

# 72340 LZK Little Rock Observations at 00Z 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      | 107       |           |           |           |              |             |              |           |           |           |
| 993.0       | 173       | 34.0      | 26.0      | 63        | 21.89        | 150         | 5            | 307.8     | 374.6     | 311.8     |
| 989.0       | 210       | 33.2      | 25.2      | 63        | 20.93        | 148         | 5            | 307.3     | 371.0     | 311.1     |
| 966.0       | 421       | 30.4      | 23.4      | 66        | 19.18        | 133         | 7            | 306.6     | 364.6     | 310.1     |
| 945.7       | 610       | 28.8      | 22.8      | 70        | 18.90        | 120         | 9            | 306.8     | 364.1     | 310.3     |
| 925.0       | 807       | 27.2      | 22.2      | 74        | 18.60        | 145         | 8            | 307.1     | 363.5     | 310.5     |
| 913.8       | 914       | 26.1      | 21.9      | 78        | 18.52        | 130         | 5            | 307.1     | 363.2     | 310.5     |
| 882.8       | 1219      | 23.2      | 21.1      | 88        | 18.26        | 60          | 5            | 307.1     | 362.4     | 310.4     |
| 877.0       | 1277      | 22.6      | 21.0      | 91        | 18.22        | 59          | 5            | 307.1     | 362.2     | 310.4     |
| 864.0       | 1407      | 22.0      | 19.3      | 85        | 16.60        | 57          | 4            | 307.7     | 358.2     | 310.8     |
| 854.0       | 1508      | 20.8      | 18.9      | 89        | 16.38        | 56          | 4            | 307.5     | 357.2     | 310.5     |
| 850.0       | 1549      | 21.4      | 16.7      | 75        | 14.28        | 55          | 4            | 308.6     | 352.1     | 311.2     |
| 835.0       | 1704      | 20.0      | 16.1      | 78        | 13.98        | 52          | 5            | 308.6     | 351.3     | 311.2     |
| 828.0       | 1776      | 20.8      | 11.8      | 56        | 10.61        | 51          | 6            | 310.2     | 343.0     | 312.2     |
| 823.0       | 1829      | 20.7      | 10.9      | 54        | 10.07        | 50          | 6            | 310.6     | 341.8     | 312.5     |
| 821.0       | 1850      | 20.6      | 10.6      | 53        | 9.87         | 50          | 6            | 310.8     | 341.4     | 312.6     |
| 804.0       | 2030      | 19.4      | 6.4       | 43        | 7.55         | 47          | 9            | 311.4     | 335.0     | 312.8     |
| 794.4       | 2134      | 18.6      | 7.0       | 47        | 7.95         | 45          | 10           | 311.5     | 336.4     | 313.0     |
| 777.0       | 2323      | 17.0      | 8.0       | 55        | 8.73         | 42          | 11           | 311.8     | 339.1     | 313.5     |
