

71119 WSE Edmonton Stony Plain Observations at 12Z 09 Mar 2010

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	145									
926.0	766	-4.7	-15.7	42	1.22	260	3	274.4	278.0	274.6
925.0	775	-3.7	-20.7	25	0.80	340	4	275.5	277.9	275.6
924.0	784	-2.5	-22.5	20	0.68	343	4	276.8	278.9	276.9
914.0	870	-1.7	-22.7	18	0.68	11	8	278.5	280.6	278.6
908.9	914	-2.0	-22.8	19	0.68	25	10	278.6	280.7	278.7
874.4	1219	-4.5	-23.1	22	0.69	25	14	279.1	281.3	279.3
850.0	1442	-6.3	-23.3	25	0.69	15	7	279.5	281.7	279.6
841.0	1524	-6.9	-24.3	24	0.64	15	10	279.7	281.7	279.8
808.5	1829	-9.3	-28.1	20	0.47	355	2	280.4	281.9	280.5
777.1	2134	-11.6	-31.9	17	0.34	280	6	281.1	282.2	281.1
763.0	2276	-12.7	-33.7	15	0.29	278	7	281.4	282.4	281.4
746.8	2438	-14.1	-32.3	20	0.34	275	9	281.6	282.7	281.6
718.0	2736	-16.7	-29.7	32	0.46	270	10	281.9	283.4	282.0
717.3	2743	-16.7	-30.9	28	0.41	270	10	282.0	283.3	282.1
714.0	2778	-16.7	-36.7	16	0.23	266	10	282.4	283.1	282.4
704.0	2884	-15.9	-22.9	55	0.87	255	11	284.4	287.1	284.5
700.0	2927	-16.1	-22.1	60	0.94	250	11	284.6	287.6	284.8
688.9	3048	-15.0	-21.0	60	1.05	210	12	287.2	290.5	287.4
686.0	3079	-14.7	-20.7	60	1.08	211	12	287.8	291.2	288.0
661.5	3353	-16.9	-20.8	71	1.10	215	14	288.4	291.9	288.6
652.0	3462	-17.7	-20.9	76	1.12	227	17	288.6	292.2	288.9
635.1	3658	-18.1	-26.5	48	0.69	250	22	290.4	292.7	290.5
624.0	3790	-18.3	-30.3	34	0.50	250	24	291.6	293.3	291.7
617.0	3874	-18.9	-32.9	28	0.39	250	24	291.9	293.2	291.9
584.8	4267	-22.4	-31.2	45	0.49	250	29	292.3	293.9	292.4
556.0	4638	-25.7	-29.6	70	0.60	229	37	292.6	294.6	292.7
537.9	4877	-27.2	-29.3	82	0.63	215	42	293.6	295.7	293.7
532.0	4956	-27.7	-29.2	87	0.65	217	43	293.9	296.1	294.1
517.0	5161	-28.7	-33.7	62	0.43	223	46	295.1	296.6	295.2
500.0	5400	-30.1	-37.1	50	0.32	230	50	296.3	297.4	296.3
494.0	5486	-30.6	-36.9	54	0.33	230	49	296.7	297.9	296.8
463.0	5946	-33.1	-36.1	74	0.38	226	60	299.1	300.4	299.2
453.2	6096	-34.1	-38.9	62	0.29	225	63	299.7	300.8	299.8
447.0	6193	-34.7	-40.7	54	0.25	224	64	300.1	301.0	300.2
421.0	6609	-38.3	-39.7	87	0.29	221	71	300.7	301.7	300.8
415.1	6706	-39.1	-40.5	86	0.27	220	72	300.9	301.8	300.9
407.0	6842	-40.3	-41.7	86	0.24	220	72	301.0	301.9	301.1
406.0	6858	-40.4	-42.2	82	0.23	220	72	301.1	302.0	301.2
400.0	6960	-40.9	-45.4	62	0.17	220	70	301.8	302.4	301.8
398.0	6994	-41.3	-46.2	59	0.15	220	70	301.7	302.2	301.7
395.0	7046	-41.1	-52.1	29	0.08	220	70	302.6	302.9	302.6
382.0	7272	-42.7	-60.7	12	0.03	220	68	303.4	303.5	303.4
362.4	7620	-45.4	-61.2	15	0.03	220	66	304.3	304.4	304.3
330.4	8230	-50.2	-62.2	23	0.03	220	67	305.9	306.0	305.9
315.0	8546	-52.7	-62.7	29	0.03	218	63	306.6	306.8	306.7
300.0	8860	-54.5	-65.5	24	0.02	215	59	308.4	308.5	308.4
287.0	9141	-55.9	-68.9	18	0.01	200	58	310.4	310.4	310.4
286.9	9144	-55.9	-68.9	18	0.01	195	64	310.4	310.5	310.4
277.0	9367	-53.7	-70.7	11	0.01	200	66	316.7	316.7	316.7
260.7	9754	-54.8	-73.2	9	0.01	210	69	320.6	320.6	320.6
254.0	9919	-55.3	-74.3	8	0.01	213	62	322.3	322.3	322.3
250.0	10020	-55.1	-75.1	7	0.01	215	57	324.0	324.1	324.0
237.0	10363	-54.5	-76.5	5	0.00	220	41	329.9	329.9	329.9
226.0	10668	-54.0	-77.8	4	0.00	230	35	335.3	335.3	335.3
225.0	10696	-53.9	-77.9	4	0.00	230	35	335.8	335.8	335.8
215.5	10973	-54.6	-81.0	2	0.00	235	39	338.8	338.8	338.8
205.4	11278	-55.4	-84.5	2	0.00	210	21	342.2	342.2	342.2
202.0	11386	-55.7	-85.7	1	0.00	210	22	343.4	343.4	343.4
200.0	11450	-55.3	-85.3	1	0.00	210	22	345.0	345.0	345.0
194.0	11646	-52.1	-85.1	1	0.00	208	27	353.2	353.2	353.2
188.0	11850	-51.7	-84.7	1	0.00	205	32	357.0	357.0	357.0

