

# 72388 VEF Las Vegas Observations at 00Z 27 Jun 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	53									
932.0	693	39.8	5.8	13	6.24	220	9	319.3	339.7	320.5
925.0	764	37.8	2.8	11	5.09	235	8	317.9	334.6	318.9
916.0	853	36.0	2.0	12	4.85	223	8	317.0	332.9	317.9
909.8	914	35.4	1.9	12	4.86	215	8	317.0	332.9	317.9
879.5	1219	32.3	1.6	14	4.90	225	11	316.9	332.9	317.8
850.1	1524	29.2	1.2	16	4.93	235	11	316.7	332.8	317.7
850.0	1525	29.2	1.2	16	4.93	235	13	316.7	332.8	317.7
821.0	1829	26.3	1.1	19	5.08	235	9	316.8	333.4	317.8
792.9	2134	23.4	1.1	23	5.24	195	8	316.8	333.9	317.8
771.0	2379	21.0	1.0	26	5.36	195	11	316.8	334.3	317.9
765.7	2438	20.5	0.9	27	5.36	195	12	316.9	334.3	317.9
738.8	2743	17.6	0.4	31	5.35	160	11	317.1	334.4	318.1
702.0	3179	13.6	-0.4	38	5.32	169	15	317.2	334.6	318.3
700.0	3203	13.4	-0.6	38	5.26	170	15	317.3	334.4	318.3
668.0	3594	10.0	-4.0	37	4.28	174	12	317.8	331.8	318.6
662.9	3658	9.8	-6.9	30	3.47	175	11	318.2	329.8	318.9
651.0	3808	9.4	-13.6	18	2.07	202	11	319.4	326.5	319.8
648.0	3846	9.4	-11.6	21	2.44	209	10	319.8	328.2	320.3
642.0	3923	8.8	-7.2	32	3.49	223	10	320.0	331.7	320.7
639.0	3962	8.5	-7.4	32	3.44	230	10	320.1	331.6	320.7
615.7	4267	5.9	-9.2	33	3.11	265	11	320.5	331.1	321.1
613.0	4303	5.6	-9.4	33	3.07	267	11	320.6	331.0	321.2
594.0	4561	5.4	-23.6	10	0.96	279	14	323.2	326.8	323.4
593.2	4572	5.3	-22.9	11	1.03	280	14	323.3	327.0	323.5
586.0	4671	4.6	-16.4	20	1.82	282	14	323.6	330.0	323.9
578.0	4783	3.8	-21.2	14	1.23	283	14	323.9	328.3	324.1
571.3	4877	3.0	-17.9	20	1.64	285	14	324.0	329.9	324.4
565.0	4967	2.2	-14.8	27	2.16	285	13	324.1	331.7	324.6
503.0	5893	-4.7	-21.7	25	1.35	280	3	326.7	331.6	326.9
500.0	5940	-4.7	-22.7	23	1.24	280	3	327.2	331.8	327.5
490.1	6096	-5.5	-23.8	22	1.15	235	8	328.1	332.3	328.4
471.4	6401	-7.1	-26.1	20	0.97	250	11	329.9	333.5	330.1
471.0	6408	-7.1	-26.1	20	0.97	249	11	329.9	333.5	330.1
453.0	6706	-9.2	-29.0	18	0.78	220	13	330.9	333.9	331.1
418.4	7315	-13.6	-34.8	15	0.48	235	14	332.9	334.8	333.0
402.1	7620	-15.8	-37.7	13	0.37	205	10	333.9	335.3	333.9
400.0	7660	-16.1	-38.1	13	0.36	205	10	334.0	335.4	334.1
370.1	8230	-21.2	-41.6	14	0.27	195	17	334.7	335.8	334.8
327.0	9140	-29.3	-47.3	16	0.16	220	13	335.6	336.3	335.6
326.8	9144	-29.3	-47.3	16	0.16	220	13	335.6	336.3	335.6
313.1	9449	-31.8	-49.1	16	0.14	245	12	336.3	336.9	336.4
307.0	9588	-32.9	-49.9	17	0.13	229	12	336.7	337.2	336.7
300.0	9750	-33.9	-50.9	16	0.12	210	13	337.5	338.0	337.5
299.8	9754	-33.9	-50.9	16	0.12	205	13	337.5	338.0	337.5
283.0	10156	-36.3	-53.3	16	0.10	238	9	339.7	340.1	339.7
250.0	11000	-44.1	-58.1	20	0.06	310	1	340.4	340.6	340.4
238.0	11327	-47.1	-61.1	19	0.04	277	2	340.7	340.9	340.7
200.0	12460	-54.1	-66.1	22	0.03	160	4	346.9	347.1	346.9
193.0	12688	-55.3	-67.3	21	0.02	164	5	348.6	348.7	348.6
171.0	13452	-60.9	-71.9	22	0.01	176	8	351.6	351.6	351.6
155.9	14021	-63.9	-74.2	23	0.01	185	10	355.9	356.0	355.9
150.0	14260	-65.1	-75.1	24	0.01	225	13	357.7	357.8	357.7

148.4	14326	-65.3	-75.3	24	0.01	220	11	358.4	358.5	358.4
141.0	14634	-66.5	-76.5	23	0.01	255	11	361.7	361.7	361.7
134.1	14935	-66.5	-76.5	23	0.01	290	11	366.9	366.9	366.9
132.0	15032	-66.5	-76.5	23	0.01	287	12	368.6	368.6	368.6
127.5	15240	-68.1	-77.8	24	0.01	280	13	369.3	369.4	369.3
117.0	15749	-72.1	-81.1	25	0.00	290	12	371.1	371.2	371.1
115.0	15850	-71.7	-81.1	23	0.00	305	16	373.7	373.7	373.7
112.0	16006	-71.1	-81.1	22	0.00	300	16	377.7	377.7	377.7
110.0	16112	-69.7	-79.7	22	0.01	296	16	382.2	382.3	382.2
109.2	16154	-69.6	-79.6	22	0.01	295	16	383.2	383.2	383.2
105.0	16389	-69.1	-79.1	22	0.01	239	12	388.5	388.6	388.5
104.0	16446	-68.1	-78.1	23	0.01	226	11	391.5	391.5	391.5
100.0	16680	-68.5	-78.5	23	0.01	170	7	395.1	395.2	395.1
95.6	16950	-68.1	-78.1	23	0.01	162	8	401.0	401.1	401.0
93.0	17117	-65.1	-76.1	21	0.01	156	8	410.1	410.2	410.1
88.8	17399	-65.3	-76.3	20	0.01	148	9	415.1	415.2	415.1
83.5	17771	-67.9	-77.9	23	0.01	136	10	417.2	417.3	417.2
77.4	18230	-65.5	-76.5	20	0.02	122	12	431.4	431.4	431.4
76.7	18288	-65.6	-76.5	21	0.02	120	12	432.3	432.4	432.3
71.8	18686	-66.5	-76.5	23	0.02	66	6	438.6	438.7	438.6
70.0	18840	-65.1	-76.1	21	0.02	45	4	444.8	444.9	444.8
67.5	19063	-63.5	-74.5	21	0.02	51	5	452.9	453.0	452.9
63.8	19409	-64.7	-75.7	21	0.02	62	7	457.6	457.7	457.6
60.8	19705	-62.1	-73.1	22	0.03	70	9	469.7	469.9	469.7
51.1	20784	-61.1	-73.1	19	0.04	101	14	496.0	496.2	496.0
50.0	20920	-60.1	-72.1	19	0.05	105	15	501.4	501.7	501.4
49.1	21031	-59.6	-71.6	20	0.05	90	9	505.1	505.5	505.2
47.9	21188	-58.9	-70.9	20	0.06	77	12	510.5	510.9	510.5
46.8	21336	-59.2	-71.2	20	0.06	65	14	513.3	513.7	513.3
44.6	21641	-59.7	-71.7	19	0.05	80	18	519.2	519.5	519.2
43.8	21748	-59.9	-71.9	19	0.05	74	19	521.2	521.6	521.3
42.7	21908	-57.9	-69.9	20	0.07	65	20	530.0	530.5	530.0
40.4	22250	-57.7	-70.2	19	0.07	45	23	538.8	539.4	538.8
38.7	22528	-57.5	-70.5	18	0.07	72	27	546.1	546.6	546.1
38.5	22555	-57.3	-70.4	18	0.07	75	27	547.1	547.7	547.2
36.7	22860	-55.6	-69.1	17	0.09	65	28	559.2	560.0	559.3
35.1	23150	-53.9	-67.9	16	0.12	98	35	570.9	571.8	571.0
35.0	23165	-53.9	-67.9	16	0.12	100	35	571.4	572.3	571.4
31.9	23774	-53.2	-67.8	15	0.13	90	42	588.9	590.0	589.0
30.0	24160	-52.7	-67.7	15	0.14	100	34	600.4	601.5	600.4
29.0	24384	-52.3	-67.7	14	0.15	110	32	607.4	608.6	607.5
26.4	24994	-51.2	-67.8	12	0.16	110	25	627.0	628.3	627.0
24.0	25603	-50.1	-67.8	11	0.17	90	26	647.1	648.6	647.2
21.6	26297	-48.9	-67.9	9	0.19	93	28	670.8	672.6	670.9
20.5	26639	-50.3	-70.3	8	0.14	94	29	676.7	678.0	676.7
20.0	26800	-50.1	-70.1	8	0.15	95	30	682.1	683.5	682.1
18.8	27204	-49.9	-70.9	7	0.14	92	27	694.9	696.2	694.9
18.2	27432	-49.0	-71.3	6	0.14	90	26	704.6	706.0	704.6
16.6	28042	-46.6	-72.3	4	0.13	80	22	731.2	732.6	731.3
15.2	28611	-44.3	-73.3	3	0.12	89	30	756.9	758.2	756.9
15.1	28651	-44.3	-73.4	2	0.12	90	31	758.3	759.6	758.4
14.4	28956	-44.0	-73.9	2	0.12	75	40	769.0	770.4	769.1
13.2	29566	-43.5	-74.9	2	0.11	105	29	791.0	792.3	791.0
12.6	29870	-43.2	-75.3	2	0.11	90	17	802.2	803.4	802.2
11.5	30480	-42.7	-76.3	1	0.10	70	27	825.0	826.3	825.1
10.1	31394	-41.9	-77.8	1	0.09	100	33	860.6	861.8	860.6
10.0	31430	-41.9	-77.9	1	0.09	100	33	862.0	863.2	862.0
9.9	31498	-41.7	-77.7	1	0.10			865.2	866.5	865.3

## Station information and sounding indices

Station identifier: VEF  
 Station number: 72388  
 Observation time: 130627/0000  
 Station latitude: 36.05  
 Station longitude: -115.18  
 Station elevation: 693.0  
 Showalter index: 5.31  
 Lifted index: 4.96

