

72387 DRA Mercury Observations at 00Z 05 Jul 1989

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	42									
899.0	1009	38.8	8.8	16	7.96	200	18	321.6	347.6	323.1
897.0	1029	36.6	11.6	22	9.65	200	18	319.5	350.6	321.4
878.3	1219	34.5	9.5	22	8.54	205	21	319.3	346.8	320.9
850.0	1514	31.2	6.2	21	7.04	210	22	318.8	341.6	320.2
819.9	1828	28.4	3.9	21	6.23	205	20	319.1	339.4	320.3
791.7	2133	25.6	1.7	21	5.51	205	18	319.4	337.5	320.5
764.5	2438	22.9	-0.5	21	4.86	210	17	319.7	335.7	320.6
738.2	2743	20.2	-2.7	21	4.28	230	19	319.9	334.1	320.7
712.8	3048	17.4	-4.9	21	3.76	245	15	320.1	332.6	320.8
700.0	3206	16.0	-6.0	22	3.51	230	15	320.2	331.9	320.9
663.1	3657	12.3	-8.6	22	3.03	225	18	321.1	331.3	321.6
616.3	4267	7.4	-12.1	24	2.46	230	24	322.2	330.7	322.6
600.0	4491	5.6	-13.4	24	2.28	230	24	322.6	330.4	323.0
572.1	4876	3.6	-15.4	23	2.03	230	24	324.6	331.8	325.0
525.0	5572	0.0	-19.0	22	1.63	230	28	328.4	334.2	328.7
500.0	5960	-3.5	-21.5	23	1.38	230	30	328.7	333.7	329.0
491.3	6096	-4.7	-22.4	24	1.30	230	31	328.9	333.7	329.2
419.4	7315	-15.0	-30.6	25	0.71	230	33	330.9	333.6	331.0
403.1	7620	-17.6	-32.7	26	0.61	225	32	331.3	333.6	331.4
400.0	7680	-18.1	-33.1	26	0.59	225	33	331.4	333.7	331.5
355.4	8534	-24.6	-38.4	27	0.39	200	33	334.0	335.6	334.1
326.7	9144	-29.2	-42.1	28	0.29	205	37	335.8	337.0	335.9
300.0	9760	-33.9	-45.9	29	0.21	210	36	337.5	338.4	337.5
274.9	10363	-38.1	-49.4	30	0.15	220	32	339.9	340.6	339.9
265.0	10616	-39.9	-50.9	30	0.13	212	28	340.9	341.5	340.9
263.0	10668	-40.4				210	27	340.9		340.9
251.4	10972	-43.1				205	27	341.2		341.2
250.0	11010	-43.5				210	28	341.3		341.3
229.2	11582	-47.5				220	35	343.7		343.7
200.0	12480	-53.9				225	43	347.2		347.2
181.1	13106	-57.5				220	48	351.4		351.4
150.0	14290	-64.3				220	43	359.1		359.1
136.0	14884	-68.5				220	39	361.9		361.9
128.1	15240	-69.8				220	37	365.9		365.9
109.0	16198	-73.1				190	23	376.8		376.8
104.3	16459	-70.7				180	20	386.3		386.3
100.0	16710	-68.3				185	19	395.5		395.5
94.2	17068	-68.2				185	17	402.6		402.6
91.0	17276	-68.1				199	14	406.7		406.7
89.5	17373	-68.7				205	12	407.4		407.4
87.0	17545	-69.7				193	12	408.7		408.7
80.0	18051	-64.1				156	12	430.2		430.2
73.5	18592	-62.8				120	12	443.6		443.6
63.7	19507	-60.5				135	14	467.1		467.1
57.9	20116	-58.9				110	15	483.4		483.4
47.9	21336	-55.9				100	10	517.8		517.8
27.0	24993	-46.7				90	29	635.5		635.5
25.0	25485	-45.5				95	27	653.1		653.1
21.4	26517	-46.1				105	22	681.0		681.0
19.0	27310	-46.5				75	28	703.3		703.3
18.7	27432	-46.1				70	29	708.2		708.2
16.5	28252	-43.5				86	31	741.9		741.9

14.9	28956	-37.5	100	33	783.9	783.9
14.0	29380	-33.9			810.1	810.1
11.0	31068	-33.9			867.9	867.9

Station information and sounding indices

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Station identifier: DRA
Station number: 72387
Observation time: 890705/0000
Station latitude: 36.61
Station longitude: -116.01
Station elevation: 1009.0
Showalter index: 2.73
Lifted index: 1.03
LIFT computed using virtual temperature: 0.36
SWEAT index: 216.16
K index: 18.90
Cross totals index: 9.70
Vertical totals index: 34.70
Totals totals index: 44.40
Convective Available Potential Energy: 511.10
CAPE using virtual temperature: 573.13
Convective Inhibition: -229.14
CINS using virtual temperature: -119.26
Equilibrium Level: 217.64
Equilibrium Level using virtual temperature: 217.51
Level of Free Convection: 473.90
LFCT using virtual temperature: 488.96
Bulk Richardson Number: 83.13
Bulk Richardson Number using CAPV: 93.22
Temp [K] of the Lifted Condensation Level: 276.83
Pres [hPa] of the Lifted Condensation Level: 607.27
Mean mixed layer potential temperature: 319.24
Mean mixed layer mixing ratio: 8.34
1000 hPa to 500 hPa thickness: 5918.00
Precipitable water [mm] for entire sounding: 18.31

