

72363 AMA Amarillo Arpt(Awos) 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	51									
925.0	753									
890.0	1099	33.6	16.6	36	13.53	210	9	317.1	360.0	319.7
877.0	1231	32.0	15.0	36	12.37	200	10	316.8	356.0	319.2
863.0	1375	30.4	13.4	35	11.32	190	12	316.6	352.4	318.8
850.0	1510	29.2	13.2	37	11.34	180	13	316.7	352.6	318.9
848.6	1524	29.1	13.2	38	11.32	175	14	316.7	352.6	318.9
819.5	1829	26.1	12.0	42	10.89	190	14	316.8	351.3	318.8
791.4	2134	23.1	10.9	46	10.47	185	12	316.8	350.0	318.8
764.4	2438	20.2	9.8	51	10.06	195	11	316.7	348.6	318.6
745.0	2662	18.0	9.0	56	9.76	195	10	316.7	347.7	318.6
738.0	2743	17.7	8.5	55	9.52	195	10	317.2	347.6	319.1
712.1	3048	16.6	6.6	52	8.66	295	12	319.3	347.1	320.9
712.0	3049	16.6	6.6	52	8.66	295	12	319.3	347.1	320.9
700.0	3194	15.6	5.6	51	8.21	295	12	319.7	346.2	321.3
662.5	3658	12.5	1.8	48	6.63	305	12	321.3	343.1	322.6
647.0	3858	11.2	0.2	47	6.04	292	10	322.0	341.9	323.2
623.0	4172	8.4	-0.6	53	5.91	271	6	322.3	341.8	323.5
615.9	4267	7.7	-2.7	48	5.13	265	5	322.6	339.7	323.6
608.0	4374	7.0	-5.0	42	4.36	268	5	322.9	337.6	323.8
594.0	4565	5.6	-5.4	45	4.33	272	5	323.5	338.0	324.3
590.0	4620	5.4	-7.6	39	3.68	274	4	323.9	336.4	324.6
574.0	4845	3.8	-5.2	52	4.55	279	4	324.6	339.9	325.4
571.7	4877	3.5	-5.5	52	4.47	280	4	324.6	339.7	325.5
554.0	5132	1.4	-7.6	51	3.92	282	5	325.0	338.3	325.8
528.0	5518	-1.3	-10.3	50	3.33	286	6	326.3	337.7	326.9
517.0	5685	-2.3	-15.3	36	2.26	288	7	327.0	335.0	327.5
503.0	5903	-3.9	-14.9	42	2.40	290	8	327.7	336.1	328.1
500.0	5950	-3.9	-16.9	36	2.05	290	8	328.2	335.5	328.6
497.0	5997	-4.1	-21.1	25	1.44	285	8	328.5	333.8	328.8
490.8	6096	-4.8	-22.1	25	1.33	275	9	328.8	333.7	329.1
474.0	6368	-6.9	-24.9	22	1.08	262	11	329.6	333.5	329.8
472.0	6401	-6.9	-21.9	29	1.41	260	11	329.9	335.1	330.2
470.0	6434	-6.9	-23.9	24	1.19	258	11	330.4	334.7	330.6
454.0	6702	-8.5	-21.5	34	1.52	245	13	331.6	337.2	331.9
453.8	6706	-8.5	-21.6	34	1.51	245	13	331.7	337.2	332.0
451.0	6753	-8.7	-22.7	31	1.38	247	13	332.0	337.1	332.3
448.0	6805	-8.5	-28.5	18	0.82	250	12	332.9	336.0	333.1
441.0	6926	-9.3	-30.3	16	0.70	256	12	333.4	336.1	333.5
436.2	7010	-9.9	-30.7	17	0.68	260	11	333.6	336.3	333.8
419.1	7315	-12.2	-32.2	17	0.62	250	11	334.5	336.9	334.6
402.6	7620	-14.5	-33.7	18	0.56	265	9	335.4	337.6	335.5
400.0	7670	-14.9	-33.9	18	0.55	260	9	335.5	337.7	335.6
397.0	7727	-15.3	-35.3	16	0.48	254	10	335.7	337.6	335.8
386.7	7925	-16.4	-37.6	14	0.39	235	13	336.9	338.4	336.9
380.0	8056	-17.1	-39.1	13	0.34	237	13	337.6	339.0	337.7
356.3	8534	-21.3	-40.8	16	0.31	245	11	338.2	339.5	338.3
352.0	8624	-22.1	-41.1	16	0.30	244	11	338.3	339.5	338.4
344.0	8792	-22.7	-46.7	9	0.17	241	12	339.7	340.4	339.8
327.8	9144	-25.4	-46.0	13	0.19	235	14	340.8	341.6	340.8
320.0	9318	-26.7	-45.7	15	0.20	227	14	341.3	342.1	341.3