LIFT computed using virtual temperature: 4.58  
 SWEAT index: 43.38  
 K index: 21.10  
 Cross totals index: 5.90  
 Vertical totals index: 33.90  
 Totals totals index: 39.80  
 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: 268.78  
 Pres [hPa] of the Lifted Condensation Level: 559.64  
 Mean mixed layer potential temperature: 317.27  
 Mean mixed layer mixing ratio: 5.00  
 1000 hPa to 500 hPa thickness: 5887.00  
 Precipitable water [mm] for entire sounding: 18.62

## 72388 VEF Las Vegas Observations at 12Z 27 Jun 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	76									
934.0	693	27.6	7.6	28	7.06	0	0	306.7	328.4	308.0
930.0	734	30.6	7.6	24	7.09	342	1	310.1	332.3	311.4
929.0	744	31.2	8.2	24	7.39	338	1	310.8	334.0	312.2
925.0	785	31.0	6.0	21	6.38	320	2	311.0	331.1	312.2
911.7	914	30.6	5.6	21	6.29	255	2	311.9	331.8	313.1
885.0	1179	29.8	4.8	20	6.13	238	9	313.7	333.3	314.9
881.0	1219	29.5	4.7	21	6.11	235	10	313.8	333.3	314.9
850.0	1536	26.8	3.8	23	5.95	245	9	314.2	333.2	315.3
821.9	1829	24.6	2.8	24	5.73	245	5	314.9	333.3	316.0
793.6	2134	22.3	1.8	26	5.52	225	4	315.6	333.4	316.6
766.3	2438	20.0	0.8	28	5.31	180	3	316.3	333.5	317.3
762.0	2487	19.6	0.6	28	5.27	176	4	316.4	333.5	317.4
739.5	2743	17.8	-2.8	24	4.24	155	8	317.1	331.1	318.0
720.0	2972	16.2	-5.8	22	3.46	150	9	317.8	329.4	318.5
700.0	3210	13.8	-2.2	33	4.67	145	10	317.7	333.1	318.6
696.0	3258	13.4	-1.6	35	4.91	142	9	317.8	333.9	318.8
685.0	3392	13.0	-6.0	26	3.58	135	7	318.8	330.8	319.5
663.5	3658	10.7	-7.4	27	3.33	120	3	319.1	330.3	319.7
663.0	3665	10.6	-7.4	28	3.32	121	3	319.1	330.2	319.8
661.0	3690	10.6	-8.4	25	3.08	124	3	319.4	329.8	320.0
657.0	3741	10.6	-4.4	35	4.22	130	3	319.9	334.0	320.8
646.0	3881	10.2	-16.8	13	1.60	147	4	321.0	326.6	321.3
626.0	4141	9.0	-22.0	9	1.05	179	5	322.6	326.4	322.8
616.5	4267	7.9	-19.2	13	1.37	195	6	322.7	327.6	323.0
588.0	4655	4.6	-10.4	33	2.96	246	6	323.3	333.4	323.8

572.0	4877	2.5	-11.3	35	2.84	275	6	323.3	333.1	323.9
550.0	5194	-0.5	-12.5	40	2.68	252	5	323.4	332.6	324.0
517.0	5686	-2.9	-18.9	28	1.67	215	5	326.3	332.3	326.6
512.0	5763	-3.1	-23.1	20	1.17	209	4	327.0	331.2	327.2
500.0	5950	-4.7	-23.7	21	1.14	195	4	327.2	331.4	327.5
497.0	5997	-5.1	-24.1	21	1.10	206	4	327.3	331.4	327.5
490.8	6096	-5.7	-26.8	17	0.87	230	3	327.8	331.0	327.9
471.0	6419	-7.7	-35.7	9	0.39	221	5	329.2	330.7	329.2
463.0	6552	-8.7	-28.7	18	0.78	217	6	329.5	332.5	329.7
430.0	7122	-13.7	-31.7	20	0.63	200	9	330.2	332.6	330.3
404.0	7595	-16.5	-43.5	8	0.20	186	12	332.5	333.3	332.6
402.7	7620	-16.8	-43.8	8	0.20	185	12	332.5	333.3	332.5
400.0	7670	-17.3	-44.3	8	0.19	190	12	332.4	333.2	332.4
383.0	7993	-20.3	-45.3	9	0.18	185	12	332.6	333.4	332.7
359.0	8469	-23.5	-49.5	7	0.12	177	12	334.5	335.0	334.6
326.7	9144	-29.5	-52.6	9	0.09	165	12	335.4	335.8	335.4
305.0	9635	-33.9	-54.9	10	0.07	173	15	335.9	336.2	335.9
300.0	9750	-34.9	-55.9	10	0.07	175	16	336.1	336.4	336.1
250.0	10990	-44.7	-60.7	15	0.04	145	13	339.5	339.7	339.5
248.0	11044	-45.3	-60.3	17	0.05	146	13	339.4	339.6	339.4
246.0	11098	-45.1	-60.1	17	0.05	146	14	340.4	340.7	340.5
203.0	12364	-52.9	-65.9	19	0.03	159	20	347.4	347.5	347.4
200.0	12460	-53.7	-66.7	19	0.02	160	20	347.6	347.7	347.6
189.5	12802	-56.4	-68.9	19	0.02	170	22	348.7	348.8	348.7
180.6	13106	-58.7	-70.9	19	0.01	190	17	349.7	349.8	349.7
177.0	13232	-59.7	-71.7	19	0.01	186	16	350.1	350.1	350.1
152.0	14169	-64.5	-75.5	21	0.01	158	11	357.4	357.5	357.4
150.0	14250	-64.5	-75.5	21	0.01	155	10	358.8	358.8	358.8
148.2	14326	-64.6	-75.6	21	0.01	155	10	359.9	359.9	359.9
141.0	14630	-65.0	-76.0	21	0.01	255	11	364.2	364.3	364.2
137.0	14805	-65.3	-76.3	20	0.01	272	14	366.8	366.8	366.8
134.1	14935	-66.2	-77.0	21	0.01	285	17	367.4	367.5	367.4
127.5	15240	-68.3	-78.6	22	0.01	300	19	368.9	369.0	368.9
124.0	15407	-69.5	-79.5	22	0.01	285	15	369.8	369.8	369.8
121.2	15545	-69.2	-79.2	22	0.01	280	15	372.7	372.7	372.7
120.0	15603	-69.1	-79.1	22	0.01	284	14	374.0	374.0	374.0
115.1	15850	-70.0	-80.0	22	0.01	300	12	376.8	376.9	376.8
111.0	16069	-70.7	-80.7	22	0.01	302	11	379.4	379.4	379.4
109.0	16177	-69.9	-79.9	22	0.01	303	11	382.9	382.9	382.9
106.0	16343	-70.7	-80.7	22	0.01	304	10	384.4	384.4	384.4
104.0	16459	-70.6	-80.6	22	0.01	305	10	386.7	386.7	386.7
100.0	16690	-70.5	-80.5	22	0.01	315	22	391.3	391.3	391.3
81.1	17938	-67.9	-78.9	19	0.01	72	19	420.7	420.8	420.7
76.5	18288	-68.6	-79.0	21	0.01	105	18	426.3	426.3	426.3
73.8	18502	-69.1	-79.1	22	0.01	87	8	429.7	429.8	429.7
72.7	18593	-68.0	-78.3	22	0.01	80	4	433.9	433.9	433.9
70.0	18820	-65.3	-76.3	20	0.02	30	8	444.4	444.5	444.4
69.3	18881	-64.7	-75.7	21	0.02	36	11	446.9	447.0	446.9
65.8	19202	-64.6	-75.6	21	0.02	65	24	453.8	453.9	453.8
62.6	19507	-64.5	-75.5	21	0.02	75	20	460.5	460.6	460.5
61.0	19663	-64.5	-75.5	21	0.02	80	20	463.9	464.1	463.9
58.9	19879	-61.9	-73.9	19	0.03	87	19	474.4	474.6	474.5
56.7	20117	-62.4	-74.3	19	0.03	95	19	478.7	478.9	478.7
55.0	20304	-62.7	-74.7	18	0.03	77	20	482.0	482.2	482.0
54.0	20422	-61.5	-73.5	19	0.03	65	20	487.4	487.7	487.4
52.5	20594	-59.7	-71.7	19	0.05	79	18	495.4	495.7	495.4
51.4	20726	-59.4	-71.9	18	0.05	90	17	499.0	499.3	499.0
50.0	20900	-59.1	-72.1	17	0.05	90	18	503.8	504.1	503.8
49.4	20976	-58.5	-71.5	17	0.05	88	21	506.9	507.3	506.9
46.6	21336	-59.3	-72.3	17	0.05	80	36	513.5	513.8	513.5
44.4	21641	-59.9	-72.9	17	0.04	95	30	519.1	519.4	519.1

42.6	21901	-60.5	-73.5	17	0.04	91	22	523.9	524.2	523.9
42.3	21946	-59.9	-72.9	17	0.05	90	20	526.4	526.7	526.4
41.4	22079	-58.3	-71.3	17	0.06	94	21	533.7	534.1	533.7
40.3	22250	-58.1	-71.3	17	0.06	100	22	538.4	538.8	538.4
38.4	22555	-57.7	-71.2	16	0.07	85	23	546.8	547.3	546.8
36.6	22860	-57.4	-71.1	16	0.07	100	22	555.4	555.9	555.4
35.4	23065	-57.1	-71.1	15	0.07	90	19	561.2	561.8	561.2
34.9	23165	-56.5	-70.7	15	0.08	85	18	565.2	565.8	565.2
32.4	23629	-53.9	-68.9	14	0.11	85	27	584.1	585.0	584.1
30.2	24079	-55.4	-69.5	16	0.11	85	36	592.0	592.9	592.1
30.0	24120	-55.5	-69.5	16	0.11	85	36	592.7	593.6	592.8
29.3	24270	-56.1	-70.1	16	0.10	82	34	595.1	596.0	595.1
28.8	24384	-56.0	-70.2	15	0.10	80	32	598.6	599.4	598.6
27.3	24720	-55.5	-70.5	14	0.10	79	32	608.9	609.8	609.0
24.6	25391	-50.1	-67.1	12	0.19	78	31	642.9	644.5	643.0
21.9	26153	-48.1	-67.1	9	0.21	76	30	670.6	672.5	670.6
20.0	26750	-48.3	-68.3	8	0.19	75	30	687.6	689.4	687.6
18.1	27407	-48.7	-69.7	7	0.18	104	34	706.2	707.9	706.3
18.0	27432	-48.6	-69.7	7	0.18	105	34	707.3	709.0	707.3
16.2	28141	-45.9	-69.9	5	0.19	105	33	738.0	740.0	738.1
13.4	29399	-47.5	-75.5	3	0.10	105	30	773.7	774.8	773.7
11.4	30480	-45.1	-74.6	2	0.14	105	28	819.0	820.6	819.1
10.8	30835	-44.3	-74.3	2	0.15	99	31	834.5	836.3	834.6
10.4	31088	-45.5	-75.5	2	0.13	95	33	839.1	840.7	839.2
10.0	31350	-43.9	-74.9	2	0.15	90	35	854.5	856.4	854.6
9.9	31394	-43.5	-74.7	2	0.15	90	33	857.5	859.4	857.5
9.5	31696	-41.1	-73.1	2	0.20			877.8	880.3	877.9