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72387 DRA Mercury Observations at 12Z 05 Jul 1989

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	64									
901.0	1009	21.0	-6.0	16	2.72	130	5	303.0	311.7	303.5
891.0	1106	28.4	-1.6	14	3.83	153	5	311.7	324.1	312.4
883.0	1185	29.0	-1.0	14	4.04	172	5	313.1	326.2	313.9
879.6	1219	28.9	-1.1	14	4.04	180	5	313.4	326.5	314.1
852.0	1499	28.4	-1.6	14	4.01	231	8	315.7	328.8	316.4
850.0	1520	28.4	-1.6	14	4.02	235	8	315.9	329.1	316.6
820.4	1828	26.1	-3.9	14	3.50	290	9	316.6	328.2	317.3
792.0	2133	23.7	-6.3	13	3.04	305	10	317.4	327.5	317.9
764.6	2438	21.4	-8.6	13	2.63	300	10	318.1	326.9	318.6
738.2	2743	19.1	-10.9	12	2.27	295	10	318.7	326.5	319.2
700.0	3204	15.6	-14.4	11	1.80	295	6	319.7	326.0	320.1
662.2	3657	12.2	-17.8	11	1.43	360	2	321.0	326.1	321.3
614.5	4267	7.7	-22.3	10	1.04	170	3	322.7	326.5	322.9
570.3	4876	3.1	-26.9	9	0.75	270	16	324.4	327.1	324.5

509.8	5791	-3.7	-33.7	8	0.44	220	18	326.6	328.3	326.7
500.0	5950	-4.9	-34.9	7	0.40	210	21	327.0	328.5	327.1
490.5	6096	-6.1	-36.1	7	0.36	210	22	327.3	328.7	327.4
435.1	7010	-13.9	-43.9	6	0.18	195	22	328.9	329.6	328.9
401.6	7620	-19.1	-49.0	5	0.11	205	22	329.8	330.2	329.8
400.0	7650	-19.3	-49.3	5	0.11	205	22	329.8	330.3	329.8
339.3	8839	-28.4	-58.5	4	0.04	210	38	333.2	333.4	333.2
325.3	9144	-30.8	-60.8	4	0.03	210	36	334.0	334.2	334.0
300.0	9730	-35.3	-65.3	3	0.02	220	31	335.5	335.6	335.5
299.0	9753	-35.5	-65.5	3	0.02	220	30	335.6	335.7	335.6
273.0	10377	-39.9	-69.9	3	0.01	213	29	338.0	338.1	338.0
261.5	10668	-41.9				210	29	339.3		339.3
250.0	10970	-43.9				210	30	340.7		340.7
249.9	10972	-43.9				210	30	340.7		340.7
200.0	12440	-53.1				220	43	348.5		348.5
150.0	14240	-65.5				230	41	357.1		357.1
147.9	14325	-66.0				230	41	357.7		357.7
126.9	15240	-71.2				220	35	364.2		364.2
118.0	15676	-73.7				220	29	367.3		367.3
114.6	15849	-73.7				220	29	370.4		370.4
109.0	16142	-73.7				227	20	375.7		375.7
103.3	16459	-72.2				235	10	384.4		384.4
100.0	16650	-71.3				235	8	389.7		389.7
88.6	17373	-67.7				130	11	410.7		410.7
87.0	17483	-67.1				131	11	414.0		414.0
83.0	17767	-67.3				133	10	419.2		419.2
75.0	18385	-63.1				137	7	440.3		440.3
70.0	18810	-63.1				140	6	449.1		449.1
66.0	19172	-63.7				124	10	455.4		455.4
59.5	19812	-61.4				95	16	474.1		474.1
50.0	20900	-57.5				105	19	507.5		507.5
48.0	21159	-55.5				105	17	518.3		518.3
46.7	21336	-55.1				105	15	523.4		523.4
42.5	21945	-53.5				80	18	541.4		541.4
36.9	22860	-51.3				80	24	569.7		569.7
36.0	23014	-50.9				90	22	574.5		574.5
35.2	23164	-51.0				100	20	578.2		578.2
30.0	24200	-51.3				95	22	604.2		604.2
27.0	24886	-50.3				85	25	625.5		625.5
24.2	25603	-46.6				75	28	655.8		655.8
23.0	25944	-44.9						670.6		670.6

Station information and sounding indices

Station identifier: DRA
 Station number: 72387
 Observation time: 890705/1200
 Station latitude: 36.61
 Station longitude: -116.01
 Station elevation: 1009.0
 Showalter index: 6.87
 Lifted index: 8.84
 LIFT computed using virtual temperature: 8.48
 SWEAT index: 37.00
 K index: 1.70
 Cross totals index: 3.30
 Vertical totals index: 33.30
 Totals totals index: 36.60
 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: 265.49
 Pres [hPa] of the Lifted Condensation Level: 564.25
 Mean mixed layer potential temperature: 312.67
 Mean mixed layer mixing ratio: 3.86
 1000 hPa to 500 hPa thickness: 5886.00
 Precipitable water [mm] for entire sounding: 8.67

