

71934 YSM Fort Smith Observations at 12Z 29 Jan 2017

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	41									
979.0	204	-9.3	-10.7	90	1.74	0	0	265.4	270.3	265.7
977.0	220	-9.3	-10.6	90	1.75	345	3	265.6	270.5	265.9
968.0	292	-8.7	-9.4	95	1.95	277	16	266.9	272.3	267.2
966.4	305	-7.7	-8.6	94	2.08	265	18	268.0	273.8	268.4
959.0	366	-3.1	-4.7	89	2.82	270	21	273.3	281.2	273.8
943.0	501	3.0	-3.0	65	3.26	281	28	280.8	290.2	281.4
932.0	597	4.4	-3.6	56	3.16	289	33	283.2	292.4	283.7
930.5	610	4.3	-3.7	56	3.13	290	34	283.2	292.3	283.7
925.0	659	3.8	-4.2	56	3.04	290	33	283.2	292.0	283.7
896.3	914	2.2	-5.2	58	2.90	295	28	284.1	292.6	284.6
875.0	1108	1.0	-6.0	60	2.80	305	31	284.8	293.1	285.3
863.0	1219	0.4	-7.6	55	2.52	310	33	285.3	292.8	285.7
850.0	1341	-0.3	-9.3	51	2.23	305	35	285.8	292.5	286.2
799.3	1829	-4.2	-11.4	58	2.02	295	31	286.7	292.8	287.0
796.0	1862	-4.5	-11.5	58	2.00	294	32	286.8	292.8	287.1
768.8	2134	-6.5	-15.9	47	1.44	285	38	287.5	291.9	287.7
763.0	2194	-6.9	-16.9	45	1.34	286	39	287.6	291.8	287.9
755.0	2276	-7.1	-25.1	22	0.66	287	39	288.3	290.4	288.4
751.0	2317	-7.1	-19.1	38	1.13	288	40	288.7	292.3	288.9
739.4	2438	-7.8	-21.6	32	0.92	290	41	289.2	292.2	289.4
732.0	2516	-8.3	-23.3	29	0.80	291	42	289.5	292.1	289.7
713.0	2720	-10.1	-19.1	48	1.19	295	44	289.7	293.5	289.9
710.8	2743	-10.3	-19.8	46	1.13	295	44	289.8	293.3	290.0
700.0	2861	-11.3	-23.3	36	0.84	295	44	289.9	292.6	290.1
678.0	3106	-13.1	-29.1	25	0.51	293	42	290.6	292.3	290.7
666.0	3242	-14.3	-29.3	27	0.51	293	42	290.7	292.4	290.8
660.0	3310	-15.1	-24.1	46	0.83	292	41	290.6	293.3	290.7
644.0	3496	-16.3	-27.3	38	0.64	291	40	291.3	293.4	291.4
630.1	3658	-17.8	-27.5	43	0.64	290	39	291.4	293.5	291.5
582.0	4248	-23.3	-28.1	65	0.65	275	33	291.6	293.8	291.8
580.5	4267	-23.5	-28.5	63	0.63	275	33	291.7	293.8	291.8
567.0	4439	-24.9	-31.9	52	0.47	275	31	291.9	293.5	292.0
533.5	4877	-28.9	-31.8	76	0.50	275	27	292.3	294.0	292.4
511.0	5186	-31.7	-31.8	99	0.53	278	26	292.5	294.3	292.6
500.0	5340	-33.1	-33.5	96	0.46	280	25	292.6	294.2	292.7
497.0	5382	-33.5	-33.9	96	0.44	280	25	292.6	294.1	292.7
489.6	5486	-34.4	-37.2	76	0.32	280	24	292.7	293.8	292.8
483.0	5581	-35.3	-40.3	60	0.24	288	26	292.8	293.6	292.9
468.5	5791	-36.8	-46.0	38	0.13	305	31	293.5	294.0	293.6
456.0	5978	-38.1	-51.1	24	0.08	299	30	294.2	294.5	294.2
448.2	6096	-38.7	-53.0	21	0.06	295	30	294.8	295.1	294.8
427.0	6426	-40.5	-58.5	13	0.03	289	30	296.7	296.8	296.7
411.0	6686	-39.7	-66.7	4	0.01	284	31	301.0	301.0	301.0
400.0	6870	-41.3	-69.3	3	0.01	280	31	301.2	301.3	301.2
391.8	7010	-42.7	-70.0	3	0.01	280	31	301.2	301.3	301.2

