

SPI Weather History

Ref: CEN11FA144

Source: United States Weather Pages (www.uswx.com)

January 6, 2011

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METAR KSPI 060552Z AUTO 23004KT 10SM OVC045 01/M03 A2983 RMK AO2 SLP104 T00061033 10017 21011 400441083 58005
METAR KSPI 060652Z AUTO 25006KT 10SM OVC060 00/M03 A2981 RMK AO2 SLP099 T00001033
METAR KSPI 060752Z AUTO 26007KT 10SM CLR M01/M04 A2980 RMK AO2 SLP096 T10111044
METAR KSPI 060852Z AUTO 26006KT 10SM CLR M02/M06 A2979 RMK AO2 SLP093 T10221056 56011
METAR KSPI 060952Z AUTO 27008KT 10SM CLR M02/M06 A2979 RMK AO2 SLP092 T10171056
SPECI KSPI 061019Z AUTO 28006KT 10SM BKN023 M02/M05 A2979 RMK AO2
METAR KSPI 061052Z AUTO 27005KT 10SM OVC021 M01/M04 A2979 RMK AO2 SLP093 T10111044
METAR KSPI 061152Z 30008KT 10SM OVC021 M01/M04 A2977 RMK AO2 SLP087 T10061039 10006 21028 58007
METAR KSPI 061252Z 30013G18KT 10SM OVC017 M01/M04 A2976 RMK AO2 SLP084 T10061044
METAR KSPI 061352Z 30008KT 10SM OVC017 M01/M05 A2978 RMK AO2 SLP091 T10111050
METAR KSPI 061452Z 30012KT 10SM OVC015 M02/M06 A2979 RMK AO2 SLP094 T10171056 53007
METAR KSPI 061552Z 32012KT 9SM OVC015 M02/M06 A2980 RMK AO2 SLP096 T10171056
METAR KSPI 061652Z 30014G19KT 10SM OVC016 M02/M06 A2978 RMK AO2 SLP090 T10171056
SPECI KSPI 061715Z 31012G20KT 9SM OVC016 M02/M06 A2977 RMK AO2
METAR KSPI 061752Z 29008KT 9SM -SN BKN016 OVC022 M01/M05 A2975 RMK AO2 SNB24 SLP081 P0000 60000 T10111050 11006 21022 58013
METAR KSPI 061852Z 28010G17KT 9SM -SN BKN020 OVC025 M01/M05 A2974 RMK AO2 SLP075 P0000 T10061050
METAR KSPI 061952Z 31009KT 9SM -SN OVC025 00/M06 A2973 RMK AO2 SLP072 P0000 T00001056

U.S. Department of Commerce
National Oceanic & Atmospheric Administration

**QUALITY CONTROLLED LOCAL
CLIMATOLOGICAL DATA**
(final)
HOURLY OBSERVATIONS TABLE
ABRAHAM LINCOLN CAPITAL AIRPORT (93822)
SPRINGFIELD , IL
(01/2011)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

Elevation: 590 ft. above sea level
Latitude: 39.845
Longitude: -89.684
Data Version: VER3

