

72597 MFR Medford Observations at 12Z 24 Jul 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	138									
971.0	405	18.0	10.0	60	8.00	5	4	293.6	316.8	295.0
955.0	545	17.4	9.4	59	7.81	311	5	294.4	317.2	295.8
947.6	610	17.2	9.4	60	7.87	285	6	294.8	317.8	296.2
925.0	812	16.4	9.4	63	8.06	270	4	296.1	319.7	297.5
914.0	914	16.2	9.2	63	8.04	285	5	296.9	320.5	298.3
905.0	998	16.0	9.0	63	8.02	267	5	297.5	321.2	298.9
883.0	1207	14.2	9.2	72	8.33	223	5	297.8	322.3	299.2
881.8	1219	14.2	9.2	72	8.34	220	5	297.9	322.5	299.4
850.0	1529	13.8	8.8	72	8.43	245	1	300.6	325.7	302.1
848.0	1549	13.8	8.8	72	8.45	241	1	300.8	326.0	302.3
829.0	1740	12.6	8.2	75	8.29	199	3	301.5	326.3	303.0
820.3	1829	12.9	6.6	65	7.49	180	4	302.7	325.4	304.1
813.0	1904	13.2	5.2	58	6.87	192	5	303.8	324.7	305.1
799.0	2050	12.4	2.4	50	5.73	216	6	304.5	322.1	305.5
791.0	2134	12.6	-9.8	20	2.30	230	7	305.5	313.0	305.9
790.0	2145	12.6	-11.4	18	2.03	231	7	305.7	312.3	306.0
784.0	2208	12.4	-15.6	13	1.46	234	8	306.1	311.0	306.4
778.0	2273	11.8	-11.2	19	2.10	237	9	306.1	313.0	306.5
764.0	2424	10.0	2.0	58	5.82	244	12	305.8	323.8	306.9
762.7	2438	9.8	2.1	58	5.87	245	12	305.8	323.9	306.9
747.0	2611	8.0	3.2	72	6.49	231	12	305.6	325.5	306.8
735.1	2743	7.1	3.0	75	6.53	220	12	306.0	326.1	307.2
731.0	2789	6.8	3.0	77	6.54	221	12	306.2	326.3	307.4
721.0	2902	6.2	1.2	70	5.82	222	12	306.7	324.8	307.8
700.0	3144	4.2	0.6	77	5.74	225	13	307.1	325.0	308.2
688.0	3284	2.8	-0.2	81	5.51	230	11	307.1	324.2	308.1
668.0	3523	3.2	-20.8	15	1.10	240	8	310.1	313.9	310.3
656.9	3658	2.1	-20.4	17	1.15	245	6	310.4	314.4	310.6
645.0	3805	1.0	-20.0	19	1.22	244	7	310.7	314.9	311.0
635.0	3931	1.0	-26.0	11	0.73	243	7	312.1	314.7	312.3
624.0	4071	-0.3	-23.3	16	0.94	242	8	312.2	315.5	312.4
616.0	4174	-1.3	-12.3	43	2.43	241	9	312.2	320.3	312.7
614.0	4200	-1.3	-10.3	50	2.86	241	9	312.5	321.9	313.0
608.8	4267	-1.5	-15.7	33	1.87	240	9	313.1	319.4	313.4
608.0	4278	-1.5	-16.5	31	1.74	239	9	313.1	319.1	313.5
600.0	4383	-2.1	-17.1	31	1.68	234	10	313.6	319.4	314.0
595.0	4449	-2.1	-24.1	17	0.92	231	11	314.4	317.6	314.6
593.0	4476	-2.3	-21.3	22	1.18	230	11	314.5	318.6	314.7
590.0	4516	-2.5	-16.5	33	1.79	228	11	314.7	320.8	315.0
576.0	4706	-4.1	-14.1	46	2.24	218	13	315.0	322.5	315.4
567.0	4830	-4.3	-15.3	42	2.06	212	15	316.2	323.2	316.6
563.6	4877	-4.4	-18.0	34	1.66	210	15	316.6	322.3	316.9
558.0	4956	-4.5	-22.5	23	1.13	217	14	317.4	321.4	317.6
547.0	5112	-5.3	-30.3	12	0.57	232	12	318.2	320.3	318.4
511.0	5642	-9.1	-32.1	14	0.51	281	4	319.9	321.8	320.0
501.2	5791	-9.8	-35.5	10	0.37	295	2	320.8	322.2	320.9
500.0	5810	-9.9	-35.9	10	0.36	320	2	320.9	322.3	321.0
481.8	6096	-11.3	-36.4	11	0.35	335	8	322.6	324.0	322.7
479.0	6140	-11.5	-36.5	11	0.35	335	8	322.9	324.2	323.0
473.0	6237	-12.3	-36.3	12	0.36	334	9	323.1	324.5	323.1
471.0	6270	-12.7	-30.7	21	0.63	334	9	323.0	325.3	323.1
460.0	6450	-14.1	-37.1	12	0.35	332	10	323.4	324.7	323.5