314.2	9449	-27.6	-49.8	10	0.13	220	14	341.8	342.3	341.8
304.0	9686	-29.3	-57.3	5	0.05	243	11	342.7	342.9	342.7
301.1	9754	-29.7	-57.0	5	0.06	250	10	343.0	343.3	343.0
300.0	9780	-29.9	-56.9	5	0.06	245	10	343.1	343.4	343.1
276.3	10363	-34.3	-59.9	6	0.04	220	14	345.0	345.2	345.0
267.0	10604	-36.1	-61.1	6	0.04	218	15	345.7	345.9	345.7
250.0	11060	-39.9	-63.9	6	0.03	215	18	346.6	346.7	346.6
220.7	11887	-47.2	-66.7	9	0.02	215	17	348.0	348.1	348.0
201.3	12497	-52.5	-68.8	12	0.02	230	12	348.8	348.9	348.8
200.0	12540	-52.9	-68.9	13	0.02	225	11	348.8	348.9	348.8
190.0	12869	-55.9	-70.9	14	0.01	216	12	349.2	349.2	349.2
174.3	13411	-59.3	-74.3	13	0.01	200	15	352.3	352.4	352.3
168.0	13644	-60.7	-75.7	12	0.01	211	12	353.7	353.7	353.7
166.0	13716	-61.3	-76.0	13	0.01	215	11	353.9	353.9	353.9
158.0	14021	-63.7	-77.1	15	0.01	200	13	354.8	354.8	354.8
150.3	14326	-66.2	-78.2	17	0.01	210	13	355.6	355.7	355.6
150.0	14340	-66.3	-78.3	17	0.01	210	14	355.7	355.7	355.7
137.0	14882	-70.5	-82.5	16	0.00	187	21	357.6	357.6	357.6
135.8	14935	-70.4	-82.4	16	0.00	185	22	358.7	358.7	358.7
134.0	15013	-70.3	-82.3	16	0.00	186	21	360.2	360.2	360.2
128.9	15240	-71.6	-83.2	16	0.00	190	19	361.9	361.9	361.9
121.0	15611	-73.7	-84.7	17	0.00	196	16	364.7	364.7	364.7
118.0	15758	-71.9	-84.9	13	0.00	199	14	370.6	370.6	370.6
111.0	16114	-75.1	-86.1	17	0.00	205	11	371.1	371.1	371.1
104.6	16459	-73.6	-85.5	15	0.00	190	23	380.3	380.3	380.3
104.0	16492	-73.5	-85.5	15	0.00	198	22	381.2	381.2	381.2
100.0	16720	-74.9	-86.9	14	0.00	250	14	382.8	382.8	382.8

Station information and sounding indices

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Station identifier: AMA
Station number: 72363
Observation time: 150726/0000
Station latitude: 35.23
Station longitude: -101.70
Station elevation: 1099.0
Showalter index: -1.75
Lifted index: -2.34
LIFT computed using virtual temperature: -3.13
SWEAT index: 216.39
K index: 36.30
Cross totals index: 17.10
Vertical totals index: 33.10
Totals totals index: 50.20
Convective Available Potential Energy: 1016.76
CAPE using virtual temperature: 1152.98
Convective Inhibition: -127.23
CINS using virtual temperature: -82.53
Equilibrium Level: 165.73
Equilibrium Level using virtual temperature: 165.59
Level of Free Convection: 580.35
LFCT using virtual temperature: 612.68
Bulk Richardson Number: 98.13
Bulk Richardson Number using CAPV: 111.27
Temp [K] of the Lifted Condensation Level: 283.63
Pres [hPa] of the Lifted Condensation Level: 679.29
Mean mixed layer potential temperature: 316.77
Mean mixed layer mixing ratio: 11.90
1000 hPa to 500 hPa thickness: 5899.00
Precipitable water [mm] for entire sounding: 31.74

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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)