186.9	11887	-51.8	-84.8	1	0.00	205	33	357.5	357.5	357.5
178.4	12192	-52.3	-85.3	1	0.00	215	37	361.4	361.4	361.4
172.0	12428	-52.7	-85.7	1	0.00	227	32	364.5	364.5	364.5
165.0	12698	-50.5	-84.5	1	0.00	240	26	372.6	372.6	372.6
162.4	12802	-50.9	-84.6	1	0.00	245	24	373.5	373.5	373.5
158.0	12981	-51.7	-84.7	1	0.00	224	26	375.2	375.2	375.2
155.0	13106	-51.0	-84.3	1	0.00	210	28	378.5	378.5	378.5
150.0	13320	-49.7	-83.7	1	0.00	225	20	384.2	384.2	384.2
147.9	13411	-49.9	-83.9	1	0.00	215	25	385.4	385.4	385.4
143.0	13631	-50.5	-84.5	1	0.00	229	21	388.1	388.1	388.1
140.0	13770	-49.1	-83.1	1	0.00	239	18	392.9	392.9	392.9
134.7	14021	-50.9	-84.9	1	0.00	255	13	394.2	394.2	394.2
134.0	14055	-51.1	-85.1	1	0.00	250	13	394.3	394.3	394.3
131.0	14202	-50.7	-84.7	1	0.00	228	11	397.6	397.6	397.6
128.5	14326	-50.7	-84.7	1	0.00	210	10	399.8	399.8	399.8
123.0	14612	-50.7	-84.7	1	0.00	248	22	404.8	404.8	404.8
122.7	14630	-50.8	-84.8	1	0.00	250	23	404.9	404.9	404.9
118.0	14880	-52.5	-85.5	1	0.00	254	20	406.3	406.4	406.3
117.0	14935	-52.4	-85.4	1	0.00	255	19	407.6	407.6	407.6
111.6	15240	-51.6	-84.6	1	0.00	260	13	414.6	414.6	414.6
111.0	15275	-51.5	-84.5	1	0.00	255	12	415.4	415.4	415.4
108.0	15452	-52.9	-85.9	1	0.00	232	7	416.0	416.0	416.0
106.5	15545	-52.1	-85.5	1	0.00	220	4	419.1	419.2	419.1
104.0	15696	-50.9	-84.9	1	0.00	213	4	424.3	424.3	424.3
101.6	15850	-51.5	-84.9	1	0.00	205	5	426.0	426.1	426.0
100.0	15950	-51.9	-84.9	1	0.00	205	5	427.2	427.2	427.2
93.0	16418	-54.1	-87.1	1	0.00	240	8	431.8	431.8	431.8
90.5	16593	-53.7	-86.7	1	0.00	252	10	435.9	436.0	435.9
89.0	16701	-51.5	-84.5	1	0.00	260	11	442.4	442.4	442.4
88.1	16764	-51.8	-84.8	1	0.00	265	11	443.2	443.2	443.2
80.2	17374	-54.1	-87.2	1	0.00	175	10	450.4	450.4	450.4
79.1	17462	-54.5	-87.5	1	0.00	191	10	451.4	451.4	451.4
76.5	17678	-53.8	-86.8	1	0.00	230	10	457.1	457.1	457.1
73.0	17983	-52.9	-85.9	1	0.00	195	10	465.3	465.3	465.3
70.0	18250	-52.1	-85.1	1	0.00	250	15	472.6	472.6	472.6
69.6	18288	-52.0	-85.0	1	0.00	250	15	473.7	473.7	473.7
