

71119 WSE Edmonton Stony Plain Observations at 12Z 27 Jan 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	71									
925.0	719									
920.0	766	1.2	0.3	94	4.27	30	4	281.0	293.0	281.7
903.2	914	1.4	1.0	98	4.58	50	14	282.6	295.6	283.4
899.0	951	1.4	1.2	99	4.66	63	14	283.0	296.3	283.8
877.0	1151	4.0	-2.0	65	3.78	136	11	287.7	298.8	288.4
869.6	1219	4.0	-1.7	66	3.89	160	10	288.4	299.9	289.1
850.0	1404	4.0	-1.0	70	4.20	165	23	290.3	302.7	291.1
837.5	1524	3.5	-2.1	67	3.93	165	25	291.0	302.7	291.7
830.0	1598	3.2	-2.8	65	3.77	166	22	291.5	302.7	292.1
807.0	1826	4.0	-3.0	60	3.82	170	13	294.7	306.2	295.3
806.7	1829	4.0	-3.0	60	3.81	170	13	294.7	306.2	295.4
776.6	2134	1.8	-4.0	65	3.66	255	15	295.6	306.7	296.2
747.7	2438	-0.3	-5.1	70	3.52	275	22	296.4	307.2	297.1
719.8	2743	-2.5	-6.1	76	3.37	275	29	297.3	307.6	297.9
700.0	2967	-4.1	-6.9	81	3.27	275	36	297.9	308.0	298.5
692.8	3048	-4.7	-7.4	82	3.19	260	43	298.1	307.9	298.7
640.6	3658	-9.5	-11.0	89	2.60	275	48	299.5	307.6	299.9
636.0	3715	-9.9	-11.3	89	2.55	274	46	299.6	307.6	300.1
615.9	3962	-10.9	-11.7	94	2.54	270	38	301.1	309.2	301.6
613.0	3998	-11.1	-11.8	95	2.54	272	38	301.4	309.4	301.8
591.8	4267	-12.9	-13.6	94	2.27	285	42	302.3	309.6	302.7
572.0	4526	-14.7	-15.4	94	2.03	285	43	303.2	309.7	303.6
568.5	4572	-15.0	-16.0	92	1.94	285	43	303.3	309.6	303.7
545.9	4877	-17.3	-19.9	80	1.45	280	45	304.2	309.0	304.4
532.0	5070	-18.7	-22.4	73	1.20	277	48	304.7	308.7	304.9
503.0	5486	-20.9	-23.7	78	1.13	270	53	307.0	310.9	307.2
500.0	5530	-21.1	-23.8	79	1.13	270	57	307.2	311.1	307.5
484.0	5770	-22.9	-25.0	83	1.04	268	65	307.9	311.5	308.1
462.8	6096	-24.1	-26.4	82	0.97	265	76	310.4	313.7	310.5
443.9	6401	-25.3	-27.6	81	0.90	265	93	312.6	315.8	312.8
440.0	6465	-25.5	-27.9	80	0.88	265	93	313.1	316.2	313.3
400.0	7150	-30.7	-34.1	72	0.54	260	95	315.0	317.0	315.1
373.8	7620	-34.5	-38.0	70	0.39	265	89	316.1	317.6	316.2
323.0	8634	-42.7	-46.4	67	0.18	265	98	318.3	319.0	318.3
300.0	9130	-45.9	-50.5	60	0.12	265	102	320.6	321.1	320.6
299.4	9144	-46.0	-50.6	59	0.12	265	102	320.6	321.1	320.6
281.0	9562	-49.1	-54.1	56	0.09	265	108	322.0	322.4	322.0

