

# 72387 DRA Mercury Observations at 00Z 01 Jul 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	17									
925.0										
898.0	1009	43.2	7.2	12	7.14	240	20	326.2	350.1	327.6
895.0	1040	39.8	10.8	18	9.16	240	21	323.0	353.0	324.8
892.0	1071	39.2	10.2	18	8.83	240	21	322.7	351.6	324.4
877.6	1219	37.7	9.1	18	8.30	240	24	322.7	349.9	324.3
850.0	1510	34.8	6.8	18	7.34	240	24	322.6	346.7	324.0
819.9	1828	31.8	4.6	18	6.51	240	22	322.8	344.3	324.1
792.0	2133	29.0	2.4	18	5.79	240	20	322.9	342.2	324.1
765.0	2438	26.1	0.3	18	5.13	240	19	323.1	340.2	324.1
739.0	2743	23.3	-1.9	19	4.54	240	20	323.2	338.4	324.1
713.9	3047	20.4	-4.0	19	4.01	240	18	323.2	336.8	324.0
700.0	3220	18.8	-5.2	19	3.73	240	18	323.3	335.9	324.0
664.5	3657	14.6	-7.0	22	3.41	245	16	323.4	335.0	324.1
617.8	4267	8.8	-9.6	26	3.01	255	17	323.5	333.8	324.1
600.0	4512	6.4	-10.6	28	2.86	255	17	323.5	333.3	324.0
573.4	4876	3.0	-12.2	32	2.63	255	16	323.7	332.8	324.2
551.9	5181	0.1	-13.5	35	2.46	265	14	323.8	332.3	324.3
531.3	5486	-2.8	-14.8	39	2.29	240	22	323.9	331.9	324.3
506.0	5877	-6.5	-16.5	45	2.09	248	22	323.9	331.3	324.4
500.0	5970	-7.5	-12.5	67	2.94	250	22	323.8	333.9	324.4
498.0	6001	-7.7	-12.6	68	2.93	250	22	324.0	334.0	324.5
492.0	6095	-8.4	-14.9	59	2.45	250	22	324.2	332.7	324.7
483.0	6239	-9.5	-18.5	48	1.85	249	23	324.6	331.1	324.9
455.0	6698	-13.9	-20.9	55	1.60	244	24	324.7	330.4	325.0
426.0	7198	-16.3	-30.3	29	0.73	239	26	327.8	330.5	327.9
402.7	7619	-19.0	-34.8	23	0.50	235	28	329.6	331.5	329.7
400.0	7670	-19.3	-35.3	23	0.48	235	28	329.8	331.7	329.9
354.0	8560	-27.3	-40.3	28	0.32	229	32	330.8	332.1	330.8
326.2	9143	-30.6	-43.5	27	0.25	225	35	334.1	335.1	334.2
320.0	9279	-31.3	-44.3	27	0.23	224	34	334.9	335.9	335.0
300.0	9730	-35.3	-47.3	28	0.18	220	32	335.5	336.2	335.5
261.7	10667	-42.2	-53.5	28	0.10	215	37	338.8	339.2	338.8
250.0	10980	-44.5	-55.5	28	0.08	215	38	339.8	340.1	339.8
235.0	11391	-47.9	-57.9	31	0.07	212	43	340.7	341.0	340.7
228.2	11582	-48.9	-58.7	31	0.06	210	46	342.0	342.3	342.0
200.0	12440	-53.5	-62.5	32	0.04	225	41	347.9	348.1	347.9
188.8	12801	-55.3	-64.1	33	0.04	230	41	350.7	350.9	350.7
150.0	14250	-62.7	-70.7	33	0.02	225	26	361.9	362.0	361.9
148.2	14325	-63.1	-71.1	33	0.02	225	26	362.4	362.5	362.4
127.4	15239	-68.6	-75.8	35	0.01	230	22	368.5	368.5	368.5
123.0	15452	-69.9	-76.9	35	0.01	235	18	369.9	369.9	369.9
121.1	15544	-70.0	-77.0	35	0.01	240	17	371.4	371.4	371.4
112.0	16009	-70.3	-77.3	35	0.01	218	13	379.2	379.2	379.2
107.0	16283	-67.1	-74.1	37	0.02	204	11	390.2	390.3	390.2
100.0	16690	-68.1	-75.1	36	0.01	185	7	395.9	396.0	395.9
98.8	16763	-68.3	-75.3	36	0.01	185	7	396.9	397.0	397.0
98.5	16781	-68.3	-75.3	36	0.01	186	7	397.2	397.3	397.2
94.0	17060	-68.5	-75.5	36	0.01	195	9	402.1	402.2	402.1
83.7	17758	-69.1	-76.1	36	0.01	264	9	414.5	414.6	414.5
79.4	18078	-63.1	-71.1	33	0.03	295	8	433.2	433.4	433.2
70.0	18860	-60.1	-69.1	30	0.05	10	8	455.5	455.8	455.5
56.7	20183	-56.5	-65.5	31	0.10	54	10	491.9	492.6	491.9