| 766.6       | 2438      | 16.3      | 6.8       | 54        | 8.16         | 40          | 12           | 312.3     | 337.9     | 313.8     |
| 739.5       | 2743      | 14.3      | 3.7       | 49        | 6.79         | 35          | 11           | 313.4     | 334.9     | 314.7     |
| 732.0       | 2830      | 13.8      | 2.8       | 47        | 6.44         | 35          | 11           | 313.7     | 334.2     | 314.9     |
| 700.0       | 3205      | 11.0      | 2.0       | 54        | 6.36         | 35          | 12           | 314.6     | 334.9     | 315.8     |
| 689.0       | 3337      | 10.0      | 1.0       | 54        | 6.01         | 32          | 11           | 314.9     | 334.2     | 316.1     |
| 669.0       | 3582      | 9.0       | -3.0      | 43        | 4.61         | 27          | 10           | 316.5     | 331.5     | 317.4     |
| 662.9       | 3658      | 8.3       | -2.6      | 46        | 4.81         | 25          | 9            | 316.6     | 332.2     | 317.5     |
| 658.0       | 3719      | 7.8       | -2.2      | 49        | 4.97         | 26          | 9            | 316.6     | 332.8     | 317.6     |
| 639.0       | 3961      | 6.8       | -8.2      | 33        | 3.24         | 32          | 8            | 318.2     | 329.0     | 318.8     |
| 615.5       | 4267      | 4.3       | -8.9      | 38        | 3.18         | 40          | 6            | 318.7     | 329.4     | 319.3     |
| 613.0       | 4300      | 4.0       | -9.0      | 38        | 3.17         | 41          | 6            | 318.7     | 329.4     | 319.4     |
| 605.0       | 4407      | 3.0       | -7.0      | 48        | 3.76         | 42          | 8            | 318.8     | 331.3     | 319.5     |
| 576.0       | 4803      | 0.2       | -13.8     | 34        | 2.30         | 49          | 13           | 320.0     | 327.9     | 320.5     |
| 570.7       | 4877      | 0.3       | -12.5     | 38        | 2.57         | 50          | 14           | 321.0     | 329.8     | 321.5     |
| 567.0       | 4930      | 0.4       | -11.6     | 40        | 2.79         | 48          | 14           | 321.7     | 331.2     | 322.2     |
| 553.0       | 5130      | -1.3      | -9.3      | 55        | 3.44         | 38          | 13           | 322.0     | 333.6     | 322.7     |
| 537.0       | 5364      | -2.7      | -10.7     | 54        | 3.17         | 27          | 12           | 323.0     | 333.8     | 323.6     |
| 528.0       | 5498      | -1.7      | -29.7     | 10        | 0.62         | 21          | 12           | 325.8     | 328.1     | 325.9     |
| 524.0       | 5558      | -1.5      | -36.5     | 5         | 0.32         | 18          | 11           | 326.7     | 328.0     | 326.8     |