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti-meter (in. hg)
						(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
06	0052	11	OVC060	10.00		32	0.0	30	-1.2	26	-3.3	79	7	250		29.15			29.82	AA		29.81
06	0152	11	CLR	10.00		30	-1.1	28	-2.2	24	-4.4	78	8	260		29.14			29.81	AA		29.80
06	0252	11	CLR	10.00		28	-2.2	26	-3.3	22	-5.6	78	7	260		29.13	6	011	29.80	AA		29.79
06	0352	11	CLR	10.00		29	-1.7	27	-3.0	22	-5.6	75	9	270		29.13			29.80	AA		29.79
06	0419	11	BKN023	10.00		28	-2.0	26	-3.1	23	-5.0	82	7	280		29.13			M	SP		29.79
06	0452	11	OVC021	10.00		30	-1.1	28	-2.2	24	-4.4	78	6	270		29.13			29.80	AA		29.79
06	0552	11	OVC021	10.00		31	-0.6	29	-1.7	25	-3.9	78	9	300		29.11	8	007	29.79	AA		29.77
06	0652	11	OVC017	10.00		31	-0.6	28	-1.9	24	-4.4	75	15	300	21	29.10			29.78	AA		29.76
06	0752	11	OVC017	10.00		30	-1.1	28	-2.4	23	-5.0	75	9	300		29.13			29.80	AA		29.78
06	0852	11	OVC015	10.00		29	-1.7	27	-3.0	22	-5.6	75	14	300		29.13	3	007	29.81	AA		29.79
06	0952	11	OVC015	9.00		29	-1.7	27	-3.0	22	-5.6	75	14	320		29.14			29.81	AA		29.80
06	1052	11	OVC016	10.00		29	-1.7	27	-3.0	22	-5.6	75	16	300	22	29.13			29.80	AA		29.78
06	1115	11	OVC016	9.00		28	-2.0	26	-3.5	21	-6.0	75	14	310	23	29.11			M	SP		29.77
06	1152	11	BKN016 OVC022	9.00	-SN	30	-1.1	28	-2.4	23	-5.0	75	9	290		29.10	8	013	29.77	AA	T	29.75
06	1252	11	BKN020 OVC025	9.00	-SN	31	-0.6	28	-2.1	23	-5.0	72	11	280	20	29.08			29.75	AA	T	29.74
06	1352	11	OVC025	9.00	-SN	32	0.0	28	-1.9	22	-5.6	67	10	310		29.08			29.74	AA	T	29.73
06	1452	11	BKN027 BKN032 OVC060	9.00		32	0.0	28	-2.1	21	-6.1	64	15	290	21	29.08			29.76	AA	T	29.74
06	1534	11	BKN032 BKN044 OVC060	10.00		32	0.0	28	-2.1	21	-6.0	64	15	290		29.10			M	SP		29.75
06	1552	11	BKN032 BKN044 OVC060	10.00		32	0.0	28	-2.1	21	-6.1	64	11	290		29.08			29.76	AA		29.74
06	1652	11	SCT055	10.00		31	-0.6	28	-2.4	21	-6.1	66	11	300		29.10			29.76	AA		29.75
06	1752	11	OVC048	10.00		31	-0.6	28	-2.4	21	-6.1	66	10	300		29.08			29.76	AA		29.74
06	1852	11	OVC044	10.00		31	-0.6	28	-2.3	22	-5.6	69	9	290		29.10			29.76	AA		29.75
06	1947	11	BKN029 OVC042	10.00		30	-1.0	27	-2.8	21	-6.0	69	7	290		29.08			M	SP		29.74
06	1952	11	BKN027 OVC042	10.00		30	-1.1	27	-2.6	22	-5.6	72	7	290		29.08			29.76	AA		29.74
06	2050	11	SCT029 OVC040	10.00		30	-1.0	27	-2.8	21	-6.0	69	9	270		29.05			M	SP		29.71
06	2052	11	SCT029 OVC040	10.00		30	-1.1	27	-2.6	22	-5.6	72	9	270		29.05			29.76	AA		29.71
06	2152	11	OVC034	10.00		30	-1.1	28	-2.4	23	-5.0	75	7	270		29.03	8	014	29.72	AA		29.68
06	2252	11	OVC034	10.00		30	-1.1	28	-2.4	23	-5.0	75	7	270		29.02			29.68	AA		29.67
06	2352	11	OVC032	10.00		30	-1.1	28	-2.2	24	-4.4	78	3	280		28.99	8	023	29.65	AA		29.64

Dynamically generated Wed Mar 23 12:54:37 EDT 2011 via <http://cdo.ncdc.noaa.gov/qclcd/QCLCD>

From OM1 file:

93822KSPI SPI2011010610551655	0.195 D	305	13	314	15
93822KSPI SPI2011010610561656	0.197 D	306	14	308	16
93822KSPI SPI2011010610571657	0.192 D	309	14	308	18
93822KSPI SPI2011010610581658	0.190 D	310	15	312	19
93822KSPI SPI2011010610591659	0.190 D	303	13	306	14
93822KSPI SPI2011010611001700	0.196 D	292	11	285	14
93822KSPI SPI2011010611011701	0.201 D	289	12	284	15
93822KSPI SPI2011010611021702	0.201 D	294	12	296	14
93822KSPI SPI2011010611031703	0.201 D	298	11	292	17
93822KSPI SPI2011010611041704	0.202 D	295	12	283	17
93822KSPI SPI2011010611051705	0.204 D	297	12	312	14
93822KSPI SPI2011010611061706	0.213 D	306	13	315	20

From OM2 file:

93822KSPI SPI2011010610551655	?3 [0000] 0.00	39975	29.149	29.144	29.150	29	22
93822KSPI SPI2011010610561656	?3 [0000] 0.00	39975	29.149	29.144	29.149	29	22
93822KSPI SPI2011010610571657	P? [0000] 0.00	39975	29.149	29.143	29.149	29	22
93822KSPI SPI2011010610581658	NP [0000] 0.00	39975	29.148	29.143	29.148	29	22
93822KSPI SPI2011010610591659	P? [0000] 0.00	39975	29.147	29.142	29.147	29	22
93822KSPI SPI2011010611001700	NP [0000] 0.00	39975	29.146	29.140	29.146	29	22
93822KSPI SPI2011010611011701	?3 [0000] 0.00	39975	29.145	29.140	29.145	29	22
93822KSPI SPI2011010611021702	?3 [0000] 0.00	39975	29.146	29.141	29.146	29	22
93822KSPI SPI2011010611031703	?3 [0000] 0.00	39975	29.146	29.141	29.147	29	22
93822KSPI SPI2011010611041704	?3 [0000] 0.00	39975	29.147	29.142	29.147	29	22
93822KSPI SPI2011010611051705	?3 [0000] 0.00	39975	29.147	29.141	29.147	29	22
93822KSPI SPI2011010611061706	?3 [0000] 0.00	39975	29.147	29.141	29.147	29	22

SPI One-Minute ASOS Data:

01/06/2011 1101cst/1701UTC

2-minute averaged wind: 289 deg at 12 knots;

5-second max wind: 284 deg at 15 knots;

1-minute average temp: 29;

1-minute average dew point: 22.

Sample and explanation of ASOS 1-min DS6405(page1) . Some elements remain unknown due to lack of complete documentation for this dataset. Documentation for the obsolete DS3285 1-Min ASOS is useful in explaining some of the terms. However, it will not match the output format you have. See the documentation at <http://wwl.ncdc.noaa.gov/pub/data/documentlibrary/tddoc/td3285.pdf>

station id	yr	mo	day	time	vsby	extinction	coefficient	2 min avg wind		5 sec max wind		rvr
				local utc				dir	speed(kts)	dir	speed(kts)	100's ft
93721KBWI	BWI	2003	09	01	0008	0508	0.148 N	0.138 N	153	5	151	6 10 60+
93721KBWI	BWI	2003	09	01	0009	0509	0.148 N	0.138 N	150	5	143	6 10 60+

93771 KBWI Station WBAN # and 4 letter call sign
 BWI2003090100080508 station BWI yr 2003 month 09 day 01 time 0008EST 0508UTC
 0.148 N Visibility extinction coefficient for 1st sensor N=Night see DS3285 DCO
 0.138 N Visibility extinction coefficient for 2nd sensor N=Night "
 153 Direction of 2min avg wind reading for each minute 153 degrees
 5 Speed of 2min avg wind reading for each minute 5knots
 151 Direction of max 5 sec avg wind speed for each minute 151 degrees
 6 Speed of max 5 sec avg wind speed for each minute 6 knots
 10 unknown
 60+ Runway Visual Range in hundreds of feet RVR is 6000ft plus