68.9	18352	-51.7	-84.7	1	0.00	260	14	475.6	475.6	475.6
66.4	18593	-52.0	-84.9	1	0.00	300	11	479.9	480.0	479.9
63.3	18898	-52.5	-85.2	1	0.00	295	11	485.5	485.6	485.5
57.5	19507	-53.4	-85.8	1	0.00	65	1	496.9	496.9	496.9
54.9	19812	-53.8	-86.1	1	0.00	355	10	502.6	502.7	502.6
52.3	20117	-54.3	-86.4	1	0.00	45	20	508.5	508.5	508.5
50.0	20410	-54.7	-86.7	1	0.00	70	10	514.1	514.2	514.1
49.9	20422	-54.7	-86.7	1	0.00	65	11	514.4	514.4	514.4
47.6	20726	-55.0	-87.0	1	0.00	35	10	520.9	520.9	520.9
45.4	21031	-55.2	-87.2	1	0.00	60	18	527.4	527.5	527.4
44.4	21168	-55.3	-87.3	1	0.00	58	17	530.4	530.5	530.4
43.2	21336	-55.1	-87.2	1	0.00	55	15	535.0	535.0	535.0
41.2	21641	-54.6	-87.1	1	0.00	75	13	543.4	543.4	543.4
39.3	21946	-54.2	-86.9	1	0.01	55	17	551.9	551.9	551.9
37.5	22250	-53.8	-86.7	1	0.01	85	17	560.5	560.5	560.5
37.0	22334	-53.7	-86.7	1	0.01	75	17	562.9	562.9	562.9
35.8	22555	-53.7	-86.7	1	0.01	50	18	568.4	568.4	568.4
32.5	23165	-53.8	-86.8	1	0.01	70	17	583.8	583.8	583.8
31.0	23470	-53.9	-86.9	1	0.01	45	18	591.6	591.7	591.6
30.0	23680	-53.9	-86.9	1	0.01	45	29	597.1	597.2	597.1
29.6	23774	-53.9	-86.9	1	0.01	45	29	599.5	599.6	599.5
28.2	24079	-54.1	-86.9	1	0.01	35	23	607.3	607.4	607.3
25.6	24689	-54.4	-87.0	1	0.01	50	31	623.3	623.4	623.3
23.3	25298	-54.6	-87.0	1	0.01	50	36	639.7	639.8	639.7
22.2	25603	-54.8	-87.0	1	0.01	60	30	648.1	648.2	648.1
20.2	26213	-55.1	-87.1	1	0.01	40	33	665.1	665.2	665.2
20.0	26270	-55.1	-87.1	1	0.01	50	32	666.8	666.9	666.8
19.2	26518	-55.4	-87.3	1	0.01	50	26	673.5	673.6	673.5
17.5	27127	-56.0	-88.0	1	0.01	50	33	690.3	690.4	690.3
16.6	27432	-56.3	-88.3	1	0.01	50	33	698.8	699.0	698.9
15.9	27737	-56.6	-88.6	1	0.01	65	32	707.5	707.6	707.5
13.3	28857	-57.7	-89.7	1	0.01	47	32	740.3	740.4	740.3
13.1	28956	-57.4	-89.4	1	0.01	45	32	744.7	744.9	744.7
11.7	29671	-54.9	-86.9	1	0.02	45	38	777.9	778.1	777.9
11.3	29870	-55.2	-87.2	1	0.02	45	40	783.9	784.1	783.9
10.3	30480	-56.0	-88.0	1	0.02	50	30	802.5	802.7	802.5