## Station information and sounding indices

Station identifier: VEF  
 Station number: 72388  
 Observation time: 130627/1200  
 Station latitude: 36.05  
 Station longitude: -115.18  
 Station elevation: 693.0  
 Showalter index: 5.11  
 Lifted index: 5.65

LIFT computed using virtual temperature: 5.28  
 SWEAT index: 67.59  
 K index: 19.30  
 Cross totals index: 8.50  
 Vertical totals index: 31.50  
 Totals totals index: 40.00

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: 273.77  
 Pres [hPa] of the Lifted Condensation Level: 633.51  
 Mean mixed layer potential temperature: 311.92  
 Mean mixed layer mixing ratio: 6.38  
 1000 hPa to 500 hPa thickness: 5874.00  
 Precipitable water [mm] for entire sounding: 18.97

## 72388 VEF Las Vegas Observations at 00Z 28 Jun 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	70									
934.0	693	41.6	5.6	11	6.14	85	3	320.9	341.1	322.1
925.0	784	39.0	0.0	9	4.15	60	3	319.2	333.0	320.0
920.0	834	37.8	-2.2	8	3.55	62	4	318.4	330.3	319.1
911.8	914	37.0	-2.1	8	3.62	65	5	318.5	330.6	319.2
881.5	1219	34.1	-1.6	10	3.89	105	6	318.6	331.5	319.3
850.0	1547	31.0	-1.0	13	4.20	135	3	318.6	332.5	319.4
823.2	1829	28.3	-1.2	15	4.28	120	5	318.7	332.8	319.5
795.2	2134	25.4	-1.4	17	4.36	210	3	318.7	333.1	319.5
768.2	2438	22.4	-1.6	20	4.45	200	4	318.7	333.4	319.6
768.0	2440	22.4	-1.6	20	4.45	200	4	318.7	333.4	319.6
741.4	2743	20.0	-2.8	21	4.21	250	3	319.4	333.3	320.2
700.0	3236	16.2	-4.8	23	3.84	335	8	320.4	333.2	321.1
673.0	3568	13.2	-7.8	22	3.17	359	6	320.6	331.4	321.3
665.8	3658	12.7	-11.4	17	2.40	5	6	321.1	329.4	321.6
664.0	3681	12.6	-12.4	16	2.23	7	6	321.2	328.9	321.6
618.8	4267	7.9	-16.2	16	1.75	50	9	322.4	328.6	322.7
612.0	4358	7.2	-16.8	16	1.69	51	9	322.6	328.5	322.9
574.1	4877	2.6	-16.0	24	1.92	60	6	323.1	329.9	323.5
557.0	5123	0.4	-15.6	29	2.05	83	7	323.3	330.5	323.7
529.0	5534	-2.1	-22.1	20	1.24	122	8	325.1	329.6	325.4
521.0	5655	-2.7	-30.7	10	0.57	134	8	325.8	328.0	325.9
500.0	5980	-4.5	-34.5	8	0.41	165	9	327.5	329.1	327.6
494.0	6075	-4.9	-36.9	6	0.33	173	8	328.1	329.4	328.2
492.6	6096	-5.1	-37.0	6	0.33	175	8	328.2	329.5	328.2
403.7	7620	-17.1	-40.5	11	0.28	135	13	331.8	332.9	331.8
400.0	7690	-17.7	-40.7	12	0.27	135	15	331.9	333.0	331.9
374.0	8190	-21.9	-42.9	13	0.23	141	17	332.8	333.7	332.8
342.1	8839	-28.1	-45.7	17	0.19	150	19	333.0	333.8	333.0
336.0	8969	-29.3	-46.3	18	0.18	146	18	333.0	333.8	333.0
327.8	9144	-30.6	-47.8	17	0.15	140	17	333.6	334.2	333.6
313.9	9449	-32.9	-50.5	16	0.12	130	18	334.5	335.0	334.6
300.0	9770	-35.3	-53.3	14	0.09	135	19	335.5	335.9	335.5
263.0	10668	-42.9	-58.5	16	0.05	150	18	337.2	337.5	337.3
254.0	10904	-44.9	-59.9	17	0.05	138	19	337.6	337.9	337.6
251.4	10973	-45.3	-60.3	17	0.05	135	19	338.1	338.3	338.1
250.0	11010	-45.5	-60.5	17	0.04	135	19	338.3	338.5	338.3
243.0	11198	-47.1	-61.1	19	0.04	156	18	338.6	338.8	338.6
240.1	11278	-47.3	-61.3	19	0.04	165	17	339.5	339.7	339.5
224.0	11734	-48.5	-62.5	18	0.04	154	19	344.5	344.6	344.5
218.8	11887	-49.5	-63.3	18	0.04	150	20	345.2	345.4	345.3
200.0	12470	-53.3	-66.3	19	0.03	155	16	348.2	348.3	348.2
181.1	13106	-56.9	-69.1	20	0.02	170	20	352.4	352.5	352.4
176.0	13287	-57.9	-69.9	20	0.02	195	17	353.6	353.7	353.6
171.0	13470	-57.1	-69.1	20	0.02	221	13	357.9	357.9	357.9
156.6	14021	-61.0	-72.3	21	0.01	300	3	360.3	360.4	360.4
150.0	14290	-62.9	-73.9	21	0.01	290	5	361.5	361.6	361.5
138.0	14797	-66.7	-77.7	20	0.01	12	5	363.6	363.6	363.6
128.2	15240	-67.9	-78.2	22	0.01	85	5	369.1	369.1	369.1
124.0	15439	-68.5	-78.5	23	0.01	81	7	371.6	371.6	371.6
108.0	16257	-72.5	-82.5	21	0.00	65	17	379.0	379.0	379.0
100.0	16710	-70.3	-80.3	22	0.01	55	15	391.6	391.7	391.6
93.1	17134	-71.3	-81.3	21	0.01	33	11	397.8	397.8	397.8
86.9	17546	-67.9	-77.9	23	0.01	12	6	412.5	412.6	412.5
85.0	17678	-67.6	-78.0	22	0.01	5	5	415.7	415.7	415.7
81.7	17918	-67.1	-78.1	20	0.01	13	14	421.5	421.5	421.5
80.8	17983	-67.1	-78.1	20	0.01	15	16	422.8	422.8	422.8

77.0	18276	-67.1	-78.1	20	0.01	77	20	428.7	428.7	428.7
76.8	18288	-67.2	-78.1	20	0.01	80	20	428.8	428.8	428.8
73.0	18593	-69.0	-79.1	22	0.01	90	17	431.1	431.2	431.1
72.9	18605	-69.1	-79.1	22	0.01	89	17	431.2	431.3	431.2
70.5	18807	-65.5	-76.5	20	0.02	65	11	443.0	443.1	443.0
70.0	18850	-65.5	-76.5	20	0.02	60	10	443.9	444.0	443.9
69.5	18898	-65.4	-76.4	20	0.02	55	7	445.2	445.3	445.2
66.4	19172	-64.7	-75.7	21	0.02	60	11	452.4	452.5	452.4
65.2	19283	-63.1	-74.1	21	0.03	61	13	458.3	458.4	458.3
59.8	19812	-62.9	-74.4	20	0.03	70	20	470.1	470.2	470.1
56.9	20117	-62.8	-74.5	19	0.03	70	18	477.0	477.2	477.0
54.2	20422	-62.7	-74.7	18	0.03	75	18	484.0	484.2	484.1
54.0	20443	-62.7	-74.7	18	0.03	74	18	484.5	484.7	484.5
51.6	20726	-61.3	-73.3	19	0.04	60	23	494.2	494.5	494.2
50.0	20920	-60.3	-72.3	19	0.04	65	23	500.9	501.3	501.0
46.8	21336	-59.0	-71.4	18	0.05	90	19	513.7	514.1	513.7
44.6	21641	-58.0	-70.8	18	0.06	75	26	523.3	523.7	523.3
42.5	21946	-57.0	-70.1	17	0.07	70	29	533.0	533.5	533.0
37.6	22715	-54.5	-68.5	16	0.10	87	37	558.3	559.0	558.3
36.8	22860	-54.4	-68.5	16	0.10	90	38	562.2	563.0	562.2
33.4	23470	-53.9	-68.4	15	0.11	115	30	579.1	580.0	579.1
31.9	23774	-53.6	-68.3	15	0.12	95	21	587.6	588.6	587.7
30.0	24160	-53.3	-68.3	14	0.13	85	29	598.7	599.8	598.8
29.0	24384	-53.5	-69.0	13	0.12	85	33	604.2	605.2	604.2
27.9	24627	-53.7	-69.7	12	0.11	81	30	610.2	611.1	610.2
26.4	24994	-50.9	-68.3	11	0.15	75	25	627.9	629.2	628.0
25.7	25160	-49.7	-67.7	10	0.16	89	24	636.0	637.5	636.1
25.2	25298	-49.3	-67.8	10	0.17	100	24	640.9	642.4	641.0
24.0	25603	-48.5	-68.0	9	0.17	85	27	651.8	653.3	651.8
23.4	25776	-48.1	-68.1	8	0.17	96	28	658.0	659.5	658.1
22.9	25908	-48.2	-68.5	8	0.16	105	28	661.5	663.0	661.5
20.9	26518	-48.7	-70.6	6	0.13	100	23	677.8	679.1	677.8
20.8	26551	-48.7	-70.7	6	0.13	98	23	678.7	680.0	678.8
20.1	26777	-47.5	-70.5	5	0.14	87	27	689.0	690.4	689.1
20.0	26822	-47.5	-70.5	5	0.14	85	28	690.3	691.7	690.4
20.0	26810	-47.5	-70.5	5	0.14	85	27	690.0	691.4	690.1
19.1	27127	-48.0	-71.7	5	0.12	90	38	697.9	699.1	697.9
18.2	27432	-48.6	-72.9	4	0.11	100	36	705.5	706.6	705.5
17.4	27737	-49.1	-74.1	4	0.10	105	28	713.4	714.4	713.4
17.4	27727	-49.1	-74.1	4	0.10	105	28	712.9	713.9	713.0
16.6	28042	-47.8	-74.4	3	0.10	85	30	727.0	728.0	727.1
15.1	28665	-45.1	-75.1	2	0.10	80	45	755.6	756.7	755.7
15.1	28651	-45.2	-75.1	2	0.10	80	45	755.0	756.0	755.0
14.7	28845	-42.9	-73.9	2	0.12	85	41	768.8	770.1	768.9
13.2	29566	-41.3	-73.9	2	0.13	105	27	798.2	799.7	798.2
12.9	29730	-40.9	-73.9	2	0.13	94	28	805.0	806.5	805.0
12.6	29870	-40.9	-74.2	2	0.13	85	29	809.6	811.2	809.7
11.6	30480	-41.1	-75.4	1	0.12	85	19	830.2	831.6	830.2
10.1	31394	-41.3	-77.2	1	0.10	85	29	861.9	863.2	862.0
10.0	31460	-41.3	-77.3	1	0.10	90	29	864.2	865.5	864.3
9.7	31667	-40.1	-76.1	1	0.13			876.3	877.9	876.4

