

72265 MAF Midland Observations at 00Z 26 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	43									
925.0	748									
912.0	872	36.8	14.8	27	11.74	190	5	318.2	355.6	320.5
901.0	983	34.6	14.6	30	11.73	187	7	317.1	354.2	319.3
877.8	1219	32.5	13.8	32	11.42	180	10	317.2	353.4	319.4
850.0	1510	29.8	12.8	35	11.04	180	6	317.4	352.4	319.5
819.9	1829	26.6	11.2	38	10.31	180	7	317.2	350.0	319.2
797.0	2079	24.0	10.0	41	9.76	151	9	317.1	348.1	318.9
791.9	2134	23.5	9.8	42	9.73	145	10	317.1	348.0	318.9
764.4	2438	20.6	9.0	47	9.54	125	8	317.2	347.6	319.0
737.8	2743	17.8	8.2	54	9.34	100	7	317.3	347.1	319.1
706.0	3122	14.2	7.2	63	9.10	100	3	317.4	346.4	319.1
700.0	3194	14.0	5.0	55	7.87	100	2	318.0	343.2	319.5
696.0	3242	13.6	4.6	54	7.70	103	2	318.0	342.8	319.5
689.0	3327	14.2	-6.8	23	3.35	107	2	319.6	330.9	320.3
668.0	3587	12.8	-13.2	15	2.08	121	3	320.9	328.1	321.3
662.3	3658	12.2	-13.7	15	2.02	125	3	321.1	328.1	321.4
615.2	4267	7.4	-17.8	15	1.54	165	3	322.4	327.8	322.7
600.0	4474	5.8	-19.2	15	1.40	118	2	322.8	327.8	323.1
592.9	4572	5.8	-12.1	26	2.57	95	1	323.9	332.8	324.4
592.0	4584	5.8	-11.2	28	2.76	93	1	324.0	333.5	324.6
589.0	4625	5.8	-13.2	24	2.36	87	2	324.5	332.7	325.0
587.0	4653	5.4	-8.6	36	3.42	83	2	324.3	336.0	325.0
580.0	4751	4.6	-8.4	38	3.52	69	3	324.5	336.5	325.2
577.0	4793	4.4	-10.6	33	2.97	62	4	324.8	335.0	325.4
571.0	4877	3.7	-10.5	35	3.02	50	5	324.9	335.3	325.5
562.0	5006	2.6	-10.4	38	3.10	65	6	325.1	335.8	325.7
548.0	5210	1.6	-16.4	25	1.95	88	9	326.3	333.2	326.6
529.4	5486	-0.6	-13.7	36	2.51	120	12	326.9	335.7	327.4
525.0	5553	-1.1	-13.1	40	2.67	119	12	327.0	336.4	327.6
521.0	5614	-0.7	-36.7	5	0.32	119	11	328.2	329.5	328.3
515.0	5706	-1.1	-40.1	3	0.23	118	11	328.8	329.8	328.9
510.0	5783	-1.7	-36.7	5	0.32	117	11	329.0	330.3	329.1
506.0	5846	-2.3	-20.3	24	1.51	116	10	329.1	334.5	329.4
500.0	5940	-2.9	-21.9	22	1.33	115	10	329.4	334.3	329.7
495.0	6020	-3.5	-17.5	33	1.97	118	9	329.6	336.7	330.1
491.0	6084	-3.7	-21.7	23	1.38	120	8	330.2	335.2	330.4
490.2	6096	-3.8	-21.2	25	1.44	120	8	330.2	335.4	330.5
486.0	6165	-4.5	-18.5	33	1.84	121	8	330.2	336.8	330.5
457.0	6647	-7.7	-24.7	24	1.14	129	12	332.0	336.2	332.2
435.9	7010	-10.5	-26.2	26	1.04	135	14	333.0	336.9	333.2
407.0	7538	-14.5	-28.5	29	0.90	105	17	334.4	337.8	334.6
402.6	7620	-14.9	-29.5	28	0.83	100	18	334.9	338.1	335.1
400.0	7670	-15.1	-30.1	27	0.79	95	18	335.3	338.3	335.4
386.6	7925	-16.7	-33.0	23	0.62	105	21	336.5	338.9	336.6
370.0	8256	-18.7	-36.7	19	0.45	106	20	338.0	339.8	338.1
327.8	9144	-26.4	-42.5	20	0.28	110	18	339.4	340.6	339.5
325.0	9207	-26.9	-42.9	21	0.27	111	18	339.5	340.6	339.6
300.0	9780	-31.1	-50.1	14	0.13	120	15	341.4	342.0	341.4
288.0	10068	-33.3	-51.3	15	0.12	121	16	342.3	342.8	342.3
273.0	10443	-35.3	-58.3	8	0.05	123	17	344.7	344.9	344.7
254.0	10942	-39.7	-55.7	17	0.08	125	19	345.3	345.7	345.4
250.0	11050	-40.5	-55.5	18	0.08	125	19	345.7	346.1	345.7