72387 DRA Mercury Observations at 00Z 06 Jul 1989

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									
900.0	1009	40.6				240	12	323.3		323.3
899.0	1019	37.6				241	12	320.4		320.4
879.5	1219	35.5				255	12	320.2		320.2
850.0	1530	32.2				255	13	319.9		319.9
821.6	1828	29.5				245	9	320.1		320.1
793.5	2133	26.7				230	11	320.3		320.3
766.3	2438	23.9				230	7	320.5		320.5
740.1	2743	21.1				245	7	320.6		320.6
700.0	3231	16.6				245	8	320.8		320.8
664.4	3657	13.2				225	8	321.8		321.8
616.6	4267	8.3				210	10	323.2		323.2
572.3	4876	3.5				200	6	324.5		324.5
500.0	5980	-5.3				220	7	326.5		326.5
492.5	6096	-6.1				210	9	326.9		326.9
473.5	6400	-8.2				195	13	328.1		328.1
404.2	7620	-16.6				195	25	332.4		332.4
400.0	7700	-17.1				195	26	332.7		332.7
356.6	8534	-23.9				195	27	334.7		334.7
327.9	9144	-28.9				215	21	336.0		336.0
300.0	9790	-34.1				240	22	337.2		337.2
288.5	10058	-35.6				245	25	338.8		338.8
264.0	10668	-39.0				230	27	342.5		342.5
258.0	10827	-39.9				232	27	343.5		343.5
250.0	11040	-41.7				235	28	343.9		343.9
210.1	12192	-50.0				210	27	348.6		348.6
200.0	12520	-52.3				210	26	349.8		349.8
173.9	13411	-58.4				220	32	354.0		354.0
171.0	13517	-59.1				218	32	354.5		354.5
150.1	14325	-63.3				205	35	360.8		360.8
150.0	14330	-63.3				205	35	360.8		360.8
129.0	15240	-69.2				220	29	366.1		366.1
122.7	15544	-71.2				225	22	367.9		367.9
121.0	15628	-71.7				225	21	368.3		368.3
116.6	15849	-71.9				220	15	371.9		371.9
112.0	16085	-72.1				203	15	375.8		375.8
106.0	16413	-69.5				178	16	386.7		386.7
105.2	16459	-69.7				175	16	387.1		387.1
100.0	16760	-71.1				175	17	390.1		390.1
73.8	18592	-64.1				90	8	440.2		440.2
70.0	18910	-62.9						449.5		449.5

Station information and sounding indices

Station identifier: DRA
Station number: 72387
Observation time: 890706/0000
Station latitude: 36.61
Station longitude: -116.01
Station elevation: 1009.0

Vertical totals index: 37.50

Mean mixed layer potential temperature: 320.16

1000 hPa to 500 hPa thickness: 5923.00

Precipitable water [mm] for entire sounding: 0.00

72387 DRA Mercury Observations at 12Z 06 Jul 1989

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	65									
902.0	1009	22.6	-5.4	15	2.85	200	3	304.6	313.7	305.1
850.0	1530	28.8	-1.2	14	4.14			316.3	329.9	317.1
700.0	3219	16.4	-13.6	12	1.92			320.6	327.3	321.0
500.0	5960	-5.3	-35.3	7	0.38			326.5	328.0	326.6
400.0	7670	-18.5						330.9		330.9
300.0	9750	-34.3						336.9		336.9
250.0	11000	-43.3						341.6		341.6
200.0	12470	-53.3						348.2		348.2
150.0	14270	-66.1						356.0		356.0
122.0	15498	-72.7						365.6		365.6
100.0	16670	-69.7						392.8		392.8
70.0	18830	-63.9						447.3		447.3

Station information and sounding indices

Station identifier: DRA
Station number: 72387
Observation time: 890706/1200
Station latitude: 36.61
Station longitude: -116.01
Station elevation: 1009.0