50.0	20980	-55.9	-65.9	27	0.11	80	11	511.3	512.1	511.3
49.6	21030	-55.8	-65.8	27	0.11	85	12	512.6	513.4	512.6
47.4	21330	-55.4	-65.5	27	0.12	90	15	520.6	521.4	520.6
45.1	21640	-54.9	-65.1	27	0.13	100	18	528.9	529.8	528.9
30.9	24070	-51.4	-62.3	26	0.28	75	20	598.9	601.1	599.0
30.0	24260	-51.1	-62.1	26	0.30	75	19	604.7	607.1	604.8
28.8	24525	-51.9	-62.9	25	0.28	77	20	609.6	611.9	609.7
20.0	26930	-44.5	-57.5	22	0.81	95	27	699.2	706.5	699.5
18.6	27430	-42.9	-56.3	21	1.01	100	26	719.2	728.6	719.6
17.8	27730	-41.9	-55.6	21	1.15	110	24	731.4	742.3	731.9
16.8	28107	-40.7	-54.7	21	1.36	107	26	747.1	760.1	747.7
11.9	30470	-37.9	-53.6	18	2.18	85	35	834.5	857.8	835.6
11.4	30767	-37.5	-53.5	17	2.31			846.1	871.3	847.3

## Station information and sounding indices

Station identifier: DRA  
 Station number: 72387  
 Observation time: 940701/0000  
 Station latitude: 36.61  
 Station longitude: -116.01  
 Station elevation: 1009.0  
 Showalter index: -3.23  
 Lifted index: -4.21

LIFT computed using virtual temperature: -4.73  
 SWEAT index: 350.33  
 K index: 25.10  
 Cross totals index: 14.30  
 Vertical totals index: 42.30  
 Totals totals index: 56.60  
 Convective Available Potential Energy: 1478.72  
 CAPE using virtual temperature: 1601.40  
 Convective Inhibition: -47.33  
 CINS using virtual temperature: 0.00  
 Equilibrium Level: 196.92  
 Equilibrium Level using virtual temperature: 196.83  
 Level of Free Convection: 564.34  
 LFCT using virtual temperature: 576.51  
 Bulk Richardson Number: 736.13  
 Bulk Richardson Number using CAPV: 797.20  
 Temp [K] of the Lifted Condensation Level: 275.78  
 Pres [hPa] of the Lifted Condensation Level: 576.51  
 Mean mixed layer potential temperature: 322.79  
 Mean mixed layer mixing ratio: 8.14  
 1000 hPa to 500 hPa thickness: 5953.00  
 Precipitable water [mm] for entire sounding: 20.28

## 72387 DRA Mercury Observations at 12Z 01 Jul 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	28									
925.0										
899.0	1009	28.4	3.4	20	5.46	20	4	310.9	328.2	311.9
896.0	1039	32.2	7.2	21	7.16	356	6	315.1	337.9	316.4
894.0	1059	33.2	7.2	20	7.17	341	7	316.3	339.3	317.7

