

71119 WSE Edmonton Stony Plain Observations at 12Z 22 Jan 2017

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	136									
925.0	753									
923.0	766	-7.7	-8.7	93	2.16	0	0	271.6	277.7	271.9
905.6	914	-8.9	-9.7	94	2.04	5	3	271.9	277.6	272.2
870.7	1219	-11.3	-11.7	97	1.81	35	10	272.4	277.6	272.7
865.0	1270	-11.7	-12.0	98	1.77	47	9	272.5	277.6	272.8
861.0	1305	-11.3	-11.6	98	1.84	56	9	273.3	278.6	273.6
852.0	1387	-5.5	-5.5	100	2.99	76	7	280.2	288.8	280.7
850.0	1406	-5.1	-5.1	100	3.09	80	7	280.8	289.7	281.3
843.0	1471	-4.7	-5.0	98	3.14	82	8	281.9	290.9	282.4
827.0	1622	-4.5	-5.4	93	3.11	85	11	283.6	292.7	284.2
822.0	1670	-4.9	-7.7	81	2.62	86	12	283.7	291.4	284.1
805.4	1829	-5.7	-9.2	76	2.37	90	15	284.5	291.6	284.9
774.5	2134	-7.2	-12.2	67	1.94	100	13	286.1	292.0	286.5
745.0	2438	-8.6	-15.2	59	1.59	115	11	287.7	292.6	288.0
736.0	2532	-9.1	-16.1	57	1.49	124	10	288.2	292.8	288.5
716.1	2743	-11.1	-16.5	64	1.47	145	9	288.3	292.9	288.6
700.0	2918	-12.7	-16.9	71	1.46	145	9	288.4	292.9	288.6
688.0	3048	-13.9	-17.4	75	1.43	150	10	288.4	292.9	288.7
660.7	3353	-16.8	-18.5	87	1.35	140	10	288.6	292.8	288.8
638.0	3615	-19.3	-19.5	98	1.29	200	6	288.6	292.6	288.9
634.4	3658	-18.8	-21.4	80	1.09	210	5	289.7	293.1	289.9
628.0	3733	-17.9	-24.9	54	0.81	195	5	291.5	294.2	291.7
608.9	3962	-19.1	-32.5	29	0.41	150	3	292.8	294.1	292.8
593.0	4159	-20.1	-39.1	17	0.22	121	8	293.8	294.6	293.8
584.3	4267	-20.8	-40.4	15	0.19	105	11	294.2	294.9	294.2
560.5	4572	-22.9	-44.2	12	0.14	125	10	295.3	295.8	295.3
538.0	4872	-24.9	-47.9	10	0.09	115	6	296.4	296.7	296.4
537.6	4877	-24.9	-47.9	10	0.09	115	6	296.4	296.7	296.4
510.0	5258	-27.3	-45.3	16	0.13	137	8	298.0	298.5	298.0
500.0	5400	-28.3	-32.6	67	0.50	145	9	298.5	300.2	298.6
498.0	5429	-28.3	-32.2	69	0.52	143	9	298.8	300.6	298.9
492.0	5516	-28.7	-33.4	64	0.47	138	8	299.4	301.0	299.4
467.0	5888	-31.1	-35.7	64	0.39	117	6	300.9	302.3	300.9
457.0	6042	-32.1	-35.0	75	0.43	108	5	301.5	303.0	301.6
453.5	6096	-32.5	-34.9	80	0.44	105	5	301.6	303.1	301.7
449.0	6167	-33.1	-34.7	86	0.45	107	5	301.8	303.3	301.8
405.0	6885	-39.1	-42.1	73	0.23	123	7	303.0	303.9	303.1
402.0	6936	-39.1	-45.1	53	0.17	124	7	303.7	304.3	303.7
400.0	6970	-39.5	-46.5	47	0.15	125	7	303.6	304.1	303.6
390.0	7143	-40.7	-51.7	30	0.08	130	8	304.2	304.5	304.2
364.0	7608	-45.1	-52.1	45	0.09	145	10	304.4	304.7	304.4
363.3	7620	-45.2	-52.3	45	0.08	145	10	304.4	304.8	304.4
347.0	7926	-47.5	-57.5	31	0.05	140	11	305.3	305.5	305.3
338.0	8099	-49.1	-56.1	44	0.06	137	12	305.4	305.7	305.5

