

71934 YSM Fort Smith

Observations at 12Z 19 Apr 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	154									
994.0	203	4.0	-2.0	65	3.34	110	8	277.6	287.0	278.2
981.6	305	3.5	-2.5	65	3.24	130	23	278.1	287.3	278.6
976.0	351	3.2	-2.8	65	3.20	134	25	278.3	287.4	278.8
961.0	477	4.6	-1.4	65	3.61	144	29	280.9	291.2	281.5
957.0	511	10.0	2.0	58	4.64	147	30	286.7	300.1	287.5
946.0	608	15.0	0.0	36	4.06	155	33	292.8	304.9	293.5
945.8	610	15.0	-0.1	36	4.05	155	33	292.8	304.9	293.5
941.0	653	15.6	-1.4	31	3.68	157	31	293.8	304.9	294.5
925.0	798	15.0	-2.0	31	3.59	165	25	294.6	305.5	295.3
924.0	807	15.0	-2.0	31	3.59	165	25	294.7	305.6	295.4
912.3	914	14.1	-2.3	32	3.55	165	24	294.9	305.6	295.5
879.6	1219	11.5	-3.2	36	3.45	165	24	295.2	305.7	295.9
850.0	1506	9.0	-4.0	40	3.36	175	22	295.6	305.8	296.2
816.7	1829	6.2	-4.5	46	3.36	190	18	295.9	306.2	296.5
786.5	2134	3.5	-5.0	54	3.35	190	17	296.3	306.5	296.9
757.5	2438	0.8	-5.6	62	3.35	195	14	296.6	306.8	297.2
729.5	2743	-1.9	-6.1	73	3.34	195	17	296.9	307.1	297.5
707.0	2996	-4.1	-6.5	83	3.34	203	16	297.1	307.3	297.7
702.4	3048	-4.4	-9.8	66	2.60	205	16	297.3	305.4	297.8
700.0	3075	-4.5	-11.5	58	2.28	195	12	297.5	304.6	297.9
686.0	3234	-5.1	-21.1	27	1.04	184	8	298.5	302.0	298.7
675.7	3353	-5.5	-23.3	23	0.87	175	5	299.4	302.3	299.6
675.0	3361	-5.5	-23.5	23	0.86	176	5	299.5	302.3	299.6
650.0	3657	-7.3	-30.3	14	0.48	200	8	300.7	302.3	300.8
649.9	3658	-7.3	-30.3	14	0.48	200	8	300.7	302.3	300.8
625.0	3962	-8.4	-27.8	19	0.63	230	13	302.8	305.0	302.9
622.0	3999	-8.5	-27.5	20	0.65	229	13	303.1	305.3	303.2
600.8	4267	-11.0	-18.5	54	1.49	220	9	303.2	308.1	303.5
600.0	4278	-11.1	-18.1	56	1.54	221	9	303.2	308.3	303.5
577.2	4572	-13.5	-19.0	63	1.48	240	11	303.8	308.7	304.1
554.5	4877	-16.0	-20.0	71	1.42	230	10	304.3	309.0	304.6
545.0	5009	-17.1	-20.4	75	1.39	224	10	304.5	309.2	304.8
532.5	5182	-18.6	-21.2	80	1.33	215	11	304.8	309.2	305.0
509.0	5518	-21.5	-22.7	90	1.22	215	16	305.2	309.3	305.4
501.0	5635	-21.9	-24.9	77	1.02	215	18	306.1	309.6	306.3
500.0	5650	-21.9	-25.6	72	0.96	215	18	306.3	309.6	306.5
495.0	5724	-22.5	-33.5	36	0.46	218	19	306.4	308.1	306.5
490.5	5791	-23.0	-34.0	36	0.44	220	20	306.6	308.2	306.7
488.0	5828	-23.3	-34.3	36	0.43	220	20	306.7	308.2	306.8
483.0	5903	-23.3	-28.3	64	0.77	220	19	307.6	310.3	307.7
470.4	6096	-24.9	-29.2	68	0.73	220	17	308.0	310.5	308.1
464.0	6195	-25.7	-29.6	70	0.71	218	17	308.1	310.6	308.3
450.8	6401	-27.3	-31.8	66	0.60	215	16	308.6	310.8	308.8
413.9	7010	-32.2	-38.1	55	0.35	240	16	310.1	311.3	310.1
413.0	7026	-32.3	-38.3	55	0.34	240	16	310.1	311.3	310.1
408.0	7111	-33.3	-36.8	71	0.40	238	16	309.9	311.3	309.9
400.0	7250	-34.1	-38.2	66	0.36	235	17	310.6	311.9	310.7
393.0	7373	-35.3	-41.3	54	0.26	232	18	310.6	311.6	310.6
379.1	7620	-37.5	-43.7	52	0.21	225	19	310.9	311.7	311.0
346.7	8230	-42.9	-49.8	46	0.12	240	20	311.7	312.1	311.7