878.2	1219	33.0	6.1	19	6.76	215	16	317.7	339.6	319.0
877.0	1231	33.0	6.0	19	6.73	215	16	317.9	339.6	319.1
850.0	1511	30.8	4.8	19	6.38	220	16	318.4	339.1	319.6
819.6	1828	28.0	3.5	21	6.03	240	16	318.8	338.4	319.9
791.4	2133	25.3	2.2	22	5.71	245	20	319.1	337.7	320.2
764.2	2438	22.6	1.0	24	5.40	240	20	319.4	337.1	320.4
737.9	2743	19.9	-0.3	26	5.10	230	19	319.6	336.4	320.6
700.0	3202	15.8	-2.2	29	4.67	225	19	319.9	335.4	320.9
687.2	3352	14.4	-3.0	30	4.49	225	19	320.1	335.0	321.0
661.8	3657	11.7	-4.6	32	4.12	230	18	320.5	334.3	321.3
613.8	4267	6.2	-7.9	36	3.46	230	18	321.2	332.9	321.9
569.4	4876	0.8	-11.1	41	2.89	225	20	321.7	331.6	322.3
500.0	5930	-8.7	-16.7	52	2.08	245	31	322.4	329.6	322.8
489.4	6095	-10.0	-18.4	50	1.84	245	32	322.8	329.2	323.1
453.0	6689	-14.7	-24.7	42	1.15	219	28	324.1	328.2	324.3
434.0	7010	-17.6	-25.1	52	1.16	205	26	324.4	328.6	324.6
407.0	7492	-21.9	-25.6	72	1.18	213	26	324.8	329.1	325.1
400.1	7619	-22.9	-28.9	58	0.89	215	26	325.1	328.4	325.3
400.0	7620	-22.9	-28.9	58	0.88	210	26	325.1	328.4	325.3
381.0	7973	-25.7	-34.7	43	0.53	216	28	326.0	328.0	326.1
365.0	8282	-27.9	-34.9	51	0.54	221	30	327.1	329.2	327.2
358.0	8420	-29.1	-32.3	74	0.71	223	31	327.3	330.0	327.4
350.0	8580	-30.1	-39.1	41	0.37	226	32	328.1	329.5	328.1
340.0	8786	-31.1	-34.9	69	0.58	229	34	329.4	331.7	329.6
332.0	8953	-32.1	-41.1	40	0.32	232	35	330.3	331.6	330.4
323.1	9143	-33.2	-37.2	67	0.49	235	36	331.4	333.3	331.5
322.0	9168	-33.3	-36.7	71	0.51	235	36	331.6	333.6	331.7
309.3	9448	-35.0	-39.3	65	0.41	235	38	333.0	334.6	333.1
300.0	9660	-36.3	-41.2	60	0.35	235	37	334.1	335.5	334.2
295.0	9776	-37.1	-42.0	60	0.32	236	36	334.6	335.9	334.6
281.0	10111	-39.5	-48.5	38	0.17	237	32	335.8	336.5	335.8
258.8	10667	-44.3	-53.3	36	0.10	240	25	336.7	337.2	336.8
250.0	10900	-46.3	-55.3	35	0.08	240	26	337.1	337.5	337.1
224.0	11625	-50.7	-58.7	38	0.06	228	31	341.1	341.4	341.1
200.0	12360	-54.3	-62.3	37	0.04	215	37	346.6	346.8	346.6
186.4	12801	-56.8	-64.5	37	0.04	220	45	349.7	349.9	349.7
150.0	14160	-64.3	-71.3	38	0.02	240	29	359.1	359.2	359.1
138.8	14630	-66.8	-73.8	37	0.01	245	24	362.8	362.9	362.9
125.4	15239	-70.0	-77.0	35	0.01	255	26	367.6	367.7	367.6
125.0	15260	-70.1	-77.1	35	0.01	255	26	367.8	367.9	367.8
115.0	15755	-70.7	-77.7	35	0.01	267	24	375.6	375.6	375.6
102.2	16459	-68.3	-75.3	36	0.01	285	20	393.0	393.0	393.0
100.0	16590	-67.9	-74.9	36	0.01	300	16	396.3	396.4	396.3
98.9	16657	-67.7	-74.7	36	0.02	302	15	397.9	398.0	397.9
97.2	16760	-68.3	-75.3	36	0.01	305	14	398.8	398.9	398.8
93.0	17025	-69.7	-76.7	35	0.01	294	13	401.0	401.1	401.0
70.0	18750	-62.7	-70.7	33	0.04	220	4	449.9	450.1	449.9
56.7	20055	-58.5	-66.5	35	0.09	120	10	487.4	487.9	487.4
50.0	20840	-59.1	-67.1	35	0.09	60	13	503.8	504.4	503.8
46.3	21330	-58.0	-66.6	32	0.11	70	15	517.6	518.3	517.6
40.1	22250	-55.9	-65.6	29	0.14	100	19	544.5	545.5	544.5
30.2	24070	-51.8	-63.7	22	0.24	85	24	601.8	603.7	601.9
30.0	24110	-51.7	-63.7	22	0.24	90	23	603.1	605.1	603.2
25.0	25290	-51.1	-63.7	21	0.29	105	22	636.9	639.4	637.0
21.9	26153	-50.7	-63.7	20	0.33	93	19	662.8	665.8	663.0
20.0	26750	-46.1	-60.1	19	0.58	85	17	694.3	699.6	694.5
18.2	27381	-42.5	-57.5	18	0.89	76	20	724.6	733.0	725.0
18.1	27430	-42.6	-57.6	18	0.89	75	20	725.9	734.3	726.3
14.7	28815	-44.3	-59.3	17	0.88	98	27	764.1	773.0	764.5
13.8	29260	-43.8	-58.9	17	0.98	105	29	780.6	790.6	781.0
11.5	30470	-42.3	-57.9	17	1.34	105	30	827.0	841.5	827.7