Sample and explanation of ASOS 1-min DS6406(page 2). Some elements remain unknown due to lack of complete documentation for this dataset. Documentation for the obsolete DS3285 1-Min ASOS is useful in explaining some of the terms. However, it will not match the output format you have. See the documentation at <http://wwl.ncdc.noaa.gov/pub/data/documentlibrary/tddoc/td3285.pdf>

station id	yr mo day time	pcpn id	pcpn amt	pressure/3 sensors	avg temp
	local utc		hundredths inch		avg dew pt
				zr sensor freq	
03856KHSV	HSV2004090100000600	NP	0.00	39979 29.447 29.453 29.452	67 65
03856KHSV	HSV2004090100010601	NP	0.00	39979 29.446 29.453 29.452	67 65

03856KHSV Station WBAN # and 4 letter call sign
 HSV2004090100000600 Station HSV yr 2004 month 09 day 01 time 0000EST 0600UTC
 NP Precipitation identifier no precip Could be R rain S snow...intensity - or +
 0.00 Precipitation amount in hundredths of inch
 39979 Frozen precipitation sensor frequency ???
 29.447 29.453 29.452 Pressure from the 3 sensors Station Pressure in inches Hg.
 67 Avg 1-min dry bulb temp
 65 avg 1-min dew point temp

Note: Once every 24 hrs the dewpoint sensor undergoes a heat cycle. For about 9 minutes the dewpoint will read unusually high with respect to the current weather situation.

SECTION 13.
Weather Products

Procomm Plus Ready!

~4451609.txt

ENTER ACCESS CODE:
CONNECTED TO ABRAHAM LINCOLN CAPITAL ARPT(SPI)

CMD>5MIN 0106 900 0106 1715
ILLEGAL DATE/TIME/CODE/RANGE SPECIFIED.