| 500.0       | 5930      | -4.1      | -43.1     | 3         | 0.17         | 0           | 10           | 328.0     | 328.7     | 328.0     |
| 489.5       | 6096      | -5.3      | -44.3     | 3         | 0.15         | 5           | 13           | 328.5     | 329.1     | 328.5     |
| 476.0       | 6316      | -6.9      | -45.9     | 3         | 0.13         | 354         | 13           | 329.2     | 329.7     | 329.2     |
| 465.0       | 6498      | -6.7      | -35.7     | 8         | 0.39         | 345         | 13           | 331.6     | 333.2     | 331.7     |
| 460.0       | 6583      | -7.1      | -47.1     | 2         | 0.12         | 341         | 13           | 332.1     | 332.6     | 332.2     |
| 452.8       | 6706      | -7.8      | -37.0     | 8         | 0.36         | 335         | 13           | 332.7     | 334.2     | 332.8     |
| 452.0       | 6719      | -7.9      | -35.9     | 9         | 0.40         | 335         | 13           | 332.8     | 334.4     | 332.9     |
| 435.4       | 7010      | -9.6      | -42.7     | 5         | 0.21         | 325         | 11           | 334.2     | 335.1     | 334.2     |
| 429.0       | 7124      | -10.3     | -45.3     | 4         | 0.16         | 323         | 9            | 334.8     | 335.4     | 334.8     |
| 420.0       | 7287      | -11.3     | -29.3     | 21        | 0.81         | 320         | 7            | 335.5     | 338.6     | 335.7     |
| 411.0       | 7453      | -12.1     | -38.1     | 10        | 0.35         | 318         | 4            | 336.6     | 338.0     | 336.6     |
| 402.1       | 7620      | -12.9     | -37.3     | 11        | 0.39         | 315         | 2            | 337.6     | 339.2     | 337.7     |
| 400.0       | 7660      | -13.1     | -37.1     | 11        | 0.40         | 305         | 3            | 337.9     | 339.5     | 338.0     |
| 393.0       | 7794      | -13.9     | -33.9     | 17        | 0.56         | 310         | 5            | 338.5     | 340.8     | 338.6     |
| 382.0       | 8009      | -14.9     | -36.9     | 13        | 0.43         | 319         | 9            | 340.0     | 341.7     | 340.1     |

|       |       |       |       |    |      |     |    |       |       |       |
|-------|-------|-------|-------|----|------|-----|----|-------|-------|-------|
| 356.0 | 8534  | -19.6 | -38.4 | 17 | 0.39 | 340 | 19 | 340.6 | 342.1 | 340.6 |
| 342.0 | 8833  | -22.3 | -39.3 | 20 | 0.37 | 345 | 17 | 340.8 | 342.4 | 340.9 |
| 327.7 | 9144  | -24.7 | -41.7 | 19 | 0.30 | 350 | 14 | 341.7 | 342.9 | 341.8 |
| 321.0 | 9294  | -25.9 | -42.9 | 19 | 0.27 | 351 | 13 | 342.1 | 343.2 | 342.1 |
| 304.0 | 9686  | -28.9 | -40.9 | 31 | 0.35 | 354 | 10 | 343.2 | 344.7 | 343.3 |
