

# 72489 REV Reno Observations at 12Z 24 Jul 2015

| PRES<br>hPa | HGHT<br>m | TEMP<br>C | DWPT<br>C | RELH<br>% | MIXR<br>g/kg | DRCT<br>deg | SKNT<br>knot | THTA<br>K | THTE<br>K | THTV<br>K |
|-------------|-----------|-----------|-----------|-----------|--------------|-------------|--------------|-----------|-----------|-----------|
| 1000.0      | 94        |           |           |           |              |             |              |           |           |           |
| 925.0       | 788       |           |           |           |              |             |              |           |           |           |
| 851.0       | 1516      | 16.4      | 1.4       | 36        | 5.00         | 0           | 0            | 303.2     | 318.6     | 304.1     |
| 850.0       | 1529      | 17.2      | 1.2       | 34        | 4.93         | 315         | 2            | 304.1     | 319.4     | 305.1     |
| 846.0       | 1569      | 17.2      | 1.2       | 34        | 4.96         | 300         | 2            | 304.6     | 319.9     | 305.5     |
| 834.0       | 1691      | 16.0      | 0.0       | 34        | 4.61         | 253         | 2            | 304.5     | 318.9     | 305.4     |
| 828.0       | 1752      | 16.8      | 0.8       | 34        | 4.92         | 230         | 2            | 306.0     | 321.4     | 306.9     |
| 820.5       | 1829      | 16.1      | 0.6       | 35        | 4.91         | 200         | 2            | 306.1     | 321.4     | 307.0     |
| 791.4       | 2134      | 13.4      | -0.1      | 40        | 4.84         | 250         | 4            | 306.4     | 321.5     | 307.3     |
| 785.0       | 2203      | 12.8      | -0.2      | 41        | 4.83         | 235         | 4            | 306.4     | 321.5     | 307.3     |
| 771.0       | 2354      | 12.8      | -2.2      | 35        | 4.24         | 203         | 5            | 308.0     | 321.4     | 308.8     |
| 763.3       | 2438      | 12.3      | -2.4      | 36        | 4.22         | 185         | 5            | 308.3     | 321.7     | 309.1     |
| 748.0       | 2607      | 11.2      | -2.8      | 37        | 4.18         | 204         | 7            | 308.9     | 322.3     | 309.7     |
| 735.8       | 2743      | 10.0      | -3.2      | 39        | 4.11         | 220         | 9            | 309.1     | 322.2     | 309.9     |
| 700.0       | 3156      | 6.4       | -4.6      | 45        | 3.90         | 200         | 18           | 309.5     | 322.0     | 310.3     |
| 686.0       | 3321      | 5.0       | -4.0      | 52        | 4.17         | 187         | 23           | 309.8     | 323.1     | 310.6     |
| 683.3       | 3353      | 4.8       | -4.0      | 53        | 4.18         | 185         | 24           | 309.9     | 323.2     | 310.6     |
| 657.9       | 3658      | 2.5       | -4.2      | 61        | 4.29         | 160         | 18           | 310.7     | 324.4     | 311.5     |
| 633.5       | 3962      | 0.3       | -4.3      | 71        | 4.41         | 130         | 17           | 311.6     | 325.7     | 312.4     |
| 610.0       | 4267      | -1.9      | -4.5      | 83        | 4.53         | 160         | 24           | 312.4     | 326.9     | 313.2     |
| 604.0       | 4346      | -2.5      | -4.5      | 86        | 4.56         | 162         | 25           | 312.6     | 327.2     | 313.4     |
| 579.0       | 4680      | -5.1      | -6.9      | 87        | 3.96         | 170         | 27           | 313.3     | 326.2     | 314.1     |
| 564.6       | 4877      | -6.5      | -9.3      | 80        | 3.36         | 175         | 28           | 313.9     | 324.9     | 314.6     |