Showalter index: 6.08

Lifted index: 10.52

LIFT computed using virtual temperature: 10.23

K index: 2.90

Cross totals index: 4.10

Vertical totals index: 34.10

Totals totals index: 38.20

Convective Available Potential Energy: 0.00

CAPE using virtual temperature: 0.00

Convective Inhibition: 0.00

CINS using virtual temperature: 0.00

Temp [K] of the Lifted Condensation Level: 264.10

Pres [hPa] of the Lifted Condensation Level: 569.80

Mean mixed layer potential temperature: 310.21

Mean mixed layer mixing ratio: 3.46

1000 hPa to 500 hPa thickness: 5895.00

Precipitable water [mm] for entire sounding: 8.84

72387 DRA Mercury Observations at 00Z 07 Jul 1989

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	52									
900.0	1009	42.2				230	8	325.0		325.0
879.6	1219	39.0				245	7	323.8		323.8
850.0	1533	34.2				245	6	322.0		322.0
822.0	1828	31.5				235	8	322.2		322.2
794.0	2133	28.6				230	6	322.4		322.4
767.0	2438	25.8				220	7	322.5		322.5
740.8	2743	23.0				225	4	322.7		322.7
700.0	3242	18.4				205	3	322.8		322.8
665.4	3657	14.9				185	7	323.6		323.6
617.7	4267	9.7				195	7	324.6		324.6
573.5	4876	4.5				220	14	325.4		325.4
532.4	5486	-0.7				195	20	326.2		326.2
500.0	6000	-5.1				195	21	326.8		326.8
493.8	6096	-5.9				200	21	326.9		326.9
438.3	7010	-13.8				190	19	328.2		328.2
421.2	7315	-16.5				155	11	328.6		328.6
404.7	7620	-19.1				160	10	328.9		328.9
400.0	7710	-19.9				165	10	329.0		329.0
388.3	7924	-21.4				175	10	329.8		329.8
342.2	8839	-27.9				135	14	333.1		333.1
328.0	9144	-30.1				140	14	334.2		334.2
300.0	9790	-34.7				145	17	336.4		336.4
263.9	10668	-40.0				160	21	341.1		341.1
250.0	11040	-42.3				155	16	343.0		343.0
210.1	12192	-50.5				170	20	347.6		347.6
200.0	12520	-52.9				165	20	348.8		348.8
191.2	12801	-54.6				150	14	350.5		350.5
165.2	13716	-60.3				150	24	356.0		356.0
150.0	14320	-64.1				155	24	359.5		359.5
128.6	15240	-68.2				160	16	368.3		368.3
122.2	15544	-69.5				165	14	371.2		371.2
104.9	16459	-73.6				130	11	380.0		380.0
103.0	16567	-74.1				135	9	381.1		381.1
100.0	16740	-72.3				130	11	387.8		387.8
70.0	18900	-64.5				155	9	446.1		446.1

Station information and sounding indices

Station identifier: DRA

Station number: 72387

Observation time: 890707/0000

Station latitude: 36.61

Station longitude: -116.01

Station elevation: 1009.0

Vertical totals index: 39.30

Mean mixed layer potential temperature: 323.56

1000 hPa to 500 hPa thickness: 5948.00

Precipitable water [mm] for entire sounding: 0.00

72387 DRA Mercury Observations at 12Z 07 Jul 1989

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	56									
902.0	1009	30.8	-13.2	5	1.54	50	9	313.0	318.3	313.3
881.0	1219	30.5	-8.0	8	2.40	25	17	314.8	322.9	315.3
850.0	1537	30.0	0.0	14	4.52	15	17	317.6	332.4	318.4
822.2	1828	28.0	-2.0	14	4.03	360	9	318.4	331.8	319.2
794.1	2133	25.9	-4.1	14	3.56	325	6	319.4	331.3	320.1
766.9	2438	23.8	-6.2	13	3.14	295	7	320.3	330.9	320.9
740.6	2743	21.6	-8.4	13	2.76	280	5	321.2	330.6	321.7
700.0	3237	18.2	-11.8	12	2.22	180	4	322.6	330.3	323.0
665.0	3657	14.4	-12.8	14	2.15	185	6	323.1	330.6	323.5
617.2	4267	8.9	-14.4	18	2.04	215	9	323.7	330.9	324.1
594.6	4572	6.1	-15.2	20	1.99	210	11	324.0	331.0	324.4
572.9	4876	3.4	-15.9	23	1.94	205	14	324.2	331.1	324.6
500.0	5990	-6.7	-18.7	38	1.76	155	18	324.8	331.0	325.1
493.1	6096	-7.6	-19.5	38	1.66	150	19	325.0	330.9	325.3
473.8	6400	-10.3	-21.8	38	1.42	150	19	325.4	330.5	325.7
403.7	7620	-20.9	-31.0	40	0.72	165	23	326.9	329.6	327.0
400.0	7690	-21.5	-31.5	40	0.69	165	24	327.0	329.6	327.1
355.5	8534	-27.2	-35.6	45	0.52	175	30	330.4	332.5	330.6
326.5	9144	-31.4	-38.6	49	0.42	180	16	332.9	334.5	333.0
300.0	9750	-35.5	-41.5	54	0.34	210	16	335.2	336.6	335.3
299.9	9753	-35.5				210	16	335.2		335.2
274.3	10363	-40.5				195	17	336.7		336.7
262.4	10668	-43.0				200	14	337.3		337.3
251.0	10972	-45.5				210	13	337.9		337.9
250.0	11000	-45.7				205	13	338.0		338.0
200.0	12450	-55.1				165	20	345.4		345.4
198.5	12496	-55.4				165	21	345.7		345.7
171.4	13411	-60.7				175	17	351.7		351.7
155.4	14020	-64.2				145	15	355.6		355.6
150.0	14240	-65.5				155	16	357.1		357.1
133.6	14935	-68.4				180	17	363.9		363.9
126.9	15240	-69.7				175	19	366.9		366.9
114.6	15849	-72.3				175	19	372.9		372.9
112.0	15989	-72.9				180	19	374.3		374.3
103.5	16459	-70.7				215	12	387.2		387.2
100.0	16660	-69.7				240	10	392.8		392.8
70.0	18820	-63.3				115	15	448.6		448.6
50.0	20920	-58.1				85	13	506.1		506.1
30.0	24220	-49.9				75	24	608.0		608.0
20.0	26900	-43.5				80	32	702.2		702.2
10.0	31620	-35.3				70	27	886.6		886.6

Station information and sounding indices

Station identifier: DRA
Station number: 72387
Observation time: 890707/1200
Station latitude: 36.61
Station longitude: -116.01
Station elevation: 1009.0
Showalter index: 3.49

Lifted index: 7.72
 LIFT computed using virtual temperature: 7.60
 SWEAT index: 52.00
 K index: 6.70
 Cross totals index: 6.70
 Vertical totals index: 36.70
 Totals totals index: 43.40
 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: 259.14
 Pres [hPa] of the Lifted Condensation Level: 504.20
 Mean mixed layer potential temperature: 315.16
 Mean mixed layer mixing ratio: 2.75
 1000 hPa to 500 hPa thickness: 5934.00
 Precipitable water [mm] for entire sounding: 12.37