| 300.0 | 9780  | -29.9 | -42.9 | 27 | 0.29 | 355 | 9  | 343.1 | 344.3 | 343.2 |
| 282.0 | 10218 | -33.5 | -44.5 | 32 | 0.26 | 345 | 7  | 344.1 | 345.2 | 344.1 |
| 264.3 | 10668 | -37.4 | -52.1 | 20 | 0.12 | 335 | 5  | 344.8 | 345.3 | 344.8 |
| 258.0 | 10835 | -38.9 | -54.9 | 17 | 0.09 | 335 | 8  | 345.0 | 345.4 | 345.0 |
| 250.0 | 11050 | -40.5 | -56.5 | 16 | 0.07 | 335 | 12 | 345.7 | 346.1 | 345.7 |
| 230.9 | 11582 | -44.1 | -63.2 | 10 | 0.03 | 325 | 13 | 348.2 | 348.3 | 348.2 |
| 220.0 | 11907 | -46.3 | -67.3 | 7  | 0.02 | 310 | 12 | 349.6 | 349.7 | 349.6 |
| 200.0 | 12530 | -51.5 | -71.5 | 7  | 0.01 | 280 | 10 | 351.1 | 351.1 | 351.1 |
| 193.0 | 12760 | -53.5 | -71.5 | 9  | 0.01 | 278 | 11 | 351.4 | 351.5 | 351.4 |
| 175.0 | 13381 | -58.9 | -64.9 | 46 | 0.04 | 272 | 14 | 352.5 | 352.7 | 352.5 |
| 157.7 | 14021 | -64.0 | -70.7 | 40 | 0.02 | 265 | 17 | 354.5 | 354.6 | 354.5 |
| 150.0 | 14330 | -66.5 | -73.5 | 37 | 0.01 | 270 | 9  | 355.3 | 355.4 | 355.3 |
| 149.0 | 14371 | -66.9 | -73.9 | 37 | 0.01 | 266 | 9  | 355.3 | 355.4 | 355.3 |
| 135.7 | 14935 | -69.8 | -76.8 | 35 | 0.01 | 215 | 2  | 359.9 | 360.0 | 359.9 |
| 135.0 | 14964 | -69.9 | -76.9 | 35 | 0.01 | 221 | 2  | 360.2 | 360.2 | 360.2 |
| 128.8 | 15240 | -72.2 | -78.7 | 37 | 0.01 | 280 | 7  | 360.9 | 360.9 | 360.9 |
| 123.0 | 15514 | -74.5 | -80.5 | 39 | 0.01 | 270 | 5  | 361.5 | 361.5 | 361.5 |
| 117.0 | 15805 | -75.3 | -82.3 | 33 | 0.00 | 260 | 3  | 365.2 | 365.2 | 365.2 |
| 114.0 | 15956 | -74.5 | -82.5 | 28 | 0.00 | 258 | 3  | 369.4 | 369.5 | 369.4 |
| 109.0 | 16217 | -75.7 | -82.7 | 33 | 0.00 | 253 | 4  | 371.9 | 372.0 | 371.9 |
| 106.0 | 16379 | -74.9 | -81.9 | 33 | 0.00 | 251 | 5  | 376.4 | 376.5 | 376.4 |
| 105.0 | 16435 | -75.3 | -82.3 | 33 | 0.00 | 250 | 5  | 376.7 | 376.7 | 376.7 |
| 103.0 | 16547 | -73.7 | -81.7 | 29 | 0.00 | 248 | 5  | 381.8 | 381.9 | 381.8 |
| 100.0 | 16720 | -73.7 | -81.7 | 29 | 0.01 | 245 | 6  | 385.1 | 385.1 | 385.1 |
| 91.1  | 17265 | -71.9 | -80.9 | 25 | 0.01 | 206 | 11 | 399.0 | 399.1 | 399.0 |
| 88.7  | 17423 | -70.3 | -80.3 | 22 | 0.01 | 195 | 12 | 405.3 | 405.3 | 405.3 |
| 87.2  | 17525 | -66.9 | -78.9 | 17 | 0.01 | 188 | 13 | 414.1 | 414.1 | 414.1 |
| 76.9  | 18284 | -65.3 | -78.3 | 15 | 0.01 | 135 | 19 | 432.6 | 432.6 | 432.6 |
| 76.8  | 18288 | -65.3 | -78.3 | 15 | 0.01 | 135 | 19 | 432.7 | 432.8 | 432.7 |
| 74.1  | 18510 | -63.9 | -77.9 | 13 | 0.01 | 146 | 10 | 440.1 | 440.2 | 440.1 |
| 73.3  | 18577 | -62.3 | -77.3 | 12 | 0.01 | 149 | 8  | 444.9 | 445.0 | 444.9 |
| 73.1  | 18593 | -62.3 | -77.4 | 12 | 0.01 | 150 | 7  | 445.1 | 445.2 | 445.2 |
| 70.0  | 18860 | -62.7 | -78.7 | 10 | 0.01 | 170 | 14 | 449.9 | 450.0 | 449.9 |
| 69.6  | 18898 | -62.8 | -78.8 | 10 | 0.01 | 180 | 20 | 450.4 | 450.5 | 450.4 |
