

72387 DRA Mercury Observations at 00Z 25 Jun 1994

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	26									
925.0										
898.0	1009	40.4	6.4	13	6.76	210	12	323.3	345.7	324.7
894.0	1050	38.0	9.0	17	8.12	210	12	321.3	347.7	322.8
877.3	1219	36.2	7.6	17	7.51	210	12	321.1	345.6	322.6
850.0	1503	33.2	5.2	17	6.56	210	12	320.9	342.4	322.2
819.0	1828	30.0	3.0	18	5.81	205	12	320.9	340.1	322.0
791.0	2133	26.9	0.9	18	5.18	200	13	320.9	338.0	321.9
763.9	2438	23.9	-1.2	19	4.59	195	15	320.8	336.1	321.7
737.8	2743	20.8	-3.3	19	4.07	195	17	320.7	334.3	321.5
706.0	3128	17.0	-6.0	20	3.48	195	20	320.5	332.2	321.2
700.0	3201	16.8	-6.2	20	3.45	195	21	321.1	332.7	321.7
688.0	3348	17.0	-8.0	17	3.06	193	21	322.9	333.3	323.5
662.9	3657	14.3	-10.1	18	2.70	190	21	323.3	332.6	323.9
616.0	4267	9.1	-14.1	18	2.10	180	25	324.1	331.5	324.5
574.0	4854	4.0	-18.0	18	1.62	194	25	324.8	330.6	325.1
572.4	4876	3.9	-18.1	18	1.61	195	25	324.9	330.6	325.2
530.5	5486	-0.1	-21.5	18	1.30	230	34	327.3	332.1	327.6
500.0	5960	-3.1	-24.1	18	1.10	230	34	329.2	333.2	329.4
491.5	6095	-4.0	-24.8	18	1.05	230	35	329.7	333.6	329.9
470.0	6449	-6.5	-26.5	19	0.94	231	36	330.9	334.4	331.0
403.7	7619	-16.1	-33.3	21	0.58	235	41	333.1	335.3	333.2
400.0	7690	-16.7	-33.7	22	0.56	235	41	333.2	335.4	333.3
356.4	8534	-22.9	-38.4	23	0.39	245	44	336.0	337.6	336.1
327.9	9143	-27.4	-41.8	24	0.30	250	37	337.9	339.1	337.9
318.0	9367	-29.1	-43.1	25	0.27	246	36	338.6	339.7	338.6
301.1	9753	-32.3	-43.5	32	0.27	240	34	339.4	340.5	339.4
300.0	9780	-32.5	-43.5	33	0.27	240	34	339.4	340.6	339.5
263.6	10667	-40.5	-50.0	35	0.15	250	38	340.6	341.2	340.6
250.0	11030	-43.7	-52.7	36	0.12	255	38	341.0	341.5	341.0
229.9	11582	-48.1	-56.6	37	0.08	265	37	342.6	342.9	342.6
208.0	12239	-53.3	-61.3	37	0.05	261	43	344.3	344.5	344.3
200.0	12490	-54.7	-62.7	36	0.04	260	45	346.0	346.2	346.0
165.0	13696	-63.3	-70.3	38	0.02	250	49	351.1	351.2	351.1
164.5	13715	-63.4	-70.3	38	0.02	250	49	351.4	351.4	351.4
150.0	14280	-64.9	-71.9	37	0.02	245	49	358.1	358.2	358.1
127.8	15239	-67.9	-74.5	39	0.01	245	34	369.5	369.5	369.5
104.3	16459	-71.7	-77.7	40	0.01	225	24	384.3	384.4	384.3
103.0	16536	-71.9	-77.9	40	0.01	225	24	385.3	385.3	385.3
101.0	16651	-72.1	-78.1	40	0.01	225	24	387.1	387.1	387.1
100.0	16710	-71.7	-77.7	40	0.01	225	24	388.9	389.0	388.9
99.2	16760	-71.4	-77.6	40	0.01	225	24	390.4	390.4	390.4
94.9	17021	-70.1	-77.1	35	0.01	227	19	397.9	398.0	397.9
93.2	17129	-70.7	-77.7	35	0.01	228	17	398.8	398.9	398.8
89.5	17370	-70.4	-77.4	35	0.01	230	13	404.0	404.1	404.0
78.4	18161	-69.5	-76.5	35	0.01	192	8	421.5	421.6	421.5
75.0	18428	-66.5	-73.5	37	0.02	180	6	433.2	433.3	433.2
70.0	18850	-63.5	-70.5	38	0.04	160	3	448.2	448.4	448.2
50.0	20930	-58.9	-66.9	35	0.09	55	10	504.2	504.9	504.3
49.2	21030	-58.7	-66.8	35	0.10	55	12	507.0	507.7	507.1
47.0	21330	-58.0	-66.3	34	0.11	65	15	515.4	516.2	515.5
32.0	23770	-52.8	-62.5	30	0.26	110	13	588.9	591.0	589.0
30.0	24190	-51.9	-61.9	29	0.31	120	8	602.5	605.0	602.7

24.2	25600	-48.4	-60.0	25	0.49	50	11	650.6	654.8	650.8
20.0	26860	-45.3	-58.3	22	0.73	85	12	696.7	703.4	697.0
19.2	27133	-44.1	-57.1	22	0.88	90	12	708.6	716.8	709.0
19.2	27120	-44.2	-57.2	22	0.88	90	12	708.0	716.1	708.4
18.4	27430	-44.0	-57.2	22	0.92	80	17	717.9	726.5	718.3
15.3	28650	-43.6	-57.4	20	1.07	70	30	757.4	767.9	757.9
14.3	29112	-43.5	-57.5	20	1.13			772.9	784.3	773.4

Station information and sounding indices

Station identifier: DRA

Station number: 72387

Observation time: 940625/0000

Station latitude: 36.61

Station longitude: -116.01

Station elevation: 1009.0

Showalter index: 2.81

Lifted index: 1.78

LIFT computed using virtual temperature: 1.09

SWEAT index: 120.40

K index: 18.50

Cross totals index: 8.30

Vertical totals index: 36.30

Totals totals index: 44.60

Convective Available Potential Energy: 259.39

CAPE using virtual temperature: 319.37

Convective Inhibition: -261.59

CINS using virtual temperature: -162.08

Equilibrium Level: 207.92

Equilibrium Level using virtual temperature: 207.81

Level of Free Convection: 434.24

LFCT using virtual temperature: 447.09

Bulk Richardson Number: 23.20

Bulk Richardson Number using CAPV: 28.57

Temp [K] of the Lifted Condensation Level: 274.31

Pres [hPa] of the Lifted Condensation Level: 575.73

Mean mixed layer potential temperature: 321.19

Mean mixed layer mixing ratio: 7.33

1000 hPa to 500 hPa thickness: 5934.00

Precipitable water [mm] for entire sounding: 16.71

72387 DRA Mercury Observations at 12Z 25 Jun 1994

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	21									
925.0										
897.0	1009	24.4	-3.6	15	3.28	50	6	306.9	317.4	307.6
891.0	1068	28.2	1.2	17	4.71	97	9	311.4	326.5	312.3
876.0	1219	28.6	0.9	17	4.69	215	17	313.4	328.5	314.3
869.0	1290	28.8	0.8	16	4.69	212	17	314.3	329.5	315.2
850.0	1487	28.2	1.2	17	4.93	205	18	315.7	331.7	316.6
846.5	1523	28.0	1.0	17	4.89	195	18	315.8	331.7	316.7
817.7	1828	25.9	-0.5	18	4.55	195	20	316.8	331.6	317.6
800.0	2020	24.6	-1.4	18	4.34	195	21	317.4	331.6	318.2
789.6	2133	23.6	-1.9	18	4.22	195	22	317.5	331.4	318.3