## Station information and sounding indices

Station identifier: VEF  
 Station number: 72388  
 Observation time: 130628/0000  
 Station latitude: 36.05  
 Station longitude: -115.18  
 Station elevation: 693.0

Showalter index: 5.64  
 Lifted index: 5.93  
 LIFT computed using virtual temperature: 5.45  
 SWEAT index: 14.98  
 K index: 13.50  
 Cross totals index: 3.50  
 Vertical totals index: 35.50  
 Totals totals index: 39.00  
 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: 264.79  
 Pres [hPa] of the Lifted Condensation Level: 522.22  
 Mean mixed layer potential temperature: 318.81  
 Mean mixed layer mixing ratio: 3.98  
 1000 hPa to 500 hPa thickness: 5910.00  
 Precipitable water [mm] for entire sounding: 14.49

## 72388 VEF Las Vegas Observations at 12Z 28 Jun 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	66									
933.0	693	29.2	5.2	22	5.98	230	4	308.4	327.1	309.5
929.0	735	32.2	1.2	14	4.51	195	4	311.8	326.4	312.7
925.0	778	32.8	0.8	13	4.40	160	4	312.8	327.1	313.7
919.0	837	33.8	-0.2	11	4.12	141	3	314.4	327.9	315.2
911.1	914	33.3	-0.7	11	4.00	115	1	314.7	327.8	315.5
880.7	1219	31.2	-2.8	11	3.56	345	12	315.6	327.4	316.3
880.0	1226	31.2	-2.8	11	3.55	345	12	315.7	327.4	316.4
852.0	1515	31.0	-5.0	9	3.11	354	7	318.4	328.8	319.0
850.0	1536	30.8	-5.2	9	3.07	355	7	318.4	328.7	319.0
822.0	1829	28.2	-4.6	11	3.32	10	4	318.8	329.9	319.4
793.9	2134	25.6	-4.0	14	3.59	35	3	319.1	331.1	319.8
766.9	2438	22.9	-3.4	17	3.89	40	9	319.4	332.4	320.2
740.6	2743	20.3	-2.8	21	4.22	50	8	319.7	333.7	320.5
740.0	2750	20.2	-2.8	21	4.23	51	8	319.7	333.8	320.5
726.0	2914	19.8	-13.2	10	1.91	82	9	321.0	327.7	321.4
700.0	3226	16.8	-13.2	12	1.99	140	10	321.1	328.0	321.4
679.0	3484	14.4	-13.6	13	1.98	152	14	321.2	328.1	321.6
665.0	3658	13.4	-19.0	9	1.29	160	16	322.0	326.6	322.2
657.0	3760	12.8	-22.2	7	0.99	160	17	322.4	326.0	322.6
617.8	4267	8.5	-21.1	10	1.15	160	22	323.2	327.4	323.4
595.4	4572	5.9	-20.5	13	1.27	155	23	323.7	328.2	323.9
579.0	4801	4.0	-20.0	15	1.36	159	22	324.0	328.9	324.2
573.5	4877	3.4	-20.6	15	1.30	160	21	324.1	328.8	324.4
552.0	5182	0.8	-23.2	15	1.07	150	16	324.6	328.5	324.8
511.5	5791	-4.4	-28.4	13	0.73	120	16	325.5	328.2	325.7
506.0	5877	-5.1	-29.1	13	0.69	122	16	325.6	328.2	325.8
500.0	5970	-5.9	-29.9	13	0.64	125	17	325.8	328.2	325.9
491.9	6096	-6.8	-30.4	13	0.62	130	16	326.2	328.5	326.3
446.0	6857	-12.3	-33.3	16	0.52	155	16	328.5	330.5	328.6
437.1	7010	-13.7	-33.5	17	0.52	160	16	328.6	330.6	328.7
419.9	7315	-16.6	-33.9	21	0.52	160	15	328.8	330.8	328.9



418.0	7350	-16.9	-33.9	21	0.52	157	15	328.8	330.8	328.9
403.2	7620	-18.5	-36.3	19	0.43	135	11	330.1	331.8	330.2
401.0	7661	-18.7	-36.7	19	0.41	135	11	330.4	332.0	330.4
400.0	7680	-18.9	-36.9	19	0.41	135	11	330.3	331.9	330.4
371.2	8230	-23.9	-40.0	21	0.32	115	13	330.8	332.1	330.9
369.0	8274	-24.3	-40.3	21	0.31	116	13	330.9	332.1	330.9
356.0	8535	-25.7	-45.7	14	0.18	120	14	332.4	333.1	332.4
326.7	9144	-30.7	-49.7	14	0.13	130	15	333.7	334.3	333.8
313.0	9449	-33.2	-51.7	14	0.10	140	18	334.4	334.8	334.4
300.0	9750	-35.7	-53.7	14	0.09	135	23	334.9	335.3	335.0
274.4	10363	-40.6	-56.9	16	0.06	140	26	336.5	336.8	336.5
271.0	10447	-41.3	-57.3	16	0.06	142	25	336.7	336.9	336.7
250.6	10973	-44.6	-59.6	17	0.05	155	18	339.4	339.6	339.4
250.0	10990	-44.7	-59.7	17	0.05	155	17	339.5	339.7	339.5
237.0	11344	-47.5	-61.5	18	0.04	137	19	340.5	340.7	340.5
228.5	11582	-48.5	-62.2	19	0.04	125	20	342.5	342.6	342.5
218.1	11887	-49.8	-63.2	19	0.04	135	16	345.1	345.2	345.1
207.0	12228	-51.3	-64.3	20	0.03	147	14	347.9	348.1	347.9
200.0	12450	-52.9	-65.9	19	0.03	155	12	348.8	349.0	348.8
179.0	13158	-57.7	-69.7	20	0.02	126	4	352.2	352.3	352.2
171.9	13411	-58.5	-70.5	20	0.02	115	1	355.0	355.1	355.0
168.0	13556	-58.9	-70.9	20	0.02	105	3	356.7	356.8	356.7
150.0	14260	-63.3	-74.3	21	0.01	55	10	360.8	360.9	360.8
141.0	14640	-64.1	-75.1	21	0.01	28	10	365.9	365.9	365.9
127.7	15240	-69.2	-79.4	22	0.01	345	11	367.2	367.2	367.2
125.0	15369	-70.3	-80.3	22	0.01	0	12	367.4	367.5	367.4
103.0	16515	-72.3	-82.3	21	0.00	22	17	384.5	384.6	384.5
101.0	16631	-72.1	-82.1	21	0.00	24	18	387.1	387.1	387.1
100.0	16690	-70.7	-80.7	22	0.01	25	18	390.9	390.9	390.9
93.8	17069	-69.9	-79.9	22	0.01	55	27	399.6	399.6	399.6
91.9	17191	-69.7	-79.7	22	0.01	54	22	402.4	402.4	402.4
87.2	17502	-70.9	-80.9	22	0.01	51	10	406.1	406.1	406.1
85.5	17619	-69.1	-79.1	22	0.01	50	5	412.0	412.1	412.0
84.7	17678	-69.0	-79.0	22	0.01	50	3	413.4	413.5	413.4
76.5	18288	-67.7	-78.4	20	0.01	70	22	428.3	428.3	428.3
72.9	18574	-67.1	-78.1	20	0.01	79	17	435.4	435.5	435.4
72.7	18593	-66.9	-77.9	20	0.01	80	17	436.2	436.2	436.2
70.0	18820	-64.9	-75.9	21	0.02	90	22	445.2	445.3	445.2
69.8	18838	-64.7	-75.7	21	0.02	90	22	446.0	446.1	446.0
69.1	18898	-64.7	-75.7	21	0.02	90	21	447.4	447.5	447.4
65.8	19202	-64.4	-75.4	21	0.02	85	23	454.3	454.5	454.3
56.7	20117	-63.5	-74.5	21	0.03	75	21	475.9	476.1	475.9
52.2	20624	-63.1	-74.1	21	0.03	88	22	488.3	488.5	488.3
50.0	20890	-62.3	-74.3	19	0.03	95	23	496.2	496.5	496.3
48.9	21031	-61.7	-73.7	19	0.04	95	22	500.8	501.1	500.9
46.9	21286	-60.7	-72.7	19	0.04	82	25	509.2	509.6	509.2
46.5	21336	-60.1	-72.3	19	0.05	80	26	511.7	512.1	511.8
44.8	21573	-57.5	-70.5	18	0.06	96	28	523.7	524.2	523.7
44.3	21641	-57.6	-70.6	18	0.06	100	28	525.2	525.6	525.2
40.5	22208	-58.1	-71.1	17	0.06	105	20	537.5	538.0	537.6
40.2	22250	-58.0	-71.0	17	0.07	105	19	538.9	539.4	538.9
38.3	22555	-56.9	-70.3	17	0.08	60	22	549.1	549.7	549.1
35.0	23132	-54.9	-68.9	16	0.10	79	35	568.8	569.6	568.8
34.8	23165	-54.9	-68.9	16	0.10	80	36	569.5	570.4	569.6
33.2	23469	-55.1	-69.1	16	0.10	85	30	576.9	577.7	576.9
31.9	23725	-53.3	-67.3	17	0.14	89	26	588.3	589.5	588.4
31.7	23774	-53.2	-67.4	16	0.14	90	25	589.7	590.9	589.8
30.0	24120	-52.9	-67.9	15	0.14	75	29	599.8	601.0	599.9
28.8	24384	-53.3	-68.3	14	0.14	90	38	605.9	607.0	605.9
26.9	24823	-53.9	-68.9	14	0.13	83	36	616.0	617.1	616.0
26.2	24994	-53.5	-69.0	13	0.13	80	35	621.7	622.8	621.7