72387 DRA Mercury Observations at 00Z 08 Jul 1989

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									
901.0	1009	43.0				260	8	325.7		325.7
850.0	1541	35.0				255	8	322.8		322.8
700.0	3254	19.0				245	5	323.5		323.5
500.0	6020	-5.9				150	10	325.8		325.8
400.0	7710	-20.1				155	15	328.8		328.8
300.0	9790	-35.3				160	16	335.5		335.5
250.0	11030	-44.5				160	16	339.8		339.8
200.0	12500	-53.1				175	32	348.5		348.5
150.0	14300	-64.1				185	23	359.5		359.5
110.0	16165	-71.9				210	9	378.1		378.1
100.0	16730	-70.3				170	9	391.6		391.6
70.0	18900	-61.1				120	6	453.3		453.3
50.0	21000	-55.7				95	16	511.8		511.8
30.0	24300	-50.9				95	28	605.3		605.3
20.0	26980	-44.5				75	25	699.2		699.2

Station information and sounding indices

Station identifier: DRA
 Station number: 72387
 Observation time: 890708/0000
 Station latitude: 36.61
 Station longitude: -116.01
 Station elevation: 1009.0
 Vertical totals index: 40.90
 Mean mixed layer potential temperature: 324.34
 1000 hPa to 500 hPa thickness: 5975.00
 Precipitable water [mm] for entire sounding: 0.00

72387 DRA Mercury Observations at 12Z 08 Jul 1989

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	55									
901.0	1009	24.4	0.4	21	4.39	30	8	306.6	320.4	307.4
879.9	1219	26.4	-0.1	18	4.34	285	6	310.6	324.6	311.5
850.2	1524	29.2	-0.8	14	4.26	210	13	316.7	330.7	317.5
850.0	1526	29.2	-0.8	14	4.26	215	13	316.7	330.7	317.5
821.1	1828	27.2	-2.8	14	3.80	200	17	317.7	330.3	318.4
792.9	2133	25.1	-4.9	13	3.37	205	16	318.7	330.0	319.4
765.6	2438	23.1	-6.9	13	2.98	210	12	319.7	329.8	320.3
739.3	2743	21.0	-9.0	12	2.63	225	7	320.7	329.7	321.2
700.0	3220	17.8	-12.2	12	2.15	235	8	322.2	329.6	322.6
663.6	3657	13.8	-13.0	14	2.12	235	4	322.6	330.0	323.0
615.8	4267	8.2	-14.2	19	2.08	135	5	323.1	330.4	323.5
571.6	4876	2.6	-15.4	25	2.03	115	7	323.5	330.6	323.9
500.0	5970	-7.5	-17.5	45	1.95	105	5	323.8	330.7	324.2
491.8	6096	-8.5	-17.9	46	1.91	105	5	324.2	330.9	324.6
402.1	7620	-20.2	-23.1	78	1.49	120	12	328.2	333.6	328.5
400.0	7660	-20.5	-23.2	79	1.48	120	12	328.3	333.6	328.6
369.4	8229	-25.0	-28.6	72	0.98	145	12	329.9	333.5	330.1
325.1	9144	-32.2	-37.2	61	0.48	155	19	332.2	334.1	332.3
300.0	9720	-36.7	-42.7	54	0.30	160	28	333.5	334.7	333.6
285.5	10058	-38.9				165	29	335.1		335.1
261.0	10668	-43.0				175	25	337.9		337.9
250.0	10960	-44.9				170	24	339.2		339.2
207.1	12192	-53.7				185	21	344.2		344.2
200.0	12420	-55.3				190	18	345.0		345.0
188.2	12801	-57.1				205	12	348.2		348.2
162.6	13716	-61.5				155	15	355.7		355.7
150.0	14220	-63.9				165	22	359.8		359.8
129.0	15136	-68.5				180	20	367.4		367.4
126.8	15240	-68.6				185	19	369.1		369.1
120.5	15544	-68.8				195	14	374.0		374.0
103.4	16459	-69.5				245	14	389.4		389.4
100.0	16660	-69.7				255	13	392.8		392.8
98.3	16764	-69.4				270	12	395.3		395.3
70.0	18800	-63.9				110	14	447.3		447.3
68.9	18897	-63.6				110	14	449.9		449.9
62.5	19507	-61.8				130	11	466.7		466.7
51.4	20726	-58.2				65	15	501.9		501.9
50.0	20900	-57.7				65	15	507.1		507.1
46.7	21336	-56.9				80	20	518.9		518.9
44.6	21640	-56.4				95	20	527.3		527.3
36.9	22860	-54.1				75	23	562.5		562.5
30.0	24180	-51.7				85	28	603.1		603.1
26.5	24993	-49.8				85	28	630.1		630.1
25.3	25298	-49.1				70	27	640.5		640.5
20.0	26850	-45.5				100	34	696.1		696.1

Station information and sounding indices

Station identifier: DRA
 Station number: 72387
 Observation time: 890708/1200
 Station latitude: 36.61
 Station longitude: -116.01
 Station elevation: 1009.0
 Showalter index: 3.48