301.4	8839	-55.0	-60.1	53	0.04	125	15	307.2	307.4	307.2
300.0	8870	-55.3	-60.3	54	0.04	125	15	307.3	307.4	307.3
298.0	8913	-55.9	-60.9	53	0.04	128	14	307.0	307.2	307.0
287.3	9144	-56.9	-61.1	58	0.04	145	11	308.9	309.1	308.9
278.0	9352	-57.7	-61.3	63	0.04	185	13	310.6	310.7	310.6
276.0	9397	-57.1	-60.6	64	0.04	199	14	312.1	312.3	312.1
273.8	9449	-56.3	-63.0	43	0.03	215	15	314.0	314.1	314.0
268.0	9584	-54.1	-69.1	14	0.01	190	11	319.1	319.2	319.1
265.0	9657	-52.7	-70.7	10	0.01	178	10	322.2	322.2	322.2
261.0	9754	-53.4	-73.4	7	0.01	160	7	322.5	322.6	322.5
255.0	9903	-54.5	-77.5	4	0.00	157	12	323.1	323.1	323.1
250.0	10030	-53.9	-77.9	4	0.00	155	17	325.8	325.8	325.8
248.9	10058	-53.8	-78.2	4	0.00	145	10	326.4	326.4	326.4
237.4	10363	-52.7	-80.9	2	0.00	180	23	332.4	332.4	332.4
235.0	10430	-52.5	-81.5	2	0.00	183	24	333.7	333.7	333.7
229.0	10598	-49.5	-82.5	1	0.00	192	27	340.8	340.8	340.8
226.6	10668	-49.4	-82.5	1	0.00	195	28	342.0	342.0	342.0
216.3	10973	-48.9	-82.3	1	0.00	220	21	347.3	347.3	347.3
206.5	11278	-48.4	-82.2	1	0.00	200	14	352.6	352.7	352.6
200.0	11490	-48.1	-82.1	1	0.00	190	15	356.4	356.4	356.4
197.2	11582	-48.1	-82.2	1	0.00	190	14	357.9	357.9	357.9
188.3	11887	-48.0	-82.3	1	0.00	205	21	362.7	362.8	362.7
171.6	12497	-48.0	-82.7	1	0.00	200	24	372.6	372.6	372.6
163.8	12802	-47.9	-82.9	1	0.00	215	27	377.7	377.7	377.7
162.0	12874	-47.9	-82.9	1	0.00	217	26	378.9	378.9	378.9
156.4	13106	-48.0	-82.5	1	0.00	225	22	382.6	382.6	382.6
150.0	13380	-48.1	-82.1	1	0.00	200	19	387.0	387.0	387.0
149.3	13411	-48.1	-82.1	1	0.00	200	20	387.4	387.4	387.4
142.5	13716	-48.5	-82.5	1	0.00	215	17	392.0	392.0	392.0
129.9	14326	-49.3	-83.3	1	0.00	205	21	401.2	401.2	401.2
123.0	14682	-49.7	-83.7	1	0.00	217	20	406.6	406.7	406.6
118.3	14935	-49.2	-83.2	1	0.00	225	20	412.1	412.1	412.1
113.0	15240	-48.5	-82.5	1	0.00	200	25	418.8	418.8	418.8
111.0	15355	-48.3	-82.3	1	0.00	213	25	421.4	421.4	421.4
107.8	15545	-48.6	-82.6	1	0.00	235	24	424.2	424.3	424.2
100.0	16040	-49.5	-83.5	1	0.00	210	18	431.8	431.8	431.8
98.3	16154	-49.4	-83.4	1	0.00	210	18	434.1	434.1	434.1
93.8	16459	-49.3	-83.3	1	0.00	220	27	440.2	440.3	440.2
89.9	16737	-49.1	-83.1	1	0.00	243	21	445.9	446.0	445.9
89.5	16764	-49.1	-83.1	1	0.00	245	20	446.4	446.4	446.4
85.4	17069	-49.5	-83.5	1	0.00	200	13	451.7	451.8	451.7
81.5	17374	-49.8	-83.8	1	0.00	235	25	457.1	457.1	457.1
74.3	17983	-50.5	-84.5	1	0.00	205	18	468.1	468.1	468.1
70.9	18288	-50.8	-84.8	1	0.00	245	10	473.6	473.6	473.6
70.0	18370	-50.9	-84.9	1	0.00	240	10	475.1	475.2	475.1
67.6	18593	-51.3	-85.1	1	0.00	205	10	478.9	479.0	478.9
64.5	18898	-51.8	-85.4	1	0.00	230	12	484.2	484.2	484.2
61.6	19202	-52.4	-85.6	1	0.00	165	10	489.5	489.6	489.5
58.9	19493	-52.9	-85.9	1	0.00	198	21	494.7	494.7	494.7
58.8	19507	-52.9	-85.9	1	0.00	200	21	495.0	495.1	495.0
56.1	19812	-52.2	-85.5	1	0.00	235	14	503.3	503.3	503.3
53.5	20117	-51.5	-85.1	1	0.01	145	1	511.6	511.7	511.6
51.1	20422	-50.8	-84.7	1	0.01	155	11	520.1	520.2	520.1