25.0	25298	-52.9	-69.1	12	0.14	90	34	631.9	633.1	631.9
23.8	25613	-52.3	-69.3	11	0.14	82	31	642.6	643.9	642.6
22.8	25908	-49.7	-68.8	9	0.16	75	28	658.6	660.0	658.6
22.8	25893	-49.7	-68.7	9	0.16	75	28	658.2	659.6	658.2
20.3	26653	-50.3	-71.3	7	0.12	97	32	678.6	679.8	678.6
20.0	26750	-49.9	-70.9	7	0.13	100	33	682.7	684.0	682.7
19.8	26822	-49.7	-71.3	6	0.13	100	35	685.5	686.8	685.6
18.9	27127	-48.7	-73.0	4	0.11	85	36	697.8	698.8	697.8
18.0	27432	-47.7	-74.6	3	0.09	95	39	710.2	711.1	710.2
17.4	27668	-46.9	-75.9	2	0.07	103	35	719.9	720.7	720.0
17.2	27737	-47.0	-76.2	2	0.07	105	34	721.9	722.6	721.9
15.0	28651	-47.9	-80.4	1	0.04	80	40	747.9	748.3	747.9
14.3	28956	-48.2	-81.8	1	0.03	95	30	756.8	757.2	756.8
14.1	29059	-48.3	-82.3	1	0.03	90	28	759.8	760.1	759.8
13.7	29261	-47.1	-81.6	1	0.04	80	24	770.3	770.8	770.3
12.3	29970	-43.1	-79.1	1	0.06	72	31	808.3	809.0	808.3
11.9	30175	-43.5	-79.5	1	0.06	70	33	813.8	814.6	813.9
11.4	30480	-44.2	-80.2	1	0.06	80	37	822.1	822.8	822.2
11.3	30540	-44.3	-80.3	1	0.06	82	38	823.8	824.5	823.8
10.9	30785	-41.9	-78.6	1	0.08	90	42	841.0	842.0	841.1
10.7	30909	-40.7	-77.7	1	0.09	90	40	849.9	851.0	849.9
10.0	31370	-41.1	-78.1	1	0.09	90	34	865.0	866.1	865.0
9.0	32086	-41.1	-78.1	1	0.10	96	35	891.4	892.8	891.5
8.5	32475	-39.3	-76.3	1	0.14	99	36	913.1	915.0	913.2
8.3	32614	-37.6	-75.0	1	0.17	100	36	924.9	927.2	925.0
8.1	32808	-35.3	-73.3	1	0.23			941.6	944.8	941.8

## Station information and sounding indices

Station identifier: VEF  
 Station number: 72388  
 Observation time: 130628/1200  
 Station latitude: 36.05  
 Station longitude: -115.18  
 Station elevation: 693.0  
 Showalter index: 6.05

Lifted index: 6.69

LIFT computed using virtual temperature: 6.33

SWEAT index: 30.98

K index: 1.50

Cross totals index: 0.70

Vertical totals index: 36.70

Totals totals index: 37.40

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: 266.00

Pres [hPa] of the Lifted Condensation Level: 558.20

Mean mixed layer potential temperature: 314.24

Mean mixed layer mixing ratio: 4.07

1000 hPa to 500 hPa thickness: 5904.00

Precipitable water [mm] for entire sounding: 11.54

## 72388 VEF Las Vegas Observations at 00Z 29 Jun 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	29									
930.0	693	45.0	3.0	8	5.13	35	6	324.8	342.1	325.8
925.0	748	43.6	1.6	8	4.67	35	6	323.9	339.6	324.8
918.0	818	41.4	-0.6	7	4.01	37	6	322.3	335.9	323.1
908.5	914	40.4	-1.0	8	3.92	40	5	322.3	335.5	323.0
884.0	1165	37.8	-2.2	8	3.70	89	5	322.1	334.6	322.8
878.8	1219	37.3	-2.2	8	3.71	100	5	322.1	334.7	322.9
850.0	1521	34.6	-2.4	9	3.79	80	3	322.4	335.2	323.1
820.7	1829	31.6	-2.8	11	3.81	85	4	322.5	335.3	323.2
792.8	2134	28.6	-3.2	12	3.82	115	4	322.5	335.4	323.2
765.8	2438	25.7	-3.6	14	3.84	235	8	322.5	335.5	323.3
739.7	2743	22.7	-4.0	16	3.86	240	6	322.5	335.5	323.3
703.0	3190	18.4	-4.6	21	3.88	235	10	322.4	335.5	323.2
700.0	3227	18.0	-5.0	20	3.78	235	10	322.4	335.2	323.1
664.9	3658	14.1	-6.1	24	3.66	225	8	322.7	335.1	323.4
618.2	4267	8.5	-7.7	31	3.48	220	12	323.1	334.9	323.8
605.0	4448	6.8	-8.2	33	3.42	216	15	323.2	334.8	323.8
574.0	4877	4.0	-13.6	27	2.35	205	22	324.8	333.0	325.2
557.0	5121	2.4	-16.6	23	1.88	194	19	325.7	332.4	326.1
504.0	5917	-4.9	-20.9	27	1.44	158	11	326.3	331.4	326.5
500.0	5980	-5.3	-21.3	27	1.40	155	10	326.5	331.6	326.8
492.6	6096	-6.2	-22.0	27	1.34	140	10	326.8	331.7	327.1
459.0	6647	-10.3	-25.3	28	1.07	144	13	328.4	332.3	328.6
403.7	7620	-18.9	-33.0	28	0.59	150	18	329.5	331.8	329.6
400.0	7690	-19.5	-33.5	28	0.57	150	17	329.6	331.7	329.7
395.0	7783	-19.3	-37.3	19	0.39	150	17	331.0	332.6	331.1
387.0	7935	-20.3	-42.3	12	0.24	149	18	331.6	332.6	331.7
326.9	9144	-30.2	-50.2	12	0.12	145	22	334.3	334.8	334.4
300.0	9760	-35.3	-54.3	13	0.08	155	20	335.5	335.9	335.5
279.0	10259	-39.7	-56.7	15	0.06	155	22	336.2	336.5	336.2
251.0	10973	-44.3	-59.4	17	0.05	155	26	339.6	339.9	339.6
250.0	11000	-44.5	-59.5	17	0.05	155	26	339.8	340.0	339.8
229.1	11582	-48.7	-62.7	18	0.04	115	18	342.0	342.2	342.0
229.0	11585	-48.7	-62.7	18	0.04	115	18	342.0	342.2	342.0
212.0	12091	-50.9	-63.9	20	0.03	107	13	346.2	346.4	346.2
208.7	12192	-51.6	-64.6	20	0.03	105	12	346.6	346.8	346.6
200.0	12470	-53.5	-66.5	19	0.02	50	7	347.9	348.0	347.9
199.2	12497	-53.7	-66.7	19	0.02	40	6	347.9	348.1	348.0
197.0	12567	-54.3	-67.3	19	0.02	40	6	348.1	348.2	348.1
192.0	12731	-54.5	-67.5	19	0.02	39	7	350.4	350.5	350.4
184.0	13003	-56.3	-68.3	21	0.02	37	7	351.7	351.8	351.7
175.0	13320	-56.9	-68.9	21	0.02	35	8	355.8	355.9	355.8
159.0	13920	-61.7	-72.7	22	0.01	32	9	357.6	357.6	357.6
152.0	14198	-62.1	-73.1	22	0.01	30	10	361.5	361.6	361.5
150.0	14280	-62.7	-73.7	21	0.01	30	10	361.9	361.9	361.9
148.9	14326	-63.0	-74.0	21	0.01	30	11	362.1	362.2	362.1
141.7	14630	-65.1	-76.1	21	0.01	70	15	363.6	363.7	363.6
139.0	14745	-65.9	-76.9	20	0.01	63	15	364.2	364.2	364.2
135.0	14923	-65.5	-76.5	20	0.01	53	15	368.0	368.0	368.0
128.1	15240	-67.9	-77.9	23	0.01	35	15	369.3	369.3	369.3
128.0	15244	-67.9	-77.9	23	0.01	35	15	369.3	369.3	369.3
126.0	15339	-67.7	-77.7	23	0.01	45	16	371.3	371.4	371.3
115.6	15850	-71.5	-81.5	21	0.00	100	23	373.5	373.6	373.5
110.0	16144	-73.7	-83.7	20	0.00	130	15	374.7	374.8	374.7
104.0	16470	-74.3	-83.3	24	0.00	89	10	379.6	379.7	379.6
102.0	16584	-73.5	-83.5	21	0.00	75	9	383.3	383.3	383.3
100.0	16700	-71.3	-81.3	21	0.01	60	7	389.7	389.7	389.7

94.2	17056	-69.1	-79.1	22	0.01	78	6	400.7	400.8	400.7
81.7	17906	-70.9	-80.9	22	0.01	121	4	413.7	413.7	413.7
80.7	17983	-69.8	-80.0	21	0.01	125	4	417.5	417.6	417.5
77.3	18238	-66.1	-77.1	20	0.01	104	17	430.3	430.4	430.3
76.7	18288	-66.3	-77.3	20	0.01	100	20	430.8	430.9	430.8
73.3	18560	-67.5	-78.5	20	0.01	64	19	433.9	434.0	433.9
72.9	18593	-67.2	-78.2	20	0.01	60	19	435.1	435.2	435.1
70.3	18814	-65.5	-76.5	20	0.02	64	22	443.4	443.5	443.4
70.0	18840	-65.5	-76.5	20	0.02	65	22	443.9	444.0	443.9
66.0	19202	-65.4	-76.4	20	0.02	70	25	451.8	451.9	451.8
62.7	19507	-65.3	-76.3	20	0.02	110	20	458.5	458.6	458.5
61.8	19597	-65.3	-76.3	20	0.02	107	20	460.4	460.6	460.4
57.6	20027	-62.5	-74.5	18	0.03	93	18	476.1	476.3	476.1
55.3	20280	-59.1	-71.1	20	0.05	85	17	489.5	489.8	489.5
54.1	20422	-59.2	-71.2	20	0.05	80	16	492.4	492.7	492.4
51.5	20726	-59.5	-71.5	20	0.05	85	35	498.6	498.9	498.6
50.0	20910	-59.7	-71.7	19	0.05	90	26	502.4	502.7	502.4
49.8	20935	-59.9	-71.9	19	0.05	91	26	502.5	502.8	502.5
49.0	21031	-59.2	-71.4	19	0.05	95	27	506.4	506.7	506.4
46.7	21336	-56.9	-69.8	18	0.07	70	23	518.8	519.3	518.9
46.3	21393	-56.5	-69.5	18	0.07	72	23	521.2	521.7	521.2
42.2	21982	-56.1	-69.1	18	0.08	91	20	536.2	536.8	536.2
40.9	22181	-54.3	-68.3	16	0.09	98	19	545.5	546.2	545.5
40.5	22250	-54.4	-68.3	16	0.10	100	19	547.0	547.8	547.1
32.2	23708	-55.5	-69.5	16	0.10	104	27	580.9	581.7	580.9
30.4	24075	-54.9	-68.9	16	0.12	105	29	592.1	593.1	592.2
30.0	24160	-54.1	-69.1	14	0.12	105	29	596.6	597.5	596.6
29.4	24290	-52.7	-67.7	15	0.14	99	25	603.8	605.0	603.9
29.0	24384	-52.6	-67.8	14	0.14	95	22	606.5	607.7	606.6
26.4	24985	-52.3	-68.3	13	0.15	92	24	623.8	625.1	623.9
25.5	25210	-49.5	-66.5	12	0.20	92	24	638.0	639.7	638.1
24.3	25526	-48.3	-66.3	11	0.21	90	25	650.4	652.2	650.4
21.5	26332	-48.1	-68.1	8	0.19	87	28	674.1	675.8	674.2
20.2	26744	-46.3	-67.3	7	0.22	85	29	691.7	693.8	691.8
20.0	26810	-46.5	-67.5	7	0.22	85	29	693.1	695.1	693.2
19.0	27150	-46.3	-68.3	6	0.20	90	32	703.9	705.9	704.0
18.2	27432	-47.5	-69.1	7	0.19	95	34	708.7	710.6	708.8
17.1	27846	-49.3	-70.3	7	0.17			715.8	717.5	715.9

