

# 7119 WSE Edmonton Stony Plain Observations at 12Z 27 Feb 2014

pressure at surface  
(766 m ASL)

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	75									
925.0	705									
918.0	766	-18.3	-21.9	73	0.73	280	5	261.2	263.2	261.3
913.0	807	-15.7	-18.9	76	0.95	273	7	264.2	266.9	264.4
912.0	815	-14.7	-16.9	83	1.12	272	7	265.3	268.5	265.5
908.0	848	-10.3	-17.3	57	1.09	266	9	270.2	273.4	270.4
907.0	857	-9.9	-17.9	52	1.04	265	9	270.7	273.7	270.9
900.3	914	-7.1	-17.8	42	1.06	255	12	274.1	277.3	274.3
897.0	943	-5.7	-17.7	38	1.07	256	11	275.9	279.1	276.1
872.0	1164	-3.3	-25.3	16	0.56	263	7	280.6	282.4	280.7
865.9	1219	-2.9	-24.9	17	0.59	265	6	281.6	283.4	281.7
862.0	1255	-2.7	-24.7	17	0.60	263	6	282.2	284.1	282.3
850.0	1365	-3.3	-26.3	15	0.53	255	8	282.7	284.4	282.8
833.0	1524	-4.0	-27.4	14	0.49	245	12	283.5	285.1	283.6
801.2	1829	-5.5	-29.5	13	0.42	305	17	285.2	286.6	285.2
770.7	2134	-6.9	-31.6	12	0.36	315	16	286.8	288.0	286.9
758.0	2264	-7.5	-32.5	12	0.33	311	19	287.5	288.6	287.6
741.2	2438	-7.7	-34.2	10	0.29	305	24	289.2	290.2	289.2
712.7	2743	-8.0	-37.3	7	0.22	315	32	292.1	292.9	292.1
705.0	2828	-8.1	-38.1	7	0.20	315	33	292.9	293.6	292.9
700.0	2883	-8.1	-37.1	8	0.23	315	34	293.5	294.3	293.5
695.0	2939	-8.1	-33.1	11	0.34	315	34	294.1	295.3	294.1
685.2	3048	-9.0	-32.4	13	0.37	315	35	294.3	295.6	294.4
653.0	3418	-11.9	-29.9	21	0.49	312	31	295.1	296.8	295.2
632.6	3658	-13.6	-31.6	20	0.43	310	29	295.8	297.2	295.9
592.0	4160	-17.3	-35.3	19	0.32	310	31	297.2	298.3	297.2
583.6	4267	-17.7	-36.2	18	0.30	310	32	297.9	299.0	298.0
543.0	4804	-19.9	-40.9	14	0.20	306	36	301.5	302.2	301.6
537.6	4877	-20.4	-39.0	17	0.24	305	37	301.8	302.7	301.9
525.0	5053	-21.5	-34.5	30	0.39	311	39	302.5	303.9	302.6
517.0	5165	-22.5	-25.4	77	0.94	314	41	302.6	305.8	302.8
515.8	5182	-22.6	-25.6	77	0.93	315	41	302.7	305.9	302.9
509.0	5280	-23.1	-26.4	74	0.87	309	43	303.3	306.2	303.4
500.0	5410	-23.7	-37.7	26	0.30	300	45	304.1	305.2	304.1
498.0	5439	-23.9	-46.9	10	0.11	300	45	304.2	304.6	304.2
494.8	5486	-24.1	-43.9	14	0.16	300	46	304.6	305.1	304.6
494.0	5499	-24.1	-43.1	16	0.17	300	46	304.6	305.3	304.7
491.0	5543	-24.3	-33.3	43	0.47	300	46	304.9	306.6	305.0
490.0	5558	-24.3	-35.3	35	0.39	301	46	305.1	306.5	305.2
488.0	5588	-24.5	-33.5	43	0.47	301	46	305.2	306.9	305.3
478.0	5739	-25.5	-28.3	77	0.78	302	45	305.8	308.5	305.9
454.8	6096	-28.4	-32.9	65	0.53	305	44	306.5	308.4	306.6
424.0	6600	-32.5	-39.5	50	0.29	308	46	307.5	308.6	307.6
420.0	6667	-32.9	-43.9	32	0.19	308	46	307.8	308.5	307.9
400.0	7010	-35.9	-40.9	60	0.27	310	47	308.2	309.2	308.3
373.0	7490	-40.3	-42.9	76	0.23	306	50	308.6	309.5	308.7
365.9	7620	-41.2	-43.8	76	0.22	305	51	309.1	310.0	309.2
345.0	8017	-43.9	-46.4	76	0.17	304	53	310.7	311.4	310.8
323.0	8455	-46.9	-51.8	57	0.10	302	55	312.5	312.9	312.5
307.0	8789	-49.3	-51.6	77	0.11	301	56	313.7	314.1	313.7
300.0	8940	-50.3	-53.3	70	0.09	300	57	314.3	314.7	314.4

