

1998

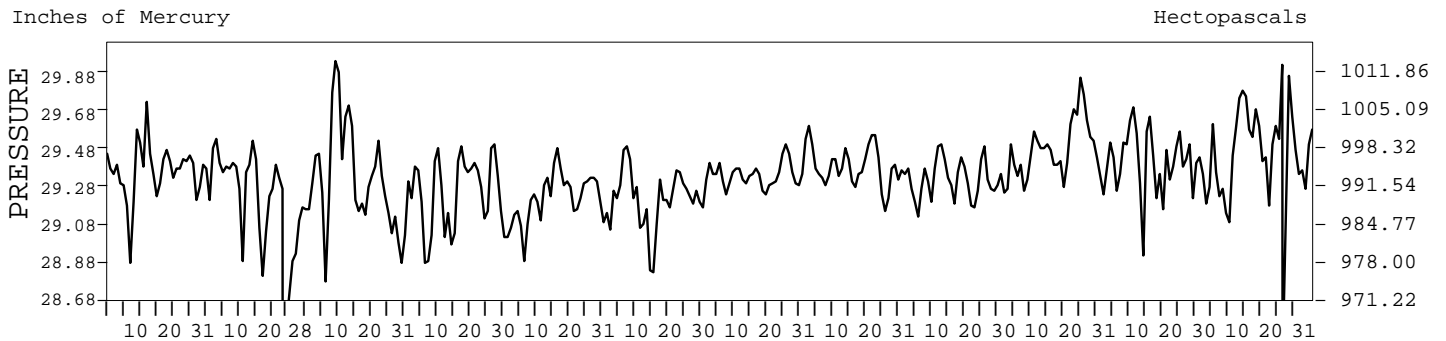
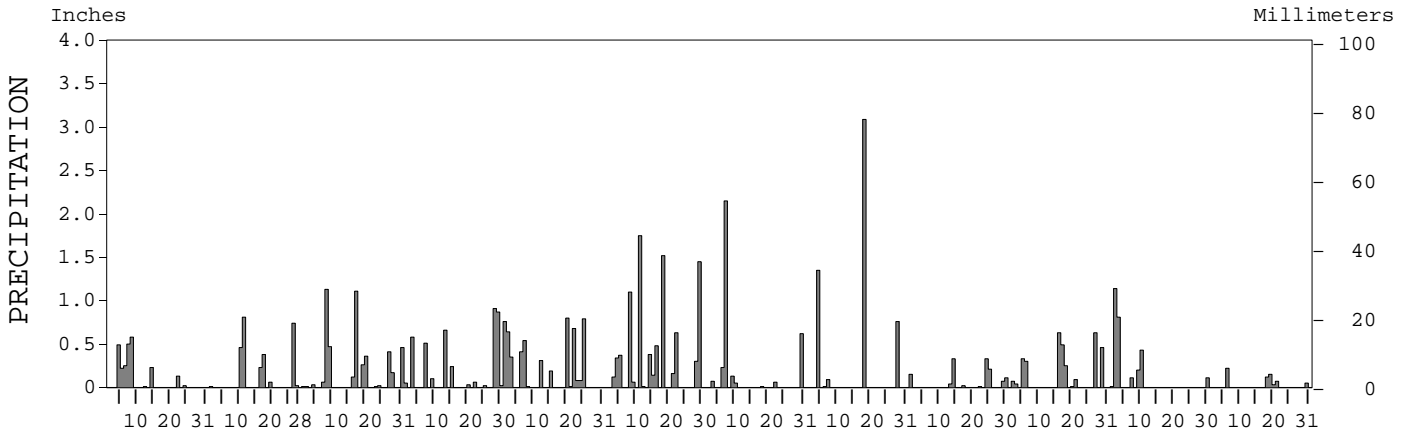
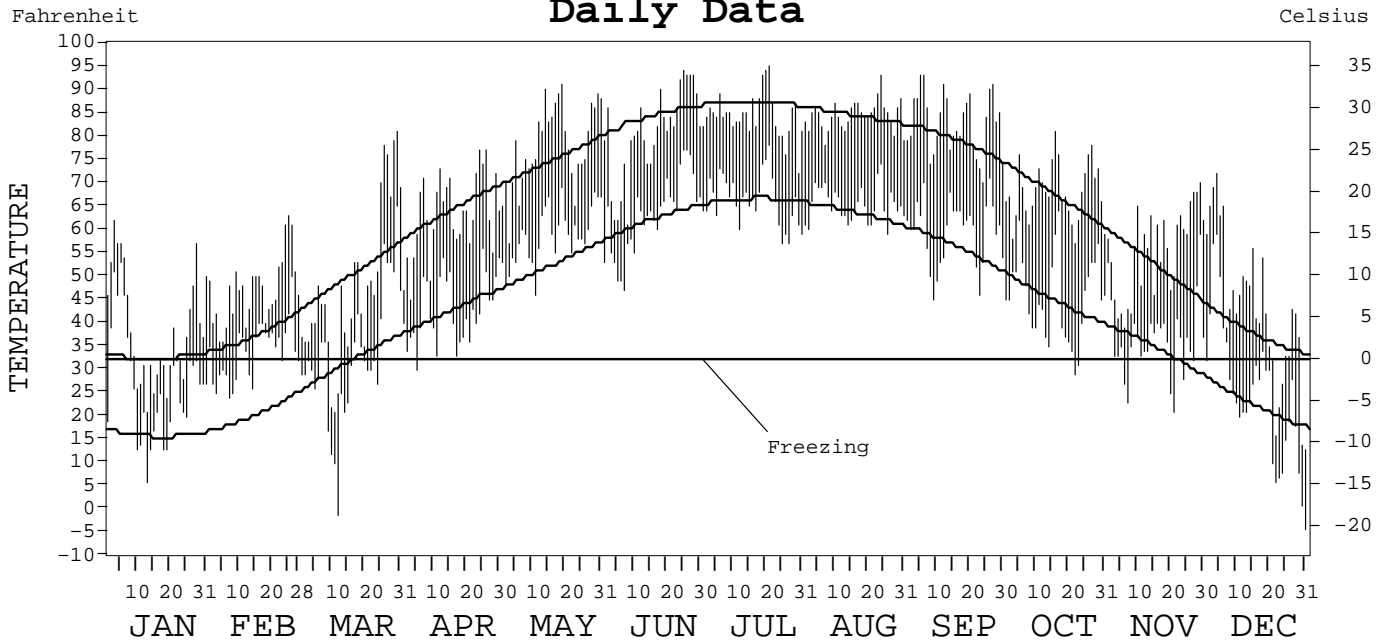
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-1935