| 66.2  | 19202 | -63.9 | -79.9 | 10 | 0.01 | 120 | 2  | 454.4 | 454.5 | 454.4 |
| 65.7  | 19249 | -64.1 | -80.1 | 10 | 0.01 | 113 | 5  | 455.1 | 455.1 | 455.1 |
| 63.0  | 19507 | -63.7 | -80.8 | 8  | 0.01 | 75  | 19 | 461.4 | 461.5 | 461.4 |
| 58.7  | 19941 | -63.1 | -82.1 | 6  | 0.01 | 107 | 9  | 472.2 | 472.3 | 472.2 |
| 57.1  | 20117 | -62.0 | -82.5 | 5  | 0.01 | 120 | 5  | 478.6 | 478.6 | 478.6 |
| 54.3  | 20422 | -60.1 | -83.2 | 3  | 0.01 | 90  | 11 | 489.7 | 489.7 | 489.7 |
| 52.4  | 20646 | -58.7 | -83.7 | 3  | 0.01 | 105 | 18 | 498.0 | 498.1 | 498.0 |
| 51.7  | 20726 | -58.9 | -84.1 | 2  | 0.01 | 110 | 21 | 499.4 | 499.5 | 499.4 |
| 50.0  | 20940 | -59.3 | -85.3 | 2  | 0.01 | 120 | 21 | 503.3 | 503.4 | 503.3 |
| 49.3  | 21031 | -59.5 | -85.7 | 2  | 0.01 | 130 | 16 | 504.9 | 504.9 | 504.9 |
| 46.9  | 21336 | -60.2 | -87.0 | 2  | 0.00 | 120 | 18 | 510.3 | 510.3 | 510.3 |
| 46.1  | 21447 | -60.5 | -87.5 | 2  | 0.00 | 111 | 20 | 512.2 | 512.3 | 512.2 |
| 44.7  | 21641 | -58.2 | -87.2 | 1  | 0.00 | 95  | 23 | 522.2 | 522.3 | 522.2 |
| 42.6  | 21945 | -54.7 | -86.7 | 1  | 0.01 | 92  | 28 | 538.2 | 538.2 | 538.2 |
| 42.3  | 21991 | -54.5 | -86.6 | 1  | 0.01 | 92  | 28 | 539.8 | 539.8 | 539.8 |
| 40.6  | 22250 | -55.1 | -86.3 | 1  | 0.01 | 90  | 32 | 544.7 | 544.7 | 544.7 |
| 38.7  | 22555 | -55.8 | -85.9 | 1  | 0.01 | 85  | 20 | 550.5 | 550.5 | 550.5 |
| 38.3  | 22625 | -55.9 | -85.8 | 1  | 0.01 | 84  | 21 | 551.8 | 551.8 | 551.8 |
| 35.3  | 23146 | -53.9 | -85.1 | 1  | 0.01 | 75  | 25 | 570.0 | 570.0 | 570.0 |
| 32.0  | 23774 | -54.4 | -84.3 | 1  | 0.01 | 65  | 31 | 584.9 | 585.0 | 584.9 |
| 31.1  | 23958 | -54.5 | -84.0 | 1  | 0.01 | 74  | 28 | 589.4 | 589.5 | 589.4 |
| 30.5  | 24079 | -53.0 | -83.9 | 1  | 0.01 | 80  | 26 | 596.5 | 596.6 | 596.5 |

|      |       |       |       |   |      |     |    |        |        |        |
|------|-------|-------|-------|---|------|-----|----|--------|--------|--------|
| 30.0 | 24190 | -51.7 | -83.7 | 1 | 0.01 | 70  | 21 | 603.1  | 603.2  | 603.1  |
| 29.9 | 24212 | -51.5 | -83.7 | 1 | 0.01 | 70  | 21 | 604.2  | 604.3  | 604.2  |
| 29.1 | 24384 | -50.7 | -83.5 | 1 | 0.01 | 70  | 21 | 611.0  | 611.2  | 611.0  |
| 28.2 | 24593 | -49.7 | -83.2 | 1 | 0.01 | 76  | 22 | 619.4  | 619.5  | 619.4  |
| 24.1 | 25603 | -52.1 | -81.9 | 2 | 0.02 | 105 | 27 | 640.6  | 640.8  | 640.6  |
| 23.0 | 25908 | -52.8 | -81.5 | 2 | 0.02 | 95  | 23 | 647.2  | 647.4  | 647.2  |
| 22.9 | 25943 | -52.9 | -81.4 | 2 | 0.02 | 95  | 23 | 647.9  | 648.2  | 648.0  |
| 20.0 | 26820 | -50.3 | -80.3 | 2 | 0.03 | 90  | 31 | 681.5  | 681.8  | 681.5  |
| 18.2 | 27432 | -49.7 | -79.5 | 2 | 0.04 | 80  | 37 | 701.7  | 702.1  | 701.7  |
| 17.6 | 27658 | -49.5 | -79.2 | 2 | 0.04 | 84  | 41 | 709.3  | 709.8  | 709.4  |