343.0	8303	-43.5	-50.5	46	0.11	239	20	311.8	312.2	311.8
330.0	8562	-44.9	-56.9	25	0.05	235	19	313.3	313.5	313.3
316.4	8839	-47.3	-57.5	30	0.05	230	19	313.8	314.0	313.8
302.1	9144	-49.9	-58.2	37	0.05	235	19	314.3	314.5	314.3
300.0	9190	-50.3	-58.3	38	0.05	240	19	314.3	314.6	314.4
288.3	9449	-52.5	-59.6	42	0.04	255	17	314.9	315.0	314.9
287.0	9479	-52.7	-59.7	42	0.04	255	17	314.9	315.1	314.9
262.1	10058	-56.8	-63.1	44	0.03	245	12	317.2	317.3	317.2
250.0	10360	-58.9	-64.9	46	0.02	255	13	318.4	318.5	318.4
249.9	10363	-58.9	-65.0	45	0.02	255	12	318.4	318.5	318.4
248.0	10410	-59.1	-66.1	40	0.02	255	12	318.8	318.9	318.8
238.0	10668	-58.5	-66.2	36	0.02	280	18	323.5	323.6	323.5
235.0	10748	-58.3	-66.3	35	0.02	283	18	325.0	325.1	325.0
234.0	10774	-57.7	-66.7	31	0.02	284	18	326.3	326.4	326.3
225.0	11021	-58.1	-71.1	17	0.01	294	16	329.3	329.4	329.3
211.0	11424	-58.9	-73.9	13	0.01	309	15	334.2	334.2	334.2
205.8	11582	-58.2	-74.2	11	0.01	315	14	337.6	337.7	337.6
200.0	11760	-57.5	-74.5	10	0.01	300	16	341.6	341.6	341.6
196.0	11887	-57.2	-75.9	8	0.01	285	20	343.9	343.9	343.9
186.8	12192	-56.6	-79.3	4	0.00	275	16	349.6	349.7	349.6
178.1	12497	-56.0	-82.7	2	0.00	280	10	355.5	355.5	355.5
171.0	12755	-55.5	-85.5	1	0.00	305	14	360.5	360.5	360.5
169.8	12802	-54.3	-85.5	1	0.00	310	15	363.3	363.3	363.3
169.0	12831	-53.5	-85.5	1	0.00	308	15	365.0	365.0	365.0
161.9	13106	-52.7	-85.4	1	0.00	290	12	370.9	370.9	370.9
159.0	13225	-52.3	-85.3	1	0.00	274	11	373.5	373.5	373.5
154.5	13411	-53.6	-86.6	1	0.00	250	10	374.4	374.4	374.4
152.0	13515	-54.3	-87.3	1	0.00	255	12	374.9	374.9	374.9
150.0	13600	-53.9	-86.9	1	0.00	260	13	377.0	377.0	377.0
147.3	13716	-54.2	-87.2	1	0.00	260	20	378.5	378.5	378.5
144.0	13862	-54.5	-87.5	1	0.00	267	20	380.4	380.4	380.4
140.5	14021	-53.7	-86.7	1	0.00	275	21	384.4	384.5	384.4
136.0	14229	-52.7	-85.7	1	0.00	286	19	389.8	389.8	389.8
121.8	14935	-53.8	-86.4	1	0.00	325	10	400.3	400.4	400.3
116.2	15240	-54.2	-86.6	1	0.00	290	12	405.0	405.0	405.0
110.8	15545	-54.7	-86.9	1	0.00	275	10	409.6	409.6	409.6
105.6	15850	-55.1	-87.2	1	0.00	285	13	414.4	414.4	414.4
104.0	15949	-55.3	-87.3	1	0.00	298	14	415.9	415.9	415.9
100.7	16154	-54.6	-87.5	1	0.00	325	17	421.0	421.0	421.0
100.0	16200	-54.5	-87.5	1	0.00	325	17	422.1	422.2	422.1
96.0	16459	-54.9	-87.8	1	0.00	340	11	426.3	426.3	426.3
91.5	16764	-55.4	-88.1	1	0.00	305	11	431.2	431.2	431.2
87.2	17069	-55.9	-88.4	1	0.00	310	14	436.1	436.1	436.1
83.2	17374	-56.4	-88.7	1	0.00	330	10	441.1	441.2	441.1
79.3	17678	-56.9	-89.0	1	0.00	260	10	446.2	446.2	446.2
77.6	17814	-57.1	-89.1	1	0.00	269	11	448.5	448.5	448.5
75.6	17983	-56.4	-88.6	1	0.00	280	12	453.4	453.5	453.4
72.0	18288	-55.0	-87.8	1	0.00	295	14	462.5	462.6	462.5
70.7	18406	-54.5	-87.5	1	0.00	318	11	466.1	466.1	466.1
70.0	18470	-54.7	-86.7	1	0.00	330	10	467.0	467.0	467.0
68.7	18593	-55.0	-87.0	1	0.00	335	10	469.1	469.1	469.1
62.4	19202	-56.2	-88.2	1	0.00	320	11	479.3	479.3	479.3
58.2	19646	-57.1	-89.1	1	0.00	342	11	486.9	486.9	486.9
54.0	20117	-56.7	-88.7	1	0.00	5	10	498.2	498.2	498.2
51.5	20422	-56.5	-88.5	1	0.00	350	3	505.7	505.7	505.7
50.0	20610	-56.3	-88.3	1	0.00	5	6	510.4	510.4	510.4
46.8	21031	-56.0	-88.2	1	0.00	355	12	520.8	520.8	520.8
44.6	21336	-55.8	-88.1	1	0.00	340	5	528.4	528.4	528.4
38.7	22250	-55.2	-87.8	1	0.00	25	10	552.0	552.1	552.0
36.9	22555	-55.0	-87.7	1	0.00	45	14	560.1	560.2	560.2
33.5	23165	-54.6	-87.5	1	0.01	65	1	576.7	576.8	576.8
31.3	23599	-54.3	-87.3	1	0.01	357	3	588.8	588.9	588.8
30.0	23870	-55.1	-87.1	1	0.01	315	4	593.8	593.9	593.8
24.9	25054	-56.3	-88.3	1	0.01	20	14	622.9	622.9	622.9
22.8	25603	-55.3	-87.7	1	0.01	50	18	641.4	641.5	641.4