762.1	2438	21.0	-3.4	19	3.93	195	22	317.9	330.9	318.7
735.6	2743	18.4	-4.8	20	3.65	195	22	318.3	330.4	319.0
708.0	3072	15.6	-6.4	21	3.36	203	17	318.7	329.9	319.3
700.0	3168	15.4	-7.6	20	3.10	205	15	319.5	330.0	320.1
685.0	3352	15.3	-9.8	17	2.67	205	12	321.3	330.5	321.9
678.0	3438	15.2	-10.8	16	2.49	209	13	322.2	330.8	322.7
660.5	3657	13.7	-12.0	16	2.32	220	16	322.9	331.0	323.4
637.0	3962	11.6	-13.6	16	2.11	225	24	323.9	331.3	324.3
626.0	4108	10.6	-14.4	16	2.01	223	27	324.4	331.5	324.8
614.1	4267	9.9	-15.1	16	1.94	220	30	325.4	332.2	325.8
576.0	4797	7.6	-17.4	15	1.70	211	33	328.7	334.8	329.0
570.4	4876	6.9	-17.9	15	1.65	210	33	328.8	334.7	329.1
500.0	5940	-2.7	-24.7	17	1.04	235	35	329.7	333.6	329.9
490.1	6095	-4.0	-25.7	17	0.97	235	34	330.0	333.6	330.2
452.8	6705	-9.0	-29.7	17	0.72	235	42	331.2	334.0	331.4
402.1	7619	-16.6	-35.6	18	0.46	240	42	332.9	334.7	333.0
400.0	7660	-16.9	-35.9	18	0.45	240	42	332.9	334.7	333.0
340.0	8853	-27.7	-43.7	20	0.23	232	40	334.1	335.0	334.1
326.4	9143	-29.9	-45.5	20	0.20	230	40	335.0	335.9	335.1
300.0	9740	-34.3	-49.3	20	0.14	240	37	336.9	337.5	336.9
286.4	10058	-36.8	-51.3	21	0.12	245	32	337.9	338.4	337.9
262.1	10667	-41.6	-55.1	22	0.08	235	31	339.5	339.9	339.6
250.0	10990	-44.1	-57.1	22	0.07	230	32	340.4	340.7	340.4
239.3	11277	-46.2	-58.8	23	0.06	225	34	341.5	341.8	341.5
218.0	11887	-50.6	-62.4	23	0.04	240	28	343.9	344.1	343.9
200.0	12450	-54.7	-65.7	24	0.03	250	31	346.0	346.1	346.0
177.0	13223	-60.5	-70.5	26	0.02	250	33	348.8	348.8	348.8
150.0	14240	-67.1	-76.1	27	0.01	250	36	354.3	354.4	354.3
133.3	14935	-69.9	-78.3	28	0.01	255	39	361.5	361.5	361.5
126.6	15239	-71.1	-79.3	29	0.01	255	33	364.6	364.7	364.6
114.2	15849	-73.6	-81.2	30	0.00	235	27	371.0	371.1	371.0
100.0	16630	-76.7	-83.7	32	0.00	235	18	379.3	379.3	379.3
97.8	16760	-76.5	-83.5	32	0.00	235	12	382.1	382.1	382.1
97.7	16763	-76.5	-83.5	32	0.00	235	18	382.1	382.2	382.1
94.9	16931	-76.3	-83.3	32	0.00	235	16	385.8	385.8	385.8
88.9	17312	-70.9	-78.9	30	0.01	235	12	403.8	403.9	403.8
88.0	17370	-70.9	-78.9	30	0.01	235	11	405.0	405.1	405.0
75.1	18311	-70.3	-78.3	30	0.01	141	8	425.0	425.1	425.0
70.0	18730	-68.1	-77.1	27	0.02	100	7	438.4	438.5	438.4
50.0	20790	-60.5	-70.5	26	0.06	80	14	500.5	500.9	500.5
45.9	21330	-58.5	-69.5	23	0.07	110	15	517.8	518.3	517.8
45.8	21337	-58.5	-69.5	23	0.07	110	15	518.0	518.5	518.0
39.3	22293	-59.9	-69.9	26	0.08	82	13	537.6	538.2	537.7
37.7	22550	-59.3	-69.5	26	0.09	75	12	545.5	546.2	545.5
32.6	23460	-57.1	-67.8	25	0.13	90	14	574.2	575.2	574.3
30.0	23990	-55.9	-66.9	24	0.16	80	17	591.6	592.9	591.7
28.2	24380	-55.2	-66.5	23	0.18	75	19	604.0	605.4	604.0
23.4	25600	-52.9	-65.2	21	0.26	125	15	644.1	646.4	644.2
20.0	26600	-51.1	-64.1	20	0.34			679.0	682.1	679.1
11.4	30264	-48.1	-62.1	18	0.79			808.1	816.6	808.5
10.2	30990	-50.5	-63.5	20	0.73			825.3	833.4	825.6
10.0	31120	-44.1	-59.1	17	1.32			853.8	868.7	854.5
8.9	31902	-43.9	-58.9	17	1.53			883.5	901.2	884.3

# Station information and sounding indices

Station identifier: DRA

Station number: 72387

Observation time: 940625/1200

Station latitude: 36.61

Station longitude: -116.01  
Station elevation: 1009.0  
Showalter index: 7.82  
Lifted index: 9.42  
LIFT computed using virtual temperature: 9.11  
SWEAT index: 172.92  
K index: 9.10  
Cross totals index: 3.90  
Vertical totals index: 30.90  
Totals totals index: 34.80  
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: 268.36  
Pres [hPa] of the Lifted Condensation Level: 581.32  
Mean mixed layer potential temperature: 313.37  
Mean mixed layer mixing ratio: 4.67  
1000 hPa to 500 hPa thickness: 5919.00  
Precipitable water [mm] for entire sounding: 13.53

## 72387 DRA Mercury Observations at 00Z 26 Jun 1994

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	18									
925.0										
897.0	1009	40.6	6.6	13	6.86	210	15	323.6	346.3	325.0
895.0	1029	37.6	7.6	16	7.37	212	15	320.8	344.8	322.2
890.0	1080	36.4	7.4	17	7.31	217	15	320.0	343.8	321.4
876.4	1219	35.0	6.3	17	6.89	230	15	320.0	342.4	321.3
850.0	1495	32.2	4.2	17	6.12	220	16	319.9	339.9	321.1
818.5	1828	29.0	2.0	18	5.41	210	20	319.9	337.7	321.0
790.7	2133	26.0	-0.1	18	4.83	210	22	319.9	335.9	320.9
763.9	2438	23.1	-2.1	19	4.30	215	26	319.9	334.2	320.7
758.0	2506	22.4	-2.6	19	4.19	215	26	319.9	333.8	320.7
737.4	2743	20.5	-4.1	19	3.84	215	26	320.4	333.2	321.1
700.0	3190	17.0	-7.0	19	3.25	230	27	321.3	332.3	321.9
661.5	3657	13.8	-9.8	18	2.76	245	32	322.9	332.4	323.5
637.5	3962	11.8	-11.6	18	2.48	245	34	324.0	332.6	324.5
614.4	4267	9.7	-13.5	18	2.22	235	35	325.1	332.8	325.5
570.8	4876	5.5	-17.1	18	1.76	230	34	327.1	333.4	327.5
516.0	5709	-0.1	-22.1	17	1.27	230	40	329.9	334.5	330.1
500.0	5960	-2.5	-24.5	17	1.06	230	42	329.9	333.9	330.1
491.3	6095	-3.6	-25.3	17	1.00	230	41	330.2	333.9	330.4
453.9	6705	-8.7	-29.0	18	0.77	205	39	331.4	334.3	331.5
403.2	7619	-16.4	-34.5	19	0.51	210	40	332.9	334.8	332.9
400.0	7680	-16.9	-34.9	19	0.50	210	40	332.9	334.9	333.0
371.0	8229	-21.5	-38.6	20	0.37	210	36	334.1	335.5	334.1
327.4	9143	-29.1	-44.7	21	0.22	210	49	335.7	336.6	335.7
314.0	9447	-31.7	-46.7	21	0.18	217	50	336.2	336.9	336.2
300.7	9753	-32.5	-47.5	21	0.18	225	52	339.3	340.0	339.3
300.0	9770	-32.5	-47.5	21	0.18	220	52	339.4	340.2	339.5
275.3	10363	-36.9	-51.0	22	0.13	240	28	341.5	342.0	341.5
263.5	10667	-39.2	-52.8	22	0.11	235	29	342.5	343.0	342.5

250.0	11030	-41.9	-54.9	23	0.09	230	32	343.6	344.0	343.6
200.1	12496	-53.5	-64.5	25	0.03	235	54	347.9	348.0	347.9
200.0	12500	-53.5	-64.5	25	0.03	235	53	347.9	348.0	347.9
150.0	14300	-63.9	-72.9	28	0.01	240	31	359.8	359.9	359.8
149.4	14325	-64.1	-73.1	28	0.01	240	29	359.9	360.0	359.9
128.4	15239	-71.0	-79.1	29	0.01	245	31	363.4	363.4	363.4
127.0	15303	-71.5	-79.5	30	0.01	245	32	363.6	363.7	363.6
124.0	15444	-71.3	-79.3	30	0.01	245	32	366.5	366.5	366.5
122.0	15544	-70.7	-78.8	29	0.01	245	32	369.4	369.5	369.4
112.0	16053	-67.3	-76.3	27	0.01	245	21	384.8	384.8	384.8
110.1	16154	-68.0	-76.8	27	0.01	245	19	385.4	385.5	385.4
100.0	16730	-71.7	-79.7	29	0.01	190	12	388.9	389.0	388.9
99.4	16763	-71.6	-79.6	29	0.01	195	12	389.7	389.8	389.7
98.6	16813	-71.5	-79.5	30	0.01	192	12	390.9	390.9	390.9
95.4	17009	-69.1	-77.1	31	0.01	178	10	399.3	399.4	399.3
94.6	17060	-69.2	-77.2	31	0.01	175	10	400.1	400.2	400.1
83.5	17802	-70.5	-78.5	30	0.01	183	12	411.9	412.0	411.9
81.1	17980	-68.7	-77.0	29	0.01	185	13	419.2	419.3	419.2
76.6	18320	-65.1	-74.1	28	0.02	197	9	433.5	433.6	433.5
70.0	18870	-64.3	-73.3	28	0.03	215	2	446.5	446.7	446.5
65.5	19276	-64.7	-73.7	28	0.03	191	4	454.2	454.4	454.2
56.6	20180	-58.5	-68.5	26	0.07	139	7	487.6	488.1	487.6
50.0	20960	-58.3	-68.3	27	0.08	95	10	505.7	506.2	505.7
47.2	21330	-57.5	-67.8	26	0.09	85	15	516.1	516.7	516.1
40.2	22344	-55.3	-66.3	24	0.13	115	14	545.7	546.6	545.7
37.2	22850	-52.9	-64.5	23	0.18	130	13	564.3	565.6	564.3
35.3	23181	-51.3	-63.3	23	0.22	119	14	576.7	578.4	576.8
30.8	24070	-51.1	-63.1	23	0.25	90	18	600.1	602.2	600.2
30.0	24240	-51.1	-63.1	23	0.26	90	17	604.7	606.9	604.8
27.7	24760	-51.9	-63.9	22	0.26	102	17	616.4	618.6	616.5
24.4	25600	-50.2	-62.6	22	0.35	120	16	644.4	647.4	644.5
20.2	26820	-47.7	-60.6	21	0.54	90	16	687.1	692.0	687.3
20.0	26900	-47.5	-60.5	21	0.55	90	17	690.0	695.0	690.2
18.9	27274	-47.1	-60.1	21	0.62	97	18	702.5	708.2	702.8
18.5	27430	-46.4	-59.6	21	0.67	100	18	709.5	715.7	709.7
14.9	28872	-39.7	-54.7	19	1.53	103	23	776.5	791.8	777.2
12.3	30170	-38.4	-53.4	19	2.17	105	27	824.3	847.2	825.4
11.8	30470	-38.1	-53.1	19	2.35	100	26	835.7	860.9	836.9
11.2	30830	-37.7	-52.7	19	2.59	98	26	849.7	877.9	851.0
10.0	31610	-38.5	-53.5	19	2.64	95	25	874.7	904.3	876.1
9.4	32000	-38.3	-53.3	19	2.86	90	27	889.8	922.5	891.3
9.0	32336	-38.1	-53.1	19	3.08			903.0	938.7	904.6
8.8	32490	-38.7	-53.7	19	2.93			906.4	940.6	908.0