388.0	7076	-43.3	-70.3	4	0.01	278	33	301.2	301.3	301.2
359.0	7597	-44.5	-72.5	3	0.01	265	46	306.4	306.4	306.4
357.8	7620	-44.5	-72.6	3	0.01	265	45	306.7	306.8	306.7
326.6	8230	-44.0	-74.5	2	0.00	280	67	315.5	315.5	315.5
309.0	8602	-43.7	-75.7	2	0.00	283	64	320.9	320.9	320.9
300.0	8800	-44.3	-76.3	2	0.00	285	62	322.8	322.8	322.8
291.0	9003	-45.0	-76.2	2	0.00	280	67	324.6	324.6	324.6
284.9	9144	-45.5	-76.2	2	0.00	280	67	325.9	325.9	325.9
272.1	9449	-46.6	-76.1	2	0.00	290	59	328.6	328.7	328.6
266.0	9600	-47.1	-76.1	2	0.00	289	58	330.0	330.0	330.0
263.0	9676	-46.5	-76.5	2	0.00	288	58	332.0	332.0	332.0
251.0	9984	-48.7	-77.7	2	0.00	285	57	333.1	333.2	333.1
250.0	10010	-48.7	-78.7	2	0.00	285	57	333.5	333.6	333.5
248.0	10063	-47.9	-77.9	2	0.00	285	55	335.5	335.5	335.5
241.0	10252	-49.3	-79.3	2	0.00	285	49	336.1	336.2	336.1
237.0	10363	-47.3	-78.3	2	0.00	285	45	340.8	340.8	340.8
237.0	10362	-47.3	-78.3	2	0.00	285	45	340.8	340.8	340.8
232.0	10504	-48.1	-78.1	2	0.00	280	45	341.6	341.7	341.6
226.3	10668	-46.9	-78.1	2	0.00	275	44	346.0	346.0	346.0
223.0	10766	-46.1	-78.1	1	0.00	273	44	348.6	348.6	348.6
206.5	11278	-47.1	-78.4	2	0.00	265	42	354.8	354.8	354.8
200.0	11490	-47.5	-78.5	2	0.00	265	49	357.4	357.4	357.4
198.0	11557	-47.9	-78.9	2	0.00	269	50	357.8	357.8	357.8
197.2	11582	-47.8	-78.9	2	0.00	270	51	358.4	358.4	358.4
188.4	11887	-46.0	-78.5	1	0.00	295	35	366.0	366.0	366.0
185.0	12008	-45.3	-78.3	1	0.00	294	38	369.0	369.0	369.0
171.8	12497	-47.9	-79.3	1	0.00	290	51	372.6	372.6	372.6
156.6	13106	-51.1	-80.5	2	0.00	300	31	377.1	377.1	377.1
154.0	13218	-51.7	-80.7	2	0.00	290	28	377.9	377.9	377.9
150.0	13390	-49.9	-79.9	2	0.00	275	30	383.9	383.9	383.9
149.5	13411	-49.8	-79.9	2	0.00	275	30	384.4	384.4	384.4
141.0	13796	-48.1	-79.1	2	0.01	284	36	393.9	393.9	393.9
137.0	13984	-49.1	-80.1	2	0.00	289	38	395.4	395.4	395.4
136.2	14021	-49.0	-80.0	2	0.00	290	39	396.2	396.2	396.2
128.0	14431	-47.7	-78.7	2	0.01	293	30	405.6	405.7	405.6
124.2	14630	-48.5	-79.1	2	0.01	295	26	407.6	407.7	407.6
120.0	14855	-49.5	-79.5	2	0.01	288	29	409.9	409.9	409.9
118.5	14935	-49.3	-79.4	2	0.01	285	30	411.7	411.8	411.7
113.2	15240	-48.4	-79.1	2	0.01	295	37	418.8	418.9	418.8
110.0	15426	-47.9	-78.9	2	0.01	304	25	423.2	423.2	423.2
108.0	15545	-48.4	-79.2	2	0.01	310	18	424.5	424.6	424.5
103.1	15850	-49.6	-79.8	2	0.01	290	13	427.9	428.0	427.9
101.0	15985	-50.1	-80.1	2	0.01	293	13	429.4	429.5	429.4
100.0	16050	-50.1	-80.1	2	0.01	295	13	430.6	430.7	430.6
98.4	16154	-50.4	-80.2	2	0.01	295	13	432.1	432.2	432.1
93.9	16459	-51.1	-80.4	2	0.01	260	23	436.6	436.6	436.6
85.5	17069	-52.5	-80.9	2	0.01	270	27	445.5	445.6	445.5
82.3	17315	-53.1	-81.1	2	0.01	286	24	449.2	449.2	449.2
81.6	17374	-52.8	-81.0	2	0.01	290	23	450.9	450.9	450.9
70.9	18288	-48.7	-79.4	2	0.01	315	15	478.2	478.2	478.2
70.0	18370	-48.3	-79.3	2	0.01	290	12	480.7	480.8	480.7
67.7	18593	-47.4	-79.3	1	0.01	265	14	487.3	487.4	487.3
67.4	18620	-47.3	-79.3	1	0.01	267	15	488.1	488.2	488.1