456.0	6516	-14.5	-27.5	32	0.88	332	10	323.7	326.9	323.9
454.0	6549	-14.9	-27.9	32	0.85	331	10	323.6	326.8	323.8
449.0	6633	-14.9	-38.9	11	0.30	331	11	324.6	325.8	324.7
444.7	6706	-15.6	-35.7	16	0.41	330	11	324.7	326.2	324.8
439.0	6804	-16.5	-31.5	26	0.63	330	13	324.7	327.1	324.8
432.0	6925	-16.7	-43.7	8	0.18	330	16	325.9	326.7	326.0
417.0	7190	-18.1	-46.1	7	0.15	330	21	327.5	328.1	327.5
410.1	7315	-18.9	-46.5	7	0.14	330	24	328.0	328.6	328.0
400.0	7500	-20.1	-47.1	7	0.14	330	22	328.8	329.4	328.8
393.5	7620	-21.0	-45.3	9	0.17	335	21	329.1	329.8	329.1
393.0	7630	-21.1	-45.1	10	0.17	335	21	329.1	329.9	329.2
382.0	7838	-22.9	-41.9	16	0.25	331	19	329.4	330.5	329.5
377.5	7925	-23.7	-40.2	20	0.31	330	18	329.5	330.7	329.5
366.0	8149	-25.9	-35.9	39	0.49	337	17	329.5	331.4	329.6
346.8	8534	-29.3	-38.1	42	0.41	350	15	330.0	331.6	330.1
334.0	8802	-31.7	-39.7	45	0.37	344	17	330.3	331.7	330.4
318.0	9144	-34.3	-43.6	38	0.25	335	20	331.4	332.4	331.5
300.0	9550	-37.3	-48.3	31	0.16	335	17	332.7	333.4	332.7
295.0	9667	-38.1	-50.1	27	0.13	333	17	333.1	333.7	333.2
282.0	9977	-41.1	-51.1	33	0.12	329	18	333.2	333.7	333.2
254.6	10668	-45.9	-58.4	23	0.06	320	20	336.0	336.3	336.0
250.0	10790	-46.7	-59.7	21	0.05	320	20	336.5	336.7	336.5
243.0	10977	-47.9	-61.9	18	0.04	324	22	337.4	337.6	337.5
231.9	11278	-50.1	-63.3	20	0.03	330	24	338.6	338.8	338.6
221.2	11582	-52.3	-64.7	21	0.03	320	29	339.8	340.0	339.8
205.0	12074	-55.9	-66.9	24	0.02	312	25	341.7	341.8	341.7
201.2	12192	-56.4	-67.3	24	0.02	310	24	342.8	342.9	342.8
200.0	12230	-56.5	-67.5	24	0.02	315	24	343.1	343.2	343.1
191.7	12497	-57.1	-69.7	19	0.02	325	14	346.4	346.5	346.4
182.7	12802	-57.7	-72.1	14	0.01	245	13	350.2	350.2	350.2
180.0	12896	-57.9	-72.9	13	0.01	250	15	351.3	351.4	351.3
174.1	13106	-57.5	-74.7	9	0.01	275	22	355.4	355.5	355.4
172.0	13183	-57.3	-75.3	8	0.01	272	22	356.9	357.0	356.9
168.0	13332	-55.9	-76.9	6	0.01	268	21	361.7	361.7	361.7
165.9	13411	-56.3	-78.0	5	0.01	265	21	362.2	362.3	362.2
165.0	13447	-56.5	-78.5	5	0.01	262	21	362.5	362.6	362.5
163.0	13524	-55.9	-78.9	4	0.00	256	21	364.8	364.8	364.8
158.1	13716	-57.0	-80.5	4	0.00	240	21	366.2	366.2	366.2
154.0	13884	-57.9	-81.9	3	0.00	246	24	367.4	367.4	367.4
151.0	14008	-57.5	-81.5	3	0.00	250	26	370.1	370.1	370.1
150.7	14021	-57.6	-81.6	3	0.00	250	26	370.2	370.2	370.2
150.0	14050	-57.7	-81.7	3	0.00	255	22	370.5	370.5	370.5
142.0	14395	-59.3	-82.3	4	0.00	254	23	373.5	373.5	373.5
139.0	14529	-57.7	-82.7	3	0.00	253	23	378.6	378.6	378.6
134.0	14760	-59.1	-85.1	2	0.00	252	23	380.1	380.1	380.1
132.0	14854	-58.3	-85.3	2	0.00	252	23	383.2	383.2	383.2
124.2	15240	-58.4	-85.8	2	0.00	250	24	389.8	389.8	389.8
114.0	15777	-58.5	-86.5	2	0.00	244	22	399.2	399.2	399.2
111.0	15944	-59.5	-86.5	2	0.00	242	22	400.4	400.4	400.4
104.0	16354	-58.1	-86.1	2	0.00	238	21	410.6	410.6	410.6
100.0	16600	-59.3	-87.3	2	0.00	235	20	412.9	412.9	412.9
76.5	18288	-57.8	-86.7	1	0.00	230	11	448.8	448.8	448.8
72.0	18671	-57.5	-86.5	1	0.00	251	6	457.3	457.4	457.3
70.0	18850	-56.3	-86.3	1	0.00	260	3	463.6	463.6	463.6
69.5	18898	-56.2	-86.2	1	0.00	0	0	464.9	464.9	464.9
65.4	19283	-55.1	-85.1	1	0.00	31	2	475.3	475.3	475.3
59.4	19895	-56.7	-86.7	1	0.00	81	6	485.0	485.0	485.0
52.7	20661	-52.1	-84.1	1	0.01	143	11	512.5	512.5	512.5
50.0	21000	-53.7	-84.7	1	0.01	170	13	516.5	516.5	516.5
49.8	21031	-53.8	-84.7	1	0.01	170	14	517.0	517.0	517.0
47.7	21302	-54.7	-84.7	1	0.01	143	10	521.1	521.1	521.1