250.0	10320	-54.7	-58.6	62	0.06	265	120	324.6	324.9	324.6
248.3	10363	-55.0	-58.9	62	0.05	265	121	324.8	325.0	324.8
246.0	10422	-55.5	-59.2	63	0.05	265	121	324.9	325.2	324.9
239.0	10605	-56.9	-60.4	64	0.05	265	119	325.5	325.7	325.5
236.6	10668	-57.5	-61.0	64	0.04	265	118	325.6	325.8	325.6
224.0	11011	-60.5	-64.4	60	0.03	267	112	326.1	326.2	326.1
205.0	11557	-62.9	-66.8	59	0.02	270	102	330.7	330.8	330.7
201.0	11679	-60.1	-66.1	45	0.03	270	95	336.9	337.1	337.0
200.0	11710	-60.1	-67.1	39	0.02	270	93	337.4	337.5	337.4
193.0	11933	-58.1	-73.1	13	0.01	271	88	344.1	344.1	344.1
178.0	12445	-55.3	-80.3	3	0.00	275	78	356.7	356.7	356.7
176.6	12497	-55.4	-80.7	3	0.00	275	77	357.4	357.4	357.4
173.0	12627	-55.7	-81.7	3	0.00	271	74	359.0	359.0	359.0
168.3	12802	-53.3	-82.1	2	0.00	265	70	365.8	365.9	365.8
168.0	12814	-53.1	-82.1	2	0.00	265	70	366.3	366.3	366.3
154.0	13372	-54.9	-84.9	1	0.00	269	70	372.5	372.5	372.5
150.0	13540	-54.5	-84.5	1	0.00	270	70	376.0	376.0	376.0
145.0	13758	-54.5	-85.5	1	0.00	266	67	379.6	379.6	379.6
139.1	14021	-55.5	-86.0	1	0.00	260	63	382.4	382.4	382.4
132.6	14326	-56.7	-86.6	1	0.00	275	59	385.6	385.6	385.6
123.0	14804	-58.5	-87.5	1	0.00	275	64	390.6	390.6	390.6
115.0	15229	-56.5	-86.5	1	0.00	280	53	401.9	401.9	401.9
114.8	15240	-56.5	-86.5	1	0.00	280	53	402.0	402.0	402.0
112.0	15397	-57.3	-87.3	1	0.00	279	57	403.5	403.5	403.5
110.0	15512	-54.9	-85.9	1	0.00	278	59	410.1	410.1	410.1
104.3	15850	-57.4	-87.4	1	0.00	275	67	411.6	411.6	411.6
104.0	15869	-57.5	-87.5	1	0.00	276	66	411.7	411.7	411.7
102.0	15993	-54.1	-85.1	1	0.00	280	59	420.5	420.6	420.5
100.0	16120	-53.9	-85.9	1	0.00	285	51	423.3	423.3	423.3
99.5	16154	-53.5	-85.5	1	0.00	285	51	424.6	424.6	424.6
98.2	16237	-52.7	-84.7	1	0.00	286	52	427.8	427.9	427.8
94.9	16459	-53.5	-85.5	1	0.00	290	53	430.6	430.6	430.6
92.2	16642	-54.1	-86.1	1	0.00	295	48	432.9	432.9	432.9
90.5	16762	-51.3	-84.3	1	0.00	297	45	440.7	440.7	440.7
86.3	17069	-51.6	-84.7	1	0.00	305	37	446.0	446.0	446.0
83.4	17292	-51.9	-84.9	1	0.00	280	28	449.9	449.9	449.9
82.3	17374	-52.4	-85.2	1	0.00	270	24	450.5	450.6	450.5
78.5	17678	-54.3	-86.3	1	0.00	250	38	452.9	452.9	452.9
73.0	18144	-57.1	-88.1	1	0.00	275	28	456.4	456.4	456.4
70.0	18410	-56.3	-87.3	1	0.00	290	22	463.6	463.6	463.6
68.0	18593	-55.7	-87.0	1	0.00	290	20	468.6	468.6	468.6
64.9	18898	-54.8	-86.5	1	0.00	275	10	477.0	477.0	477.0
61.9	19202	-53.9	-86.0	1	0.00	270	18	485.5	485.5	485.5
59.0	19507	-53.0	-85.5	1	0.00	270	13	494.2	494.2	494.2
56.3	19812	-52.0	-85.0	1	0.01	250	10	503.0	503.0	503.0
53.7	20117	-51.1	-84.5	1	0.01	275	17	512.0	512.0	512.0