## SPRINGFIELD, ILLINOIS (SPI)

### Daily Data



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# METEOROLOGICAL DATA FOR 1998

## SPRINGFIELD, IL (SPI)

LATITUDE: 39° 50' 43" N      LONGITUDE: 89° 41' 02" W      ELEVATION (FT): GRND: 588      BARO: 597      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	38.6	47.0	48.0	63.1	77.8	80.4	84.4	84.4	82.8	68.0	55.4	43.1	64.4	
	HIGHEST DAILY MAXIMUM	62	63	81	77	91	94	95	93	93	81	70	72	95	
	DATE OF OCCURRENCE	03	25	30	26+	19	25	21	24	06+	16	29	04	JUL 21	
	MEAN DAILY MINIMUM	26.7	33.8	32.7	42.8	58.7	63.0	66.3	65.3	59.4	45.4	36.5	24.9	46.3	
	LOWEST DAILY MINIMUM	6	24	-1	30	46	47	57	59	45	29	21	-4	-4	
	DATE OF OCCURRENCE	13	07	12	05	11	07	25+	26	09	22	21	31	DEC 31	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	31.7		37.6	48.1	62.4			70.0	64.4	51.7	41.4			
	MEAN DEW POINT	29.2		33.5	42.5	58.8			67.3	60.2	47.3	35.8			
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	2	6	3	1	5	0	0	0	0	17
	MAXIMUM ≤ 32°	13	0	3	0	0	0	0	0	0	0	0	0	6	22
	MINIMUM ≤ 32°	25	12	19	1	0	0	0	0	0	2	6	24	89	
	MINIMUM ≤ 0°	0	0	1	0	0	0	0	0	0	0	0	1	2	
H/C	HEATING DEGREE DAYS	993	681	768	354	39	27	0	0	17	266	567	953	4675	
	COOLING DEGREE DAYS	0	0	11	0	145	246	327	312	207	15	0	1	1264	
RH	MEAN (PERCENT)	86	82	77	71	75	77	77	80	72	75	71	75	76	
	HOUR 06 LST	88	88	87	83	88	88	87	94	88	91	82	83	87	
	HOUR 12 LST	81	75	69	60	64	66	65	65	56	57	59	65	65	
	HOUR 18 LST	84	80	72	63	64	68	67	71	64	70	68	71	70	
	HOUR 24 LST	89	88	81	80	84	87	89	90	84	86	78	79	85	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	5	2	0	0	1	1	1	2	0	2	0	1	15	
	THUNDERSTORMS	0	0	1	4	10	13	5	4	3	3	2	0	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.)	29.38		29.33	29.26	29.22	29.22	29.36	29.39	29.32	29.49	29.41			
	MEAN SEA-LEVEL PRESS. (IN.)	30.05		30.00	29.92					30.15	30.08				
WINDS	RESULTANT SPEED (MPH)	2.0		1.0		2.7	3.9	0.1	1.4	1.4	1.9	3.8			
	RES. DIR. (TENS OF DEGS.)	21		22		19	21	14	16	20	17	20			
	MEAN SPEED (MPH)	9.5	9.7	12.8	11.1	8.8	8.9	5.9	5.7	6.2	7.5	11.0	8.4	8.8	
	PREVAIL. DIR. (TENS OF DEGS.)	18	01	18	17	18	21	23	21	18	18	18	20	18	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	32	30	40	38	33	38	29	25	24	30	40	33	40	
	DIR. (TENS OF DEGS.)	03	14	20	17	35	34	02	05	18	19	24	20	24	
	DATE OF OCCURRENCE	08	25	28	12	19	29	07	18	14	17	10	18	NOV 10	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	37	36	52	45	41	53	33	32	32	38	53	40	53	
DIR. (TENS OF DEGS.)	02	16	19	16	34	34	02	26	27	19	17	20	17		
DATE OF OCCURRENCE	08+	26+	28	12	19	29	07	18	29	17	10	18	NOV 10		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.93	1.13	1.16	1.32	0.99	1.75	2.15	3.09	0.54	1.09	1.39	0.27	3.09	
	DATE OF OCCURRENCE	07-08	10-11	16-17	28-29	02-03	11	07	18	24-25	16-17	02-03	18-19	AUG 18	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	9	8	15	12	14	15	8	5	9	11	7	6	119	
PRECIPITATION ≥ 0.10	7	5	9	7	10	13	4	3	5	7	6	3	79		
PRECIPITATION ≥ 1.00	0	0	2	0	0	4	1	2	0	0	1	0	10		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	3.5	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	2.5	12.9	
	GREATEST 24-HOUR (IN.)	1.6	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	2.5	4.7	
	DATE OF OCCURRENCE	08		09								07+	30	MAR 09	
	MAXIMUM SNOW DEPTH (IN.)	3	0	4	0	0	0	0	0	0	0	0	3	4	
	DATE OF OCCURRENCE	01		10									31	MAR 10	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	2	0	2	0	0	0	0	0	0	0	0	1	5		