**Station information and sounding indices**

Station identifier: DRA

Station number: 72387

Observation time: 940626/0000

Station latitude: 36.61

Station longitude: -116.01

Station elevation: 1009.0

Showalter index: 4.44

Lifted index: 3.53

LIFT computed using virtual temperature: 2.91

SWEAT index: 171.12

K index: 14.90

Cross totals index: 6.70

Vertical totals index: 34.70

Totals totals index: 41.40

Convective Available Potential Energy: 70.10  
CAPE using virtual temperature: 99.88  
Convective Inhibition: -521.15  
CINS using virtual temperature: -414.52  
Equilibrium Level: 303.12  
Equilibrium Level using virtual temperature: 302.43  
Level of Free Convection: 397.74  
LFCT using virtual temperature: 408.39  
Bulk Richardson Number: 2.76  
Bulk Richardson Number using CAPV: 3.94  
Temp [K] of the Lifted Condensation Level: 273.20  
Pres [hPa] of the Lifted Condensation Level: 574.54  
Mean mixed layer potential temperature: 320.09  
Mean mixed layer mixing ratio: 6.77  
1000 hPa to 500 hPa thickness: 5942.00  
Precipitable water [mm] for entire sounding: 16.03

## 72387 DRA Mercury Observations at 12Z 26 Jun 1994

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	11									
925.0										
898.0	1009	32.2	3.2	16	5.39	200	20	314.9	332.3	315.9
876.8	1219	30.4	1.8	16	5.00	200	26	315.1	331.4	316.1
850.0	1492	28.0	0.0	16	4.52	205	30	315.5	330.2	316.3
837.0	1628	26.8	-0.2	17	4.53	211	32	315.6	330.4	316.5
818.1	1828	25.9	-1.1	17	4.32	220	35	316.7	330.8	317.5
790.0	2133	24.4	-2.6	17	4.02	225	33	318.3	331.6	319.1
763.0	2438	23.0	-4.0	16	3.73	230	30	319.9	332.4	320.6
760.0	2472	22.8	-4.2	16	3.70	231	30	320.1	332.5	320.8
736.4	2743	20.3	-5.6	17	3.44	240	29	320.2	331.8	320.9
700.0	3178	16.2	-7.8	19	3.05	245	30	320.4	330.7	321.0
660.9	3657	11.9	-7.8	24	3.23	240	41	320.9	331.8	321.5
614.3	4267	6.5	-7.8	35	3.48	235	34	321.4	333.1	322.1
604.0	4408	5.2	-7.8	39	3.54	235	31	321.5	333.4	322.2
569.9	4876	1.6	-11.0	39	2.92	235	22	322.6	332.6	323.1
548.8	5181	-0.8	-13.0	39	2.57	235	19	323.3	332.1	323.8
536.0	5371	-2.3	-14.3	39	2.37	229	20	323.7	331.9	324.1
531.0	5445	-2.5	-20.5	24	1.42	226	20	324.3	329.4	324.6
518.0	5642	-3.5	-23.5	20	1.12	220	21	325.4	329.5	325.6
500.0	5920	-6.1	-23.1	25	1.20	210	23	325.5	329.9	325.8
488.6	6095	-7.5	-24.5	24	1.08	210	25	326.0	329.9	326.2
469.5	6400	-9.9	-26.9	24	0.90	205	31	326.7	330.0	326.9
433.3	7010	-14.8	-31.8	22	0.62	210	51	328.1	330.4	328.2
400.1	7619	-19.7	-36.7	21	0.41	210	47	329.3	330.9	329.4
400.0	7620	-19.7	-36.7	21	0.41	210	47	329.3	330.9	329.4
379.0	8019	-21.9	-38.9	20	0.35	211	47	331.5	332.9	331.6
323.9	9143	-31.4	-45.8	23	0.20	215	47	333.6	334.4	333.6
310.3	9448	-34.0	-47.6	24	0.17	215	36	334.0	334.7	334.1
300.0	9690	-36.1	-49.1	25	0.15	215	40	334.4	335.0	334.4
259.9	10667	-43.7	-55.9	25	0.08	225	41	337.3	337.6	337.3
250.0	10930	-45.7	-57.7	25	0.06	225	39	338.0	338.3	338.0
248.4	10972	-46.0	-57.9	25	0.06	230	39	338.2	338.4	338.2
226.3	11582	-50.3	-61.4	26	0.04	220	55	340.8	341.0	340.8
200.0	12390	-55.9	-65.9	27	0.03	225	52	344.1	344.2	344.1
178.2	13106	-60.1	-69.3	29	0.02	230	47	348.8	348.9	348.8

150.0	14170	-66.3	-74.3	32	0.01	220	51	355.7	355.7	355.7
138.8	14630	-68.9	-76.7	32	0.01	220	43	359.1	359.1	359.1
125.2	15239	-72.4	-79.8	32	0.01	235	33	363.6	363.6	363.6
110.0	16004	-76.7	-83.7	32	0.00	240	23	369.1	369.1	369.1
105.0	16275	-73.1	-80.1	34	0.01	243	19	380.9	380.9	380.9
101.7	16459	-73.9	-80.9	34	0.01	245	16	382.9	382.9	382.9
100.0	16560	-74.3	-81.3	33	0.01	250	12	383.9	383.9	383.9
96.6	16760	-74.6	-81.6	33	0.01	255	7	387.1	387.1	387.1
95.9	16803	-74.7	-81.7	33	0.01	258	7	387.8	387.8	387.8
91.2	17098	-69.9	-77.9	30	0.01	282	6	402.9	402.9	402.9
78.6	17981	-70.1	-78.1	30	0.01	351	3	419.9	420.0	419.9
72.0	18509	-64.9	-73.9	28	0.02	32	2	441.6	441.8	441.6
70.0	18680	-65.1	-74.1	28	0.02	45	1	444.8	444.9	444.8
64.2	19208	-65.5	-74.5	28	0.02	58	3	455.0	455.2	455.0
50.0	20750	-60.9	-70.9	26	0.05	95	7	499.5	499.9	499.6
45.6	21330	-59.1	-69.1	26	0.08	80	13	517.3	517.8	517.3
43.4	21640	-58.1	-68.1	27	0.09	70	21	527.0	527.6	527.0
40.3	22103	-56.7	-66.7	27	0.12			541.8	542.7	541.8

Station information and sounding indices

Station identifier: DRA

Station number: 72387

Observation time: 940626/1200

Station latitude: 36.61

Station longitude: -116.01

Station elevation: 1009.0

Showalter index: 5.13

Lifted index: 4.68

LIFT computed using virtual temperature: 4.34

SWEAT index: 118.88

K index: 10.10

Cross totals index: 6.10

Vertical totals index: 34.10

Totals totals index: 40.20

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: 268.96

Pres [hPa] of the Lifted Condensation Level: 574.14

Mean mixed layer potential temperature: 315.18

Mean mixed layer mixing ratio: 4.94

1000 hPa to 500 hPa thickness: 5909.00

Precipitable water [mm] for entire sounding: 15.21

72387 DRA Mercury Observations at 00Z 27 Jun 1994

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	15									
925.0										
898.0	1009	42.4	8.4	13	7.76	230	17	325.4	351.1	326.9
894.0	1050	38.6	8.6	16	7.90	231	18	321.9	347.7	323.4