| 16.6 | 28042 | -48.1 | -78.7 | 2 | 0.05 | 90  | 49 | 725.6  | 726.2  | 725.7  |
| 15.2 | 28651 | -45.9 | -78.0 | 1 | 0.06 | 95  | 36 | 752.2  | 752.9  | 752.3  |
| 14.9 | 28762 | -45.5 | -77.8 | 1 | 0.06 | 94  | 37 | 757.2  | 757.9  | 757.2  |
| 13.8 | 29273 | -47.1 | -77.2 | 2 | 0.08 | 91  | 41 | 768.5  | 769.4  | 768.6  |
| 12.3 | 30053 | -37.7 | -76.2 | 1 | 0.10 | 86  | 47 | 827.3  | 828.5  | 827.3  |
| 12.1 | 30175 | -37.9 | -76.0 | 1 | 0.10 | 85  | 48 | 830.9  | 832.2  | 831.0  |
| 11.6 | 30480 | -38.2 | -75.7 | 1 | 0.11 | 90  | 44 | 840.1  | 841.5  | 840.2  |
| 10.2 | 31344 | -39.3 | -74.6 | 1 | 0.15 | 90  | 35 | 866.8  | 868.7  | 866.9  |
| 10.0 | 31480 | -38.5 | -74.4 | 1 | 0.16 | 90  | 33 | 874.7  | 876.7  | 874.8  |
| 9.9  | 31549 | -38.3 | -74.3 | 1 | 0.16 | 90  | 32 | 877.9  | 880.0  | 878.0  |
| 9.7  | 31699 | -38.7 | -74.2 | 1 | 0.17 | 90  | 31 | 881.9  | 884.1  | 882.0  |
| 9.0  | 32201 | -40.1 | -73.5 | 2 | 0.20 | 79  | 34 | 895.3  | 897.9  | 895.4  |
| 8.5  | 32614 | -38.4 | -73.0 | 1 | 0.23 | 70  | 37 | 917.3  | 920.4  | 917.5  |
| 7.4  | 33528 | -34.6 | -71.9 | 1 | 0.31 | 85  | 42 | 968.0  | 972.3  | 968.2  |
| 7.1  | 33833 | -33.3 | -71.5 | 1 | 0.34 | 85  | 48 | 985.4  | 990.3  | 985.6  |
| 7.0  | 33940 | -32.9 | -71.4 | 1 | 0.36 | 85  | 43 | 991.6  | 996.6  | 991.8  |
| 6.8  | 34144 | -31.9 | -71.2 | 1 | 0.38 | 85  | 43 | 1004.0 | 1009.5 | 1004.3 |
| 6.2  | 34747 | -30.7 | -70.4 | 1 | 0.46 | 85  | 44 | 1033.9 | 1040.7 | 1034.2 |
| 6.0  | 35032 | -30.1 | -70.1 | 1 | 0.50 |     |    | 1048.4 | 1055.8 | 1048.7 |

## Station information and sounding indices

```

Station identifier: LZK
Station number: 72340
Observation time: 150726/0000
Station latitude: 34.84
Station longitude: -92.26
Station elevation: 173.0
Showalter index: -1.76
Lifted index: -6.22
LIFT computed using virtual temperature: -7.69
SWEAT index: 218.41
K index: 33.20
Cross totals index: 20.80
Vertical totals index: 25.50
Totals totals index: 46.30
Convective Available Potential Energy: 3637.32
CAPE using virtual temperature: 4006.42
Convective Inhibition: -4.74
CINS using virtual temperature: -0.23
Equilibrium Level: 116.33
Equilibrium Level using virtual temperature: 116.38
Level of Free Convection: 860.51
LFCT using virtual temperature: 872.04
Bulk Richardson Number: 281.94
Bulk Richardson Number using CAPV: 310.55
Temp [K] of the Lifted Condensation Level: 295.23
Pres [hPa] of the Lifted Condensation Level: 873.34
Mean mixed layer potential temperature: 306.89
Mean mixed layer mixing ratio: 19.62

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1000 hPa to 500 hPa thickness: 5823.00

Precipitable water [mm] for entire sounding: 47.63

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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