# NORMALS, MEANS, AND EXTREMES

## SPRINGFIELD, IL (SPI)

LATITUDE: 39° 50' 43" N      LONGITUDE: 89° 41' 02" W      ELEVATION (FT): GRND: 588      BARO: 597      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	32.5	37.2	50.0	63.9	74.7	83.9	86.9	84.2	78.7	66.8	51.7	37.3	62.3
	MEAN DAILY MAXIMUM	98	34.5	38.5	50.3	63.3	74.3	83.7	87.7	85.4	78.7	67.0	51.0	38.3	62.7
	HIGHEST DAILY MAXIMUM	51	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	1954	1950	1984	JUL 1954
	MEAN OF EXTREME MAXS.	98	56.5	60.9	75.0	83.0	89.2	95.3	97.6	95.7	92.3	84.5	71.9	60.4	80.2
	NORMAL DAILY MINIMUM	30	15.9	20.2	31.6	42.5	52.3	61.9	66.1	63.3	55.9	44.4	34.0	21.9	42.5
	MEAN DAILY MINIMUM	98	19.0	22.3	32.0	42.6	53.1	62.6	66.7	64.7	56.9	45.7	33.9	23.5	43.6
	LOWEST DAILY MINIMUM	51	-21	-22	-12	19	28	40	48	43	32	17	-3	-21	-22
	YEAR OF OCCURRENCE		1985	1963	1960	1997	1966	1966	1975	1986	1995	1952	1964	1989	FEB 1963
	MEAN OF EXTREME MINS.	98	-3.7	0.5	13.4	27.5	38.0	48.9	55.3	52.5	40.7	29.4	16.4	1.9	26.7
	NORMAL DRY BULB	30	24.2	28.7	40.8	53.2	63.5	72.9	76.5	73.7	67.3	55.6	42.9	29.7	52.4
	MEAN DRY BULB	98	26.8	30.3	41.1	53.0	63.6	73.1	77.2	75.0	67.8	56.4	42.4	30.9	53.1
	MEAN WET BULB	14	25.6	28.2	37.9	47.5	57.6	65.9	64.7	68.2	60.5	46.2	36.4	26.9	47.1
	MEAN DEW POINT	14	21.0	23.2	32.0	40.8	48.0	61.4	61.5	64.9	55.9	40.8	31.9	22.8	42.0
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	*	2.1	7.6	11.1	6.7	3.1	0.1	0.0	0.0	30.7	
MAXIMUM ≤ 32°	30	14.8	9.7	2.5	*	0.0	0.0	0.0	0.0	0.0	0.0	1.0	9.9	37.9	
MINIMUM ≤ 32°	30	28.1	23.6	17.1	4.3	0.2	0.0	0.0	0.0	*	3.6	14.5	25.3	116.7	
MINIMUM ≤ 0°	30	4.9	2.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	2.1	9.7	
H/C	NORMAL HEATING DEG. DAYS	30	1265	1016	750	361	166	7	0	8	44	314	663	1094	5688
	NORMAL COOLING DEG. DAYS	30	0	0	0	7	120	244	357	278	113	22	0	0	1141
RH	NORMAL (PERCENT)	30	74	74	71	65	66	67	70	74	72	68	74	78	71
	HOUR 06 LST	30	77	78	77	72	75	77	80	84	82	76	78	80	78
	HOUR 12 LST	30	78	80	81	79	80	82	85	89	88	83	83	83	83
	HOUR 18 LST	30	68	67	63	56	54	54	57	60	56	54	65	72	60
	HOUR 24 LST	30	71	71	65	56	55	55	59	64	63	62	70	76	64
S	PERCENT POSSIBLE SUNSHINE	48	48	52	51	56	63	68	71	70	68	63	48	44	58