Lifted index: 6.15
 LIFT computed using virtual temperature: 6.04
 SWEAT index: 30.98
 K index: 5.90
 Cross totals index: 6.70
 Vertical totals index: 36.70
 Totals totals index: 43.40
 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: 267.58
 Pres [hPa] of the Lifted Condensation Level: 588.27
 Mean mixed layer potential temperature: 311.42
 Mean mixed layer mixing ratio: 4.33
 1000 hPa to 500 hPa thickness: 5915.00
 Precipitable water [mm] for entire sounding: 13.83

72387 DRA Mercury Observations at 00Z 09 Jul 1989

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									
898.0	1009	40.6	1.6	9	4.81	240	10	323.5	339.7	324.5
891.0	1081	37.6	7.6	16	7.40	242	11	321.2	345.3	322.6
877.5	1219	36.1	6.1	16	6.78	245	12	321.0	343.2	322.3
850.0	1508	33.0	3.0	15	5.62	245	13	320.7	339.2	321.8
819.5	1828	29.9	-0.1	14	4.67	235	13	320.8	336.4	321.8
791.4	2133	27.0	-3.0	14	3.90	225	11	320.9	334.0	321.7
764.4	2438	24.1	-5.9	13	3.24	225	12	321.0	332.0	321.6
738.2	2743	21.2	-8.8	13	2.68	225	10	321.1	330.2	321.6
700.0	3208	16.8	-13.2	12	1.99	235	9	321.1	328.0	321.4
663.0	3657	12.8	-12.2	16	2.27	265	6	321.6	329.5	322.1
615.7	4267	7.5	-10.9	26	2.71	220	7	322.3	331.6	322.8
572.0	4876	2.1	-9.6	42	3.24	180	16	322.9	333.9	323.5
555.0	5125	-0.1	-9.1	51	3.48	180	19	323.1	334.9	323.8
510.1	5791	-5.6	-16.2	43	2.13	180	28	324.3	331.7	324.7
500.0	5950	-6.9	-17.9	41	1.88	180	27	324.6	331.2	324.9
490.7	6096	-8.2	-18.5	43	1.82	180	27	324.7	331.1	325.1
475.0	6347	-10.5	-19.5	48	1.73	177	25	324.9	331.0	325.2
468.0	6461	-11.1	-29.1	21	0.74	176	23	325.5	328.3	325.7
464.0	6527	-11.5	-19.5	52	1.77	175	23	325.8	332.1	326.2
458.0	6627	-11.9	-23.9	36	1.22	174	22	326.6	331.0	326.8
435.5	7010	-14.6	-21.2	57	1.63	170	18	327.9	333.7	328.2
433.0	7054	-14.9	-20.9	60	1.68	171	18	328.0	334.1	328.4
401.6	7620	-17.9	-26.8	46	1.07	185	17	331.2	335.2	331.4
400.0	7650	-18.1	-27.1	45	1.04	185	17	331.4	335.3	331.6
369.2	8229	-22.7	-37.5	25	0.41	190	15	333.0	334.6	333.1
325.3	9144	-29.9	-54.0	8	0.08	160	21	335.3	335.6	335.3
311.9	9448	-32.3	-59.4	5	0.04	155	22	336.0	336.2	336.0
300.0	9730	-34.5	-64.5	3	0.02	155	28	336.6	336.7	336.6
272.0	10408	-39.9	-53.9	21	0.09	162	24	338.4	338.8	338.4
261.8	10668	-41.8				165	22	339.3		339.3
250.0	10980	-44.1				175	23	340.4		340.4
228.0	11582	-48.6				185	26	342.5		342.5

217.6	11887	-50.9	180	16	343.6	343.6
207.7	12192	-53.2	150	12	344.6	344.6
200.0	12440	-55.1	145	11	345.4	345.4
183.0	13002	-59.1	153	17	347.7	347.7
180.0	13106	-59.3	155	18	349.1	349.1
150.0	14240	-61.5	190	26	363.9	363.9
147.9	14325	-61.9	190	26	364.7	364.7
127.4	15240	-66.2	200	19	372.9	372.9
121.2	15544	-67.6	205	13	375.7	375.7
119.0	15655	-68.1	205	13	376.7	376.7
108.0	16237	-68.9	172	9	385.8	385.8
104.1	16459	-68.3	160	7	390.9	390.9
100.0	16700	-67.7	165	10	396.7	396.7
91.0	17268	-68.3	195	13	406.3	406.3
89.4	17373	-67.5	200	14	409.9	409.9
84.0	17753	-64.7	172	13	423.0	423.0
77.0	18284	-65.5	133	12	432.0	432.0
70.0	18870	-61.7	90	10	452.0	452.0
69.7	18897	-61.6	95	11	452.7	452.7
54.6	20421	-58.0	95	11	493.8	493.8
50.0	20970	-56.7	75	12	509.4	509.4
47.2	21336	-56.0	75	12	519.4	519.4
45.1	21640	-55.4	70	13	527.9	527.9
35.6	23164	-52.6	95	20	572.2	572.2
30.9	24079	-50.8	80	22	600.6	600.6
30.0	24260	-50.5	85	24	606.4	606.4
27.0	24950	-47.7	93	28	632.8	632.8
24.5	25603	-46.7	100	31	653.6	653.6
23.4	25908	-46.3	85	26	663.6	663.6
20.0	26940	-44.7	85	24	698.6	698.6
18.6	27432	-44.1	95	24	715.0	715.0
14.5	29102	-42.3	87	26	773.8	773.8
13.5	29565	-42.4	85	26	788.7	788.7
13.0	29839	-42.5			797.7	797.7