10.5 31080 -41.5 -57.4 16 1.56 105 29 851.5 868.9 852.3  
 10.0 31410 -41.1 -57.1 16 1.70 865.0 884.2 865.9

## Station information and sounding indices

Station identifier: DRA  
 Station number: 72387  
 Observation time: 940701/1200  
 Station latitude: 36.61  
 Station longitude: -116.01  
 Station elevation: 1009.0  
 Showalter index: -1.44  
 Lifted index: -1.37  
 LIFT computed using virtual temperature: -1.75  
 SWEAT index: 278.44  
 K index: 26.30  
 Cross totals index: 13.50  
 Vertical totals index: 39.50  
 Totals totals index: 53.00  
 Convective Available Potential Energy: 531.77  
 CAPE using virtual temperature: 570.47  
 Convective Inhibition: -299.77  
 CINS using virtual temperature: -249.58  
 Equilibrium Level: 244.79  
 Equilibrium Level using virtual temperature: 244.55  
 Level of Free Convection: 525.30  
 LFCT using virtual temperature: 533.04  
 Bulk Richardson Number: 45.33  
 Bulk Richardson Number using CAPV: 48.63  
 Temp [K] of the Lifted Condensation Level: 273.56  
 Pres [hPa] of the Lifted Condensation Level: 594.87  
 Mean mixed layer potential temperature: 317.34  
 Mean mixed layer mixing ratio: 6.70  
 1000 hPa to 500 hPa thickness: 5902.00  
 Precipitable water [mm] for entire sounding: 20.82

## 72387 DRA Mercury Observations at 00Z 02 Jul 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	20									
925.0										
898.0	1009	38.8	9.8	17	8.54	170	18	321.7	349.5	323.3
894.0	1049	36.4	10.4	21	8.93	171	18	319.6	348.4	321.3
877.2	1219	34.6	9.0	21	8.26	175	18	319.5	346.2	321.1
850.0	1501	31.6	6.6	21	7.24	185	18	319.2	342.7	320.6
818.8	1828	28.4	5.3	23	6.88	195	20	319.3	341.7	320.6
790.8	2133	25.5	4.2	25	6.56	210	25	319.4	340.7	320.6
763.8	2438	22.6	3.0	28	6.24	215	26	319.4	339.8	320.6
737.6	2743	19.6	1.8	30	5.94	220	26	319.4	338.8	320.6
725.0	2894	18.2	1.2	32	5.79	223	26	319.4	338.3	320.5
700.0	3193	16.2	-2.8	27	4.47	230	27	320.4	335.2	321.3
680.0	3438	14.8	-4.2	27	4.14	225	24	321.5	335.4	322.3
662.0	3657	12.8	-5.2	28	3.96	220	22	321.7	334.9	322.4
637.8	3962	9.9	-6.5	31	3.71	220	21	321.9	334.4	322.6
614.4	4267	7.1	-7.8	34	3.48	230	18	322.1	333.8	322.7