21.8	25908	-54.7	-87.3	1	0.01	75	13	651.9	652.0	651.9
20.8	26213	-54.1	-87.0	1	0.01	30	10	662.6	662.7	662.6
20.0	26450	-53.7	-86.7	1	0.01	40	11	671.0	671.2	671.1
18.9	26822	-53.2	-86.2	1	0.01	55	12	683.7	683.8	683.7
18.0	27127	-52.8	-85.8	1	0.01	20	22	694.2	694.4	694.2
17.2	27432	-52.4	-85.4	1	0.02	30	23	704.9	705.1	704.9
16.9	27537	-52.3	-85.3	1	0.02	33	23	708.6	708.8	708.6
16.4	27737	-52.6	-85.5	1	0.02	40	24	713.9	714.1	713.9
15.6	28042	-53.1	-85.8	1	0.02	45	21	722.1	722.3	722.1
14.9	28346	-53.6	-86.0	1	0.02	75	23	730.3	730.5	730.3
14.2	28651	-54.0	-86.3	1	0.02	80	21	738.7	738.9	738.7
13.6	28956	-54.5	-86.6	1	0.02	110	14	747.1	747.3	747.1
13.3	29081	-54.7	-86.7	1	0.02	112	13	750.6	750.8	750.6
12.9	29261	-53.9	-86.3	1	0.02	115	11	759.2	759.4	759.2
12.3	29566	-52.6	-85.5	1	0.02	70	11	774.0	774.2	774.0
11.8	29870	-51.4	-84.8	1	0.03	75	16	789.0	789.3	789.0
11.2	30175	-50.0	-84.1	1	0.03	110	10	804.3	804.7	804.3
10.7	30480	-48.8	-83.4	1	0.04	30	10	819.9	820.3	819.9
10.4	30681	-47.9	-82.9	1	0.04	70	15	830.3	830.8	830.3
10.2	30785	-47.9	-82.5	1	0.04	90	18	834.0	834.6	834.0
10.0	30940	-47.9	-81.9	1	0.05	90	18	839.6	840.3	839.7
9.3	31394	-47.3	-81.5	1	0.06	105	10	858.5	859.2	858.5
8.9	31699	-46.9	-81.3	1	0.06	80	10	871.3	872.1	871.4
8.5	32004	-46.5	-81.0	1	0.07	85	16	884.4	885.3	884.4
7.8	32614	-45.8	-80.5	1	0.08	205	10	911.1	912.2	911.1
7.4	32918	-45.4	-80.2	1	0.09	20	10	924.7	925.9	924.8
7.0	33300	-44.9	-79.9	1	0.10	45	13	942.1	943.5	942.2
6.8	33494	-44.7	-79.7	1	0.10			950.8	952.2	950.8

Station information and sounding indices

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Station identifier: YSM
  Station number: 71934
    Observation time: 100419/1200
      Station latitude: 60.03
        Station longitude: -111.93
          Station elevation: 203.0
            Showalter index: 3.15
              Lifted index: 11.18
                LIFT computed using virtual temperature: 11.25
                  SWEAT index: 167.37
                    K index: 19.90
                      Cross totals index: 17.90
                        Vertical totals index: 30.90
                          Totals totals index: 48.80
                            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: 270.00
                                          Pres [hPa] of the Lifted Condensation Level: 840.16
                                            Mean mixed layer potential temperature: 283.82
                                              Mean mixed layer mixing ratio: 3.65
                                                1000 hPa to 500 hPa thickness: 5496.00
                                                  Precipitable water [mm] for entire sounding: 13.37

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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:ldoolman@uwyo.edu)