877.7	1219	37.0	7.4	16	7.39	235	21	321.9	346.1	323.4
850.0	1512	34.2	5.2	16	6.56	240	26	322.0	343.6	323.2
820.0	1828	31.2	3.1	17	5.88	235	24	322.1	341.5	323.2
792.0	2133	28.3	1.1	17	5.27	235	22	322.2	339.7	323.2
764.9	2438	25.4	-0.9	18	4.71	245	21	322.3	338.1	323.2
738.8	2743	22.5	-2.9	18	4.20	245	22	322.4	336.5	323.2
700.0	3217	18.0	-6.0	19	3.51	250	21	322.4	334.3	323.1
688.8	3352	16.7	-6.6	20	3.40	255	20	322.4	333.9	323.1
664.3	3657	13.7	-8.0	21	3.17	250	19	322.4	333.2	323.0
626.0	4156	8.8	-10.2	25	2.83	246	18	322.3	332.0	322.9
617.5	4267	7.7	-10.5	26	2.80	245	18	322.4	331.9	322.9
572.7	4876	1.9	-12.1	35	2.65	240	25	322.5	331.6	323.0
543.0	5308	-2.3	-13.3	43	2.54	236	41	322.5	331.2	323.0
530.9	5486	-3.1	-12.7	48	2.72	235	48	323.5	332.9	324.1
526.0	5560	-3.5	-12.5	50	2.80	237	46	324.0	333.6	324.5
500.0	5960	-3.9	-23.9	19	1.12	245	38	328.2	332.3	328.4
491.3	6095	-4.9	-24.6	20	1.07	245	37	328.6	332.6	328.8
436.3	7010	-11.8	-29.4	22	0.77	235	37	331.2	334.1	331.3
403.2	7619	-16.4	-32.6	23	0.62	230	36	332.8	335.2	332.9
400.0	7680	-16.9	-32.9	24	0.60	230	36	332.9	335.3	333.1
373.0	8199	-21.7	-35.7	27	0.49	216	33	333.3	335.2	333.4
371.5	8229	-21.8	-36.0	26	0.48	215	33	333.5	335.4	333.6
353.0	8603	-23.5	-40.5	19	0.32	209	41	336.1	337.4	336.2
329.0	9114	-27.7	-41.7	25	0.30	200	51	337.2	338.4	337.3
327.6	9143	-27.9	-41.0	28	0.33	200	52	337.3	338.6	337.4
318.0	9357	-29.7	-35.7	56	0.58	202	52	337.7	340.0	337.9
313.0	9470	-30.3	-40.3	37	0.37	203	52	338.4	339.9	338.5
300.0	9770	-32.1	-43.1	33	0.28	205	52	340.0	341.2	340.1
275.3	10363	-36.8	-47.3	33	0.19	215	56	341.6	342.5	341.7
263.5	10667	-39.2	-49.5	33	0.16	215	54	342.4	343.1	342.5
250.0	11030	-42.1	-52.1	33	0.12	215	50	343.3	343.9	343.4
200.0	12500	-52.7	-61.7	33	0.05	220	54	349.1	349.4	349.2
165.0	13721	-60.9	-68.9	34	0.02	224	51	355.2	355.3	355.2
157.2	14020	-62.3	-69.8	36	0.02	225	50	357.7	357.8	357.7
150.0	14310	-63.7	-70.7	38	0.02	225	46	360.1	360.2	360.1
133.0	15047	-65.1	-72.1	37	0.02	209	29	370.2	370.3	370.2
128.8	15239	-67.6	-74.6	36	0.01	205	25	369.2	369.3	369.2
125.0	15421	-69.9	-76.9	35	0.01	205	24	368.2	368.2	368.2
120.0	15665	-68.3	-75.3	36	0.01	215	23	375.4	375.5	375.4
110.5	16154	-70.2	-77.2	35	0.01	235	20	380.7	380.8	380.7
105.0	16459	-71.4	-78.4	35	0.01	230	17	384.1	384.1	384.1
102.0	16633	-72.1	-79.1	34	0.01	224	15	386.0	386.0	386.0
100.0	16750	-70.7	-77.7	35	0.01	220	14	390.9	390.9	390.9
99.8	16760	-70.6	-77.6	35	0.01	220	13	391.3	391.3	391.3
96.6	16956	-68.3	-75.3	36	0.01	216	12	399.4	399.5	399.4
89.1	17437	-70.5	-77.5	35	0.01	206	10	404.4	404.4	404.4
83.6	17818	-66.5	-73.5	37	0.02	198	9	419.9	420.1	419.9
76.1	18383	-67.7	-74.7	36	0.02	186	7	428.9	429.0	428.9
70.0	18890	-63.5	-71.5	33	0.04	175	5	448.2	448.4	448.2
67.8	19087	-60.9	-68.9	34	0.05	169	5	457.9	458.2	457.9
57.0	20174	-57.5	-65.5	35	0.10	135	8	488.9	489.6	488.9
50.0	21000	-58.1	-66.1	35	0.11	110	10	506.1	506.9	506.2
48.3	21217	-58.5	-66.5	35	0.10	110	11	510.2	510.9	510.2
47.5	21330	-58.1	-66.2	35	0.11	110	12	513.8	514.6	513.8
43.1	21940	-55.8	-64.3	34	0.16	95	13	533.6	534.7	533.7
38.4	22676	-53.1	-62.1	33	0.23	95	14	558.5	560.2	558.5
35.6	23160	-52.7	-61.7	33	0.26	95	14	571.5	573.5	571.6
30.9	24070	-52.0	-61.0	33	0.33	115	18	596.8	599.5	597.0
30.0	24270	-51.9	-60.9	33	0.35	115	17	602.5	605.3	602.7
24.5	25600	-49.1	-59.1	30	0.54	90	16	646.6	651.1	646.8
20.0	26930	-46.3	-57.3	28	0.83	105	23	693.7	701.1	694.0



19.4	27120	-45.9	-57.0	27	0.88	105	24	700.5	708.5	700.9
18.6	27430	-45.3	-56.5	27	0.98	105	24	711.7	720.7	712.1
11.8	30470	-39.0	-51.9	24	2.69	90	30	831.6	860.1	833.0
11.6	30612	-38.7	-51.7	24	2.81			837.6	867.7	839.1
10.8	31103	-39.1	-52.1	24	2.88			853.5	884.9	855.0

Station information and sounding indices

Station identifier: DRA

Station number: 72387

Observation time: 940627/0000

Station latitude: 36.61

Station longitude: -116.01

Station elevation: 1009.0

Showalter index: 1.57

Lifted index: 0.67

LIFT computed using virtual temperature: -0.03

SWEAT index: 188.27

K index: 19.30

Cross totals index: 9.10

Vertical totals index: 38.10

Totals totals index: 47.20

Convective Available Potential Energy: 294.92

CAPE using virtual temperature: 406.20

Convective Inhibition: -28.30

CINS using virtual temperature: 0.00

Equilibrium Level: 240.80

Equilibrium Level using virtual temperature: 240.29

Level of Free Convection: 562.64

LFCT using virtual temperature: 498.78

Bulk Richardson Number: 83.48

Bulk Richardson Number using CAPV: 114.99

Temp [K] of the Lifted Condensation Level: 274.04

Pres [hPa] of the Lifted Condensation Level: 568.31

Mean mixed layer potential temperature: 322.07

Mean mixed layer mixing ratio: 7.28

1000 hPa to 500 hPa thickness: 5945.00

Precipitable water [mm] for entire sounding: 18.53

72387 DRA Mercury Observations at 12Z 27 Jun 1994

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	49									
925.0										
901.0	1009	28.4	2.4	19	5.07	230	3	310.7	326.8	311.6
896.0	1058	31.2	4.2	18	5.80	229	6	314.1	332.6	315.1
888.0	1139	32.0	5.0	18	6.19	227	10	315.7	335.6	316.9
880.0	1219	31.3	4.3	18	5.97	225	15	315.8	335.1	316.9
850.5	1523	28.8	1.8	18	5.17	225	18	316.3	333.1	317.3
850.0	1528	28.8	1.8	18	5.15	225	18	316.3	333.1	317.3
821.5	1828	26.9	0.5	18	4.84	240	20	317.4	333.2	318.3
800.0	2062	25.4	-0.6	18	4.60	251	23	318.2	333.4	319.1
793.5	2133	24.8	-0.8	18	4.57	255	24	318.3	333.3	319.2
765.8	2438	22.1	-1.6	20	4.45	260	28	318.6	333.3	319.5
739.2	2743	19.4	-2.5	23	4.33	255	31	318.9	333.2	319.7

713.5	3047	16.7	-3.3	25	4.21	255	31	319.1	333.1	320.0
700.0	3212	15.2	-3.8	27	4.14	255	30	319.3	333.0	320.1
662.6	3657	11.3	-5.5	30	3.84	245	30	320.0	332.8	320.7
614.6	4267	6.0	-7.9	36	3.44	235	35	320.9	332.4	321.5
570.1	4876	0.7	-10.3	43	3.07	245	38	321.6	332.0	322.2
500.0	5940	-8.5	-14.5	62	2.50	250	40	322.6	331.2	323.1
490.0	6095	-9.9	-15.9	62	2.27	250	37	322.7	330.6	323.2
471.0	6400	-12.7	-18.7	61	1.86	250	34	322.9	329.4	323.3
462.0	6548	-14.1	-20.1	60	1.69	245	34	323.0	328.9	323.3
459.0	6598	-14.5	-21.5	55	1.50	244	34	323.1	328.4	323.4
455.0	6664	-14.1	-30.1	25	0.69	241	34	324.4	327.0	324.6
450.0	6748	-13.3	-32.3	19	0.57	239	34	326.4	328.6	326.6
428.0	7130	-14.3	-33.3	18	0.54	226	33	329.9	332.0	330.0
417.6	7315	-15.8	-34.4	19	0.50	220	33	330.3	332.3	330.4
401.1	7619	-18.1	-36.2	19	0.44	215	36	331.1	332.8	331.2
400.0	7640	-18.3	-36.3	19	0.43	215	36	331.1	332.8	331.2
324.6	9143	-30.8	-45.9	21	0.19	215	38	334.3	335.1	334.3
300.0	9710	-35.5	-49.5	22	0.14	215	44	335.2	335.8	335.2
285.2	10058	-38.6	-51.5	24	0.12	210	42	335.6	336.1	335.7
273.0	10358	-41.3	-53.3	26	0.10	212	47	336.0	336.4	336.0
260.7	10667	-43.5	-55.0	27	0.08	215	53	337.2	337.6	337.2
250.0	10950	-45.5	-56.5	28	0.07	215	56	338.3	338.6	338.3
211.0	12060	-52.2	-62.4	28	0.04	225	61	344.6	344.8	344.7
206.8	12191	-53.0	-63.1	28	0.04	225	61	345.4	345.6	345.4
200.0	12410	-54.3	-64.3	28	0.03	220	45	346.6	346.8	346.6
197.3	12496	-54.9	-64.8	28	0.03	220	42	347.0	347.1	347.0
177.0	13185	-59.9	-68.9	30	0.02	213	41	349.8	349.9	349.8
170.7	13411	-61.0	-70.0	29	0.02	210	41	351.7	351.8	351.7
162.5	13715	-62.4	-71.4	29	0.02	215	59	354.2	354.3	354.2
150.0	14210	-64.7	-73.7	28	0.01	210	48	358.4	358.5	358.4
126.3	15239	-69.3	-77.3	31	0.01	220	42	368.2	368.2	368.2
120.0	15544	-70.7	-78.3	32	0.01	220	39	371.1	371.1	371.1
108.0	16175	-73.5	-80.5	34	0.01	203	28	377.1	377.1	377.1
104.0	16398	-70.7	-78.7	30	0.01	197	24	386.5	386.6	386.5
102.9	16459	-71.0	-79.0	30	0.01	195	23	387.1	387.1	387.1
100.0	16630	-71.9	-79.9	29	0.01	200	21	388.6	388.6	388.6
97.8	16760	-72.8	-80.5	30	0.01	200	21	389.4	389.4	389.4
90.7	17201	-75.7	-82.7	33	0.00	220	17	392.0	392.0	392.0
88.1	17370	-72.6	-80.1	32	0.01	225	16	401.4	401.4	401.4
85.3	17563	-69.1	-77.1	31	0.01	201	15	412.3	412.3	412.3
79.7	17969	-69.1	-77.1	31	0.01	151	13	420.3	420.4	420.4
74.5	18378	-64.1	-73.1	28	0.03	101	10	439.0	439.2	439.0
70.0	18760	-64.9	-73.9	28	0.02	55	8	445.2	445.4	445.2
65.1	19200	-64.8	-73.8	28	0.03	85	13	454.8	455.0	454.8
63.5	19353	-64.7	-73.7	28	0.03	93	13	458.2	458.4	458.2
59.7	19732	-61.3	-70.3	29	0.05	111	12	474.0	474.3	474.0
59.0	19810	-61.3	-70.3	29	0.05	115	12	475.7	476.0	475.7
50.0	20830	-61.1	-70.1	29	0.06	135	3	499.1	499.5	499.1
46.2	21330	-60.0	-69.4	29	0.07	100	6	513.0	513.5	513.0
38.1	22550	-57.5	-67.5	27	0.11	60	11	548.6	549.5	548.6
33.0	23460	-55.6	-66.2	25	0.16	95	17	576.7	578.0	576.8
30.0	24060	-54.3	-65.3	25	0.20	100	19	596.0	597.6	596.1
23.7	25600	-52.3	-63.9	23	0.30	115	26	643.6	646.2	643.8
20.0	26690	-50.9	-62.9	23	0.40	100	23	679.6	683.3	679.8
18.7	27120	-49.5	-61.9	22	0.49	85	23	696.7	701.3	696.9
17.9	27430	-48.5	-61.1	22	0.57	85	23	709.3	714.7	709.6
16.5	27950	-46.9	-59.9	21	0.72	87	24	730.9	737.9	731.3
11.3	30470	-46.0	-59.8	20	1.08	95	28	818.1	829.7	818.6
10.0	31270	-45.7	-59.7	19	1.23	95	35	847.8	861.5	848.5
9.4	31681	-47.3	-60.3	21	1.21	100	37	856.9	870.6	857.5
8.2	32610	-44.4	-58.2	20	1.81	110	41	903.3	924.7	904.3