570.3	4876	1.4	-10.4	41	3.04	245	15	322.3	332.7	322.9
549.4	5181	-1.4	-11.8	45	2.84	250	16	322.4	332.1	323.0
532.0	5443	-3.9	-12.9	50	2.68	235	17	322.4	331.6	323.0
500.0	5930	-7.1	-16.1	49	2.19	205	18	324.3	332.0	324.8
489.5	6095	-8.5	-17.9	47	1.92	200	21	324.5	331.3	324.9
474.0	6344	-10.7	-20.7	44	1.56	206	21	324.9	330.4	325.2
468.0	6442	-10.9	-25.9	28	1.00	209	21	325.8	329.4	326.0
451.0	6726	-12.7	-29.7	23	0.73	216	22	327.0	329.7	327.1
400.6	7619	-19.6	-30.7	37	0.74	240	23	329.3	332.1	329.4
400.0	7630	-19.7	-30.7	37	0.75	240	23	329.3	332.1	329.4
393.0	7761	-20.3	-25.0	66	1.29	240	23	330.2	334.9	330.4
384.2	7924	-21.5	-26.2	66	1.18	240	24	330.8	335.1	331.0
324.5	9143	-30.4	-35.2	63	0.59	220	27	334.9	337.2	335.0
300.0	9710	-34.5	-39.4	61	0.42	220	27	336.6	338.3	336.7
298.1	9753	-34.9	-39.8	61	0.41	215	28	336.7	338.4	336.8
260.6	10667	-42.7	-47.7	58	0.20	220	32	338.4	339.3	338.5
250.0	10950	-45.1	-50.1	57	0.16	225	32	338.9	339.6	338.9
227.1	11582	-51.0	-56.0	55	0.09	235	34	339.3	339.7	339.3
223.0	11702	-52.1	-57.1	55	0.08	239	32	339.4	339.7	339.4
206.8	12191	-51.1	-58.2	43	0.07	255	23	348.3	348.6	348.3
200.0	12410	-50.7	-58.7	38	0.07	245	19	352.3	352.6	352.3
162.7	13715	-59.3	-66.6	38	0.03	225	20	359.2	359.4	359.3
150.0	14230	-62.7	-69.7	38	0.02	230	23	361.9	362.0	361.9
127.2	15239	-64.6	-71.6	38	0.02	255	21	375.9	376.0	375.9
126.0	15297	-64.7	-71.7	38	0.02	254	21	376.7	376.8	376.7
110.0	16113	-70.5	-77.5	35	0.01	240	15	380.8	380.8	380.8
103.8	16459	-69.5	-76.5	35	0.01	240	17	389.0	389.1	389.0
100.0	16680	-68.9	-75.9	36	0.01	240	16	394.4	394.4	394.4

## Station information and sounding indices

Station identifier: DRA  
 Station number: 72387  
 Observation time: 940702/0000  
 Station latitude: 36.61  
 Station longitude: -116.01  
 Station elevation: 1009.0  
 Showalter index: -1.30  
 Lifted index: -2.45

LIFT computed using virtual temperature: -2.98  
 SWEAT index: 201.22  
 K index: 26.30  
 Cross totals index: 13.70  
 Vertical totals index: 38.70  
 Totals totals index: 52.40  
 Convective Available Potential Energy: 942.49  
 CAPE using virtual temperature: 1028.11  
 Convective Inhibition: -106.52  
 CINS using virtual temperature: -60.56  
 Equilibrium Level: 212.87  
 Equilibrium Level using virtual temperature: 212.83  
 Level of Free Convection: 563.33  
 LFCT using virtual temperature: 575.10  
 Bulk Richardson Number: 45.32  
 Bulk Richardson Number using CAPV: 49.44  
 Temp [K] of the Lifted Condensation Level: 276.34  
 Pres [hPa] of the Lifted Condensation Level: 601.62  
 Mean mixed layer potential temperature: 319.53  
 Mean mixed layer mixing ratio: 8.11  
 1000 hPa to 500 hPa thickness: 5910.00

