Date Printed: 07/16/2017 01:20

OAK RIDGE NATIONAL LABORATORY
Managed by UT-Battelle for the Department of Energy

# Daily Summary Report

Site: Tower "D" (1000 Area)

7/15/2017

Interval: 001h

| | 01_TempC_002m | 02_TempC_015m | 03_TempC_035m | 04_TempC_060m | 14_DewPtC_002m | 15_DewPtC_015m | 17a_WBulbC | 18_SoilTempC | 19_RH_002m |
|---|---|---|---|---|---|---|---|---|---|
| Hour | DEGC | DEGC | DEGC | DEGC | DEGC | DEGC | DEGC | DEGC | PERCENT |
| 00:00 | 21.7 | 21.9 | 22.3 | 22.3 | 21.0 | 21.2 | 21.4 | 25.9 | 98.0 |
| 01:00 | 21.5 | 21.7 | 22.2 | 22.2 | 20.8 | 21.1 | 21.3 | 25.8 | 98.3 |
| 02:00 | 21.3 | 21.7 | 21.9 | 22.1 | 20.6 | 21.0 | 21.2 | 25.6 | 98.4 |
| 03:00 | 21.2 | 21.6 | 21.8 | 22.1 | 20.5 | 20.9 | 21.1 | 25.4 | 98.6 |
| 04:00 | 21.3 | 21.8 | 21.7 | 22.0 | 20.7 | 21.1 | 21.3 | 25.3 | 98.6 |
| 05:00 | 21.3 | 21.5 | 21.6 | 21.8 | 20.7 | 20.9 | 21.1 | 25.1 | 98.7 |
| 06:00 | 21.5 | 21.6 | 21.7 | 21.8 | 20.9 | 20.9 | 21.1 | 25.0 | 98.6 |
| 07:00 | 21.9 | 21.8 | 21.9 | 22.2 | 21.2 | 21.1 | 21.4 | 24.9 | 98.3 |
| 08:00 | 22.8 | 22.5 | 22.5 | 22.6 | 21.7 | 21.9 | 22.1 | 24.8 | 96.0 |
| 09:00 | 22.9 | 22.7 | 22.6 | 22.7 | 21.8 | 22.0 | 22.2 | 24.7 | 96.1 |
| 10:00 | 23.5 | 23.2 | 23.0 | 23.1 | 22.2 | 22.5 | 22.7 | 24.7 | 95.3 |
| 11:00 | 24.4 | 24.1 | 24.1 | 24.1 | 22.4 | 23.3 | 23.5 | 24.7 | 91.3 |
| 12:00 | 24.8 | 24.7 | 24.7 | 24.6 | 22.3 | 23.6 | 24.0 | 24.8 | 88.4 |
| 13:00 | 24.5 | 24.4 | 24.3 | 24.2 | 22.4 | 23.0 | 23.5 | 24.9 | 90.5 |
| 14:00 | 26.1 | 25.3 | 25.2 | 25.6 | 21.7 | 21.9 | 23.3 | 25.0 | 79.3 |
| 15:00 | 28.0 | 27.0 | 26.7 | 27.9 | 20.9 | 20.8 | 23.3 | 25.1 | 67.1 |
| 16:00 | 28.6 | 27.6 | 27.3 | 28.0 | 20.0 | 19.7 | 22.8 | 25.3 | 61.5 |
| 17:00 | 28.6 | 27.8 | 27.6 | 28.0 | 20.0 | 20.0 | 23.0 | 25.6 | 61.4 |
| 18:00 | 28.8 | 27.8 | 27.7 | 28.2 | 19.7 | 19.8 | 23.0 | 25.8 | 59.8 |
| 19:00 | 27.3 | 27.4 | 27.4 | 27.8 | 20.9 | 20.4 | 23.1 | 26.0 | 70.4 |
| 20:00 | 24.9 | 26.2 | 26.5 | 26.7 | 21.8 | 20.3 | 22.3 | 26.1 | 85.0 |
| 21:00 | 23.4 | 23.8 | 24.2 | 25.1 | 21.5 | 20.0 | 21.3 | 26.1 | 91.2 |
| 22:00 | 22.5 | 22.8 | 23.2 | 24.0 | 21.0 | 20.5 | 21.2 | 26.0 | 93.9 |
| 23:00 | 21.9 | 22.5 | 22.8 | 23.3 | 20.8 | 21.7 | 22.0 | 25.9 | 95.9 |
| Avg | 23.9 | 23.9 | 24.0 | 24.3 | 21.1 | 21.2 | 22.2 | 25.4 | 87.9 |
| Max | 28.8 | 27.8 | 27.7 | 28.2 | 22.4 | 23.6 | 24.0 | 26.1 | 98.7 |
| Hr. of Max | 18 | 18 | 18 | 18 | 13 | 12 | 12 | 21 | 05 |
| Min | 21.2 | 21.5 | 21.6 | 21.8 | 19.7 | 19.7 | 21.1 | 24.7 | 59.8 |
| Count | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Total | | | | | | | | | |