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	51	2.7	2.6	1.9	0.9	0.9	0.4	0.7	1.2	1.1	1.0	1.5	2.5	17.4
	THUNDERSTORMS	51	0.5	0.7	2.5	5.2	7.0	7.9	8.4	6.7	4.3	2.4	1.6	0.6	47.8
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESSURE (IN)	25	29.46	29.44	29.34	29.31	29.30	29.30	29.34	29.40	29.40	29.41	29.41	29.45	29.38
	MEAN SEA-LEVEL PRES. (IN)	14	30.12	30.12	30.04	29.95	29.96	29.95	29.98	30.02	30.04	30.07	30.07	30.13	30.04
WINDS	MEAN SPEED (MPH)	39	12.4	12.1	13.4	12.9	10.9	9.5	8.2	7.7	8.8	10.3	12.5	12.1	10.9
	PREVAIL. DIR (TENS OF DEGS)	24	18	18	18	18	18	18	18	18	18	18	18	18	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	3	39	36	46	51	39	43	33	36	32	38	40	33	51
	DIR. (TENS OF DEGS)		25	29	25	25	26	16	30	23	28	26	24	20	25
	YEAR OF OCCURRENCE		1996	1996	1996	1997	1996	1996	1996	1997	1997	1996	1998	1998	APR 1997
	MAXIMUM 5-SECOND:														
SPEED (MPH)	3	48	43	53	60	48	53	44	51	44	53	53	43	60	
DIR. (TENS OF DEGS)		14	27	25	25	15	34	28	24	28	25	17	24	25	
YEAR OF OCCURRENCE		1996	1996	1996	1997	1997	1998	1996	1997	1997	1996	1998	1996	APR 1997	
PRECIPITATION	NORMAL (IN)	30	1.51	1.77	3.24	3.68	3.62	3.43	3.52	3.29	3.33	2.60	2.53	2.73	35.25
	MAXIMUM MONTHLY (IN)	51	5.67	4.89	7.89	9.91	10.72	9.22	10.76	8.37	8.57	6.41	6.94	8.94	10.76
	YEAR OF OCCURRENCE		1949	1990	1973	1964	1996	1990	1981	1981	1986	1991	1985	1982	JUL 1981
	MINIMUM MONTHLY (IN)	51	0.04	0.51	0.63	0.73	0.52	0.23	0.89	0.46	T	0.16	0.43	0.15	T
	YEAR OF OCCURRENCE		1986	1995	1956	1971	1992	1959	1997	1992	1979	1964	1949	1955	SEP 1979
	MAXIMUM IN 24 HOURS (IN)	51	2.78	2.54	2.84	4.45	3.95	4.73	4.43	4.79	5.12	3.51	2.46	6.12	6.12
	YEAR OF OCCURRENCE		1975	1990	1972	1979	1990	1958	1981	1956	1959	1973	1964	1982	DEC 1982
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	8.8	8.4	11.8	11.1	9.9	9.4	8.5	8.3	8.4	8.1	9.5	10.5	112.7	
PRECIPITATION ≥ 1.00	30	0.2	0.3	0.8	1.0	0.9	0.7	0.9	0.9	1.0	0.7	0.5	0.6	8.5	
SNOWFALL	NORMAL (IN)	30	7.0	7.2	3.8	0.7	T	0.0	0.0	0.0	0.0	0.*	1.8	5.7	26.2
	MAXIMUM MONTHLY (IN)	51	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)	51	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)	97	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	1.9	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	7.9	