Precipitable water [mm] for entire sounding: 22.57

# 72387 DRA Mercury Observations at 12Z 02 Jul 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	0									
925.0										
896.0	1009	31.2	6.2	21	6.68	200	13	314.1	335.3	315.3
881.0	1160	30.2	4.2	19	5.90	204	22	314.5	333.5	315.6
875.1	1219	29.8	3.9	19	5.83	205	26	314.7	333.4	315.8
850.0	1477	27.8	2.8	20	5.54	210	25	315.2	333.1	316.3
816.1	1828	24.9	1.2	21	5.14	220	21	315.9	332.6	316.9
787.8	2133	22.5	-0.2	22	4.82	220	16	316.5	332.2	317.4
760.5	2438	20.0	-1.6	23	4.51	225	10	317.0	331.8	317.9
734.1	2743	17.5	-2.9	25	4.22	235	9	317.5	331.4	318.3
708.7	3047	15.1	-4.3	26	3.94	235	11	318.0	331.1	318.8
700.0	3154	14.2	-4.8	26	3.84	235	11	318.2	330.9	318.9
658.4	3657	10.3	-7.0	29	3.44	225	14	319.4	330.9	320.1
634.4	3962	7.9	-8.4	30	3.21	225	13	320.1	330.9	320.7
611.3	4267	5.6	-9.8	32	2.99	235	15	320.8	331.0	321.4
567.6	4876	0.9	-12.5	36	2.59	255	22	322.1	331.0	322.6
560.0	4986	0.0	-13.0	37	2.52	254	23	322.4	331.1	322.9
500.0	5880	-7.9	-15.9	53	2.23	245	27	323.3	331.1	323.8
486.3	6095	-9.7	-16.2	59	2.23	245	28	323.7	331.5	324.2
464.0	6458	-12.7	-16.8	71	2.22	242	31	324.3	332.1	324.8
461.0	6508	-12.9	-19.9	56	1.72	242	31	324.7	330.8	325.0
448.0	6726	-14.5	-21.5	55	1.54	240	33	325.4	330.9	325.6
435.0	6949	-16.5	-20.2	73	1.78	238	34	325.6	331.9	325.9
425.0	7125	-16.9	-23.9	55	1.31	237	36	327.2	332.0	327.5
421.0	7196	-17.1	-28.1	38	0.90	236	36	327.9	331.2	328.0
414.4	7315	-17.7	-29.9	34	0.78	235	37	328.6	331.5	328.8
400.0	7580	-18.9	-33.9	25	0.55	245	31	330.3	332.4	330.4
397.9	7619	-19.0	-34.0	25	0.54	250	31	330.7	332.8	330.8
392.0	7730	-19.3	-34.3	25	0.54	252	32	331.7	333.8	331.8
365.7	8229	-23.7	-37.6	27	0.41	260	35	332.6	334.2	332.6
322.0	9143	-31.7	-43.7	29	0.25	255	38	333.8	334.8	333.9
300.0	9650	-36.1	-47.1	31	0.18	250	36	334.4	335.1	334.4
270.1	10363	-41.0	-51.5	32	0.12	240	41	337.4	337.9	337.4
258.3	10667	-43.1	-53.3	32	0.10	245	42	338.6	339.0	338.6
250.0	10890	-44.7	-54.7	32	0.09	250	44	339.5	339.9	339.5
246.9	10972	-45.2	-55.2	32	0.09	255	45	339.9	340.2	339.9
219.0	11763	-50.5	-60.5	30	0.05	246	45	343.6	343.8	343.6
200.0	12350	-53.5	-62.5	32	0.04	240	45	347.9	348.1	347.9
169.3	13411	-56.6	-65.0	34	0.04	250	49	359.7	359.8	359.7
153.8	14020	-58.4	-66.5	35	0.03	265	37	366.6	366.7	366.6
150.0	14180	-58.9	-66.9	35	0.03	255	27	368.4	368.6	368.4
146.5	14325	-59.9	-67.8	35	0.03	250	19	369.3	369.4	369.3
126.0	15239	-65.8	-73.3	35	0.02	230	11	374.7	374.7	374.7
111.0	16009	-70.9	-77.9	35	0.01	255	18	379.0	379.1	379.0
102.9	16459	-68.6	-75.6	36	0.01	280	16	391.7	391.8	391.7
100.0	16630	-67.7	-74.7	36	0.02	290	15	396.7	396.8	396.7