290.7	9144	-52.1	-55.6	66	0.07	300	58	314.6	314.9	314.6
284.0	9296	-53.5	-57.3	63	0.06	300	58	314.7	315.0	314.7
283.0	9319	-53.7	-58.2	58	0.05	300	58	314.8	315.0	314.8
276.0	9480	-54.5	-64.5	28	0.02	300	59	315.9	316.0	315.9
250.0	10110	-58.7	-73.7	13	0.01	300	60	318.7	318.7	318.7
241.0	10339	-59.9	-73.9	14	0.01	300	58	320.2	320.3	320.2
234.0	10524	-58.7	-73.7	13	0.01	300	62	324.8	324.8	324.8
228.7	10668	-59.2	-73.4	14	0.01	300	66	326.2	326.2	326.2
223.0	10825	-59.7	-73.0	16	0.01	300	66	327.8	327.8	327.8
214.0	11082	-60.5	-72.5	19	0.01	303	56	330.4	330.4	330.4
207.5	11278	-57.2	-75.2	9	0.01	305	48	338.5	338.5	338.5
200.0	11510	-53.3	-78.3	3	0.00	305	48	348.2	348.2	348.2
198.0	11575	-52.1	-78.1	3	0.00	308	48	351.1	351.1	351.1
191.0	11809	-51.5	-80.5	2	0.00	317	47	355.7	355.7	355.7
188.7	11887	-51.6	-80.8	2	0.00	320	47	356.7	356.7	356.7
172.0	12489	-52.7	-82.7	1	0.00	310	45	364.5	364.5	364.5
162.0	12876	-52.5	-82.5	2	0.00	304	43	371.2	371.2	371.2
160.0	12957	-50.3	-81.3	1	0.00	302	43	376.2	376.2	376.2
156.4	13106	-50.1	-81.1	1	0.00	300	42	379.0	379.0	379.0
150.0	13380	-49.7	-80.7	1	0.00	315	39	384.2	384.2	384.2
149.3	13411	-49.6	-80.8	1	0.00	315	39	384.9	384.9	384.9
147.0	13512	-49.3	-81.3	1	0.00	312	41	387.1	387.2	387.1
142.5	13716	-50.5	-82.0	1	0.00	305	46	388.5	388.5	388.5
139.0	13876	-51.5	-82.5	1	0.00	305	44	389.5	389.5	389.5
136.0	14017	-50.3	-81.3	1	0.00	305	42	394.1	394.1	394.1
123.7	14630	-52.2	-82.3	1	0.00	305	34	401.4	401.4	401.4
122.0	14721	-52.5	-82.5	2	0.00	307	35	402.5	402.5	402.5
112.5	15240	-52.7	-82.7	1	0.00	320	38	411.4	411.4	411.4
102.4	15850	-53.0	-83.0	1	0.00	325	25	422.2	422.2	422.2
100.0	16000	-53.1	-83.1	1	0.00	325	25	424.9	424.9	424.9
94.6	16357	-54.5	-83.5	2	0.00	329	25	428.9	428.9	428.9
93.1	16459	-54.4	-83.5	2	0.00	330	25	431.1	431.1	431.1
88.8	16764	-54.0	-83.6	2	0.00	305	26	437.7	437.7	437.7
84.8	17059	-53.7	-83.7	1	0.00	317	25	444.1	444.2	444.1
80.8	17374	-51.4	-82.2	1	0.01	330	24	455.2	455.2	455.2
80.0	17436	-50.9	-81.9	1	0.01	329	23	457.4	457.4	457.4
77.1	17678	-51.9	-82.5	1	0.01	325	18	460.1	460.1	460.1
73.9	17950	-53.1	-83.1	1	0.01	334	18	463.2	463.2	463.2
70.1	18288	-52.1	-83.1	1	0.01	345	19	472.2	472.3	472.2
70.0	18300	-52.1	-83.1	1	0.01	345	19	472.6	472.6	472.6
66.9	18593	-51.0	-82.4	1	0.01	350	12	481.2	481.2	481.2
63.2	18965	-49.5	-81.5	1	0.01	344	14	492.3	492.4	492.3
60.9	19202	-49.8	-81.7	1	0.01	340	15	496.7	496.8	496.7
58.1	19507	-50.3	-81.9	1	0.01	5	10	502.4	502.4	502.4
55.5	19812	-50.7	-82.2	1	0.01	355	4	508.1	508.2	508.1
53.0	20117	-51.2	-82.4	1	0.01	15	10	514.0	514.0	514.0
50.5	20422	-51.6	-82.7	1	0.01	50	10	519.9	519.9	519.9
50.0	20490	-51.7	-82.7	1	0.01	30	10	521.2	521.3	521.2
46.0	21031	-52.1	-82.5	1	0.01	130	10	532.9	533.0	532.9
43.9	21336	-52.3	-82.3	2	0.01	85	14	539.6	539.6	539.6
43.7	21363	-52.3	-82.3	2	0.01	85	14	540.2	540.3	540.2
41.9	21641	-49.5	-81.5	1	0.01	80	17	553.7	553.8	553.7
41.9	21638	-49.5	-81.5	1	0.01	80	17	553.6	553.7	553.6
40.0	21946	-50.4	-81.8	1	0.01	90	6	558.9	559.0	558.9
38.1	22250	-51.3	-82.0	1	0.01	80	22	564.0	564.1	564.0
36.4	22555	-52.2	-82.3	2	0.01	95	20	569.3	569.4	569.3
36.3	22573	-52.3	-82.3	2	0.01	93	20	569.6	569.7	569.6
34.7	22860	-52.1	-82.3	1	0.01	65	21	577.4	577.5	577.4
33.1	23165	-51.8	-82.3	1	0.01	100	28	585.9	586.0	585.9
30.0	23810	-51.3	-82.3	1	0.02	95	33	604.2	604.3	604.2
28.8	24079	-50.2	-81.8	1	0.02	105	48	614.3	614.5	614.3