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# Daily Summary Report

Site: Tower "D" (1000 Area)

7/15/2017

Interval: 001h

| | 20_RH_015m | 21_AbsHum_002m | 22_AbsHum_015m | 23_Mix Ratio_002m | 24_Mix Ratio_015m | 27_VaporPr_002m | 28_VaporPr_015m | 34_Precip_In | 36_BarPres_In |
|---|---|---|---|---|---|---|---|---|---|
| Hour | PERCENT | G/M3 | G/M3 | COUNT | COUNT | KPa | KPa | INCHES | INHG |
| 00:00 | 98.5 | 18.3 | 18.5 | 0.016043 | 0.016289 | 24.9 | 25.2 | .00 | 29.20 |
| 01:00 | 98.5 | 18.1 | 18.4 | 0.015858 | 0.016177 | 24.6 | 25.1 | .00 | 29.19 |
| 02:00 | 98.5 | 17.9 | 18.4 | 0.015744 | 0.016133 | 24.4 | 25.0 | .00 | 29.17 |
| 03:00 | 98.5 | 17.8 | 18.2 | 0.015627 | 0.016005 | 24.2 | 24.8 | .00 | 29.18 |
| 04:00 | 98.5 | 18.0 | 18.4 | 0.015788 | 0.016198 | 24.5 | 25.1 | .00 | 29.18 |
| 05:00 | 98.5 | 18.0 | 18.2 | 0.01576 | 0.015958 | 24.4 | 24.7 | .00 | 29.17 |
| 06:00 | 98.5 | 18.2 | 18.2 | 0.015981 | 0.016 | 24.8 | 24.8 | .00 | 29.19 |
| 07:00 | 98.5 | 18.5 | 18.5 | 0.01627 | 0.016231 | 25.2 | 25.1 | .00 | 29.18 |
| 08:00 | 98.5 | 19.0 | 19.3 | 0.016774 | 0.016985 | 26.0 | 26.3 | .00 | 29.19 |
| 09:00 | 98.5 | 19.2 | 19.4 | 0.016921 | 0.017123 | 26.2 | 26.5 | .00 | 29.20 |
| 10:00 | 98.4 | 19.6 | 19.9 | 0.017374 | 0.017641 | 26.9 | 27.3 | .02 | 29.20 |
| 11:00 | 97.7 | 19.8 | 20.9 | 0.017549 | 0.018529 | 27.1 | 28.6 | .00 | 29.21 |
| 12:00 | 96.5 | 19.7 | 21.2 | 0.017481 | 0.018927 | 27.0 | 29.2 | .00 | 29.20 |
| 13:00 | 94.9 | 19.8 | 20.6 | 0.017614 | 0.018304 | 27.2 | 28.3 | .00 | 29.19 |
| 14:00 | 80.5 | 18.9 | 19.1 | 0.016902 | 0.017073 | 26.1 | 26.4 | .00 | 29.16 |
| 15:00 | 65.8 | 17.9 | 17.8 | 0.016059 | 0.01601 | 24.8 | 24.8 | .00 | 29.14 |
| 16:00 | 59.1 | 17.0 | 16.6 | 0.015261 | 0.014921 | 23.6 | 23.1 | .00 | 29.12 |
| 17:00 | 59.9 | 16.9 | 16.9 | 0.015251 | 0.015257 | 23.6 | 23.6 | .00 | 29.10 |
| 18:00 | 58.2 | 16.6 | 16.7 | 0.014989 | 0.01507 | 23.2 | 23.3 | .00 | 29.09 |
| 19:00 | 63.4 | 17.9 | 17.4 | 0.016079 | 0.015667 | 24.8 | 24.2 | .00 | 29.08 |
| 20:00 | 71.7 | 19.0 | 17.3 | 0.016965 | 0.015468 | 26.1 | 23.9 | .00 | 29.08 |
| 21:00 | 81.6 | 18.7 | 17.1 | 0.016631 | 0.015196 | 25.7 | 23.5 | .00 | 29.09 |
| 22:00 | 89.1 | 18.3 | 17.7 | 0.016151 | 0.015616 | 24.9 | 24.1 | .00 | 29.10 |
| 23:00 | 97.7 | 18.1 | 19.1 | 0.015943 | 0.016874 | 24.6 | 26.0 | .00 | 29.11 |
| Avg | 87.5 | 18.4 | 18.5 | 0.016292 | 0.016402 | 25.2 | 25.4 | .00 | 29.16 |
| Max | 98.5 | 19.8 | 21.2 | 0.017614 | 0.018927 | 27.2 | 29.2 | .02 | 29.21 |
| Hr. of Max | 09 | 13 | 12 | 13 | 12 | 13 | 12 | 10 | 11 |
| Min | 58.2 | 16.6 | 16.6 | 0.014989 | 0.014921 | 23.2 | 23.1 | .00 | 29.08 |
| Count | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Total | | | | | | | | | |