## Station information and sounding indices

Station identifier: VEF  
 Station number: 72388  
 Observation time: 130629/0000  
 Station latitude: 36.05  
 Station longitude: -115.18  
 Station elevation: 693.0  
 Showalter index: 3.65  
 Lifted index: 3.26  
 LIFT computed using virtual temperature: 2.84  
 SWEAT index: 15.99  
 K index: 14.50  
 Cross totals index: 2.90  
 Vertical totals index: 39.90  
 Totals totals index: 42.80  
 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: 264.42

Pres [hPa] of the Lifted Condensation Level: 498.81

Mean mixed layer potential temperature: 322.56

Mean mixed layer mixing ratio: 4.02

1000 hPa to 500 hPa thickness: 5951.00

Precipitable water [mm] for entire sounding: 16.10

## 72388 VEF Las Vegas Observations at 12Z 29 Jun 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	32									
931.0	693	31.2	3.2	17	5.20	205	6	310.6	327.2	311.6
925.0	752	34.0	1.0	12	4.47	225	4	314.1	328.6	314.9
921.0	791	35.8	-1.2	10	3.82	263	4	316.3	328.9	317.0
914.0	860	37.0	-4.0	7	3.12	329	5	318.2	328.7	318.8
908.6	914	36.6	-4.4	7	3.05	20	5	318.4	328.6	318.9
878.4	1219	34.4	-6.6	7	2.66	10	13	319.1	328.2	319.6
850.0	1515	32.2	-8.8	7	2.32	0	12	319.9	327.9	320.3
846.0	1557	32.0	-9.0	7	2.30	2	11	320.1	328.0	320.5
820.5	1829	29.4	-8.9	8	2.39	15	8	320.1	328.3	320.6
800.0	2054	27.2	-8.8	9	2.47	30	9	320.1	328.6	320.6
792.6	2134	26.6	-8.9	9	2.47	35	9	320.3	328.8	320.8
765.4	2438	24.4	-9.3	10	2.47	350	5	321.1	329.6	321.6
738.9	2743	22.1	-9.8	11	2.48	340	4	321.9	330.4	322.4
700.0	3213	18.6	-10.4	13	2.49	230	6	323.1	331.7	323.5
691.0	3323	17.6	-13.4	11	1.98	225	6	323.1	330.1	323.5
663.8	3658	14.4	-13.7	13	2.02	210	6	323.3	330.4	323.7
617.1	4267	8.7	-14.1	18	2.09	195	6	323.6	330.9	324.0
593.0	4599	5.6	-14.4	22	2.12	187	9	323.6	331.1	324.1
572.7	4877	3.0	-13.8	28	2.31	180	11	323.8	331.8	324.2
504.0	5898	-6.7	-11.6	68	3.14	166	15	324.1	334.8	324.7
500.0	5960	-7.1	-12.1	67	3.04	165	15	324.3	334.8	324.9
491.3	6096	-8.4	-13.1	69	2.85	155	14	324.4	334.1	324.9
479.0	6294	-10.3	-14.6	71	2.59	159	15	324.4	333.3	324.9
477.0	6326	-10.3	-14.9	69	2.54	160	15	324.8	333.6	325.3
474.0	6375	-10.5	-20.5	44	1.59	161	15	325.1	330.8	325.4
472.0	6407	-10.7	-21.7	40	1.44	161	16	325.2	330.4	325.5
442.0	6909	-15.1	-21.1	60	1.62	172	18	325.9	331.6	326.2
426.0	7187	-17.3	-26.3	45	1.05	177	19	326.5	330.4	326.7
418.8	7315	-17.2	-31.9	27	0.64	180	20	328.3	330.7	328.4
416.0	7366	-17.1	-34.1	21	0.52	180	19	329.0	331.0	329.1
409.0	7493	-17.3	-34.3	21	0.51	180	18	330.3	332.3	330.4
402.1	7620	-17.9	-35.7	20	0.46	180	16	331.1	332.9	331.2
400.0	7660	-18.1	-36.1	19	0.44	185	17	331.4	333.1	331.5
394.0	7773	-18.5	-37.5	17	0.39	191	15	332.3	333.8	332.4
385.8	7925	-19.8	-38.3	18	0.36	200	12	332.6	334.0	332.6
340.3	8839	-27.7	-43.2	21	0.25	200	10	334.0	335.1	334.1
326.3	9144	-30.3	-44.8	23	0.22	175	16	334.4	335.3	334.5
319.0	9308	-31.7	-45.7	24	0.20	178	17	334.7	335.5	334.7
300.0	9740	-34.9	-47.9	25	0.17	185	20	336.1	336.8	336.1
299.4	9754	-35.0	-48.0	25	0.17	190	23	336.1	336.8	336.1
273.8	10363	-40.0	-51.0	30	0.13	165	23	337.5	338.1	337.6
251.0	10953	-44.9	-53.9	36	0.10	194	29	338.8	339.2	338.8
250.3	10973	-45.0	-54.0	36	0.10	195	29	338.9	339.3	338.9
250.0	10980	-45.1	-54.1	36	0.10	190	28	338.9	339.3	338.9

217.8	11887	-50.7	-59.7	34	0.06	220	14	343.9	344.2	343.9
208.0	12188	-52.5	-61.5	33	0.05	166	7	345.6	345.8	345.6
207.9	12192	-52.5	-61.5	33	0.05	165	7	345.6	345.8	345.6
200.0	12440	-55.1	-64.1	32	0.03	150	8	345.4	345.5	345.4
195.0	12601	-56.5	-65.5	31	0.03	137	8	345.6	345.8	345.6
185.0	12934	-57.5	-66.5	31	0.03	111	7	349.2	349.4	349.2
180.0	13107	-58.7	-67.7	30	0.02	97	7	350.0	350.1	350.0
175.0	13284	-58.3	-67.3	31	0.03	83	7	353.5	353.6	353.5
165.0	13651	-61.3	-70.3	29	0.02	53	7	354.5	354.6	354.5
162.0	13765	-61.1	-70.1	29	0.02	44	7	356.7	356.8	356.7
150.0	14240	-63.9	-72.9	28	0.01	5	6	359.8	359.9	359.8
146.0	14405	-64.9	-72.9	32	0.01	21	6	360.9	360.9	360.9
143.0	14531	-64.7	-72.7	32	0.01	34	5	363.4	363.4	363.4
127.1	15240	-69.0	-77.0	31	0.01	105	4	368.1	368.1	368.1
126.0	15294	-69.3	-77.3	30	0.01	101	5	368.4	368.5	368.4
123.0	15438	-68.9	-76.9	31	0.01	91	7	371.7	371.8	371.7
114.0	15887	-72.7	-80.7	29	0.01	60	14	372.8	372.8	372.8
110.0	16096	-72.9	-80.9	29	0.01	76	13	376.2	376.3	376.2
104.0	16427	-69.9	-77.9	30	0.01	102	13	388.0	388.1	388.0
100.0	16660	-69.5	-77.5	30	0.01	120	12	393.2	393.2	393.2
76.2	18288	-68.6	-76.6	31	0.02	85	11	426.8	426.9	426.8
74.1	18456	-68.5	-76.5	31	0.02	96	9	430.4	430.6	430.4
72.4	18593	-67.2	-75.2	31	0.02	105	8	436.0	436.1	436.0
71.0	18714	-66.1	-74.1	32	0.02	114	9	440.9	441.0	440.9
70.0	18800	-66.1	-74.1	32	0.02	120	10	442.6	442.8	442.6
68.9	18898	-66.0	-74.0	32	0.02	65	15	445.0	445.1	445.0
65.4	19213	-65.5	-73.5	32	0.03	78	22	452.6	452.8	452.6
62.6	19481	-63.1	-72.1	29	0.04	89	27	463.6	463.9	463.6
62.3	19507	-63.1	-72.1	29	0.04	90	28	464.2	464.4	464.2
56.5	20117	-62.8	-71.8	29	0.04	75	16	478.2	478.5	478.2
54.9	20290	-62.7	-71.7	29	0.04	84	15	482.2	482.5	482.3
53.8	20422	-62.2	-71.2	29	0.05	90	15	486.3	486.7	486.4
51.2	20726	-61.0	-70.0	29	0.06	55	17	495.9	496.3	495.9
50.0	20870	-60.5	-69.5	30	0.07	65	25	500.5	500.9	500.5
46.4	21336	-58.5	-67.9	29	0.09	80	16	516.0	516.7	516.1
41.3	22072	-55.3	-65.3	28	0.14	95	23	541.5	542.5	541.5
36.5	22860	-55.6	-66.3	25	0.14	110	31	560.3	561.4	560.3
34.8	23165	-55.7	-66.7	24	0.14	85	28	567.7	568.8	567.8
34.6	23198	-55.7	-66.7	24	0.14	86	29	568.5	569.6	568.6
31.6	23774	-53.9	-64.9	25	0.20	95	40	588.2	589.8	588.3
31.3	23838	-53.7	-64.7	25	0.20	97	39	590.5	592.1	590.5
30.1	24079	-53.9	-64.9	25	0.21	105	36	596.3	598.0	596.4
30.0	24110	-53.9	-64.9	25	0.21	105	35	597.1	598.8	597.2
28.8	24384	-53.8	-65.2	24	0.21	95	38	604.6	606.3	604.7
26.6	24884	-53.7	-65.7	22	0.21	90	32	618.5	620.3	618.6
24.2	25500	-48.9	-61.9	21	0.38	84	25	649.4	652.7	649.5
22.7	25908	-49.6	-63.2	19	0.34	80	20	658.9	661.9	659.0
21.5	26276	-50.3	-64.3	18	0.31	74	25	667.5	670.3	667.6
20.7	26518	-50.0	-64.0	18	0.34	70	28	675.5	678.6	675.6
20.0	26750	-49.7	-63.7	18	0.36	80	31	683.3	686.6	683.4
18.0	27432	-48.2	-63.9	15	0.39	85	45	708.7	712.4	708.8
17.7	27552	-47.9	-63.9	14	0.40	91	41	713.2	717.1	713.4
17.2	27737	-48.8	-64.8	14	0.37	100	35	716.2	719.8	716.4
16.7	27934	-49.7	-65.7	14	0.33	97	32	719.4	722.7	719.5
16.4	28042	-49.4	-65.5	13	0.35	95	31	723.9	727.3	724.0
13.7	29261	-45.4	-63.2	12	0.57	90	36	776.7	782.6	776.9
13.5	29341	-45.1	-63.1	11	0.58			780.2	786.3	780.5

## Station information and sounding indices

Station identifier: VEF  
 Station number: 72388  
 Observation time: 130629/1200  
 Station latitude: 36.05  
 Station longitude: -115.18  
 Station elevation: 693.0  
 Showalter index: 5.28  
 Lifted index: 5.06