8.0	32756	-43.9	-57.9	20	1.93	910.8	933.8	911.9
7.5	33190	-43.1	-57.1	20	2.27	931.0	958.6	932.3

Station information and sounding indices

Station identifier: DRA  
Station number: 72387  
Observation time: 940627/1200  
Station latitude: 36.61  
Station longitude: -116.01  
Station elevation: 1009.0  
Showalter index: 1.40  
Lifted index: 1.06  
LIFT computed using virtual temperature: 0.87  
SWEAT index: 175.44  
K index: 20.10  
Cross totals index: 10.30  
Vertical totals index: 37.30  
Totals totals index: 47.60  
Convective Available Potential Energy: 3.38  
CAPE using virtual temperature: 6.11  
Convective Inhibition: -512.52  
CINS using virtual temperature: -467.88  
Equilibrium Level: 456.13  
Equilibrium Level using virtual temperature: 454.68  
Level of Free Convection: 474.51  
LFCT using virtual temperature: 478.88  
Bulk Richardson Number: 0.08  
Bulk Richardson Number using CAPV: 0.15  
Temp [K] of the Lifted Condensation Level: 271.28  
Pres [hPa] of the Lifted Condensation Level: 590.01  
Mean mixed layer potential temperature: 315.43  
Mean mixed layer mixing ratio: 5.72  
1000 hPa to 500 hPa thickness: 5891.00  
Precipitable water [mm] for entire sounding: 18.44

72387 DRA Mercury Observations at 00Z 28 Jun 1994

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	45									
925.0										
900.0	1009	40.6	8.6	15	7.85	250	15	323.3	349.1	324.9
898.0	1030	38.0	9.0	17	8.08	248	15	320.9	347.1	322.4
895.0	1060	37.4	8.4	17	7.78	245	16	320.6	345.9	322.1
879.5	1219	36.0	7.4	17	7.39	230	19	320.8	344.8	322.2
850.0	1530	33.4	5.4	17	6.66	245	20	321.1	342.9	322.4
821.6	1828	30.6	4.0	19	6.24	250	22	321.3	341.8	322.5
793.5	2133	27.7	2.6	20	5.84	250	23	321.4	340.7	322.6
766.4	2438	24.9	1.1	21	5.45	250	23	321.6	339.6	322.6
740.2	2743	22.0	-0.3	23	5.08	245	22	321.6	338.5	322.6
700.0	3233	17.4	-2.6	25	4.54	245	21	321.7	336.9	322.6
664.8	3657	13.6	-4.1	29	4.28	240	24	322.2	336.5	323.0
617.3	4267	8.1	-6.2	36	3.92	230	27	322.8	336.0	323.5
573.2	4876	2.5	-8.3	45	3.58	235	33	323.2	335.4	323.9
527.0	5567	-3.7	-10.7	58	3.23	238	32	323.6	334.6	324.2

500.0	5980	-7.7	-9.8	85	3.65	240	31	323.6	336.0	324.3
492.6	6095	-9.0	-10.4	90	3.54	240	33	323.3	335.4	324.0
490.0	6137	-9.5	-10.6	92	3.50	241	33	323.2	335.1	323.9
475.0	6377	-11.3	-14.2	79	2.70	245	36	323.9	333.2	324.4
473.6	6400	-11.4	-15.9	69	2.35	245	36	324.1	332.3	324.6
467.0	6507	-11.7	-23.7	36	1.22	243	36	325.0	329.4	325.2
437.0	7014	-13.5	-26.5	33	1.01	235	37	328.9	332.7	329.1
403.2	7619	-18.4	-29.6	37	0.82	225	38	330.2	333.3	330.4
400.0	7680	-18.9	-29.9	37	0.80	225	38	330.3	333.4	330.5
326.4	9143	-30.6	-40.2	39	0.35	235	39	333.9	335.4	334.0
312.9	9448	-33.1	-42.4	39	0.29	230	46	334.6	335.8	334.7
300.0	9750	-35.5	-44.5	39	0.24	230	45	335.2	336.2	335.3
262.2	10667	-42.2	-50.4	40	0.14	230	37	338.6	339.2	338.7
250.0	10990	-44.5	-52.5	40	0.12	235	39	339.8	340.3	339.8
227.0	11633	-49.1	-57.1	39	0.07	235	40	342.2	342.6	342.3
200.0	12460	-53.1	-61.1	37	0.05	235	42	348.5	348.8	348.5
180.4	13106	-57.4	-65.0	37	0.03	240	42	351.9	352.1	351.9
150.0	14260	-65.1	-72.1	37	0.02	245	29	357.7	357.8	357.8
141.0	14630	-66.5	-73.3	38	0.01	250	21	361.7	361.7	361.7
127.4	15239	-68.8	-75.2	39	0.01	245	19	368.2	368.2	368.2
112.0	16013	-71.7	-77.7	40	0.01	230	21	376.6	376.6	376.6
103.9	16459	-68.7	-75.3	38	0.01	225	13	390.4	390.5	390.4
100.0	16690	-67.1	-74.1	37	0.02	225	11	397.8	397.9	397.8
98.8	16760	-67.4	-74.4	36	0.02	230	10	398.6	398.7	398.6
92.3	17171	-68.9	-75.9	36	0.01	262	9	403.5	403.6	403.5
75.5	18392	-61.7	-68.7	39	0.05	355	5	442.4	442.7	442.4
70.0	18860	-61.1	-68.1	39	0.06	30	3	453.3	453.7	453.3
50.0	20970	-56.5	-64.5	36	0.13	115	8	509.9	510.8	509.9
47.3	21330	-55.9	-64.0	35	0.15	80	13	519.6	520.7	519.7
35.5	23160	-52.6	-61.3	34	0.28	125	11	572.1	574.3	572.2
30.9	24070	-51.0	-60.0	34	0.38	95	18	600.1	603.1	600.3
30.0	24250	-50.7	-59.7	34	0.41	100	21	605.8	609.1	606.0
26.8	24990	-47.3	-57.3	31	0.62	96	25	635.2	640.3	635.5
25.8	25240	-49.5	-59.5	30	0.49	95	27	635.9	640.0	636.1
22.3	26210	-45.6	-56.4	29	0.83	90	32	674.7	682.0	675.0
21.4	26478	-44.5	-55.5	28	0.97	92	31	685.8	694.3	686.2
20.0	26930	-45.1	-56.1	28	0.96	95	29	697.4	706.0	697.8
19.1	27237	-46.3	-57.3	28	0.87	92	28	702.9	710.8	703.2
18.6	27430	-45.6	-56.8	27	0.95	90	28	710.7	719.5	711.1
14.9	28907	-40.7	-52.7	26	1.94	84	27	773.2	792.3	774.1
14.1	29282	-42.1	-54.1	26	1.74	82	27	780.7	798.1	781.5
12.9	29870	-39.6	-52.5	24	2.31	80	27	808.8	832.6	809.9
12.7	29995	-39.1	-52.1	24	2.45			814.9	840.3	816.1

Station information and sounding indices

Station identifier: DRA  
Station number: 72387  
Observation time: 940628/0000  
Station latitude: 36.61  
Station longitude: -116.01  
Station elevation: 1009.0  
Showalter index: -1.99  
Lifted index: -2.67  
LIFT computed using virtual temperature: -2.94  
SWEAT index: 239.82  
K index: 26.50  
Cross totals index: 13.10  
Vertical totals index: 41.10  
Totals totals index: 54.20

