72388 VEF Las Vegas Observations at 00Z 20 Jul 2023

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	34									
931.0	697	42.6	7.6	12	7.08	230	11	322.3	345.5	323.6
926.0	752	41.2	6.2	12	6.46	255	13	321.3	342.6	322.6
925.0	763	41.4	6.4	12	6.56	260	13	321.6	343.2	322.9
921.0	803	40.9	6.5	13	6.65	265	13	321.5	343.3	322.8
919.0	823	40.6	6.6	13	6.69	263	13	321.4	343.4	322.7
911.0	902	39.6	6.4	13	6.67	255	15	321.2	343.1	322.5
882.0	1196	36.1	5.8	15	6.58	230	23	320.5	342.0	321.8
853.0	1499	32.4	5.1	18	6.48	230	23	319.7	340.9	321.0
850.0	1531	32.0	5.0	18	6.47	230	23	319.6	340.8	320.9
797.0	2093	26.6	4.3	24	6.56	215	19	319.9	341.2	321.1
705.0	3164	16.4	2.9	40	6.72	210	17	320.0	341.9	321.2
700.0	3226	15.8	2.8	42	6.73	205	17	319.9	341.9	321.2
655.0	3785	10.5	1.1	52	6.39	170	12	320.1	340.9	321.3
651.0	3836	10.0	1.0	54	6.36	177	12	320.1	340.9	321.3
628.0	4134	8.3	-5.2	38	4.14	220	11	321.5	335.4	322.3
626.0	4161	8.2	-5.8	37	3.98	220	11	321.6	335.0	322.4
623.0	4200	8.0	-6.2	36	3.89	220	12	321.8	334.9	322.6
602.0	4482	6.2	-8.8	33	3.28	227	13	322.9	334.1	323.6
538.0	5386	-1.1	-12.4	42	2.75	250	16	324.8	334.3	325.3
523.0	5614	-3.0	-13.3	45	2.63	235	17	325.2	334.3	325.7
517.0	5707	-3.7	-13.7	46	2.58	244	16	325.3	334.3	325.9
509.0	5830	-4.3	-17.1	36	1.97	255	15	326.0	333.0	326.4
500.0	5970	-5.1	-21.1	27	1.43	245	20	326.8	331.9	327.0
494.0	6064	-5.7	-22.2	26	1.32	240	19	327.1	331.9	327.4
478.0	6320	-7.4	-25.1	23	1.05	250	19	328.2	332.1	328.4
461.0	6602	-9.2	-28.3	20	0.81	250	19	329.3	332.4	329.5
451.0	6773	-10.3	-30.3	18	0.69	248	20	330.0	332.6	330.1
444.0	6893	-10.1	-32.1	15	0.59	246	20	331.7	334.0	331.9
438.0	6998	-10.8	-33.3	14	0.53	245	21	332.2	334.2	332.3
413.0	7448	-13.7	-38.7	10	0.33	231	26	334.0	335.4	334.1
412.0	7466	-13.9	-38.8	10	0.33	230	26	334.0	335.4	334.1
400.0	7690	-15.9	-39.9	11	0.30	230	27	334.2	335.4	334.3
380.0	8073	-19.1	-38.2	17	0.37	240	33	334.9	336.4	335.0
372.0	8232	-20.5	-37.5	20	0.41	239	33	335.1	336.8	335.2
344.0	8802	-24.4	-42.9	16	0.25	235	32	337.4	338.4	337.4
326.0	9193	-27.2	-46.5	14	0.18	230	28	338.8	339.6	338.9
315.0	9443	-28.9	-48.9	13	0.14	230	33	339.8	340.4	339.8
300.0	9790	-31.9	-43.9	29	0.26	230	41	340.3	341.4	340.4
291.0	10003	-33.5	-43.5	36	0.28	229	42	341.0	342.2	341.1
258.0	10828	-40.5	-45.5	59	0.25	225	45	342.6	343.7	342.7
257.0	10854	-40.7	-46.2	55	0.24	225	45	342.7	343.7	342.7
250.0	11040	-42.3	-51.3	37	0.14	225	44	343.0	343.6	343.1
245.0	11177	-43.3	-52.3	36	0.12	225	45	343.5	344.1	343.6
238.0	11372	-44.5	-49.2	59	0.18	225	48	344.6	345.4	344.6
232.0	11542	-45.6	-51.7	50	0.14	225	50	345.4	346.1	345.5
224.0	11776	-47.1	-55.1	39	0.10	225	49	346.6	347.1	346.6
221.0	11865	-47.7	-56.3	36	0.08	225	48	347.1	347.4	347.1
206.0	12327	-50.7	-62.7	23	0.04	229	41	349.4	349.6	349.4
200.0	12520	-51.3	-67.3	13	0.02	230	38	351.4	351.5	351.4
190.0	12851	-53.4	-71.4	9	0.01	230	36	353.2	353.2	353.2
185.0	13023	-54.5	-73.5	8	0.01	225	34	354.1	354.1	354.1
175.0	13372	-56.8	-74.2	9	0.01	215	31	355.9	356.0	355.9
152.0	14257	-62.7	-76.1	15	0.01	235	26	360.4	360.5	360.4