LIFT computed using virtual temperature: 5.07  
 SWEAT index: 39.01  
 K index: 1.50  
 Cross totals index: -1.70  
 Vertical totals index: 39.30  
 Totals totals index: 37.60  
 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: 262.15

Pres [hPa] of the Lifted Condensation Level: 512.04

Mean mixed layer potential temperature: 317.42

Mean mixed layer mixing ratio: 3.32

1000 hPa to 500 hPa thickness: 5928.00

Precipitable water [mm] for entire sounding: 13.06

## 72388 VEF Las Vegas Observations at 00Z 30 Jun 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	2									
928.0	693	44.8	2.8	8	5.07	255	5	324.8	341.9	325.8
925.0	723	43.4	-4.6	5	2.95	255	5	323.7	333.9	324.3
916.0	814	42.2	-5.8	5	2.72	257	5	323.4	332.8	323.9
906.0	914	41.2	-5.9	5	2.73	260	4	323.4	332.8	323.9
876.3	1219	38.3	-6.2	6	2.77	250	7	323.4	333.0	324.0
850.0	1498	35.6	-6.4	7	2.80	270	6	323.4	333.1	324.0
819.0	1829	32.4	-6.5	8	2.88	290	7	323.5	333.4	324.1
791.4	2134	29.5	-6.6	9	2.95	230	4	323.5	333.7	324.1
764.8	2438	26.5	-6.8	11	3.03	240	5	323.6	333.9	324.1
753.0	2577	25.2	-6.8	11	3.06	233	6	323.5	334.1	324.1
738.7	2743	23.7	-6.8	13	3.14	225	8	323.7	334.4	324.3
700.0	3209	19.4	-6.6	17	3.35	200	7	323.9	335.4	324.6
663.5	3658	15.1	-7.6	20	3.28	195	9	324.1	335.3	324.7
617.0	4267	9.2	-8.9	27	3.18	205	7	324.1	335.0	324.8
587.0	4685	5.2	-9.8	33	3.11	225	6	324.1	334.8	324.7
573.1	4877	3.5	-10.9	34	2.92	235	6	324.4	334.4	324.9
500.0	5970	-6.1	-17.1	41	2.01	260	5	325.5	332.6	325.9
497.0	6017	-6.5	-17.5	41	1.96	247	4	325.6	332.5	326.0
491.9	6096	-7.1	-18.1	41	1.88	225	3	325.8	332.5	326.2
425.0	7216	-15.7	-26.7	38	1.02	218	4	328.8	332.5	328.9
415.0	7395	-16.5	-32.5	24	0.60	217	5	330.0	332.3	330.1
402.7	7620	-18.1	-34.1	23	0.53	215	5	330.7	332.8	330.8
400.0	7670	-18.5	-34.5	23	0.52	220	6	330.9	332.9	331.0
375.0	8148	-21.5	-40.5	16	0.30	179	4	333.0	334.2	333.1
355.6	8534	-24.7	-42.0	19	0.27	145	3	333.8	334.9	333.9

332.0	9033	-28.9	-43.9	22	0.24	153	10	334.7	335.7	334.8
326.8	9144	-29.7	-44.7	22	0.22	155	11	335.1	336.0	335.2
300.0	9750	-33.9	-48.9	21	0.15	205	12	337.5	338.1	337.5
296.0	9844	-34.9	-48.9	23	0.15	210	13	337.4	338.0	337.4
286.9	10058	-36.6	-49.3	26	0.15	220	16	338.0	338.6	338.0
262.6	10668	-41.4	-50.5	37	0.14	210	18	339.6	340.2	339.6
262.0	10684	-41.5	-50.5	37	0.14	210	18	339.6	340.3	339.7
250.0	11000	-44.1	-53.1	36	0.11	205	16	340.4	340.9	340.4
204.0	12333	-55.1	-64.1	32	0.03	200	16	343.4	343.6	343.4
200.0	12460	-55.5	-64.5	32	0.03	200	16	344.7	344.9	344.7
180.0	13125	-59.1	-67.1	35	0.03	198	15	349.4	349.5	349.4
171.0	13444	-61.7	-69.7	34	0.02	197	14	350.2	350.3	350.2
163.0	13740	-61.9	-69.9	34	0.02	196	13	354.7	354.8	354.7
150.0	14250	-64.7	-72.7	32	0.01	195	12	358.4	358.5	358.4
140.0	14668	-66.7	-74.7	32	0.01	130	9	362.1	362.1	362.1
136.0	14843	-65.7	-73.7	32	0.01	102	8	366.8	366.9	366.8
127.3	15240	-68.3	-76.3	31	0.01	40	5	369.1	369.2	369.1
126.0	15303	-68.7	-76.7	31	0.01	49	5	369.5	369.6	369.5
123.0	15447	-68.3	-76.3	31	0.01	70	4	372.8	372.8	372.8
119.0	15644	-69.9	-77.9	30	0.01	99	4	373.4	373.4	373.4
114.0	15898	-70.5	-78.5	30	0.01	137	3	376.9	376.9	376.9
111.0	16055	-72.1	-80.1	29	0.01	160	3	376.8	376.8	376.8
105.0	16382	-71.7	-79.7	29	0.01	91	4	383.6	383.6	383.6
100.0	16670	-70.5	-78.5	30	0.01	30	5	391.3	391.3	391.3
91.6	17191	-70.9	-78.9	30	0.01	82	13	400.4	400.4	400.4
88.8	17374	-69.8	-77.8	30	0.01	100	16	406.1	406.1	406.1
84.4	17678	-68.0	-76.0	31	0.01	95	1	415.6	415.7	415.6
81.7	17875	-66.9	-74.9	31	0.02	76	11	421.9	422.0	421.9
80.3	17983	-66.9	-74.9	31	0.02	65	16	424.0	424.1	424.0
76.3	18288	-67.0	-75.0	31	0.02	55	14	429.9	430.1	429.9
73.4	18522	-67.1	-75.1	31	0.02	90	19	434.6	434.7	434.6
72.5	18593	-66.7	-74.7	32	0.02	100	21	436.9	437.0	436.9
70.0	18810	-65.5	-73.5	32	0.03	105	19	443.9	444.1	443.9
68.0	18987	-63.9	-72.9	28	0.03	89	17	451.1	451.2	451.1
65.7	19202	-64.5	-73.5	28	0.03	70	15	454.3	454.5	454.3
65.6	19208	-64.5	-73.5	28	0.03	70	15	454.4	454.6	454.4
57.5	20022	-60.9	-69.9	29	0.05	92	26	480.0	480.4	480.0
56.6	20117	-61.1	-70.3	29	0.05	95	27	481.6	481.9	481.6
53.9	20422	-61.8	-71.5	26	0.05	125	15	486.8	487.1	486.8
52.1	20634	-62.3	-72.3	25	0.04	101	16	490.4	490.7	490.5
51.3	20726	-61.3	-71.3	25	0.05	90	17	494.9	495.2	494.9
50.0	20890	-59.5	-69.5	26	0.07	95	22	502.8	503.3	502.9
48.0	21147	-56.7	-66.7	27	0.10	89	20	515.4	516.1	515.4
46.6	21336	-56.1	-66.4	26	0.11	85	18	521.3	522.1	521.3
44.4	21641	-55.0	-65.8	25	0.12	100	27	531.0	531.8	531.0
43.3	21805	-54.5	-65.5	24	0.13	92	26	536.2	537.2	536.2
42.4	21946	-54.5	-65.7	24	0.13	85	25	539.5	540.5	539.5
40.4	22250	-54.6	-66.2	22	0.13	100	28	546.6	547.6	546.7
38.5	22555	-54.7	-66.8	21	0.12	90	32	553.9	554.9	554.0
35.0	23165	-54.9	-67.8	19	0.12	120	27	568.7	569.7	568.8
34.7	23223	-54.9	-67.9	18	0.12	114	26	570.2	571.1	570.2
33.4	23470	-54.2	-67.4	18	0.13	90	24	578.4	579.5	578.5
31.9	23774	-53.2	-66.8	18	0.15	95	24	588.7	589.9	588.8
30.4	24079	-52.3	-66.3	17	0.17	80	25	599.2	600.6	599.2
30.0	24160	-52.1	-66.1	17	0.18	85	25	602.0	603.4	602.1
29.8	24203	-51.7	-66.7	15	0.16	86	26	604.2	605.6	604.3
29.0	24384	-52.0	-67.0	15	0.16	90	29	608.1	609.5	608.2
27.9	24630	-52.5	-67.5	15	0.16	90	26	613.5	614.8	613.6
26.4	24994	-51.6	-67.6	13	0.16	90	22	625.9	627.3	625.9
24.0	25603	-50.1	-67.8	11	0.17	110	30	647.1	648.7	647.2
22.2	26118	-48.9	-67.9	9	0.18	85	33	665.6	667.3	665.7



21.9	26213	-49.1	-68.3	9	0.18	80	33	667.6	669.2	667.7
20.0	26800	-50.7	-70.7	8	0.14	85	31	680.2	681.5	680.3
19.6	26932	-50.7	-71.7	7	0.12	85	35	684.2	685.3	684.2
19.0	27127	-49.8	-72.2	5	0.12	85	42	692.7	693.8	692.7
18.2	27432	-48.5	-73.1	4	0.11	80	34	706.2	707.3	706.2
16.6	28042	-45.8	-74.7	2	0.09	85	32	733.9	734.9	733.9
16.2	28187	-45.1	-75.1	2	0.09	81	33	740.6	741.6	740.7
15.1	28651	-44.9	-76.5	2	0.08	70	35	756.1	756.9	756.1
13.2	29566	-44.5	-79.2	1	0.06	95	23	787.5	788.2	787.6
13.0	29658	-44.5	-79.5	1	0.06	95	24	790.8	791.4	790.8
11.5	30480	-42.5	-78.4	1	0.08	95	32	826.1	827.0	826.1
10.0	31430	-40.1	-77.1	1	0.11	95	41	868.7	870.1	868.8
9.6	31699	-40.1	-77.1	1	0.11	105	41	878.6	880.0	878.6
9.4	31852	-40.1	-77.1	1	0.11			884.2	885.7	884.3

## Station information and sounding indices

Station identifier: VEF  
 Station number: 72388  
 Observation time: 130630/0000  
 Station latitude: 36.05  
 Station longitude: -115.18  
 Station elevation: 693.0  
 Showalter index: 3.79  
 Lifted index: 3.75

LIFT computed using virtual temperature: 3.50  
 SWEAT index: 17.00  
 K index: 9.30

Cross totals index: -0.30  
 Vertical totals index: 41.70  
 Totals totals index: 41.40

