

# 71119 WSE Edmonton Stony Plain Observations at 12Z 02 Feb 2010

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	116									
925.0	736									
922.0	766	-10.1	-15.1	67	1.29	80	4	269.2	272.9	269.4
916.0	816	-10.7	-12.2	89	1.65	107	4	269.1	273.8	269.4
904.4	914	-9.7	-10.7	92	1.88	160	3	271.1	276.5	271.4
880.0	1124	-7.5	-7.5	100	2.48	233	4	275.5	282.6	275.9
869.3	1219	-8.0	-8.0	100	2.42	265	4	276.0	282.9	276.4
863.0	1275	-8.3	-8.3	100	2.38	270	6	276.2	283.0	276.6
853.0	1366	-6.3	-6.3	100	2.81	278	8	279.2	287.3	279.7
850.0	1393	-6.5	-6.5	100	2.78	280	9	279.3	287.3	279.8
835.8	1524	-7.2	-7.3	99	2.65	280	10	279.9	287.6	280.4
803.6	1829	-8.8	-9.2	97	2.37	295	19	281.4	288.3	281.8
772.6	2134	-10.4	-11.2	94	2.12	295	22	282.8	289.1	283.2
764.0	2221	-10.9	-11.7	94	2.05	294	24	283.2	289.3	283.6
753.0	2333	-10.7	-13.1	82	1.86	292	27	284.6	290.2	284.9
742.7	2438	-11.5	-13.7	84	1.79	290	30	284.8	290.2	285.1
713.6	2743	-13.9	-15.5	88	1.61	290	32	285.4	290.3	285.7
700.0	2890	-15.1	-16.4	90	1.52	290	32	285.7	290.4	286.0
643.0	3528	-19.9	-19.9	100	1.23	286	32	287.3	291.1	287.5
631.8	3658	-20.6	-20.9	97	1.15	285	32	288.0	291.6	288.2
630.0	3679	-20.7	-21.1	97	1.13	285	32	288.1	291.6	288.3
616.0	3846	-21.3	-26.3	64	0.73	285	32	289.2	291.6	289.4
581.4	4267	-25.3	-27.8	79	0.67	285	32	289.4	291.6	289.6
557.5	4572	-28.1	-28.9	93	0.63	275	31	289.5	291.6	289.6
548.0	4697	-29.3	-29.4	99	0.62	277	34	289.6	291.6	289.7
534.4	4877	-30.1	-30.5	97	0.57	280	39	290.6	292.5	290.8
532.0	4909	-30.3	-30.7	96	0.56	280	39	290.8	292.7	290.9
523.0	5030	-30.1	-33.7	71	0.43	282	40	292.5	293.9	292.6
522.0	5044	-29.9	-33.1	74	0.45	282	40	292.9	294.4	293.0
509.0	5224	-31.3	-32.9	86	0.47	284	41	293.3	294.9	293.4
500.0	5350	-32.1	-38.1	55	0.29	285	42	293.8	294.8	293.9
491.0	5478	-32.9	-41.9	40	0.20	286	42	294.4	295.1	294.4
448.6	6096	-37.9	-45.2	47	0.15	290	43	295.8	296.3	295.8
400.0	6880	-44.3	-49.3	57	0.11	290	48	297.3	297.7	297.4
375.0	7309	-47.9	-51.2	69	0.09	295	51	298.1	298.4	298.1
374.7	7315	-47.9	-51.3	68	0.09	295	51	298.1	298.5	298.1
367.0	7451	-48.7	-53.3	59	0.07	295	50	298.9	299.2	298.9
362.0	7542	-48.1	-57.1	35	0.05	292	50	300.9	301.0	300.9
357.7	7620	-48.1	-58.0	31	0.04	290	50	301.9	302.1	301.9
357.0	7633	-48.1	-58.1	30	0.04	290	50	302.1	302.2	302.1
341.6	7925	-46.9	-65.6	10	0.02	285	58	307.5	307.5	307.5
341.0	7936	-46.9	-65.9	10	0.02	285	58	307.7	307.7	307.7
300.0	8780	-49.7	-67.7	10	0.01	285	49	315.2	315.2	315.2
295.0	8891	-50.1	-70.1	8	0.01	288	49	316.1	316.2	316.1
283.9	9144	-50.2	-71.3	7	0.01	295	48	319.4	319.5	319.4
264.0	9621	-50.5	-73.5	5	0.01	292	41	325.8	325.8	325.8
250.0	9980	-49.3	-79.3	2	0.00	290	36	332.6	332.6	332.6
233.0	10441	-49.1	-79.1	2	0.00	290	31	339.7	339.7	339.7
229.0	10554	-47.5	-78.5	2	0.00	290	30	343.8	343.9	343.8
225.1	10668	-47.2	-78.8	1	0.00	290	29	346.0	346.0	346.0
211.0	11095	-46.1	-80.1	1	0.00	290	30	354.1	354.2	354.1
205.3	11278	-46.3	-80.8	1	0.00	290	31	356.6	356.6	356.6
200.0	11450	-46.5	-81.5	1	0.00	300	25	359.0	359.0	359.0
195.0	11618	-46.7	-80.7	1	0.00	304	25	361.3	361.3	361.3
187.3	11887	-46.1	-80.6	1	0.00	310	24	366.4	366.5	366.4
178.9	12192	-45.4	-80.5	1	0.00	285	16	372.4	372.4	372.4
171.0	12497	-44.7	-80.4	1	0.00	275	17	378.5	378.5	378.5
167.0	12654	-44.3	-80.3	1	0.00	280	17	381.6	381.6	381.6
155.0	13152	-46.7	-81.7	1	0.00	297	17	385.8	385.8	385.8
150.0	13370	-46.5	-81.5	1	0.00	305	17	389.7	389.8	389.7
149.0	13414	-46.1	-81.1	1	0.00	308	16	391.2	391.2	391.2
142.3	13716	-46.8	-81.6	1	0.00	325	13	395.1	395.1	395.1