## Station information and sounding indices

Station identifier: DRA

Station number: 72387  
 Observation time: 940702/1200  
 Station latitude: 36.61  
 Station longitude: -116.01  
 Station elevation: 1009.0  
 Showalter index: 1.97  
 Lifted index: 1.77

LIFT computed using virtual temperature: 1.54  
 SWEAT index: 207.30

K index: 19.50  
 Cross totals index: 10.70  
 Vertical totals index: 35.70  
 Totals totals index: 46.40

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: 271.88

Pres [hPa] of the Lifted Condensation Level: 599.18

Mean mixed layer potential temperature: 314.73

Mean mixed layer mixing ratio: 5.88

1000 hPa to 500 hPa thickness: 5880.00

Precipitable water [mm] for entire sounding: 18.08

## 72387 DRA Mercury Observations at 00Z 03 Jul 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	-20									
925.0										
894.0	1009	39.2	10.2	18	8.81	180	10	322.5	351.3	324.2
891.0	1040	36.8	6.8	16	7.00	183	10	320.3	343.2	321.7
873.5	1219	34.7	5.1	16	6.35	200	13	320.0	340.7	321.2
850.0	1466	31.8	2.8	16	5.54	220	16	319.4	337.6	320.5
815.8	1828	28.2	0.0	16	4.72	245	17	319.4	335.0	320.3
788.1	2133	25.2	-2.3	16	4.11	240	18	319.3	333.0	320.1
769.0	2350	23.0	-4.0	16	3.72	236	17	319.2	331.6	319.9
761.1	2438	22.1	-4.5	16	3.61	235	17	319.2	331.3	319.9
734.5	2743	19.2	-6.3	17	3.25	235	16	319.3	330.2	319.9
700.0	3156	15.2	-8.8	18	2.82	230	14	319.3	328.8	319.8
658.6	3657	10.6	-11.6	20	2.40	215	18	319.7	327.9	320.1
611.6	4267	5.0	-15.0	22	1.96	210	19	320.0	326.8	320.4
573.0	4803	0.0	-18.0	24	1.63	219	15	320.3	326.0	320.6
567.8	4876	-0.4	-18.8	24	1.53	220	14	320.6	326.0	320.9
525.7	5486	-4.1	-25.6	17	0.91	245	27	323.3	326.7	323.5
519.0	5588	-4.7	-26.7	16	0.83	245	27	323.8	326.9	323.9
500.0	5880	-6.9	-27.9	17	0.78	245	26	324.6	327.4	324.7
486.2	6095	-8.7	-29.2	17	0.70	235	26	324.9	327.6	325.1
467.4	6400	-11.3	-31.1	18	0.61	230	30	325.4	327.7	325.5
445.0	6777	-14.5	-33.5	18	0.51	238	28	326.0	327.9	326.1
414.3	7315	-17.3	-36.3	17	0.42	250	26	329.1	330.7	329.2
400.0	7580	-18.7	-37.7	17	0.37	250	32	330.6	332.1	330.7
397.8	7619	-19.0	-38.0	17	0.37	250	33	330.7	332.1	330.7
321.6	9143	-32.4	-47.6	21	0.16	250	35	333.0	333.7	333.0
300.0	9640	-36.7	-50.7	22	0.12	250	37	333.5	334.0	333.6