50.0	20560	-50.5	-84.5	1	0.01	155	11	524.0	524.1	524.0
48.7	20726	-49.7	-83.7	1	0.01	175	14	529.7	529.8	529.7
48.1	20813	-49.3	-83.3	1	0.01	172	14	532.7	532.8	532.7
44.4	21336	-49.1	-83.1	1	0.01	155	14	545.4	545.5	545.4
42.4	21641	-49.0	-83.0	1	0.01	200	12	552.9	553.0	553.0
40.5	21946	-49.0	-83.0	1	0.01	105	1	560.6	560.7	560.6
35.7	22765	-48.7	-82.7	1	0.01	74	3	581.6	581.7	581.6
30.0	23900	-50.7	-84.7	1	0.01	30	5	605.8	605.9	605.8
29.2	24079	-51.4	-84.5	1	0.01	55	12	608.6	608.7	608.6
29.1	24098	-51.5	-84.5	1	0.01	57	12	608.9	609.0	608.9
26.6	24689	-50.7	-84.0	1	0.01	125	10	627.1	627.2	627.1
25.4	24994	-50.3	-83.8	1	0.01	100	20	636.7	636.9	636.7
24.2	25298	-49.9	-83.5	1	0.02	120	15	646.5	646.6	646.5
23.1	25603	-49.5	-83.2	1	0.02	35	16	656.3	656.5	656.4
21.7	26014	-48.9	-82.9	1	0.02	15	13	669.9	670.1	669.9
21.1	26213	-49.0	-83.0	1	0.02	5	11	675.5	675.7	675.5
20.1	26518	-49.1	-83.1	1	0.02	0	17	684.2	684.4	684.2
20.0	26550	-49.1	-83.1	1	0.02	5	17	685.1	685.3	685.1
18.3	27127	-49.8	-83.5	1	0.02	50	15	700.5	700.7	700.5
17.5	27432	-50.1	-83.8	1	0.02	60	19	708.8	709.0	708.8
16.7	27737	-50.5	-84.0	1	0.02	60	22	717.2	717.4	717.2
15.9	28042	-50.9	-84.2	1	0.02	30	20	725.6	725.9	725.6
13.9	28924	-51.9	-84.9	1	0.02	49	24	750.7	750.9	750.7
13.8	28956	-51.9	-84.9	1	0.02	50	24	751.8	752.1	751.8
13.2	29261	-51.5	-84.7	1	0.02	25	21	763.0	763.3	763.0
12.0	29870	-50.9	-84.4	1	0.03	35	13	785.9	786.2	785.9
11.5	30175	-50.6	-84.2	1	0.03	35	18	797.6	798.0	797.6
10.9	30480	-50.3	-84.0	1	0.03	30	25	809.5	809.9	809.5
10.4	30785	-50.0	-83.9	1	0.03	35	18	821.5	821.9	821.5
10.0	31090	-49.7	-83.7	1	0.04	0	16	833.8	834.2	833.8
10.0	31070	-49.7	-83.7	1	0.04	15	15	832.9	833.4	833.0
9.5	31394	-49.3	-83.5	1	0.04	10	26	846.3	846.8	846.3
9.1	31699	-48.9	-83.3	1	0.04	35	32	859.0	859.6	859.0
8.3	32309	-48.2	-82.9	1	0.05	35	27	885.1	885.8	885.1
7.9	32614	-47.8	-82.8	1	0.05	55	29	898.4	899.2	898.5
7.8	32700	-47.7	-82.7	1	0.06	44	28	902.2	903.0	902.2
7.5	32918	-48.2	-82.9	1	0.06	15	25	908.8	909.6	908.9
7.2	33223	-48.9	-83.1	1	0.06	20	35	918.2	919.0	918.2
7.0	33410	-49.3	-83.3	1	0.06	30	32	923.9	924.7	924.0
6.9	33528	-49.1	-83.1	1	0.06	20	32	929.5	930.4	929.6
6.6	33833	-48.6	-82.6	1	0.07	35	32	944.1	945.1	944.2
6.4	33999	-48.3	-82.3	1	0.07			952.1	953.2	952.2

Station information and sounding indices

Station identifier: WSE
 Station number: 71119
 Observation time: 170122/1200
 Station latitude: 53.53
 Station longitude: -114.10
 Station elevation: 766.0
 Showalter index: 8.17
 Lifted index: 17.49

LIFT computed using virtual temperature: 17.55
SWEAT index: 22.98
K index: 13.90
Cross totals index: 23.20
Vertical totals index: 23.20
Totals totals index: 46.40
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: 262.69
Pres [hPa] of the Lifted Condensation Level: 884.88
Mean mixed layer potential temperature: 272.05
Mean mixed layer mixing ratio: 1.96
1000 hPa to 500 hPa thickness: 5264.00
Precipitable water [mm] for entire sounding: 6.49

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)