200.0	12530	-51.7	-68.7	11	0.02	130	16	350.7	350.8	350.7
199.0	12562	-51.9	-68.9	11	0.02	130	16	350.9	351.0	350.9
176.0	13344	-58.9	-72.9	15	0.01	134	17	352.0	352.0	352.0
150.0	14330	-65.7	-77.7	17	0.01	140	18	356.7	356.7	356.7
128.8	15240	-73.0	-83.1	20	0.00	135	15	359.5	359.5	359.5
128.0	15276	-73.3	-83.3	21	0.00	134	15	359.6	359.6	359.6
121.0	15605	-73.3	-84.3	17	0.00	126	15	365.4	365.4	365.4
108.0	16265	-76.1	-85.1	23	0.00	110	15	372.2	372.2	372.2
106.0	16373	-75.5	-84.5	23	0.00	115	15	375.3	375.3	375.3
103.0	16539	-76.1	-85.1	23	0.00	122	16	377.2	377.3	377.2
100.0	16710	-75.3	-85.3	20	0.00	130	17	382.0	382.0	382.0
91.1	17258	-70.1	-82.1	16	0.01	213	9	402.6	402.6	402.6
85.8	17615	-68.9	-81.9	14	0.01	266	4	412.0	412.0	412.0
84.9	17678	-69.2	-82.2	14	0.01	275	3	412.6	412.7	412.6
80.7	17983	-70.6	-83.6	13	0.00	35	17	415.9	415.9	415.9
79.7	18055	-70.9	-83.9	13	0.00	43	18	416.6	416.7	416.6
78.5	18145	-68.9	-83.9	10	0.00	54	19	422.6	422.6	422.6
76.7	18288	-67.8	-84.0	8	0.00	70	20	427.8	427.8	427.8
72.9	18593	-65.4	-84.3	6	0.00	100	20	438.9	439.0	439.0
70.0	18840	-63.5	-84.5	4	0.00	115	30	448.2	448.2	448.2
69.7	18866	-63.1	-84.1	4	0.00	117	30	449.6	449.6	449.6
69.3	18898	-63.0	-84.3	4	0.00	120	30	450.6	450.6	450.6
62.8	19507	-60.2	-87.7	2	0.00	145	20	469.4	469.4	469.4
60.3	19762	-59.1	-89.1	1	0.00	99	4	477.5	477.5	477.5
59.8	19812	-59.0	-89.1	1	0.00	90	1	478.8	478.8	478.8
55.1	20325	-58.5	-89.5	1	0.00	85	8	491.4	491.4	491.4
51.4	20758	-60.1	-90.1	1	0.00	82	15	497.5	497.5	497.5
50.0	20930	-59.5	-90.5	1	0.00	80	17	502.8	502.9	502.8
49.5	20993	-58.7	-89.7	1	0.00	89	16	506.2	506.2	506.2
49.2	21031	-58.8	-89.8	1	0.00	95	15	506.8	506.9	506.8
46.9	21336	-59.5	-90.2	1	0.00	70	22	512.1	512.2	512.1
44.6	21641	-60.3	-90.6	1	0.00	65	29	517.5	517.5	517.5
42.9	21888	-60.9	-90.9	1	0.00	77	21	521.9	521.9	521.9
42.5	21946	-60.7	-90.8	1	0.00	80	19	523.8	523.8	523.8
40.5	22250	-59.5	-90.1	1	0.00	75	29	533.9	534.0	533.9
35.0	23165	-56.1	-88.0	1	0.00	95	38	565.5	565.5	565.5
34.7	23223	-55.9	-87.9	1	0.01	95	37	567.6	567.6	567.6
33.5	23448	-53.7	-86.7	1	0.01	93	33	579.1	579.2	579.1
31.9	23774	-53.2	-86.2	1	0.01	90	27	588.9	588.9	588.9
30.4	24079	-52.7	-85.7	1	0.01	65	36	598.1	598.2	598.1
30.3	24096	-52.7	-85.7	1	0.01	65	36	598.7	598.7	598.7
30.0	24160	-52.9	-85.9	1	0.01	65	36	599.8	599.9	599.8
29.0	24384	-53.4	-86.4	1	0.01	90	34	604.4	604.4	604.4
28.1	24582	-53.9	-86.9	1	0.01	93	33	608.4	608.4	608.4
26.8	24888	-51.7	-84.7	1	0.01	98	32	622.9	623.0	622.9
26.4	24994	-52.0	-85.0	1	0.01	100	31	624.9	625.0	624.9
26.0	25084	-52.3	-85.3	1	0.01	99	33	626.6	626.7	626.6
24.0	25603	-50.4	-84.0	1	0.01	90	41	646.6	646.7	646.6
22.8	25941	-49.1	-83.1	1	0.02	86	36	659.9	660.1	660.0
20.9	26518	-50.1	-84.1	1	0.02	80	28	673.6	673.8	673.6
20.6	26606	-50.3	-84.3	1	0.02	82	31	675.7	675.9	675.7
20.0	26800	-49.5	-83.5	1	0.02	85	36	683.9	684.1	683.9
19.9	26822	-49.4	-83.4	1	0.02	90	38	684.8	685.0	684.8
18.2	27432	-47.1	-81.7	1	0.03	75	34	710.3	710.6	710.4
17.4	27737	-46.0	-80.8	1	0.03	90	38	723.4	723.8	723.5
16.9	27913	-45.3	-80.3	1	0.04	87	39	731.1	731.5	731.1
15.1	28651	-45.7	-80.7	1	0.04	75	41	753.3	753.8	753.4
14.4	28956	-45.8	-80.8	1	0.04	90	38	762.7	763.2	762.8
14.2	29072	-45.9	-80.9	1	0.04	87	38	766.3	766.8	766.4
13.2	29566	-43.3	-79.3	1	0.06	75	38	791.6	792.2	791.6
12.2	30094	-40.5	-77.5	1	0.08	87	40	819.3	820.3	819.4

