

# 72672 RIW Riverton Observations at 12Z 26 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      | 30        |           |           |           |              |             |              |           |           |           |
| 925.0       | 731       |           |           |           |              |             |              |           |           |           |
| 850.0       | 1479      |           |           |           |              |             |              |           |           |           |
| 829.0       | 1703      | 17.2      | 3.2       | 39        | 5.84         | 305         | 4            | 306.3     | 324.5     | 307.4     |
| 825.0       | 1744      | 20.4      | 3.4       | 33        | 5.96         | 302         | 4            | 310.1     | 328.9     | 311.2     |
| 823.0       | 1765      | 21.2      | 3.2       | 31        | 5.89         | 301         | 4            | 311.2     | 329.8     | 312.3     |
| 808.0       | 1924      | 20.6      | 3.6       | 33        | 6.17         | 290         | 6            | 312.2     | 331.8     | 313.4     |
| 793.0       | 2085      | 21.2      | 2.2       | 28        | 5.69         | 278         | 7            | 314.5     | 332.8     | 315.6     |
| 788.4       | 2134      | 20.8      | 2.0       | 29        | 5.63         | 275         | 7            | 314.6     | 332.7     | 315.7     |
| 760.7       | 2438      | 18.2      | 0.5       | 30        | 5.26         | 220         | 5            | 315.0     | 332.0     | 316.0     |
| 733.8       | 2743      | 15.6      | -0.9      | 32        | 4.90         | 220         | 9            | 315.4     | 331.4     | 316.4     |
| 700.0       | 3143      | 12.2      | -2.8      | 35        | 4.47         | 255         | 11           | 316.0     | 330.5     | 316.8     |
| 682.4       | 3353      | 10.2      | -3.8      | 37        | 4.25         | 255         | 14           | 316.1     | 330.0     | 316.9     |
| 657.5       | 3658      | 7.4       | -5.2      | 40        | 3.95         | 270         | 12           | 316.2     | 329.2     | 317.0     |
| 613.0       | 4235      | 2.0       | -8.0      | 48        | 3.43         | 289         | 10           | 316.4     | 327.8     | 317.1     |
| 610.5       | 4267      | 1.9       | -9.0      | 44        | 3.18         | 290         | 10           | 316.7     | 327.2     | 317.3     |
| 605.0       | 4341      | 1.6       | -11.4     | 37        | 2.66         | 288         | 12           | 317.2     | 326.1     | 317.7     |
| 576.0       | 4734      | -1.9      | -13.9     | 39        | 2.28         | 275         | 21           | 317.6     | 325.3     | 318.0     |
| 565.7       | 4877      | -1.9      | -15.6     | 34        | 2.02         | 270         | 25           | 319.2     | 326.1     | 319.6     |
| 564.0       | 4901      | -1.9      | -15.9     | 33        | 1.97         | 269         | 25           | 319.5     | 326.3     | 319.9     |
| 544.4       | 5182      | -3.3      | -24.1     | 18        | 1.01         | 260         | 24           | 321.1     | 324.8     | 321.3     |
| 541.0       | 5231      | -3.5      | -25.5     | 16        | 0.89         | 261         | 23           | 321.4     | 324.6     | 321.6     |
| 523.8       | 5486      | -4.8      | -27.4     | 15        | 0.78         | 265         | 19           | 322.8     | 325.7     | 323.0     |
| 512.0       | 5665      | -5.7      | -28.7     | 14        | 0.70         | 250         | 20           | 323.8     | 326.4     | 324.0     |
| 500.0       | 5850      | -7.3      | -30.3     | 14        | 0.62         | 235         | 22           | 324.1     | 326.4     | 324.2     |
| 484.4       | 6096      | -9.2      | -28.4     | 20        | 0.77         | 230         | 22           | 324.6     | 327.5     | 324.8     |
| 484.0       | 6102      | -9.3      | -28.3     | 20        | 0.77         | 230         | 22           | 324.6     | 327.5     | 324.8     |
| 469.0       | 6344      | -10.9     | -36.9     | 10        | 0.35         | 233         | 24           | 325.6     | 326.9     | 325.6     |
| 437.0       | 6880      | -15.7     | -33.7     | 20        | 0.51         | 238         | 27           | 326.1     | 328.1     | 326.2     |
| 400.0       | 7540      | -20.1     | -45.1     | 9         | 0.17         | 245         | 32           | 328.8     | 329.5     | 328.8     |
| 395.7       | 7620      | -20.6     | -45.9     | 9         | 0.16         | 250         | 33           | 329.1     | 329.8     | 329.1     |
| 381.0       | 7900      | -22.5     | -48.5     | 7         | 0.12         | 250         | 36           | 330.2     | 330.7     | 330.2     |
| 363.9       | 8230      | -25.3     | -49.4     | 9         | 0.12         | 250         | 40           | 330.9     | 331.4     | 330.9     |
| 322.0       | 9113      | -32.7     | -51.7     | 13        | 0.10         | 240         | 44           | 332.4     | 332.8     | 332.4     |
| 320.6       | 9144      | -32.6     | -52.1     | 13        | 0.10         | 240         | 44           | 332.9     | 333.4     | 332.9     |
| 319.0       | 9179      | -32.5     | -52.5     | 12        | 0.09         | 240         | 44           | 333.6     | 333.9     | 333.6     |
| 300.0       | 9610      | -35.5     | -56.5     | 10        | 0.06         | 240         | 47           | 335.2     | 335.5     | 335.2     |
| 293.8       | 9754      | -36.2     | -57.2     | 10        | 0.06         | 235         | 48           | 336.2     | 336.5     | 336.2     |
| 293.0       | 9773      | -36.3     | -57.3     | 10        | 0.06         | 235         | 48           | 336.4     | 336.6     | 336.4     |
| 250.0       | 10850     | -44.7     | -62.7     | 12        | 0.03         | 235         | 70           | 339.5     | 339.6     | 339.5     |
| 209.0       | 12027     | -53.3     | -70.3     | 11        | 0.01         | 235         | 80           | 343.9     | 343.9     | 343.9     |
| 200.0       | 12310     | -54.9     | -71.9     | 10        | 0.01         | 235         | 82           | 345.7     | 345.7     | 345.7     |
| 186.0       | 12769     | -56.9     | -73.4     | 11        | 0.01         | 235         | 92           | 349.6     | 349.7     | 349.6     |
| 185.1       | 12802     | -57.1     | -73.5     | 11        | 0.01         | 235         | 92           | 349.9     | 350.0     | 349.9     |
| 172.0       | 13265     | -59.1     | -75.1     | 11        | 0.01         | 233         | 86           | 353.9     | 354.0     | 353.9     |
| 153.0       | 13997     | -60.3     | -76.3     | 11        | 0.01         | 230         | 78           | 363.9     | 364.0     | 363.9     |
| 150.0       | 14120     | -61.3     | -77.3     | 10        | 0.01         | 230         | 76           | 364.3     | 364.3     | 364.3     |
| 148.0       | 14203     | -61.9     | -77.9     | 10        | 0.01         | 232         | 75           | 364.6     | 364.7     | 364.6     |
| 141.0       | 14503     | -62.9     | -78.9     | 10        | 0.01         | 240         | 72           | 368.0     | 368.0     | 368.0     |
| 138.1       | 14630     | -62.4     | -78.8     | 9         | 0.01         | 240         | 72           | 371.0     | 371.0     | 371.0     |
| 134.0       | 14817     | -61.7     | -78.7     | 9         | 0.01         | 249         | 63           | 375.5     | 375.5     | 375.5     |
| 131.5       | 14935     | -61.8     | -78.8     | 9         | 0.01         | 255         | 57           | 377.3     | 377.4     | 377.3     |
| 126.0       | 15199     | -62.1     | -79.1     | 9         | 0.01         | 251         | 47           | 381.4     | 381.5     | 381.4     |