Station information and sounding indices

Station identifier: DRA
 Station number: 72387
 Observation time: 890709/0000
 Station latitude: 36.61
 Station longitude: -116.01
 Station elevation: 1009.0
 Showalter index: 0.32
 Lifted index: -0.86
 LIFT computed using virtual temperature: -1.35
 SWEAT index: 104.99
 K index: 12.90
 Cross totals index: 9.90
 Vertical totals index: 39.90
 Totals totals index: 49.80
 Convective Available Potential Energy: 300.55
 CAPE using virtual temperature: 387.59
 Convective Inhibition: -71.40
 CINS using virtual temperature: -31.85
 Equilibrium Level: 245.73
 Equilibrium Level using virtual temperature: 245.76
 Level of Free Convection: 520.58
 LFCT using virtual temperature: 532.18
 Bulk Richardson Number: 33.49

Bulk Richardson Number using CAPV: 43.19

Temp [K] of the Lifted Condensation Level: 272.08

Pres [hPa] of the Lifted Condensation Level: 559.79

Mean mixed layer potential temperature: 321.15

Mean mixed layer mixing ratio: 6.43

1000 hPa to 500 hPa thickness: 5922.00

Precipitable water [mm] for entire sounding: 15.94

72387 DRA Mercury Observations at 12Z 09 Jul 1989

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	16									
897.0	1009	27.2	4.2	23	5.79	340	5	309.8	328.1	310.9
890.0	1079	28.6	3.6	20	5.60	333	6	312.0	329.8	313.0
876.0	1219	28.0	1.3	18	4.81	320	9	312.7	328.2	313.6
850.0	1487	26.8	-3.2	14	3.57	325	7	314.2	325.9	314.9
817.6	1828	24.9	-5.1	13	3.22	260	3	315.7	326.4	316.4
812.0	1888	24.6	-5.4	13	3.16	252	3	316.0	326.5	316.6
789.3	2133	22.2	-4.4	17	3.52	220	5	316.0	327.6	316.7
762.0	2438	19.2	-3.1	22	4.02	205	5	315.9	329.1	316.7
748.0	2598	17.6	-2.4	25	4.31	197	8	315.9	330.0	316.7
735.3	2743	16.8	-3.0	26	4.20	190	11	316.6	330.3	317.4
700.0	3161	14.4	-4.6	27	3.90	210	7	318.4	331.3	319.1
658.8	3657	9.9	-5.7	33	3.81	255	5	318.9	331.6	319.7
611.3	4267	4.4	-7.1	43	3.69	255	6	319.5	331.8	320.2
567.4	4876	-1.1	-8.5	57	3.57	240	10	319.9	331.9	320.6
546.6	5181	-3.8	-9.2	66	3.51	230	15	320.1	331.8	320.8
543.0	5235	-4.3	-9.3	68	3.50	229	15	320.1	331.8	320.8
503.0	5834	-8.3	-26.3	22	0.89	221	15	322.3	325.6	322.5
500.0	5880	-8.7	-22.7	31	1.24	220	15	322.4	326.8	322.6
485.9	6096	-10.2	-26.2	26	0.93	215	13	323.2	326.6	323.4
448.4	6705	-14.3	-36.1	14	0.39	210	11	325.6	327.1	325.6
400.0	7570	-20.1	-50.1	5	0.10	175	17	328.8	329.2	328.8
397.2	7620	-20.5	-50.0	5	0.10	175	17	329.0	329.4	329.0
321.9	9144	-31.5	-47.3	20	0.17	205	33	334.1	334.8	334.2
318.0	9231	-32.1	-47.1	21	0.17	204	33	334.4	335.1	334.4
300.0	9640	-35.7	-41.7	54	0.33	200	35	334.9	336.3	335.0
276.0	10214	-39.9	-43.6	68	0.29	192	39	336.9	338.1	337.0
258.0	10668	-44.0				185	42	337.5		337.5
250.0	10880	-45.9				185	45	337.7		337.7
224.4	11582	-52.0				190	51	338.9		338.9
200.0	12330	-58.5				190	42	340.0		340.0
194.8	12496	-59.8				190	41	340.6		340.6
186.0	12783	-61.9				205	45	341.6		341.6
185.5	12801	-61.9				210	47	341.9		341.9
160.1	13716	-60.8				250	26	358.4		358.4
152.4	14020	-60.4				240	17	364.1		364.1
150.0	14120	-60.3				215	15	366.0		366.0
145.1	14325	-61.9				175	16	366.8		366.8
138.0	14630	-64.2				175	20	367.9		367.9
127.0	15138	-68.1				192	23	369.8		369.8
124.8	15240	-68.3				195	24	371.1		371.1
112.7	15849	-69.8				215	28	379.4		379.4
112.0	15888	-69.9				217	27	379.9		379.9
101.9	16459	-66.0				250	6	397.8		397.8
100.0	16570	-65.3				260	5	401.3		401.3