10.0	30670	-56.3	-88.3	1	0.02	50	30	808.3	808.5	808.3
9.8	30785	-56.4	-88.4	1	0.02	60	27	812.1	812.3	812.1
8.5	31702	-57.3	-89.3	1	0.02	60	30	842.8	843.1	842.9
8.5	31699	-57.3	-89.3	1	0.02	60	30	842.8	843.0	842.8
7.7	32309	-55.5	-87.5	1	0.02	20	26	873.3	873.6	873.3
7.4	32614	-54.8	-86.8	1	0.03	10	32	888.2	888.6	888.2
7.4	32585	-54.7	-86.7	1	0.03	11	31	887.5	887.9	887.5
7.0	32940	-55.9	-87.9	1	0.03	35	23	896.7	897.0	896.7
7.0	32918	-55.8	-87.8	1	0.03	45	23	896.1	896.5	896.1
6.7	33223	-56.6	-88.6	1	0.02	25	23	905.2	905.5	905.2
6.5	33410	-57.1	-89.1	1	0.02	19	25	910.8	911.1	910.8
6.4	33528	-56.7	-88.8	1	0.02	15	26	917.4	917.7	917.4
5.8	34138	-54.6	-87.0	1	0.04	10	37	952.0	952.5	952.0
5.5	34442	-53.5	-86.2	1	0.04	35	39	969.6	970.3	969.7
5.3	34747	-52.5	-85.3	1	0.05	10	42	987.7	988.5	987.7
5.1	34962	-51.7	-84.7	1	0.06	13	39	1000.6	1001.5	1000.6
5.0	35090	-51.7	-84.7	1	0.06	15	37	1006.3	1007.2	1006.3
4.6	35662	-52.4	-85.4	1	0.06	10	28	1028.9	1029.8	1028.9
4.5	35772	-52.5	-85.5	1	0.06			1033.3	1034.2	1033.3

Station information and sounding indices

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Station identifier: WSE
Station number: 71119
Observation time: 100309/1200
Station latitude: 53.53
Station longitude: -114.10
Station elevation: 766.0
Shoemaker index: 12.47
Lifted index: 13.27
LIFT computed using virtual temperature: 13.29
SWEAT index: 63.99
K index: -5.50
Cross totals index: 6.80
Vertical totals index: 23.80
Totals totals index: 30.60
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: 246.90
Pres [hPa] of the Lifted Condensation Level: 655.81
Mean mixed layer potential temperature: 278.54
Mean mixed layer mixing ratio: 0.69
1000 hPa to 500 hPa thickness: 5255.00
Precipitable water [mm] for entire sounding: 2.97

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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:Larry Oolman (ldoolman@uwyo.edu))