135.9	14021	-47.5	-82.1	1	0.00	300	13	399.1	399.1	399.1
121.0	14788	-49.3	-83.3	1	0.00	329	15	409.3	409.3	409.3
118.3	14935	-49.2	-83.2	1	0.00	335	15	412.2	412.2	412.2
113.0	15240	-48.9	-82.9	1	0.00	285	12	418.2	418.2	418.2
100.0	16040	-48.1	-82.1	1	0.00	330	9	434.5	434.5	434.5
98.3	16154	-47.5	-82.2	1	0.00	330	9	437.8	437.9	437.8
97.8	16188	-47.3	-82.3	1	0.00	332	9	438.8	438.9	438.8
93.9	16459	-48.0	-82.7	1	0.00	350	10	442.6	442.6	442.6
85.2	17099	-49.7	-83.7	1	0.00	354	10	451.6	451.6	451.6
74.5	17983	-49.8	-83.8	1	0.00	0	10	469.0	469.1	469.0
71.1	18288	-49.9	-83.9	1	0.00	55	10	475.2	475.2	475.2
70.0	18390	-49.9	-83.9	1	0.01	65	9	477.3	477.3	477.3
59.0	19507	-48.5	-83.0	1	0.01	65	10	504.2	504.3	504.2
56.4	19812	-48.1	-82.7	1	0.01	60	11	511.8	511.9	511.8
53.8	20117	-47.7	-82.5	1	0.01	115	12	519.5	519.6	519.5
51.4	20422	-47.3	-82.2	1	0.01	120	11	527.4	527.5	527.4
50.0	20600	-47.1	-82.1	1	0.01	85	10	532.0	532.1	532.0
49.7	20640	-47.1	-82.1	1	0.01	84	10	532.9	533.0	532.9
46.8	21031	-47.9	-82.5	1	0.01	75	12	540.3	540.4	540.3
44.7	21336	-48.4	-82.8	1	0.01	80	12	546.1	546.2	546.1
38.9	22250	-50.2	-83.7	1	0.01	105	11	563.8	563.9	563.8
36.2	22718	-51.1	-84.1	1	0.01	82	19	573.1	573.2	573.1
35.4	22860	-51.0	-84.2	1	0.01	75	21	576.9	577.0	576.9
30.0	23940	-50.5	-84.5	1	0.01	85	33	606.4	606.5	606.4
24.1	25371	-48.5	-82.5	1	0.02	93	38	651.3	651.5	651.3
20.2	26518	-50.2	-84.2	1	0.02	100	42	679.6	679.8	679.6
20.0	26590	-50.3	-84.3	1	0.02	100	41	681.5	681.6	681.5
17.6	27432	-50.8	-84.5	1	0.02	100	35	705.3	705.5	705.4
16.8	27737	-51.0	-84.6	1	0.02	105	35	714.2	714.4	714.2
14.6	28651	-51.6	-84.9	1	0.02	95	32	741.4	741.6	741.4
13.3	29261	-52.0	-85.1	1	0.02	80	43	760.1	760.4	760.2
13.0	29400	-52.1	-85.1	1	0.02	81	43	764.5	764.7	764.5
11.0	30480	-49.5	-83.7	1	0.03	85	46	810.9	811.3	810.9
10.0	31120	-47.9	-82.9	1	0.04	85	48	839.6	840.2	839.7
7.0	33528	-45.5	-80.5	1	0.09	80	55	941.8	943.0	941.8
7.0	33480	-45.5	-80.5	1	0.09	80	51	939.6	940.9	939.7
6.6	33873	-45.1	-80.1	1	0.10	89	57	957.2	958.7	957.3
6.2	34293	-41.9	-77.9	1	0.15	101	58	988.2	990.4	988.2
6.1	34442	-42.3	-78.3	1	0.14	105	59	992.5	994.6	992.6
5.8	34747	-43.2	-79.2	1	0.13	120	56	1001.5	1003.4	1001.6
5.5	35100	-44.3	-80.3	1	0.12	110	43	1012.0	1013.7	1012.0
5.5	35052	-44.2	-80.2	1	0.12	115	43	1010.5	1012.3	1010.6
5.3	35357	-43.8	-79.8	1	0.13	85	40	1025.2	1027.2	1025.3
5.0	35740	-43.1	-79.1	1	0.15	85	51	1045.3	1047.7	1045.4
4.4	36576	-41.2	-77.8	1	0.22	85	71	1091.7	1095.2	1091.8
3.4	38405	-36.9	-74.8	1	0.45	90	75	1200.1	1207.8	1200.4
3.4	38375	-37.0	-74.8	1	0.44	90	75	1198.2	1205.8	1198.5
3.3	38579	-36.5	-74.5	1	0.48			1210.9	1219.2	1211.2

## Station information and sounding indices

Station identifier: WSE  
 Station number: 71119  
 Observation time: 100202/1200  
 Station latitude: 53.53  
 Station longitude: -114.10  
 Station elevation: 766.0  
 Showalter index: 6.16  
 Lifted index: 12.75  
 LIFT computed using virtual temperature: 12.78  
 SWEAT index: 103.98  
 K index: 17.80  
 Cross totals index: 25.60  
 Vertical totals index: 25.60  
 Totals totals index: 51.20  
 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: 263.28  
Pres [hPa] of the Lifted Condensation Level: 881.62  
Mean mixed layer potential temperature: 272.96  
Mean mixed layer mixing ratio: 2.09  
1000 hPa to 500 hPa thickness: 5234.00  
Precipitable water [mm] for entire sounding: 6.90

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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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