| 559.0       | 4955      | -7.1      | -10.3     | 78        | 3.14         | 181         | 27           | 314.1     | 324.5     | 314.7     |
| 551.0       | 5068      | -7.5      | -13.5     | 62        | 2.46         | 191         | 27           | 315.0     | 323.2     | 315.4     |
| 543.0       | 5182      | -7.5      | -27.8     | 18        | 0.72         | 200         | 26           | 316.3     | 318.9     | 316.4     |
| 542.0       | 5196      | -7.5      | -29.5     | 15        | 0.62         | 200         | 26           | 316.4     | 318.7     | 316.6     |
| 513.0       | 5622      | -8.9      | -30.9     | 15        | 0.57         | 211         | 25           | 319.8     | 321.9     | 319.9     |
| 507.0       | 5713      | -9.7      | -30.7     | 16        | 0.59         | 213         | 24           | 319.9     | 322.1     | 320.0     |
| 503.0       | 5774      | -10.5     | -22.5     | 37        | 1.26         | 215         | 24           | 319.6     | 324.1     | 319.9     |
| 501.9       | 5791      | -10.6     | -22.2     | 38        | 1.29         | 215         | 24           | 319.7     | 324.3     | 320.0     |
| 500.0       | 5820      | -10.7     | -21.7     | 40        | 1.36         | 215         | 25           | 319.9     | 324.7     | 320.2     |
| 498.0       | 5851      | -11.1     | -21.1     | 44        | 1.43         | 215         | 26           | 319.8     | 324.9     | 320.1     |
| 492.0       | 5944      | -11.7     | -23.7     | 36        | 1.15         | 215         | 27           | 320.2     | 324.3     | 320.4     |
| 482.3       | 6096      | -13.1     | -23.7     | 41        | 1.18         | 215         | 30           | 320.3     | 324.5     | 320.5     |
| 478.0       | 6165      | -13.7     | -23.7     | 43        | 1.19         | 216         | 28           | 320.4     | 324.6     | 320.6     |
| 467.0       | 6342      | -14.1     | -35.1     | 15        | 0.42         | 219         | 21           | 322.0     | 323.6     | 322.1     |
| 463.4       | 6401      | -14.4     | -35.7     | 15        | 0.40         | 220         | 19           | 322.3     | 323.8     | 322.4     |
| 454.0       | 6557      | -15.3     | -37.3     | 13        | 0.34         | 220         | 22           | 323.1     | 324.4     | 323.2     |
| 436.0       | 6861      | -18.3     | -31.3     | 31        | 0.65         | 220         | 28           | 323.1     | 325.5     | 323.2     |
| 427.0       | 7017      | -19.5     | -35.5     | 23        | 0.44         | 220         | 31           | 323.5     | 325.1     | 323.6     |
| 410.2       | 7315      | -22.1     | -33.1     | 36        | 0.58         | 220         | 37           | 323.9     | 326.1     | 324.0     |
| 410.0       | 7318      | -22.1     | -33.1     | 36        | 0.58         | 220         | 37           | 323.9     | 326.1     | 324.0     |
| 400.0       | 7500      | -23.5     | -34.5     | 36        | 0.52         | 220         | 36           | 324.4     | 326.3     | 324.5     |
| 399.0       | 7518      | -23.5     | -34.5     | 36        | 0.52         | 220         | 35           | 324.6     | 326.6     | 324.7     |
| 393.5       | 7620      | -23.8     | -42.7     | 16        | 0.23         | 220         | 31           | 325.5     | 326.4     | 325.5     |
| 392.0       | 7647      | -23.9     | -44.9     | 13        | 0.18         | 220         | 31           | 325.7     | 326.4     | 325.8     |
| 383.0       | 7816      | -24.9     | -49.9     | 8         | 0.10         | 220         | 33           | 326.6     | 327.0     | 326.6     |
| 360.0       | 8262      | -28.7     | -44.7     | 20        | 0.20         | 220         | 37           | 327.3     | 328.1     | 327.4     |