27.8	24307	-49.3	-81.3	1	0.02	101	46	623.0	623.2	623.0
26.2	24689	-49.5	-81.4	1	0.02	95	42	632.8	633.0	632.8
25.0	24994	-49.8	-81.4	1	0.02	110	52	640.7	641.0	640.8
21.8	25908	-50.3	-81.6	1	0.02	90	56	665.1	665.3	665.1
20.0	26460	-50.7	-81.7	1	0.03	105	62	680.2	680.5	680.2
18.9	26822	-50.3	-81.3	1	0.03	115	52	692.2	692.5	692.2
18.3	27040	-50.1	-81.1	1	0.03	111	56	699.6	699.9	699.6
17.2	27432	-51.4	-81.8	1	0.03	105	64	707.8	708.1	707.8
13.3	29098	-56.7	-84.7	2	0.02	105	54	743.7	744.0	743.7
13.0	29261	-56.3	-84.5	2	0.02	100	50	750.6	750.9	750.6
10.7	30480	-53.0	-82.8	2	0.04	90	54	804.4	804.9	804.4
10.4	30675	-52.5	-82.5	2	0.04	88	56	813.3	813.9	813.4
10.0	30930	-50.3	-81.3	1	0.05	85	59	830.7	831.4	830.7
9.8	31090	-48.8	-80.9	1	0.06	80	58	842.4	843.1	842.4
9.6	31198	-47.7	-80.7	1	0.06	84	61	850.2	851.0	850.3
9.0	31620	-48.6	-81.0	1	0.06	100	71	862.7	863.5	862.8
8.9	31699	-48.7	-81.0	1	0.06	100	71	865.1	865.9	865.1
8.1	32309	-50.0	-81.3	1	0.07	115	56	883.4	884.3	883.5
7.8	32558	-50.5	-81.5	1	0.07	109	49	891.0	891.9	891.0
7.4	32918	-47.9	-80.1	1	0.09	100	38	915.5	916.7	915.5
7.1	33176	-46.1	-79.1	1	0.11	92	41	933.4	934.9	933.4
7.0	33270	-46.1	-79.1	1	0.11	95	40	937.1	938.7	937.2
7.0	33223	-46.1	-79.1	1	0.11	90	42	935.2	936.8	935.3
6.7	33528	-46.5	-79.3	1	0.11	90	46	945.9	947.5	946.0
5.9	34402	-47.9	-79.9	1	0.12			976.3	977.9	976.3

## Station information and sounding indices

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Station identifier: WSE
  Station number: 71119
    Observation time: 140227/1200
      Station latitude: 53.53
        Station longitude: -114.10
          Station elevation: 766.0
            Showalter index: 16.79
              Lifted index: 21.78
                LIFT computed using virtual temperature: 21.81
                  SWEAT index: 61.01
                    K index: -34.90
                      Cross totals index: -2.60
                        Vertical totals index: 20.40
                          Totals totals index: 17.80
                            Convective Available Potential Energy: 0.00
                              CAPE using virtual temperature: 0.00
                                Convective Inhibition: 0.00
                                  CINS using virtual temperature: 0.00
                                    Bulk Richardson Number: 0.00
                                      Bulk Richardson Number using CAPV: 0.00
                                        Temp [K] of the Lifted Condensation Level: 249.53
                                          Pres [hPa] of the Lifted Condensation Level: 707.05
                                            Mean mixed layer potential temperature: 275.56
                                              Mean mixed layer mixing ratio: 0.84
                                                1000 hPa to 500 hPa thickness: 5335.00
                                                  Precipitable water [mm] for entire sounding: 2.57

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Description of the [data columns](#) or [sounding indices](#).

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Questions about the weather data provided by this site can be addressed to [Larry Oolman \(ldoolman@uwyo.edu\)](mailto:ldoolman@uwyo.edu)

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