PRECIPITATION (inches) 1998 SPRINGFIELD, IL (SPI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	2.50	1.96	2.00	5.35	0.96	2.68	4.60	2.34	3.97	5.80	1.13	1.39	34.68
1970	0.54	0.67	1.99	9.10	2.26	4.68	2.55	4.20	7.73	2.50	0.70	1.33	38.25
1971	1.24	2.36	1.18	0.73	3.59	0.96	5.96	1.06	3.76	0.99	1.41	4.38	27.62
1972	1.03	0.82	4.03	3.35	1.88	2.72	1.70	4.52	3.95	1.40	3.27	3.36	32.03
1973	1.31	0.84	7.89	5.29	2.62	7.29	3.36	1.66	3.28	5.46	1.43	3.86	44.29
1974	2.61	3.15	3.39	3.11	6.37	5.00	0.91	7.70	2.17	1.39	3.58	1.44	40.82
1975	4.28	3.63	1.91	2.89	5.90	4.38	2.71	3.34	2.84	1.37	2.50	1.91	37.66
1976	0.98	3.67	5.60	1.07	1.96	1.41	2.29	2.33	2.20	3.00	0.53	0.66	25.70
1977	1.51	1.21	5.09	2.78	5.78	4.26	1.16	5.95	5.94	5.16	1.63	2.24	42.71
1978	0.72	0.83	4.20	2.84	5.81	1.73	2.99	4.04	1.58	1.57	2.13	3.39	31.83
1979	1.90	1.09	3.75	7.17	1.32	0.94	4.63	2.85	T	1.34	1.98	2.36	29.33
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	0.72	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
POR= 119 YRS	1.92	2.00	3.06	3.55	4.11	3.96	3.18	3.02	3.26	2.59	2.52	2.08	35.25