51.2	20422	-50.2	-84.0	1	0.01	200	3	521.1	521.2	521.1
50.0	20580	-49.7	-83.7	1	0.01	170	3	525.9	526.0	525.9
46.7	21031	-48.6	-82.6	1	0.01	215	14	539.0	539.0	539.0
45.8	21156	-48.3	-82.3	1	0.01	221	15	542.6	542.7	542.6
44.6	21336	-48.5	-82.5	1	0.01	230	16	546.5	546.6	546.5
40.6	21946	-49.0	-83.0	1	0.01	195	27	559.9	560.0	559.9
38.8	22250	-49.2	-83.2	1	0.01	205	24	566.7	566.8	566.7
37.0	22555	-49.5	-83.5	1	0.01	180	27	573.6	573.7	573.6
30.7	23774	-50.6	-84.6	1	0.01	155	32	602.1	602.2	602.1
30.0	23930	-50.7	-84.7	1	0.01	155	32	605.8	605.9	605.8
26.2	24806	-53.7	-86.7	1	0.01	149	42	621.2	621.3	621.2
24.3	25298	-54.5	-87.2	1	0.01	145	47	632.7	632.8	632.7
20.0	26530	-56.5	-88.5	1	0.01	135	48	662.5	662.6	662.5
18.2	27127	-57.0	-88.8	1	0.01	125	57	679.0	679.1	679.0
17.3	27432	-57.3	-89.0	1	0.01	130	55	687.5	687.6	687.6
15.0	28346	-58.1	-89.5	1	0.01	125	47	713.9	714.0	713.9
13.6	28956	-58.6	-89.9	1	0.01	150	38	732.0	732.1	732.0
12.4	29566	-59.2	-90.2	1	0.01	130	33	750.6	750.8	750.6
12.1	29703	-59.3	-90.3	1	0.01	129	35	754.9	755.0	754.9
10.7	30480	-59.0	-90.0	1	0.01	125	48	783.0	783.1	783.0
10.2	30785	-58.9	-89.9	1	0.01	125	51	794.3	794.5	794.3
10.0	30900	-58.9	-89.9	1	0.01	125	50	798.6	798.8	798.6
9.7	31090	-58.6	-89.7	1	0.01	130	43	806.8	807.0	806.8
9.2	31394	-58.0	-89.2	1	0.01	105	36	820.0	820.2	820.1
8.4	32004	-56.9	-88.4	1	0.02	120	50	847.3	847.5	847.3
8.0	32309	-56.4	-88.0	1	0.02	140	41	861.2	861.5	861.2
7.6	32614	-55.9	-87.6	1	0.02	110	34	875.4	875.7	875.4
7.3	32918	-55.3	-87.2	1	0.03	140	32	889.7	890.1	889.7
7.0	33150	-54.9	-86.9	1	0.03	135	24	900.8	901.2	900.8
6.6	33528	-54.9	-86.9	1	0.03	145	7	916.1	916.5	916.1
6.3	33833	-55.0	-87.0	1	0.03	110	13	928.6	929.1	928.6
6.0	34138	-55.0	-87.0	1	0.03	105	33	941.3	941.8	941.3
5.5	34747	-55.0	-87.0	1	0.04	125	37	967.2	967.7	967.2
5.2	35052	-55.1	-87.1	1	0.04	145	23	980.4	981.0	980.4
5.0	35290	-55.1	-87.1	1	0.04	145	29	990.8	991.4	990.8

Station information and sounding indices

Station identifier: WSE

Station number: 71119

Observation time: 150127/1200

Station latitude: 53.53

Station longitude: -114.10

Station elevation: 766.0

Showalter index: 6.03

Lifted index: 10.09
LIFT computed using virtual temperature: 10.18
SWEAT index: 248.73
K index: 21.30
Cross totals index: 20.10
Vertical totals index: 25.10
Totals totals index: 45.20
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: 272.29
Pres [hPa] of the Lifted Condensation Level: 855.30
Mean mixed layer potential temperature: 284.76
Mean mixed layer mixing ratio: 4.24
1000 hPa to 500 hPa thickness: 5459.00
Precipitable water [mm] for entire sounding: 14.33

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:Larry.Oolman@uwyo.edu)