Convective Available Potential Energy: 744.45  
CAPE using virtual temperature: 799.80  
Convective Inhibition: -130.24  
CINS using virtual temperature: -74.15  
Equilibrium Level: 220.18  
Equilibrium Level using virtual temperature: 220.02  
Level of Free Convection: 543.29  
LFCT using virtual temperature: 552.24  
Bulk Richardson Number: 91.35  
Bulk Richardson Number using CAPV: 98.15  
Temp [K] of the Lifted Condensation Level: 274.35  
Pres [hPa] of the Lifted Condensation Level: 578.09  
Mean mixed layer potential temperature: 320.87  
Mean mixed layer mixing ratio: 7.31  
1000 hPa to 500 hPa thickness: 5935.00  
Precipitable water [mm] for entire sounding: 22.66

72387 DRA Mercury Observations at 12Z 28 Jun 1994

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									
925.0										
902.0	1009	25.2	6.2	30	6.63	90	2	307.3	327.8	308.5
898.0	1048	28.8	5.8	23	6.48	113	3	311.4	331.8	312.6
891.0	1117	31.2	6.2	21	6.71	152	5	314.6	336.0	315.8
880.9	1219	31.2	6.2	21	6.79	210	8	315.6	337.3	316.9
879.0	1238	31.2	6.2	21	6.81	211	8	315.8	337.6	317.1
850.0	1536	29.0	4.0	20	6.03	225	8	316.5	336.0	317.7
821.8	1828	26.4	2.6	21	5.66	255	11	316.9	335.2	317.9
793.4	2133	23.7	1.2	23	5.30	260	14	317.2	334.5	318.2
765.9	2438	21.1	-0.2	24	4.95	260	15	317.5	333.7	318.4
739.4	2743	18.4	-1.6	26	4.62	260	14	317.8	333.0	318.7
700.0	3217	14.2	-3.8	29	4.14	250	14	318.2	331.9	319.0
664.0	3657	10.4	-6.4	30	3.57	240	17	318.7	330.6	319.4
641.0	3950	7.8	-8.2	31	3.23	238	19	319.0	329.9	319.6
616.2	4267	4.8	-8.1	39	3.39	235	21	319.2	330.6	319.9
571.1	4876	-0.8	-7.9	59	3.72	235	25	319.6	332.0	320.3
532.0	5446	-6.1	-7.7	88	4.05	230	32	319.8	333.3	320.6
530.0	5475	-6.1	-9.7	76	3.47	230	33	320.2	331.8	320.8
529.3	5486	-6.0	-12.6	59	2.76	230	33	320.5	329.8	321.0
528.0	5505	-5.7	-17.7	38	1.81	230	33	321.0	327.3	321.3
524.0	5564	-5.3	-19.3	32	1.59	232	32	322.2	327.8	322.5
500.0	5930	-7.9	-21.9	32	1.33	240	28	323.3	328.1	323.6
489.2	6095	-9.1	-23.0	31	1.24	240	28	323.9	328.4	324.1
451.4	6705	-13.5	-27.0	31	0.93	255	29	325.9	329.3	326.1
416.4	7315	-17.9	-31.1	31	0.69	235	32	327.9	330.4	328.0
400.1	7619	-20.1	-33.1	30	0.59	235	33	328.8	331.0	328.9
400.0	7620	-20.1	-33.1	30	0.59	235	33	328.8	331.0	328.9
390.0	7808	-21.5	-33.5	33	0.58	235	33	329.3	331.6	329.4
323.4	9143	-33.6	-42.1	42	0.29	235	37	330.7	331.9	330.7
300.0	9680	-38.5	-45.5	48	0.22	235	38	331.0	331.9	331.0
285.0	10028	-41.9	-45.9	65	0.22	237	40	331.0	331.9	331.1
258.9	10667	-46.0	-52.2	49	0.12	240	45	334.2	334.7	334.2
250.0	10900	-47.5	-54.5	44	0.09	245	45	335.3	335.7	335.3
243.0	11088	-49.1	-56.1	44	0.08	246	45	335.6	336.0	335.7
200.0	12350	-56.1	-63.1	41	0.04	255	45	343.8	343.9	343.8

177.1	13106	-59.9	-66.9	40	0.03	260	34	349.7	349.8	349.7
150.0	14140	-65.1	-72.1	37	0.02	235	24	357.7	357.8	357.8
138.2	14630	-67.8	-74.5	38	0.01	220	25	361.4	361.5	361.4
124.7	15239	-71.3	-77.5	39	0.01	235	29	365.9	366.0	365.9
118.5	15544	-73.0	-79.1	39	0.01	240	29	368.1	368.2	368.2
116.0	15672	-73.7	-79.7	40	0.01	245	26	369.1	369.1	369.1
112.6	15849	-72.1	-78.1	40	0.01	250	17	375.2	375.3	375.2
106.0	16204	-68.9	-74.9	42	0.01	241	11	387.8	387.9	387.8
101.5	16459	-70.8	-76.8	41	0.01	235	7	388.9	389.0	388.9
100.0	16550	-71.5	-77.5	40	0.01	235	7	389.3	389.4	389.3

Station information and sounding indices

Station identifier: DRA

Station number: 72387

Observation time: 940628/1200

Station latitude: 36.61

Station longitude: -116.01

Station elevation: 1009.0

Showalter index: 0.69

Lifted index: 0.77

LIFT computed using virtual temperature: 0.34

SWEAT index: 92.00

K index: 22.90

Cross totals index: 11.90

Vertical totals index: 36.90

Totals totals index: 48.80

Convective Available Potential Energy: 141.28

CAPE using virtual temperature: 157.37

Convective Inhibition: -336.90

CINS using virtual temperature: -291.11

Equilibrium Level: 254.22

Equilibrium Level using virtual temperature: 254.03

Level of Free Convection: 537.88

LFCT using virtual temperature: 540.56

Bulk Richardson Number: 5.28

Bulk Richardson Number using CAPV: 5.88

Temp [K] of the Lifted Condensation Level: 273.66

Pres [hPa] of the Lifted Condensation Level: 612.06

Mean mixed layer potential temperature: 314.88

Mean mixed layer mixing ratio: 6.56

1000 hPa to 500 hPa thickness: 5864.00

Precipitable water [mm] for entire sounding: 19.53

72387 DRA Mercury Observations at 00Z 29 Jun 1994

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	47									
925.0										
900.0	1009	42.4	9.4	14	8.29	260	14	325.2	352.6	326.8
897.0	1040	39.4	10.4	18	8.90	259	14	322.4	351.4	324.1
879.6	1219	37.7	9.0	18	8.26	255	16	322.4	349.4	324.0
850.0	1533	34.6	6.6	18	7.24	250	17	322.4	346.1	323.8
822.0	1828	31.7	5.1	19	6.73	240	16	322.4	344.6	323.7
794.0	2133	28.7	3.5	20	6.24	230	17	322.4	343.0	323.6

767.0	2438	25.7	1.9	21	5.77	225	17	322.4	341.5	323.5
740.8	2743	22.7	0.4	23	5.33	220	20	322.3	340.1	323.4
700.0	3242	17.8	-2.2	26	4.67	220	21	322.2	337.8	323.1
676.0	3539	15.2	-2.8	29	4.63	216	21	322.5	337.9	323.4
666.3	3657	14.1	-3.2	30	4.54	215	21	322.6	337.8	323.5
642.0	3962	11.2	-4.3	33	4.34	210	19	322.8	337.3	323.6
618.6	4267	8.4	-5.5	37	4.13	205	21	322.9	336.9	323.8
574.3	4876	2.7	-7.7	46	3.75	210	21	323.2	335.9	323.9
534.0	5473	-2.9	-9.9	59	3.39	218	19	323.3	334.8	324.0
509.0	5851	-6.7	-10.1	77	3.51	223	18	323.1	335.0	323.8
505.0	5912	-6.9	-16.9	45	2.03	224	18	323.6	330.7	324.0
504.0	5928	-7.1	-15.1	53	2.36	224	18	323.6	331.8	324.0
500.0	5990	-7.1	-21.1	32	1.43	225	18	324.3	329.4	324.6
493.3	6095	-7.8	-22.4	30	1.29	230	18	324.7	329.3	324.9
469.0	6486	-10.5	-27.5	23	0.86	230	17	326.1	329.3	326.2
437.6	7010	-14.5	-30.6	24	0.69	230	16	327.5	330.1	327.7
403.8	7619	-19.2	-34.3	25	0.52	210	23	329.1	331.1	329.2
400.0	7690	-19.7	-34.7	25	0.51	210	24	329.3	331.2	329.4
387.4	7924	-21.7	-35.3	28	0.49	210	26	329.7	331.6	329.8
365.0	8362	-25.5	-36.5	35	0.46	215	28	330.3	332.1	330.4
344.0	8790	-27.3	-43.3	20	0.24	221	31	333.5	334.5	333.5
327.3	9143	-29.9	-45.6	20	0.20	225	33	334.7	335.5	334.7
300.0	9760	-34.5	-49.5	20	0.14	235	39	336.6	337.2	336.7
262.6	10667	-42.0	-54.8	23	0.09	250	47	338.8	339.1	338.8
251.0	10972	-44.5	-56.5	25	0.07	250	48	339.4	339.7	339.4
250.0	11000	-44.7	-56.7	25	0.07	250	48	339.5	339.8	339.5
200.0	12460	-53.7	-63.7	28	0.04	250	37	347.6	347.7	347.6
171.8	13411	-61.0	-70.3	28	0.02	245	37	350.9	351.0	350.9
161.0	13819	-64.1	-73.1	28	0.01	250	34	352.3	352.3	352.3
150.0	14250	-65.9	-74.9	27	0.01	255	31	356.4	356.4	356.4
127.3	15239	-70.2	-78.3	30	0.01	265	23	365.7	365.7	365.7
126.0	15299	-70.5	-78.5	30	0.01	260	21	366.3	366.3	366.3
116.0	15790	-71.1	-79.1	30	0.01	256	14	373.9	373.9	373.9
114.9	15849	-70.1	-78.1	30	0.01	255	13	376.9	376.9	376.9
112.0	16000	-67.5	-75.5	31	0.01	240	12	384.4	384.5	384.4
100.0	16680	-69.7	-77.7	30	0.01	175	7	392.8	392.9	392.8