WBAN : 93822

AVERAGE TEMPERATURE (°F) 1998 SPRINGFIELD, IL (SPI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	23.4	31.5	32.6	54.6	64.2	70.7	77.9	74.0	66.4	54.0	39.7	28.2	51.4
1970	17.9	28.7	37.9	54.7	66.5	71.5	76.4	74.0	69.2	56.2	41.7	34.0	52.4
1971	23.7	30.7	39.1	54.4	60.4	79.0	72.4	72.5	71.2	62.9	43.8	38.5	54.1
1972	24.4	29.0	40.8	52.5	64.7	70.5	75.9	73.8	68.7	52.9	38.3	26.7	51.5
1973	29.7	30.7	48.3	51.9	59.6	73.2	76.0	76.0	69.8	60.7	45.5	28.0	54.1
1974	26.1	32.6	44.2	54.8	61.6	68.3	78.8	72.9	61.9	55.8	42.2	32.7	52.7
1975	31.1	29.4	37.4	50.4	66.5	73.6	74.7	76.6	63.8	57.7	47.1	33.4	53.5
1976	23.5	39.6	45.4	55.0	59.7	72.4	77.4	71.6	65.2	49.4	34.6	24.1	51.5
1977	10.3	29.5	47.6	59.9	71.0	71.6	79.4	72.8	68.6	53.8	42.8	27.0	52.9
1978	15.6	16.7	33.6	53.9	62.3	74.2	76.3	73.1	70.9	53.7	45.2	31.4	50.6
1979	12.4	17.1	40.3	50.4	64.0	74.9	75.4	74.0	67.7	55.7	42.0	35.8	50.8
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
POR= 119 YRS	26.9	30.3	40.9	53.2	63.7	73.1	77.2	74.9	67.8	56.4	42.3	31.3	53.2

HEATING DEGREE DAYS (base 65°F) 1998 SPRINGFIELD, IL (SPI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0	0	59	370	748	1135	1457	1013	830	332	83	26	6053
1970-71	0	1	41	281	690	952	1275	952	793	342	168	0	5495
1971-72	9	1	65	130	633	820	1253	1040	745	375	114	27	5212
1972-73	3	11	58	375	795	1181	1089	957	512	398	174	0	5553
1973-74	0	0	30	191	578	1140	1200	901	642	316	167	29	5194
1974-75	0	2	135	299	680	996	1044	992	848	435	63	7	5501
1975-76	10	0	125	253	528	973	1280	732	601	321	188	2	5013
1976-77	0	3	84	497	905	1260	1693	989	532	222	44	12	6241
1977-78	0	2	21	340	661	1172	1521	1348	968	334	186	4	6557
1978-79	0	0	36	349	591	1035	1627	1336	758	435	119	0	6286
1979-80	0	9	50	323	684	898	1146	1249	857	421	95	8	5740
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-	0	0	17	266	567	953							

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COOLING DEGREE DAYS (base 65°F) 1998 SPRINGFIELD, IL (SPI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	0	6	110	206	407	288	108	37	0	0	1162
1970	0	0	0	31	136	229	361	284	174	17	0	0	1232
1971	0	0	0	32	33	425	248	241	254	69	2	0	1304
1972	0	0	0	6	114	199	347	291	178	10	0	0	1145
1973	0	0	0	12	12	251	350	348	184	64	0	0	1221
1974	0	0	7	14	70	136	437	252	49	17	2	0	984
1975	0	0	0	2	115	271	315	367	94	36	0	0	1200
1976	0	0	3	28	34	228	393	214	98	23	0	0	1021
1977	0	0	0	76	238	217	452	251	134	0	1	0	1369
1978	0	0	1	8	107	289	358	258	222	5	5	0	1253
1979	0	0	0	2	93	305	327	295	138	41	0	0	1201
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