150.0	14340	-63.3	-76.3	16	0.01	235	25	360.8	360.9	360.8
145.0	14548	-64.3	-77.3	15	0.01	242	20	362.6	362.6	362.6
143.0	14632	-64.7	-77.7	15	0.01	245	18	363.3	363.4	363.3
135.0	14983	-66.5	-79.5	15	0.01	223	15	366.2	366.2	366.2
134.0	15028	-66.6	-79.6	15	0.01	220	15	366.8	366.8	366.8
133.0	15073	-66.7	-79.7	14	0.01	220	16	367.4	367.4	367.4
123.0	15544	-67.6	-82.1	11	0.00	220	32	374.0	374.1	374.0
117.0	15845	-68.2	-83.7	9	0.00	230	25	378.3	378.4	378.4
114.0	16001	-68.5	-84.5	8	0.00	215	21	380.6	380.6	380.6
111.0	16160	-69.2	-84.9	9	0.00	200	16	382.2	382.2	382.2
106.0	16435	-70.4	-85.6	9	0.00	220	17	385.0	385.0	385.0
104.0	16548	-70.9	-85.9	9	0.00	215	18	386.1	386.1	386.1
100.0	16780	-71.9	-86.9	9	0.00	205	19	388.6	388.6	388.6
97.0	16959	-72.3	-87.3	9	0.00	225	12	391.2	391.2	391.2
95.5	17050	-72.5	-87.5	9	0.00	220	11	392.5	392.5	392.5
94.3	17125	-72.7	-86.7	11	0.00	206	11	393.6	393.6	393.6
92.0	17270	-72.1	-86.1	11	0.00	180	10	397.6	397.6	397.6
90.7	17353	-71.7	-85.7	11	0.00	185	13	399.9	400.0	399.9
89.2	17451	-71.3	-86.3	9	0.00	192	15	402.6	402.7	402.6
85.0	17740	-70.3	-86.3	8	0.00	210	24	410.3	410.3	410.3
79.0	18177	-68.7	-86.2	6	0.00	230	17	422.2	422.3	422.2
76.0	18409	-67.9	-86.2	6	0.00	305	8	428.7	428.7	428.7
75.0	18488	-67.6	-86.2	6	0.00	10	7	430.9	430.9	430.9
72.0	18732	-66.7	-86.1	5	0.00	100	12	437.8	437.8	437.8
70.0	18900	-66.1	-86.1	5	0.00	95	14	442.6	442.7	442.6
68.8	19005	-65.9	-86.9	4	0.00	107	18	445.3	445.3	445.3
67.0	19167	-65.0	-86.9	3	0.00	125	24	450.6	450.6	450.6
62.0	19640	-62.4	-86.9	2	0.00	190	14	466.5	466.5	466.5
61.1	19730	-61.9	-86.9	2	0.00	233	11	469.5	469.5	469.5
59.0	19947	-61.0	-86.2	2	0.00	335	5	476.3	476.3	476.3
58.0	20054	-60.5	-85.9	2	0.00	0	10	479.6	479.7	479.6
57.0	20162	-60.1	-85.5	2	0.00	35	9	483.1	483.1	483.1
56.0	20272	-59.6	-85.2	2	0.01	65	12	486.6	486.6	486.6
54.0	20499	-58.6	-84.5	2	0.01	80	8	493.9	493.9	493.9
53.0	20615	-58.1	-84.1	2	0.01	65	9	497.7	497.7	497.7
52.5	20674	-57.9	-83.9	2	0.01	63	10	499.6	499.6	499.6
50.0	20980	-58.9	-83.9	3	0.01	55	18	504.2	504.3	504.2
49.0	21107	-58.9	-83.9	3	0.01	45	18	507.3	507.3	507.3
45.0	21642	-58.7	-83.7	3	0.01	90	29	520.1	520.2	520.1
41.1	22212	-57.7	-82.7	3	0.01	102	27	536.3	536.4	536.3
39.2	22511	-57.1	-82.1	3	0.01	108	26	545.1	545.2	545.1
37.5	22793	-56.3	-82.3	2	0.01	113	25	554.1	554.2	554.1
37.0	22878	-56.1	-82.1	2	0.01	115	25	556.8	556.9	556.8
35.3	23178	-55.3	-81.3	3	0.02	102	33	566.3	566.5	566.4
35.0	23232	-55.3	-81.1	3	0.02	100	34	567.7	567.9	567.7
33.5	23512	-55.3	-80.3	3	0.02	99	31	574.9	575.0	574.9
31.2	23967	-53.5	-79.5	3	0.02	96	25	591.5	591.7	591.5
30.5	24113	-53.1	-79.1	3	0.03	96	23	596.5	596.7	596.5
30.0	24220	-52.9	-78.9	3	0.03	95	22	599.8	600.1	599.8
29.0	24440	-51.9	-78.3	3	0.03	125	18	608.4	608.6	608.4
28.0	24667	-50.9	-77.7	3	0.03	110	14	617.3	617.6	617.3
27.6	24760	-50.5	-77.5	3	0.04	102	17	621.0	621.3	621.0
26.3	25075	-49.3	-76.3	3	0.05	76	28	633.0	633.4	633.0
26.0	25150	-49.3	-76.3	3	0.05	70	30	635.1	635.5	635.1
25.0	25407	-49.3	-76.3	3	0.05	85	24	642.2	642.7	642.2
24.7	25486	-49.3	-76.3	3	0.05	82	21	644.5	644.9	644.5