Station information and sounding indices

Station identifier: DRA  
Station number: 72387  
Observation time: 940629/0000  
Station latitude: 36.61  
Station longitude: -116.01  
Station elevation: 1009.0  
Showalter index: -2.63  
Lifted index: -3.68  
LIFT computed using virtual temperature: -4.43  
SWEAT index: 259.20  
K index: 28.30  
Cross totals index: 13.70  
Vertical totals index: 41.70  
Totals totals index: 55.40  
Convective Available Potential Energy: 1347.46  
CAPE using virtual temperature: 1482.39  
Convective Inhibition: -16.98  
CINS using virtual temperature: 0.00  
Equilibrium Level: 193.41  
Equilibrium Level using virtual temperature: 192.97  
Level of Free Convection: 569.09

LFCT using virtual temperature: 578.70  
Bulk Richardson Number: 118.88  
Bulk Richardson Number using CAPV: 130.79  
Temp [K] of the Lifted Condensation Level: 275.82  
Pres [hPa] of the Lifted Condensation Level: 578.70  
Mean mixed layer potential temperature: 322.49  
Mean mixed layer mixing ratio: 8.13  
1000 hPa to 500 hPa thickness: 5943.00  
Precipitable water [mm] for entire sounding: 22.50

# 72387 DRA Mercury Observations at 12Z 29 Jun 1994

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	57									
925.0										
902.0	1009	28.4	6.4	25	6.73	30	9	310.6	331.7	311.8
893.0	1098	30.8	4.8	19	6.07	34	7	313.9	333.4	315.1
880.9	1219	30.5	4.5	19	6.01	40	4	314.8	334.1	316.0
850.0	1535	29.6	3.6	19	5.86	170	1	317.1	336.1	318.3
821.8	1828	27.3	2.3	20	5.53	215	3	317.8	335.8	318.8
793.5	2133	24.9	1.0	21	5.20	265	7	318.4	335.4	319.4
766.1	2438	22.4	-0.4	22	4.89	280	10	319.0	335.1	319.9
739.7	2743	20.0	-1.7	23	4.59	280	10	319.5	334.7	320.4
700.0	3223	16.2	-3.8	25	4.14	285	13	320.4	334.2	321.2
689.4	3352	15.2	-5.1	24	3.83	285	14	320.7	333.5	321.4
664.9	3657	12.8	-8.0	23	3.16	280	21	321.3	332.0	321.9
657.0	3757	12.0	-9.0	22	2.96	278	22	321.5	331.6	322.1
616.8	4267	7.4	-10.6	27	2.78	270	28	322.1	331.6	322.6
571.9	4876	1.9	-12.5	34	2.57	255	33	322.6	331.5	323.1
530.3	5486	-3.6	-14.4	43	2.37	240	39	323.1	331.3	323.6
500.0	5960	-7.9	-15.9	53	2.23	235	39	323.3	331.1	323.8
491.3	6095	-9.2	-15.6	60	2.33	235	39	323.3	331.4	323.8
468.0	6470	-12.9	-14.7	86	2.63	232	40	323.3	332.4	323.8
453.7	6705	-15.2	-17.4	83	2.17	230	40	323.3	330.9	323.8
442.0	6902	-17.1	-19.6	81	1.84	233	40	323.3	329.8	323.7
436.0	7005	-17.9	-22.5	67	1.45	235	41	323.6	328.7	323.9
433.0	7056	-17.5	-30.5	31	0.70	236	41	324.7	327.3	324.9
425.0	7196	-16.5	-32.5	24	0.59	238	41	327.7	330.0	327.9
401.7	7619	-18.7	-33.8	25	0.55	245	42	330.2	332.3	330.3
400.0	7650	-18.9	-33.9	25	0.55	245	42	330.3	332.4	330.4
385.4	7924	-20.7	-35.7	25	0.47	245	42	331.5	333.3	331.6
358.0	8468	-24.3	-39.3	24	0.36	241	40	333.7	335.1	333.8
325.7	9143	-29.9	-43.8	25	0.24	235	38	335.2	336.2	335.3
300.0	9730	-34.7	-47.7	25	0.17	235	44	336.4	337.1	336.4
299.0	9753	-34.9	-47.9	26	0.17	235	45	336.4	337.1	336.4
261.7	10667	-42.6	-54.1	27	0.09	235	42	338.1	338.5	338.1
250.0	10980	-45.3	-56.3	28	0.07	235	36	338.6	338.9	338.6
240.0	11250	-47.5	-57.5	31	0.07	238	36	339.2	339.6	339.3
207.5	12191	-53.4	-62.6	32	0.04	250	34	344.4	344.6	344.4
200.0	12430	-54.9	-63.9	32	0.04	250	34	345.7	345.8	345.7
165.0	13636	-63.1	-71.1	33	0.02	247	30	351.5	351.6	351.5
150.0	14220	-64.3	-72.3	33	0.01	245	28	359.1	359.2	359.1
126.4	15239	-70.2	-77.7	33	0.01	235	25	366.5	366.5	366.5
111.0	16009	-74.7	-81.7	33	0.00	250	23	371.9	371.9	371.9
102.8	16459	-71.5	-78.5	35	0.01	265	16	386.4	386.4	386.4
100.0	16620	-70.3	-77.3	35	0.01	265	14	391.6	391.7	391.6



97.7	16760	-70.3	-77.3	35	0.01	275	7	394.3	394.3	394.3
96.6	16826	-70.3	-77.3	35	0.01	279	7	395.5	395.6	395.5
93.9	16995	-71.1	-78.1	35	0.01	287	7	397.2	397.2	397.2
79.3	18002	-69.3	-76.3	36	0.02	341	6	420.5	420.6	420.5
74.5	18380	-65.1	-73.1	32	0.03	0	5	436.9	437.1	436.9
70.0	18760	-65.3	-73.3	32	0.03	20	5	444.4	444.5	444.4
50.0	20830	-59.9	-68.9	30	0.07	50	9	501.9	502.4	501.9
46.2	21330	-58.9	-67.9	30	0.09	85	14	515.9	516.5	515.9
41.9	21940	-57.6	-66.6	31	0.12	100	18	533.5	534.3	533.5
40.8	22107	-57.3	-66.3	31	0.13			538.4	539.3	538.4

Station information and sounding indices

Station identifier: DRA

Station number: 72387

Observation time: 940629/1200

Station latitude: 36.61

Station longitude: -116.01

Station elevation: 1009.0

Showalter index: 0.62

Lifted index: 1.47

LIFT computed using virtual temperature: 1.22

SWEAT index: 84.19

K index: 21.10

Cross totals index: 11.50

Vertical totals index: 37.50

Totals totals index: 49.00

Convective Available Potential Energy: 23.23

CAPE using virtual temperature: 26.65

Convective Inhibition: -682.48

CINS using virtual temperature: -627.48

Equilibrium Level: 429.75

Equilibrium Level using virtual temperature: 428.71

Level of Free Convection: 471.78

LFCT using virtual temperature: 473.59

Bulk Richardson Number: 0.36

Bulk Richardson Number using CAPV: 0.41

Temp [K] of the Lifted Condensation Level: 272.34

Pres [hPa] of the Lifted Condensation Level: 602.02

Mean mixed layer potential temperature: 314.86

Mean mixed layer mixing ratio: 6.05

1000 hPa to 500 hPa thickness: 5903.00

Precipitable water [mm] for entire sounding: 18.74

72387 DRA Mercury Observations at 00Z 30 Jun 1994

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	27									
925.0										
899.0	1009	43.6	7.6	12	7.33	220	15	326.5	351.0	328.0
895.0	1050	41.0	11.0	17	9.29	221	16	324.3	354.8	326.1
878.6	1219	38.5	8.9	17	8.19	225	21	323.3	350.2	324.9
857.0	1447	35.0	6.0	17	6.89	225	26	322.0	344.7	323.4
850.0	1521	34.4	5.4	16	6.66	225	27	322.2	344.1	323.5
820.9	1828	31.5	3.6	17	6.06	235	27	322.3	342.3	323.5