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: 259.02

Pres [hPa] of the Lifted Condensation Level: 459.54

Mean mixed layer potential temperature: 323.46

Mean mixed layer mixing ratio: 2.84

1000 hPa to 500 hPa thickness: 5968.00

Precipitable water [mm] for entire sounding: 14.65

## 72388 VEF Las Vegas Observations at 12Z 30 Jun 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	3									
928.0	693	33.2	1.2	13	4.52	220	4	313.0	327.6	313.8
925.0	725	34.2	-1.8	10	3.64	215	6	314.3	326.2	315.0
910.0	873	37.8	-4.2	7	3.09	215	6	319.4	329.9	320.0
905.9	914	37.5	-4.5	7	3.05	215	6	319.6	329.9	320.2
876.0	1219	35.6	-6.4	7	2.72	345	12	320.6	329.9	321.2
861.0	1376	34.6	-7.4	6	2.56	348	9	321.2	330.0	321.7
850.0	1492	33.8	-8.2	6	2.43	350	7	321.5	329.9	322.0

818.5	1829	31.2	-8.3	7	2.50	295	4	322.3	331.0	322.8
799.0	2045	29.6	-8.4	8	2.55	341	5	322.8	331.6	323.3
790.9	2134	28.8	-8.3	8	2.59	0	5	322.8	331.8	323.3
763.7	2438	25.9	-8.1	10	2.74	350	5	322.9	332.4	323.5
737.5	2743	22.9	-7.8	12	2.90	345	7	323.0	332.9	323.6
700.0	3197	18.6	-7.4	16	3.15	335	2	323.1	333.8	323.7
663.0	3658	14.1	-6.7	23	3.50	165	1	323.1	335.0	323.8
657.0	3734	13.4	-6.6	24	3.57	161	2	323.1	335.2	323.8
615.9	4267	8.8	-8.6	28	3.25	135	9	323.8	334.9	324.4
572.0	4877	3.4	-10.9	34	2.92	115	13	324.4	334.5	325.0
567.0	4949	2.8	-11.2	35	2.88	120	13	324.5	334.4	325.1
523.0	5596	-2.7	-17.7	31	1.83	165	10	325.5	332.0	325.8
505.0	5872	-5.5	-13.5	53	2.69	184	9	325.3	334.7	325.9
500.0	5950	-6.1	-14.1	53	2.58	190	9	325.5	334.5	326.1
490.7	6096	-7.4	-15.4	53	2.37	195	8	325.7	334.0	326.2
467.0	6481	-10.7	-18.7	52	1.88	199	8	326.2	332.9	326.6
434.0	7039	-15.9	-20.6	67	1.72	204	8	326.5	332.7	326.9
428.0	7144	-16.7	-22.7	60	1.45	205	8	326.8	332.1	327.1
411.0	7448	-18.7	-24.7	59	1.26	208	8	328.0	332.7	328.3
405.0	7558	-18.9	-27.9	45	0.96	209	8	329.2	332.7	329.4
401.6	7620	-19.4	-27.8	48	0.98	210	8	329.3	332.9	329.4
400.0	7650	-19.7	-27.7	49	0.99	210	8	329.3	333.0	329.5
391.0	7819	-21.1	-28.1	53	0.97	213	8	329.6	333.2	329.8
381.0	8010	-21.9	-31.9	40	0.70	216	8	331.0	333.7	331.1
372.0	8186	-22.3	-32.3	40	0.69	219	8	332.8	335.4	332.9
363.0	8366	-23.3	-40.3	20	0.32	222	8	333.8	335.0	333.8
342.0	8799	-26.7	-39.7	28	0.36	229	9	334.9	336.3	334.9
325.9	9144	-29.7	-42.2	29	0.29	235	9	335.4	336.6	335.5
309.0	9523	-32.9	-44.9	29	0.23	216	10	336.0	337.0	336.1
300.0	9730	-34.9	-43.9	39	0.26	205	11	336.1	337.1	336.1
292.0	9917	-36.1	-44.1	44	0.26	206	11	337.0	338.0	337.0
283.0	10132	-37.7	-47.7	34	0.18	208	12	337.7	338.5	337.7
264.0	10605	-41.3	-51.3	33	0.13	212	12	339.2	339.8	339.2
250.0	10970	-44.7	-54.7	32	0.09	215	13	339.5	339.9	339.5
200.0	12430	-55.7	-64.7	32	0.03	285	15	344.4	344.6	344.4
188.5	12802	-58.6	-67.1	32	0.02	280	20	345.6	345.8	345.7
176.0	13233	-61.9	-69.9	34	0.02	238	13	347.0	347.1	347.0
171.0	13411	-62.4	-70.4	33	0.02	220	10	349.1	349.2	349.1
170.0	13447	-62.5	-70.5	33	0.02	223	10	349.5	349.6	349.5
168.0	13520	-61.5	-69.5	34	0.02	229	9	352.3	352.4	352.3
158.0	13900	-61.9	-69.9	34	0.02	262	7	357.9	358.0	357.9
150.0	14220	-64.3	-72.3	33	0.01	290	5	359.1	359.2	359.1
133.0	14947	-69.7	-77.7	30	0.01	343	4	362.1	362.1	362.1
126.6	15240	-70.2	-78.2	30	0.01	5	4	366.3	366.4	366.3
125.0	15316	-70.3	-78.3	30	0.01	0	3	367.4	367.5	367.4
120.3	15545	-71.7	-79.7	29	0.01	345	1	368.9	369.0	368.9
119.0	15607	-72.1	-80.1	29	0.01	250	3	369.4	369.4	369.4
116.0	15758	-71.1	-79.1	30	0.01	227	5	373.9	373.9	373.9
107.0	16236	-71.7	-79.7	29	0.01	152	10	381.5	381.5	381.5
106.0	16291	-71.5	-79.5	30	0.01	144	10	382.9	382.9	382.9
105.0	16347	-69.7	-77.7	30	0.01	135	11	387.4	387.4	387.4
103.0	16463	-68.3	-76.3	31	0.01	117	12	392.2	392.2	392.2
100.0	16640	-68.3	-76.3	31	0.01	90	14	395.5	395.6	395.5
93.1	17069	-68.3	-76.3	31	0.01	55	2	403.7	403.8	403.7
84.1	17678	-68.3	-76.3	31	0.01	90	18	415.6	415.7	415.6
82.5	17791	-68.3	-76.3	31	0.01	99	16	417.9	417.9	417.9
79.9	17983	-66.7	-74.7	32	0.02	115	13	424.9	425.0	424.9
76.0	18288	-64.2	-72.2	33	0.03	70	11	436.3	436.4	436.3
74.3	18425	-63.1	-71.1	33	0.04	81	13	441.5	441.7	441.5
72.3	18593	-63.6	-71.6	33	0.03	95	16	444.0	444.2	444.0
70.0	18790	-64.1	-72.1	33	0.03	75	15	446.9	447.1	446.9

68.8	18898	-64.4	-72.4	33	0.03	75	14	448.5	448.7	448.5
65.4	19202	-65.3	-73.3	32	0.03	105	18	452.9	453.1	452.9
64.8	19261	-65.5	-73.5	32	0.03	104	18	453.8	454.0	453.8
62.3	19507	-63.9	-72.2	31	0.04	100	16	462.7	462.9	462.7
59.2	19812	-61.8	-70.5	30	0.05	65	16	473.8	474.2	473.9
57.4	20008	-60.5	-69.5	30	0.06	75	25	481.1	481.5	481.1
56.4	20117	-60.4	-69.3	30	0.06	80	30	483.9	484.3	483.9
53.7	20422	-59.9	-68.9	30	0.07	110	22	491.7	492.1	491.7
50.0	20870	-59.3	-68.3	30	0.08	85	22	503.3	503.9	503.3
48.7	21031	-59.2	-68.2	30	0.08	80	22	507.2	507.8	507.2
46.4	21338	-59.1	-68.1	30	0.09	105	26	514.6	515.3	514.7
46.4	21336	-59.1	-68.1	30	0.09	105	26	514.6	515.2	514.6
44.2	21641	-57.1	-66.8	28	0.11	80	23	526.5	527.3	526.6
43.3	21773	-56.3	-66.3	27	0.12	95	21	531.8	532.6	531.8
42.1	21946	-55.8	-65.8	28	0.13	115	19	537.1	538.0	537.1
40.2	22250	-55.0	-65.0	28	0.15	85	22	546.5	547.6	546.6
39.0	22439	-54.5	-64.5	28	0.17	83	22	552.5	553.7	552.5
34.8	23165	-56.3	-67.0	25	0.13	75	20	566.1	567.1	566.1
33.5	23406	-56.9	-67.9	24	0.12	75	30	570.6	571.6	570.7
33.2	23470	-56.5	-67.5	24	0.13	75	33	573.3	574.3	573.3
31.6	23774	-54.8	-65.8	24	0.17	95	26	585.8	587.2	585.9
31.2	23859	-54.3	-65.3	25	0.19	91	27	589.4	590.9	589.4
30.1	24079	-54.1	-65.1	25	0.20	80	31	595.7	597.3	595.7
30.0	24110	-54.1	-65.1	25	0.20	80	33	596.6	598.2	596.6
28.8	24384	-53.8	-65.2	24	0.21	90	30	604.6	606.3	604.7
27.4	24689	-53.5	-65.2	23	0.22	90	41	613.7	615.5	613.8
26.5	24908	-53.3	-65.3	22	0.22	94	39	620.3	622.2	620.4
22.7	25908	-48.9	-63.3	17	0.34	110	30	661.3	664.2	661.4
22.0	26121	-47.9	-62.9	16	0.37	103	28	670.3	673.6	670.4
21.7	26213	-47.9	-63.0	16	0.37	100	27	673.0	676.3	673.1
20.0	26750	-47.9	-63.9	14	0.35	95	31	688.8	692.1	688.9
18.9	27127	-48.0	-64.9	12	0.33	95	40	699.8	702.9	700.0
18.0	27432	-48.1	-65.7	11	0.31	90	29	708.9	711.8	709.0
14.5	28868	-48.5	-69.5	7	0.23	84	32	753.1	755.4	753.2
13.6	29292	-45.5	-68.5	6	0.28	82	33	777.2	780.2	777.4
12.5	29870	-44.0	-69.2	4	0.27	80	34	801.8	804.8	801.9
12.1	30074	-43.5	-69.5	4	0.27			810.7	813.7	810.8

## Station information and sounding indices

Station identifier: VEF  
 Station number: 72388  
 Observation time: 130630/1200  
 Station latitude: 36.05  
 Station longitude: -115.18  
 Station elevation: 693.0  
 Showalter index: 5.26  
 Lifted index: 5.67

LIFT computed using virtual temperature: 5.59  
 SWEAT index: 22.98  
 K index: 5.70  
 Cross totals index: -2.10  
 Vertical totals index: 39.90  
 Totals totals index: 37.80  
 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: 261.22  
Pres [hPa] of the Lifted Condensation Level: 498.88  
Mean mixed layer potential temperature: 318.66  
Mean mixed layer mixing ratio: 3.12  
1000 hPa to 500 hPa thickness: 5947.00  
Precipitable water [mm] for entire sounding: 15.03

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)

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