|       |       |       |       |   |      |     |    |       |       |       |
|-------|-------|-------|-------|---|------|-----|----|-------|-------|-------|
| 125.2 | 15240 | -61.9 | -79.1 | 8 | 0.01 | 250 | 45 | 382.5 | 382.5 | 382.5 |
| 116.0 | 15713 | -59.7 | -78.7 | 7 | 0.01 | 238 | 26 | 395.0 | 395.0 | 395.0 |
| 113.5 | 15850 | -60.3 | -79.3 | 7 | 0.01 | 235 | 20 | 396.3 | 396.4 | 396.3 |
| 112.0 | 15933 | -60.7 | -79.7 | 7 | 0.01 | 234 | 21 | 397.1 | 397.1 | 397.1 |
| 102.0 | 16509 | -65.1 | -82.1 | 8 | 0.00 | 227 | 28 | 399.4 | 399.4 | 399.4 |
| 100.0 | 16630 | -64.7 | -81.7 | 8 | 0.01 | 225 | 29 | 402.4 | 402.5 | 402.5 |

## Station information and sounding indices

Station identifier: RIW  
Station number: 72672  
Observation time: 150726/1200  
Station latitude: 43.06  
Station longitude: -108.48  
Station elevation: 1703.0  
Lifted index: 3.44

LIFT computed using virtual temperature: 3.00  
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: 272.32  
Pres [hPa] of the Lifted Condensation Level: 617.38  
Mean mixed layer potential temperature: 312.57  
Mean mixed layer mixing ratio: 5.88  
1000 hPa to 500 hPa thickness: 5820.00  
Precipitable water [mm] for entire sounding: 13.01

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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