures near 50 degrees are sometimes recorded during the summer months.

There are no wet and dry seasons. Monthly precipitation ranges from a little over 4 inches in May and June to about 2 inches in January. There is some variation in rainfall totals from year to year. Thunderstorms are common during hot weather, and these are sometimes locally severe with brief but heavy showers. The average year has about fifty thunderstorms of which two-thirds occur during the months of May through August. Damaging hail accompanies only a few of the thunderstorms and the areas affected are usually small.

Sunshine is particularly abundant during the summer months when days are long and not very cloudy. January is the cloudiest month, with only about a third as much sunshine as July or August. March is the windiest month, and August the month with the least wind. Velocities of more than 40 mph are not unusual for brief periods in most months of the year. The prevailing wind direction is southerly during most of the year with northwesterly winds during the late fall and early spring months.

An overall description of the climate of Springfield would be one indicating pleasant conditions with sharp seasonal changes, but no extended periods of severely cold weather. Summer weather is often uncomfortably warm and humid.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 19 and the average last occurrence in the spring is April 17.

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