11.5	30480	-40.3	-77.3	1	0.09	95	42	833.3	834.4	833.3
11.0	30785	-40.2	-77.2	1	0.09	100	38	844.5	845.7	844.5
10.5	31090	-40.1	-77.1	1	0.10	75	40	855.9	857.1	855.9
10.0	31450	-39.9	-76.9	1	0.11	80	44	869.5	870.9	869.5
9.6	31729	-39.9	-76.9	1	0.11	85	49	879.7	881.1	879.7
9.6	31699	-39.9	-76.9	1	0.11	85	49	878.6	880.0	878.6
8.5	32567	-35.9	-73.9	1	0.20	81	39	926.4	929.1	926.5
8.1	32918	-36.2	-74.2	1	0.20	80	35	938.6	941.3	938.7
8.0	32988	-36.3	-74.3	1	0.20			941.0	943.8	941.1

Station information and sounding indices

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Station identifier: MAF
Station number: 72265
Observation time: 150726/0000
Station latitude: 31.95
Station longitude: -102.18
Station elevation: 872.0
Showalter index: -0.68
Lifted index: -1.17
LIFT computed using virtual temperature: -2.06
SWEAT index: 175.61
K index: 36.50
Cross totals index: 15.70
Vertical totals index: 32.70
Totals totals index: 48.40
Convective Available Potential Energy: 922.89
CAPE using virtual temperature: 1073.13
Convective Inhibition: -88.00
CINS using virtual temperature: -23.88
Equilibrium Level: 167.90
Equilibrium Level using virtual temperature: 167.53
Level of Free Convection: 570.10
LFCT using virtual temperature: 629.52
Bulk Richardson Number: 194.35
Bulk Richardson Number using CAPV: 225.99
Temp [K] of the Lifted Condensation Level: 282.98
Pres [hPa] of the Lifted Condensation Level: 670.14
Mean mixed layer potential temperature: 317.27
Mean mixed layer mixing ratio: 11.53
1000 hPa to 500 hPa thickness: 5897.00
Precipitable water [mm] for entire sounding: 28.61

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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@uwyo.edu)