61.7	19202	-48.2	-79.5	1	0.01	305	28	498.6	498.7	498.6
58.9	19507	-48.7	-79.6	2	0.01	315	19	504.2	504.3	504.2
56.2	19812	-49.2	-79.7	2	0.01	345	2	509.8	509.9	509.8
53.7	20117	-49.6	-79.8	2	0.01	290	17	515.5	515.6	515.5
52.3	20286	-49.9	-79.9	2	0.01	312	16	518.7	518.8	518.7
51.2	20422	-49.5	-80.0	2	0.01	330	15	522.7	522.8	522.7
50.0	20580	-49.1	-80.1	2	0.01	325	13	527.3	527.4	527.3
48.9	20726	-47.8	-79.5	1	0.01	345	14	533.8	533.9	533.8
48.5	20781	-47.3	-79.3	1	0.02	343	14	536.2	536.3	536.2
46.7	21031	-47.5	-79.3	1	0.02	335	15	541.6	541.7	541.6
44.6	21336	-47.7	-79.3	1	0.02	335	16	548.2	548.4	548.2
42.6	21641	-47.9	-79.3	1	0.02	285	18	554.9	555.1	554.9
40.7	21946	-48.1	-79.3	2	0.02	290	19	561.7	561.9	561.7
39.4	22156	-48.3	-79.3	2	0.02	307	18	566.5	566.6	566.5
38.9	22250	-48.2	-79.3	2	0.02	315	18	568.9	569.1	568.9
35.4	22860	-47.9	-79.3	1	0.02	340	21	585.0	585.1	585.0
30.9	23774	-47.4	-79.3	1	0.02	350	11	609.9	610.1	609.9
30.0	23960	-47.3	-79.3	1	0.02	335	11	615.1	615.3	615.1
29.5	24079	-47.1	-79.2	1	0.03	330	10	618.8	619.0	618.8
28.1	24384	-46.6	-78.9	1	0.03	320	5	628.3	628.5	628.3
26.9	24689	-46.1	-78.7	1	0.03	0	15	638.0	638.2	638.0
25.7	24994	-45.6	-78.4	1	0.03	330	21	647.8	648.1	647.8
24.5	25298	-45.1	-78.1	1	0.04	350	19	657.7	658.1	657.7
22.4	25908	-44.1	-77.6	1	0.04	345	24	678.1	678.5	678.1
20.4	26518	-43.1	-77.0	1	0.05	20	31	699.1	699.6	699.1
20.0	26660	-42.9	-76.9	1	0.05	5	27	704.1	704.6	704.1
19.5	26822	-42.8	-76.9	1	0.06	350	23	709.3	709.9	709.3
17.8	27432	-42.3	-76.8	1	0.06	15	32	729.2	729.9	729.2
17.1	27737	-42.1	-76.8	1	0.07	350	25	739.4	740.1	739.4
16.3	28042	-41.9	-76.7	1	0.07	10	32	749.7	750.4	749.7
15.7	28298	-41.7	-76.7	1	0.07	6	32	758.4	759.2	758.5
14.8	28697	-43.3	-77.3	1	0.07	359	33	766.0	766.8	766.0
13.6	29261	-41.1	-76.5	1	0.08	350	33	791.7	792.7	791.7
12.4	29901	-38.7	-75.7	1	0.11	1	32	821.8	823.1	821.9
11.9	30175	-39.4	-76.1	1	0.10	5	32	828.9	830.1	828.9
11.4	30480	-40.1	-76.5	1	0.10	0	38	836.8	838.0	836.8
10.9	30785	-40.9	-76.9	1	0.10	5	48	844.8	846.0	844.8
10.9	30783	-40.9	-76.9	1	0.10	5	48	844.7	845.9	844.7
10.0	31370	-40.7	-76.7	1	0.11	10	50	866.5	867.9	866.5
8.7	32309	-38.4	-75.7	1	0.15	10	51	910.3	912.3	910.4
8.1	32810	-37.1	-75.1	1	0.18	14	53	934.5	936.9	934.6
7.3	33528	-39.2	-75.5	1	0.19	20	57	954.2	956.8	954.3
7.2	33617	-39.5	-75.5	1	0.19	22	61	956.7	959.3	956.8
7.0	33810	-37.5	-75.5	1	0.19	25	69	972.6	975.4	972.8
6.1	34774	-30.5	-70.5	1	0.47			1041.7	1048.6	1042.0
6.1	34747	-30.7	-70.6	1	0.45	35	77	1039.7	1046.4	1040.0

Station information and sounding indices

Station identifier: YSM

Station number: 71934

Observation time: 170129/1200

Station latitude: 60.03

Station longitude: -111.93
Station elevation: 204.0
Showalter index: 1.26
Lifted index: 7.87
LIFT computed using virtual temperature: 7.91
SWEAT index: 247.01
K index: 11.50
Cross totals index: 23.80
Vertical totals index: 32.80
Totals totals index: 56.60
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: 266.81
Pres [hPa] of the Lifted Condensation Level: 886.98
Mean mixed layer potential temperature: 276.15
Mean mixed layer mixing ratio: 2.75
1000 hPa to 500 hPa thickness: 5299.00
Precipitable water [mm] for entire sounding: 7.36

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)