SNOWFALL (inches) 1998 SPRINGFIELD, IL (SPI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0.0	0.0	0.0	0.0	0.5	10.2	7.0	3.9	4.3	1.1	0.0	0.0	27.0
1970-71	0.0	0.0	0.0	0.0	T	0.9	4.2	3.4	0.7	3.8	0.0	0.0	13.0
1971-72	0.0	0.0	0.0	0.0	4.4	T	8.1	6.0	3.6	T	0.0	0.0	22.1
1972-73	0.0	0.0	0.0	0.0	5.4	3.1	0.6	3.1	0.3	0.9	0.0	0.0	13.4
1973-74	0.0	0.0	0.0	0.0	1.3	22.7	7.3	5.3	4.4	0.4	0.0	0.0	41.4
1974-75	0.0	0.0	0.0	0.0	6.8	2.5	4.5	14.2	4.5	0.4	0.0	0.0	32.9
1975-76	0.0	0.0	0.0	0.0	8.5	4.3	8.5	2.1	2.2	0.0	0.0	0.0	25.6
1976-77	0.0	0.0	0.0	T	T	6.9	21.1	8.9	0.6	1.1	0.0	0.0	38.6
1977-78	0.0	0.0	0.0	0.0	6.4	8.9	8.9	9.4	18.5	T	0.0	0.0	52.1
1978-79	0.0	0.0	0.0	0.0	T	3.2	15.9	4.6	8.1	T	0.0	0.0	31.8
1979-80	0.0	0.0	0.0	0.0	0.8	0.1	5.1	11.7	5.5	7.3	0.0	0.0	30.5
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-	0.0	0.0	0.0	0.0	T	2.5							
POR= 50 YRS	T	0.0	0.0	0.0	1.7	4.9	6.0	5.9	3.8	0.7	T	0.0	23.0

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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. NORMALS ARE 30-YEAR AVERAGES (1961 - 1990). 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.</p>	<p>GENERAL CONTINUED: 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. 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.</p> <p>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.</p>
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1998  
SPRINGFIELD,  
ILLINOIS (SPI)

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.

# STATION LOCATION

SPRINGFIELD, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUCI O M P A T I O N E T I C A L S T A T I O N S *	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS
						SEA LEVEL	GROUND											
							G M O R G E L E V E L	W I N D I N S T R U M E N T	E M E R S O N S E N S I T I V E	E M E R S O N S E N S I T I V E	P R E S S U R E	S U R F A C E	T E R R A I N	R A I N G A G E	W E I G H T			
CITY Springer Building 6th and Monroe	7/1/79	7/28/79	NA	39° 48'	89° 39'	599		44										
Federal Building 6th and Monroe	7/28/79	1/1/06	150 ft. S	39° 48'	89° 39'	599	a 84 92	b 39 82	39			74		c 61 74			a - Effective 6/2/94. b - Effective 5/1/87. c - Effective 10/11/00.	
Weather Bureau Building 7th and Monroe	1/1/06	11/1/28	225 ft. E	39° 48'	89° 39'	598		91	10	10		4		4				
Abe Lincoln Hotel 5th and Capitol	11/1/28	11/1/30	875 ft. SW	39° 48'	89° 39'	588		191	155	155		148		148				
Federal Building 7th and Monroe	11/1/30	4/30/54	800 ft. NE	39° 48'	89° 39'	598		191	5	5		3	d3	e3			Observations at Airport 1/1/48. d - Added 5/5/48. e - Removed 5/49.	
AIRPORT Southwest Airport	11/15/35	11/4/37	NA	39° 45'	89° 41'	602		56	5	5								
Southwest Airport	11/4/37	11/1/47	NA	39° 45'	89° 41'	602		56	5	5			4	4			First Order Station established.	
Capital Airport	11/1/47	3/5/80	6.2 mi. NNE	39° 50'	89° 40'	589 g588	49 i20	6	6	Unk f33 j40	4 g3	4	4	4 g3	NA h4	NA	f - Effective 12/8/56. g - Effective 12/4/58. h - Commissioned 2/1/60. i - Moved to field site 12/8/61. j - Effective 12/18/66.	
Services Building Capital Airport	3/5/80	Present	0.75 mi. N	39° 51'	89° 41'	588	k20 m31	4 n4	4 n4	7 n7	4 n4	4 n4	4 n4	k4 m4 p4	NA	k - Not moved 3/5/80. m - Moved to new site 9/23/80. n - Moved 180 ft. SSW 9/17/82. p - Type change 4/5/85. S ASOS Commissioned 12/01/95		

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