86.0	17477	-69.9	332	7	409.7	409.7
70.0	18720	-63.9	70	10	447.3	447.3
68.0	18897	-62.9	75	11	453.1	453.1
61.7	19507	-59.5	120	15	473.6	473.6
61.0	19574	-59.1	116	15	475.9	475.9
58.7	19812	-59.2	100	15	480.8	480.8
50.0	20820	-59.9	120	12	501.9	501.9
48.4	21031	-59.1	125	11	508.5	508.5
46.1	21336	-58.0	120	10	518.1	518.1
44.0	21640	-56.9	75	15	527.9	527.9
38.1	22555	-53.6	70	27	558.5	558.5
36.0	22915	-52.3	82	25	570.9	570.9
33.1	23469	-51.8	100	23	586.2	586.2
30.0	24100	-51.3	90	23	604.2	604.2
26.1	24993	-51.5	80	27	627.9	627.9
26.0	25029	-51.5	80	27	628.8	628.8
20.0	26750	-46.7	90	29	692.5	692.5
18.9	27127	-45.5	95	29	707.4	707.4
18.1	27432	-44.5	95	28	719.8	719.8
16.5	28041	-42.5	85	23	745.0	745.0
16.0	28245	-41.9			753.7	753.7
11.0	30787	-40.9			842.5	842.5

Station information and sounding indices

Station identifier: DRA
 Station number: 72387
 Observation time: 890709/1200
 Station latitude: 36.61
 Station longitude: -116.01
 Station elevation: 1009.0

Showalter index: 4.64
 Lifted index: 3.78

LIFT computed using virtual temperature: 3.52
 SWEAT index: 28.98
 K index: 13.30

Cross totals index: 5.50
 Vertical totals index: 35.50
 Totals totals index: 41.00

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: 268.29

Pres [hPa] of the Lifted Condensation Level: 584.33

Mean mixed layer potential temperature: 312.82

Mean mixed layer mixing ratio: 4.66

1000 hPa to 500 hPa thickness: 5864.00

Precipitable water [mm] for entire sounding: 15.62

72387 DRA Mercury Observations at 00Z 10 Jul 1989

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K

1000.0	-16									
894.0	1009	37.0	4.0	13	5.73	200	16	320.2	339.1	321.4
887.0	1080	33.8	3.8	15	5.70	202	17	317.6	336.2	318.7
850.0	1458	30.4	0.4	14	4.66	215	21	318.0	333.3	318.9
755.0	2498	20.6	-2.4	21	4.27	209	17	318.3	332.4	319.1
700.0	3144	14.4	-3.6	29	4.21	205	14	318.4	332.3	319.2
546.0	5180	-3.7	-8.7	68	3.65	212	15	320.3	332.5	321.0
541.0	5253	-4.1	-12.1	54	2.81	213	16	320.7	330.2	321.2
512.0	5685	-7.9	-15.9	53	2.17	214	16	321.2	328.7	321.6
505.0	5793	-8.3	-26.3	22	0.89	215	16	321.9	325.2	322.1
500.0	5870	-8.7	-38.7	7	0.27	215	16	322.4	323.4	322.4
486.0	6089	-9.1	-39.1	7	0.27	216	16	324.5	325.6	324.6
400.0	7560	-19.7	-35.7	23	0.46	225	17	329.3	331.1	329.4
374.0	8055	-23.7	-31.7	48	0.72	220	20	330.4	333.1	330.5
300.0	9630	-34.5	-47.5	26	0.18	205	29	336.6	337.4	336.7
283.0	10036	-37.5	-43.5	53	0.29	202	33	338.0	339.2	338.1
270.0	10359	-39.9	-44.7	60	0.27	199	35	339.1	340.2	339.1
250.0	10880	-44.5				195	40	339.8		339.8
222.0	11666	-51.5				206	31	340.7		340.7
200.0	12340	-54.7				215	24	346.0		346.0
150.0	14140	-63.7				215	24	360.1		360.1
124.0	15300	-67.5				225	21	373.4		373.4
104.0	16362	-67.5				196	19	392.6		392.6
100.0	16600	-66.1				190	19	399.8		399.8
97.0	16786	-64.9				190	18	405.6		405.6
92.0	17109	-66.1				189	16	409.4		409.4
89.0	17312	-63.9				188	15	417.7		417.7
78.0	18121	-65.1				187	11	431.2		431.2
70.0	18790	-60.3				185	7	455.0		455.0
66.0	19157	-58.1				168	9	467.5		467.5
55.0	20300	-58.5				117	14	491.6		491.6
50.0	20900	-56.3				90	17	510.4		510.4
42.0	22016	-52.5				90	20	545.8		545.8
30.0	24200	-50.3				90	25	606.9		606.9
27.0	24889	-49.5						627.7		627.7

Station information and sounding indices

```

Station identifier: DRA
Station number: 72387
Observation time: 890710/0000
Station latitude: 36.61
Station longitude: -116.01
Station elevation: 1009.0
Showalter index: 1.10
Lifted index: 0.36
LIFT computed using virtual temperature: -0.21
SWEAT index: 62.80
K index: 21.50
Cross totals index: 9.10
Vertical totals index: 39.10
Totals totals index: 48.20
Convective Available Potential Energy: 0.00
CAPE using virtual temperature: 1.72
Convective Inhibition: 0.00
CINS using virtual temperature: -90.86
Equilibrium Level using virtual temperature: 497.83
LFCT using virtual temperature: 517.58
Bulk Richardson Number: 0.00
Bulk Richardson Number using CAPV: 2.20

```

Temp [K] of the Lifted Condensation Level: 269.25
Pres [hPa] of the Lifted Condensation Level: 558.64
Mean mixed layer potential temperature: 317.99
Mean mixed layer mixing ratio: 5.20
1000 hPa to 500 hPa thickness: 5886.00
Precipitable water [mm] for entire sounding: 17.20

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)