| 340.0       | 8668      | -31.5     | -51.5     | 12        | 0.10         | 220         | 41           | 328.9     | 329.3     | 328.9     |
| 317.6       | 9144      | -35.2     | -54.1     | 13        | 0.08         | 220         | 46           | 330.2     | 330.6     | 330.2     |
| 300.0       | 9540      | -38.3     | -56.3     | 13        | 0.06         | 225         | 48           | 331.3     | 331.5     | 331.3     |
| 290.7       | 9754      | -40.1     | -58.1     | 13        | 0.05         | 225         | 50           | 331.7     | 331.9     | 331.7     |

|       |       |       |       |    |      |     |    |       |       |       |
|-------|-------|-------|-------|----|------|-----|----|-------|-------|-------|
| 272.0 | 10206 | -43.9 | -61.9 | 12 | 0.03 | 220 | 46 | 332.6 | 332.7 | 332.6 |
| 253.8 | 10668 | -45.8 | -63.8 | 11 | 0.03 | 215 | 41 | 336.4 | 336.5 | 336.4 |
| 251.0 | 10743 | -46.1 | -64.1 | 11 | 0.03 | 211 | 44 | 337.0 | 337.1 | 337.0 |
| 250.0 | 10770 | -46.1 | -64.1 | 11 | 0.03 | 210 | 45 | 337.4 | 337.5 | 337.4 |
| 241.0 | 11013 | -45.5 | -66.5 | 8  | 0.02 | 212 | 51 | 341.9 | 341.9 | 341.9 |
| 231.5 | 11278 | -46.8 | -68.1 | 7  | 0.02 | 215 | 58 | 343.9 | 344.0 | 343.9 |
| 216.0 | 11736 | -48.9 | -70.9 | 6  | 0.01 | 217 | 54 | 347.4 | 347.5 | 347.4 |
| 205.0 | 12078 | -48.3 | -75.3 | 3  | 0.01 | 219 | 51 | 353.6 | 353.6 | 353.6 |
| 200.0 | 12240 | -49.1 | -79.1 | 2  | 0.00 | 220 | 49 | 354.9 | 354.9 | 354.9 |
| 154.0 | 13932 | -56.5 | -87.5 | 1  | 0.00 | 229 | 44 | 369.7 | 369.8 | 369.7 |
| 150.0 | 14100 | -56.3 | -87.3 | 1  | 0.00 | 230 | 44 | 372.9 | 372.9 | 372.9 |
| 147.0 | 14228 | -56.3 | -87.3 | 1  | 0.00 | 229 | 44 | 375.0 | 375.0 | 375.0 |
| 134.0 | 14813 | -59.1 | -89.1 | 1  | 0.00 | 226 | 43 | 380.1 | 380.1 | 380.1 |
| 131.4 | 14935 | -58.9 | -88.6 | 1  | 0.00 | 225 | 43 | 382.6 | 382.6 | 382.6 |
| 126.0 | 15199 | -58.5 | -87.5 | 1  | 0.00 | 238 | 39 | 387.9 | 387.9 | 387.9 |
| 125.2 | 15240 | -58.7 | -87.7 | 1  | 0.00 | 240 | 38 | 388.4 | 388.4 | 388.4 |
| 121.0 | 15453 | -59.5 | -88.5 | 1  | 0.00 | 237 | 36 | 390.6 | 390.6 | 390.6 |
| 114.0 | 15826 | -59.5 | -89.5 | 1  | 0.00 | 233 | 33 | 397.3 | 397.3 | 397.3 |
| 103.0 | 16457 | -62.5 | -90.5 | 1  | 0.00 | 225 | 28 | 403.3 | 403.3 | 403.3 |
| 101.0 | 16578 | -61.1 | -90.1 | 1  | 0.00 | 215 | 21 | 408.2 | 408.2 | 408.2 |
| 100.0 | 16640 | -61.3 | -90.3 | 1  | 0.00 | 210 | 18 | 409.0 | 409.0 | 409.0 |

## Station information and sounding indices

```

Station identifier: REV
Station number: 72489
Observation time: 150724/1200
Station latitude: 39.56
Station longitude: -119.80
Station elevation: 1516.0
Showalter index: 6.08
Lifted index: 5.46
LIFT computed using virtual temperature: 5.34
SWEAT index: 43.40
K index: 18.10
Cross totals index: 11.90
Vertical totals index: 27.90
Totals totals index: 39.80
Convective Available Potential Energy: 0.00
CAPE using virtual temperature: 0.00
Convective Inhibition: 0.00
CINS using virtual temperature: 0.00
Bulk Richardson Number: 0.00
Bulk Richardson Number using CAPV: 0.00
Temp [K] of the Lifted Condensation Level: 270.52
Pres [hPa] of the Lifted Condensation Level: 653.90
Mean mixed layer potential temperature: 305.44
Mean mixed layer mixing ratio: 4.86
1000 hPa to 500 hPa thickness: 5726.00
Precipitable water [mm] for entire sounding: 14.43

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Description of the [data columns](#) or [sounding indices](#).

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Questions about the weather data provided by this site can be addressed to [Larry Oolman \(ldoolman@uwyo.edu\)](mailto:Larry.Oolman@uwyo.edu)

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