CMD>5MIN 0106 0900 0106 1120
LISTING 5MINS FROM: 01/06/2011 09:00 THRU 01/06/2011 11:20
01/06/11 09:00:31 5-MIN KSPI 061500Z 29009KT 10SM OVC015 M02/M06 A2979 720
75 -1100 280/09 RMK AO2
01/06/11 09:05:31 5-MIN KSPI 061505Z 31009KT 10SM OVC015 M02/M06 A2979 720
75 -1100 300/09 RMK AO2
01/06/11 09:10:31 5-MIN KSPI 061510Z 31014G19KT 10SM OVC017 M02/M06 A2979
720 75 -1100 300/14G19 RMK AO2
01/06/11 09:15:31 5-MIN KSPI 061515Z 32011G19KT 10SM OVC017 M02/M06 A2979
720 75 -1100 310/11G19 RMK AO2
01/06/11 09:20:31 5-MIN KSPI 061520Z 32013KT 10SM OVC017 M02/M06 A2979 720
75 -1100 310/13 RMK AO2
01/06/11 09:25:31 5-MIN KSPI 061525Z 30014G19KT 10SM OVC017 M02/M06 A2979
720 75 -1100 290/14G19 RMK AO2
01/06/11 09:30:31 5-MIN KSPI 061530Z 30015G21KT 10SM OVC017 M02/M06 A2979
720 75 -1100 290/15G21 RMK AO2
01/06/11 09:35:31 5-MIN KSPI 061535Z 32014G21KT 10SM OVC017 M02/M06 A2979
720 75 -1100 310/14G21 RMK AO2
01/06/11 09:40:31 5-MIN KSPI 061540Z 31012G21KT 10SM OVC017 M02/M06 A2979
720 75 -1100 300/12G21 RMK AO2
01/06/11 09:45:31 5-MIN KSPI 061545Z 31011KT 9SM OVC017 M02/M06 A2979 720
75 -1100 300/11 RMK AO2
01/06/11 09:50:31 5-MIN KSPI 061550Z 31012KT 9SM OVC015 M02/M06 A2979 720
75 -1100 300/12 RMK AO2 SLP095 T10171056
01/06/11 09:55:31 5-MIN KSPI 061555Z 33013KT 9SM OVC015 M02/M06 A2980 710
75 -1100 320/13 RMK AO2
01/06/11 10:00:31 5-MIN KSPI 061600Z 33010G17KT 10SM OVC015 M02/M06 A2980
710 75 -1100 320/10G17 RMK AO2
01/06/11 10:05:31 5-MIN KSPI 061605Z 32011KT 10SM OVC015 M02/M06 A2980 710
75 -1100 320/11 RMK AO2
01/06/11 10:10:31 5-MIN KSPI 061610Z 31010KT 10SM OVC015 M02/M06 A2979 720
75 -1100 300/10 RMK AO2
01/06/11 10:15:31 5-MIN KSPI 061615Z 30010KT 10SM OVC015 M02/M06 A2979 720
78 -1100 290/10 RMK AO2
01/06/11 10:20:31 5-MIN KSPI 061620Z 29010KT 10SM OVC015 M02/M06 A2979 720
75 -1100 280/10 RMK AO2
01/06/11 10:25:31 5-MIN KSPI 061625Z 28009KT 10SM BKN015 OVC021 M02/M06
A2979 720 75 -1100 280/09 RMK AO2
01/06/11 10:30:31 5-MIN KSPI 061630Z 29009KT 10SM OVC018 M02/M06 A2979 720
75 -1100 280/09 RMK AO2
01/06/11 10:35:31 5-MIN KSPI 061635Z 29010KT 10SM OVC018 M02/M06 A2979 720
75 -1100 280/10 RMK AO2
01/06/11 10:40:31 5-MIN KSPI 061640Z 29012G19KT 10SM OVC016 M02/M06 A2978
730 75 -1000 290/12G19 RMK AO2
01/06/11 10:45:31 5-MIN KSPI 061645Z 28012G19KT 10SM OVC016 M02/M06 A2978
730 75 -1000 270/12G19 RMK AO2
01/06/11 10:50:31 5-MIN KSPI 061650Z 30011G18KT 10SM OVC016 M02/M06 A2978
730 75 -1000 290/11G18 RMK AO2 SLP090 T10171056
01/06/11 10:55:31 5-MIN KSPI 061655Z 31013G19KT 10SM OVC016 M02/M06 A2978
730 75 -1000 300/13G19 RMK AO2
01/06/11 11:00:31 5-MIN KSPI 061700Z 29011KT 10SM OVC016 M02/M06 A2978 730
75 -1000 280/11 RMK AO2
01/06/11 11:05:31 5-MIN KSPI 061705Z 30012KT 9SM OVC016 M02/M06 A2978 730
75 -1000 290/12 RMK AO2

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PWA800

~4451609.txt

01/06/11 11:10:31 5-MIN KSPI 061710Z 30012G20KT 9SM OVC016 M02/M06 A2978
730 75 -1000 290/12G20 RMK AO2
01/06/11 11:15:31 5-MIN KSPI 061715Z 31012G20KT 9SM OVC016 M02/M06 A2977
740 75 -1000 300/12G20 RMK AO2 (ACFT MSHP)
01/06/11 11:20:31 5-MIN KSPI 061720Z 31013KT 9SM OVC016 M02/M06 A2977 740
75 -1000 300/13 RMK AO2 (ACFT MSHP)
5MIN LISTING COMPLETE, 29 5MIN(S) LISTED.

CMD>

I certify that the attached copy of the weather data originated from the Lincoln, Illinois National Weather Service on January 6, 2011, and is an accurate copy of the original.



David G. Sammons, Jr.
Air Traffic Manager, Springfield, Illinois ATCT

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PWA800