24.0	25674	-49.3	-76.3	3	0.05	75	15	649.8	650.2	649.8
23.9	25702	-49.3	-76.3	3	0.05	75	16	650.5	651.0	650.6
23.0	25954	-49.2	-76.0	3	0.05	70	25	658.1	658.6	658.1
22.0	26245	-49.0	-75.5	3	0.06	45	17	667.0	667.6	667.0
20.1	26837	-48.7	-74.7	3	0.08	88	34	685.4	686.1	685.4
20.0	26870	-48.7	-74.7	3	0.08	90	35	686.3	687.1	686.4
19.1	27173	-48.1	-75.1	3	0.08	81	30	697.3	698.0	697.3
19.0	27208	-48.0	-75.0	3	0.08	80	29	698.5	699.3	698.5
18.4	27419	-47.7	-74.7	3	0.08	89	34	706.0	706.9	706.0
18.0	27565	-47.5	-74.5	3	0.09	95	38	711.0	711.9	711.1
15.9	28385	-46.5	-73.5	3	0.12	105	33	740.0	741.2	740.1
15.0	28775	-45.0	-72.5	3	0.14	110	30	757.3	758.9	757.4
14.0	29236	-43.3	-71.2	3	0.18	100	33	778.3	780.3	778.4
13.9	29284	-43.1	-71.1	3	0.19	100	32	780.5	782.6	780.6
13.7	29382	-43.1	-71.1	3	0.19	101	30	783.8	785.9	783.9
13.0	29734	-43.4	-70.9	3	0.21	105	23	794.7	797.0	794.8
12.1	30217	-43.7	-70.7	3	0.23	101	23	810.0	812.6	810.1
12.0	30273	-43.7	-70.8	3	0.23	100	23	811.9	814.5	812.0
11.0	30857	-43.5	-71.3	3	0.23	85	24	832.9	835.6	833.0
10.7	31043	-43.5	-71.5	3	0.23			839.6	842.4	839.8

Station information and sounding indices

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                        Station identifier: VEF
                            Station number: 72388
                          Observation time: 230720/0000
                          Station latitude: 36.05
                         Station longitude: -115.18
                           Station elevation: 697.0
                             Showalter index: 1.48
                                Lifted index: 0.62
           LIFT computed using virtual temperature: 0.04
                                 SWEAT index: 183.36
                                     K index: 29.10
                              Cross totals index: 10.10
                           Vertical totals index: 37.10
                            Totals totals index: 47.20
            Convective Available Potential Energy: 99.27
                   CAPE using virtual temperature: 110.07
                             Convective Inhibition: -151.88
                   CINS using virtual temperature: -58.08
                                Equilibrum Level: 359.68
        Equilibrum Level using virtual temperature: 344.51
                          Level of Free Convection: 376.23
                   LFCT using virtual temperature: 485.46
                             Bulk Richardson Number: 26.84
                  Bulk Richardson Number using CAPV: 29.76
         Temp [K] of the Lifted Condensation Level: 272.73
       Pres [hPa] of the Lifted Condensation Level: 564.55
          Equivalent potential temp [K] of the LCL: 342.74
            Mean mixed layer potential temperature: 321.13
                     Mean mixed layer mixing ratio: 6.64
                     1000 hPa to 500 hPa thickness: 5936.00
       Precipitable water [mm] for entire sounding: 25.14
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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)