47.5	21336	-54.5	-84.7	1	0.01	140	10	522.2	522.3	522.2
44.1	21807	-52.5	-84.5	1	0.01	140	5	538.3	538.3	538.3
43.2	21946	-52.5	-84.3	1	0.01	140	3	541.5	541.6	541.5
39.3	22551	-52.7	-83.7	1	0.01	112	6	555.8	555.9	555.8
32.9	23706	-49.7	-82.7	1	0.01	58	11	592.7	592.8	592.7
32.6	23774	-49.7	-82.7	1	0.01	55	11	594.5	594.6	594.5
31.1	24079	-49.7	-82.7	1	0.01	80	14	602.4	602.6	602.4
30.0	24310	-49.7	-82.7	1	0.01	70	14	608.5	608.7	608.5
29.7	24384	-49.7	-82.7	1	0.01	75	13	610.5	610.7	610.5
28.3	24689	-49.6	-82.6	1	0.02	50	15	618.9	619.0	618.9
25.8	25298	-49.5	-82.5	1	0.02	85	21	635.9	636.1	635.9
25.6	25348	-49.5	-82.5	1	0.02	83	21	637.3	637.5	637.3
24.6	25603	-48.0	-81.6	1	0.02	75	22	648.9	649.1	648.9
24.1	25745	-47.1	-81.1	1	0.02	87	25	655.4	655.6	655.4
23.5	25908	-47.0	-81.0	1	0.02	100	28	660.1	660.4	660.1
22.5	26213	-47.0	-81.0	1	0.03	125	23	669.2	669.4	669.2
21.4	26518	-46.9	-80.8	1	0.03	95	18	678.3	678.6	678.4
20.0	26980	-46.7	-80.7	1	0.03	80	21	692.5	692.8	692.5
19.6	27127	-46.8	-80.8	1	0.03	70	25	696.4	696.7	696.4
18.8	27389	-47.1	-81.1	1	0.03	92	26	703.6	703.9	703.6
18.7	27432	-46.9	-81.0	1	0.03	95	26	705.5	705.8	705.5
17.8	27737	-45.5	-80.1	1	0.04	100	26	719.1	719.5	719.1
17.0	28058	-44.1	-79.1	1	0.05	92	25	733.7	734.2	733.7
16.3	28346	-43.5	-78.8	1	0.05	85	25	744.6	745.1	744.6
14.2	29261	-41.7	-77.6	1	0.07	100	29	780.1	780.9	780.2
13.0	29870	-40.4	-76.9	1	0.08	90	30	804.7	805.7	804.8
11.9	30480	-39.2	-76.2	1	0.10	90	44	830.1	831.3	830.1
11.8	30529	-39.1	-76.1	1	0.10	91	43	832.1	833.4	832.2
10.4	31394	-39.2	-76.2	1	0.12	110	29	862.2	863.7	862.3
10.0	31660	-39.3	-76.3	1	0.12	105	31	871.7	873.2	871.8
9.5	32011	-40.1	-76.1	1	0.13	96	31	881.5	883.2	881.6
8.7	32614	-38.2	-75.8	1	0.15	80	32	911.4	913.3	911.4
8.5	32773	-37.7	-75.7	1	0.15	81	35	919.4	921.5	919.5
8.0	33223	-37.9	-75.0	1	0.18	85	44	936.0	938.5	936.1
7.9	33278	-37.9	-74.9	1	0.19			938.0	940.6	938.1

Station information and sounding indices

Station identifier: MFR
 Station number: 72597
 Observation time: 150724/1200
 Station latitude: 42.36
 Station longitude: -122.86
 Station elevation: 405.0
 Showalter index: 3.53
 Lifted index: 7.52

LIFT computed using virtual temperature: 7.28
 SWEAT index: 109.58
 K index: 28.90
 Cross totals index: 18.70
 Vertical totals index: 23.70
 Totals totals index: 42.40
 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: 280.94
 Pres [hPa] of the Lifted Condensation Level: 842.05

Mean mixed layer potential temperature: 295.10

Mean mixed layer mixing ratio: 7.95

1000 hPa to 500 hPa thickness: 5672.00

Precipitable water [mm] for entire sounding: 23.24

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)