792.9	2133	28.6	1.8	18	5.50	240	26	322.4	340.7	323.5
765.9	2438	25.7	-0.1	18	4.99	235	27	322.5	339.2	323.5
739.8	2743	22.8	-1.9	19	4.52	235	25	322.6	337.7	323.5
700.0	3229	18.2	-4.8	21	3.84	250	23	322.6	335.6	323.4
689.9	3352	17.0	-5.3	21	3.74	250	24	322.7	335.3	323.4
665.3	3657	14.2	-6.7	23	3.49	255	25	322.8	334.7	323.5
636.0	4037	10.6	-8.4	25	3.21	255	23	322.9	333.8	323.5
618.0	4267	8.4	-9.0	28	3.16	255	22	323.0	333.8	323.6
572.9	4876	2.5	-10.4	38	3.03	250	20	323.2	333.5	323.8
511.3	5791	-6.4	-12.7	61	2.84	260	14	323.1	332.9	323.7
500.0	5970	-8.1	-13.1	67	2.80	260	17	323.1	332.7	323.6
492.0	6095	-9.1	-14.1	67	2.62	260	19	323.4	332.4	323.9
489.0	6143	-9.5	-14.5	67	2.56	260	19	323.4	332.3	323.9
468.0	6481	-11.3	-28.3	23	0.80	259	23	325.3	328.2	325.4
420.0	7304	-16.1	-33.1	22	0.56	256	31	329.4	331.5	329.5
402.7	7619	-18.5	-34.6	23	0.50	255	34	330.2	332.2	330.3
400.0	7670	-18.9	-34.9	23	0.50	255	34	330.3	332.3	330.4
386.4	7924	-21.2	-36.8	23	0.42	255	32	330.6	332.2	330.6
366.0	8324	-24.9	-39.9	23	0.33	244	31	330.8	332.1	330.9
340.5	8839	-28.7	-43.0	24	0.25	230	30	332.6	333.6	332.6
326.2	9143	-30.9	-44.8	24	0.22	230	32	333.6	334.5	333.6
300.0	9740	-35.3	-48.3	25	0.16	240	34	335.5	336.2	335.5
262.1	10667	-42.3	-53.8	27	0.10	235	42	338.5	338.9	338.5
250.0	10990	-44.7	-55.7	28	0.08	235	43	339.5	339.8	339.5
228.3	11582	-49.1	-59.2	30	0.06	240	47	341.7	341.9	341.7
206.0	12252	-54.1	-63.1	32	0.04	244	46	344.0	344.2	344.0
200.0	12440	-54.3	-63.3	32	0.04	245	46	346.6	346.8	346.6
171.2	13411	-59.9	-68.4	32	0.02	240	42	353.1	353.2	353.1
150.0	14240	-64.7	-72.7	32	0.01	260	27	358.4	358.5	358.4
133.7	14935	-69.2	-76.3	35	0.01	270	15	362.4	362.5	362.4
132.0	15012	-69.7	-76.7	35	0.01	270	16	362.9	362.9	362.9
127.0	15239	-70.0	-77.0	35	0.01	265	14	366.3	366.4	366.3
110.0	16095	-71.1	-78.1	35	0.01	272	6	379.6	379.7	379.6
103.5	16459	-70.8	-77.8	35	0.01	275	3	386.8	386.9	386.8
100.0	16660	-70.7	-77.7	35	0.01	285	3	390.9	390.9	390.9
98.4	16756	-69.5	-76.5	35	0.01	324	2	395.0	395.1	395.0
98.3	16760	-69.5	-76.5	35	0.01	325	2	395.0	395.1	395.1
92.8	17106	-70.9	-77.9	35	0.01	314	3	398.9	399.0	398.9
89.6	17317	-66.7	-74.7	32	0.02	307	3	411.3	411.4	411.3
78.1	18149	-67.9	-74.9	36	0.02	281	4	425.3	425.4	425.3
70.0	18820	-62.1	-70.1	33	0.04	260	5	451.2	451.5	451.2
67.8	19017	-59.7	-68.7	30	0.05	243	6	460.5	460.9	460.5
51.6	20720	-56.7	-65.7	31	0.11	100	11	504.9	505.6	504.9
50.0	20920	-56.3	-65.3	31	0.12	95	12	510.4	511.2	510.4
46.9	21330	-55.4	-65.2	29	0.13	75	13	522.1	523.0	522.1
46.0	21451	-55.1	-65.1	28	0.13	73	13	525.6	526.5	525.6
44.7	21640	-55.1	-65.1	28	0.13	70	13	530.0	530.9	530.0
38.7	22550	-55.3	-65.3	28	0.15	95	18	551.5	552.7	551.6
33.1	23550	-55.5	-65.5	28	0.17	95	19	576.3	577.7	576.4
30.0	24180	-53.5	-63.5	28	0.25	95	20	598.2	600.2	598.3
21.0	26510	-46.0	-57.7	25	0.75	65	29	684.8	691.5	685.1
20.0	26840	-44.9	-56.9	25	0.87	70	28	698.0	705.8	698.3
18.3	27430	-43.7	-56.1	24	1.05	80	29	719.2	728.9	719.6
12.8	29870	-38.9	-52.8	22	2.24	100	24	813.8	837.1	814.9
12.4	30082	-38.5	-52.5	21	2.39			822.5	847.7	823.7

# Station information and sounding indices

Observation time: 940630/0000  
Station latitude: 36.61  
Station longitude: -116.01  
Station elevation: 1009.0  
Showalter index: -2.84  
Lifted index: -4.71  
LIFT computed using virtual temperature: -5.24  
SWEAT index: 372.50  
K index: 24.90  
Cross totals index: 13.50  
Vertical totals index: 42.50  
Totals totals index: 56.00  
Convective Available Potential Energy: 1517.58  
CAPE using virtual temperature: 1682.51  
Convective Inhibition: 0.00  
CINS using virtual temperature: 0.00  
Equilibrium Level: 191.43  
Equilibrium Level using virtual temperature: 191.19  
Level of Free Convection: 569.47  
LFCT using virtual temperature: 569.47  
Bulk Richardson Number: 180.14  
Bulk Richardson Number using CAPV: 199.72  
Temp [K] of the Lifted Condensation Level: 275.19  
Pres [hPa] of the Lifted Condensation Level: 569.47  
Mean mixed layer potential temperature: 323.22  
Mean mixed layer mixing ratio: 7.92  
1000 hPa to 500 hPa thickness: 5943.00  
Precipitable water [mm] for entire sounding: 20.10

72387 DRA Mercury Observations at 12Z 30 Jun 1994

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									
925.0										
900.0	1009	28.8	3.8	20	5.61	30	8	311.2	329.0	312.2
898.0	1029	28.4	3.4	20	5.47	19	8	311.0	328.3	312.0
893.0	1078	31.8	5.8	20	6.51	350	8	315.0	335.8	316.2
889.0	1118	32.4	6.4	20	6.82	328	9	316.0	337.9	317.3
878.9	1219	31.8	5.8	20	6.64	270	9	316.4	337.8	317.7
850.0	1516	30.2	4.2	19	6.12	225	11	317.8	337.6	318.9
849.3	1523	30.1	4.2	19	6.11	225	12	317.8	337.6	318.9
820.1	1828	27.7	2.4	20	5.59	235	11	318.4	336.6	319.5
791.9	2133	25.2	0.7	20	5.11	255	10	319.0	335.8	319.9
764.6	2438	22.8	-1.0	20	4.66	270	13	319.5	334.9	320.4
738.3	2743	20.3	-2.8	21	4.25	270	15	320.1	334.2	320.9
700.0	3207	16.6	-5.4	22	3.67	260	20	320.8	333.2	321.6
662.3	3657	12.6	-7.5	24	3.31	260	24	321.4	332.6	322.1
614.4	4267	7.1	-10.2	28	2.87	245	27	322.1	331.9	322.7
570.0	4876	1.6	-13.0	33	2.47	240	30	322.7	331.2	323.1
500.0	5940	-7.9	-17.9	45	1.88	240	32	323.3	329.9	323.7
490.0	6095	-9.2	-18.6	46	1.81	240	31	323.7	330.0	324.0
471.0	6400	-11.6	-19.9	50	1.68	240	28	324.3	330.2	324.6
466.0	6482	-12.3	-20.3	51	1.64	238	28	324.4	330.3	324.8
462.0	6548	-12.7	-25.7	33	1.03	237	28	324.7	328.5	324.9
417.1	7315	-17.9	-31.6	29	0.65	220	25	327.6	330.1	327.8
400.6	7619	-20.0	-34.0	28	0.54	220	25	328.7	330.8	328.9

400.0	7630	-20.1	-34.1	28	0.54	220	25	328.8	330.8	328.9
353.2	8534	-28.4	-40.9	29	0.31	230	27	329.5	330.8	329.6
339.0	8832	-31.1	-43.1	30	0.25	228	26	329.7	330.7	329.8
324.3	9143	-33.0	-44.1	32	0.24	225	24	331.2	332.2	331.3
308.0	9507	-35.3	-45.3	35	0.22	222	27	333.0	333.9	333.0
300.0	9690	-36.7	-43.7	48	0.27	220	28	333.5	334.6	333.6
287.0	9995	-38.9	-42.4	69	0.32	222	28	334.6	335.9	334.7
279.0	10188	-39.5	-48.5	38	0.17	223	28	336.5	337.2	336.5
259.9	10667	-42.9	-51.9	37	0.12	225	28	338.4	339.0	338.5
250.0	10930	-44.7	-53.7	36	0.10	225	31	339.5	339.9	339.5
200.0	12390	-55.1	-63.1	36	0.04	220	44	345.4	345.5	345.4
196.6	12496	-55.8	-63.7	36	0.04	220	44	346.0	346.1	346.0
150.0	14180	-66.5	-73.5	37	0.01	230	27	355.3	355.4	355.3
132.2	14935	-71.5	-78.5	35	0.01	225	25	359.4	359.5	359.4
129.0	15080	-72.5	-79.5	34	0.01	235	26	360.2	360.2	360.2
125.6	15239	-72.6	-79.4	35	0.01	240	26	362.9	362.9	362.9
111.0	15963	-72.9	-78.9	40	0.01	285	16	375.3	375.3	375.3
107.0	16180	-70.3	-77.3	35	0.01	298	14	384.1	384.2	384.1
102.1	16459	-71.6	-78.6	35	0.01	315	10	386.9	387.0	386.9
100.0	16580	-72.1	-79.1	34	0.01	320	10	388.2	388.2	388.2

Station information and sounding indices

Station identifier: DRA

Station number: 72387

Observation time: 940630/1200

Station latitude: 36.61

Station longitude: -116.01

Station elevation: 1009.0

Showalter index: -0.01

Lifted index: 0.39

LIFT computed using virtual temperature: 0.04

SWEAT index: 128.38

K index: 20.30

Cross totals index: 12.10

Vertical totals index: 38.10

Totals totals index: 50.20

Convective Available Potential Energy: 138.09

CAPE using virtual temperature: 166.46

Convective Inhibition: -533.31

CINS using virtual temperature: -467.40

Equilibrium Level: 286.59

Equilibrium Level using virtual temperature: 286.46

Level of Free Convection: 484.51

LFCT using virtual temperature: 496.19

Bulk Richardson Number: 4.72

Bulk Richardson Number using CAPV: 5.70

Temp [K] of the Lifted Condensation Level: 273.02

Pres [hPa] of the Lifted Condensation Level: 598.84

Mean mixed layer potential temperature: 316.12

Mean mixed layer mixing ratio: 6.40

1000 hPa to 500 hPa thickness: 5906.00

Precipitable water [mm] for entire sounding: 17.94

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 \(ldoolman@uwyo.edu\)](#)

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