266.0	10464	-43.7	-56.7	22	0.07	250	42	335.0	335.3	335.0
258.1	10667	-44.9	-57.9	22	0.06	250	43	336.2	336.4	336.2
250.0	10880	-46.1	-59.1	22	0.05	250	45	337.4	337.6	337.4
204.6	12191	-51.0	-63.0	22	0.04	250	54	349.6	349.8	349.6
200.0	12340	-51.5	-63.5	22	0.04	255	48	351.1	351.2	351.1
198.0	12405	-51.5	-63.5	22	0.04	256	48	352.1	352.2	352.1
186.1	12801	-54.4	-65.7	23	0.03	260	45	353.7	353.9	353.7
163.0	13643	-60.5	-70.5	26	0.02	242	44	357.1	357.2	357.1
161.1	13715	-60.6	-70.6	26	0.02	240	44	358.2	358.2	358.2
150.0	14160	-60.9	-70.9	26	0.02	255	43	365.0	365.1	365.0
138.9	14630	-62.9	-72.6	26	0.01	255	37	369.6	369.7	369.6
125.6	15239	-65.4	-74.9	26	0.01	250	28	375.8	375.8	375.8
113.7	15849	-68.0	-77.1	26	0.01	235	16	381.9	382.0	381.9
107.0	16217	-69.5	-78.5	26	0.01	235	16	385.7	385.7	385.7
102.7	16459	-69.8	-78.8	26	0.01	245	13	389.5	389.6	389.5
102.0	16502	-69.9	-78.9	26	0.01	246	12	390.2	390.2	390.2
100.0	16620	-69.3	-78.3	26	0.01	250	11	393.6	393.6	393.6
98.2	16729	-69.5	-78.5	26	0.01	254	9	395.2	395.3	395.2
97.7	16760	-69.4	-78.4	26	0.01	255	9	396.0	396.0	396.0
76.7	18223	-65.3	-74.3	28	0.02	266	5	432.9	433.0	432.9
70.0	18790	-58.9	-68.9	26	0.05	270	4	458.0	458.4	458.0
60.3	19723	-59.9	-69.9	26	0.05	345	5	475.7	476.1	475.8
50.0	20900	-56.9	-67.9	24	0.08	80	7	508.9	509.5	509.0
46.8	21330	-56.0	-67.3	23	0.10	75	12	520.9	521.5	520.9
36.9	22850	-53.0	-65.2	21	0.16	105	17	565.2	566.4	565.2
30.5	24070	-50.5	-63.5	20	0.25	65	17	603.3	605.3	603.4
30.0	24180	-50.3	-63.3	20	0.26	65	17	606.9	609.0	607.0
28.2	24585	-49.1	-62.1	20	0.32	71	19	621.1	623.7	621.2
24.1	25600	-49.6	-62.6	20	0.35	85	23	647.6	650.6	647.8
23.7	25723	-49.7	-62.7	20	0.35	85	24	650.9	654.0	651.1
20.0	26840	-46.7	-60.7	19	0.54	80	29	692.5	697.4	692.7
18.3	27430	-44.2	-58.6	19	0.77	85	25	717.7	724.9	718.0
15.9	28383	-40.3	-55.3	19	1.33	85	26	760.3	773.3	760.9
11.9	30350	-42.5	-57.5	18	1.36	85	28	818.1	832.6	818.8
11.7	30470	-42.1	-57.2	18	1.44	85	28	823.7	839.2	824.5
10.7	31080	-39.9	-55.6	17	1.92	90	27	853.1	874.4	854.1
10.2	31401	-38.7	-54.7	17	2.24			869.0	894.1	870.2

## Station information and sounding indices

```

Station identifier: DRA
  Station number: 72387
    Observation time: 940703/0000
      Station latitude: 36.61
        Station longitude: -116.01
          Station elevation: 1009.0
            Showalter index: 0.99
              Lifted index: -0.18
                LIFT computed using virtual temperature: -0.81
                  SWEAT index: 169.43
                    K index: 17.50
                      Cross totals index: 9.70
                        Vertical totals index: 38.70
                          Totals totals index: 48.40
                            Convective Available Potential Energy: 425.64
                              CAPE using virtual temperature: 545.05
                                Convective Inhibition: -18.63
                                  CINS using virtual temperature: 0.00
                                    Equilibrium Level: 242.22
                                      Equilibrium Level using virtual temperature: 241.99

```



Level of Free Convection: 504.80  
LFCT using virtual temperature: 566.30  
Bulk Richardson Number: 43.92  
Bulk Richardson Number using CAPV: 56.25  
Temp [K] of the Lifted Condensation Level: 271.97  
Pres [hPa] of the Lifted Condensation Level: 566.30  
Mean mixed layer potential temperature: 319.96  
Mean mixed layer mixing ratio: 6.29  
1000 hPa to 500 hPa thickness: 5900.00  
Precipitable water [mm] for entire sounding: 13.73

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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