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OAK RIDGE NATIONAL LABORATORY
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# Daily Summary Report

Site: Tower "D" (1000 Area)

7/15/2017

Interval: 001h

| | 37_BarPres_Mb | 38_SolarRad_Wm2 | 41_WDir_035m | 42_WDir_060m | 46_SWDir_015m | 47_SWDir_060m | 51_Sigma_035m | 52_Sigma_060m | 53_SSigma_015m |
|---|---|---|---|---|---|---|---|---|---|
| Hour | KPa | W/M2 | DEG | DEG | DEG | DEG | DEG | DEG | DEG |
| 00:00 | 988.8 | -1.5 | 223.8 | 274.1 | 241.8 | 266.7 | 14.2 | 18.0 | 15.7 |
| 01:00 | 988.5 | -1.5 | 216.5 | 239.1 | 251.5 | 234.3 | 17.7 | 18.2 | 21.9 |
| 02:00 | 988.0 | -1.5 | 239.4 | 187.2 | 265.6 | 185.0 | 20.4 | 20.4 | 32.8 |
| 03:00 | 988.2 | -1.4 | 236.8 | 193.2 | 235.0 | 188.9 | 14.6 | 11.3 | 45.9 |
| 04:00 | 988.0 | -1.4 | 240.1 | 217.8 | 250.7 | 213.3 | 11.6 | 9.6 | 14.6 |
| 05:00 | 988.0 | -1.4 | 237.1 | 235.2 | 236.8 | 231.3 | 14.2 | 12.4 | 34.0 |
| 06:00 | 988.4 | 2.0 | 242.1 | 240.2 | 227.0 | 235.9 | 12.7 | 9.5 | 18.6 |
| 07:00 | 988.3 | 48.0 | 230.7 | 243.6 | 219.2 | 239.3 | 10.0 | 9.3 | 18.5 |
| 08:00 | 988.7 | 93.0 | 213.9 | 216.0 | 205.1 | 211.9 | 16.7 | 12.0 | 26.2 |
| 09:00 | 989.0 | 61.7 | 227.9 | 220.1 | 216.7 | 216.2 | 19.9 | 12.8 | 25.5 |
| 10:00 | 988.9 | 189.4 | 192.0 | 187.2 | 193.3 | 184.0 | 37.2 | 39.3 | 38.3 |
| 11:00 | 989.1 | 257.5 | 223.0 | 216.5 | 209.0 | 211.6 | 29.9 | 28.0 | 28.6 |
| 12:00 | 988.9 | 183.8 | 239.0 | 231.4 | 232.8 | 228.1 | 22.8 | 17.1 | 33.9 |
| 13:00 | 988.4 | 179.8 | 248.1 | 247.0 | 242.4 | 243.6 | 29.0 | 26.5 | 31.4 |
| 14:00 | 987.5 | 866.4 + | 272.4 | 270.8 | 260.1 | 265.0 | 53.5 | 48.4 | 56.6 |
| 15:00 | 986.9 | 927.5 | 252.7 | 252.0 | 243.0 | 245.9 | 49.2 | 42.7 | 52.8 |
| 16:00 | 986.1 | 655.1 | 246.0 | 241.1 | 238.9 | 237.1 | 19.2 | 18.1 | 26.0 |
| 17:00 | 985.6 | 469.9 | 262.8 | 263.5 | 251.1 | 258.3 | 24.2 | 19.4 | 31.8 |
| 18:00 | 985.1 | 383.7 | 276.1 | 270.2 | 261.8 | 265.3 | 25.2 | 22.2 | 33.8 |
| 19:00 | 984.9 | 190.4 | 263.7 | 262.0 | 263.4 | 256.8 | 17.2 | 13.9 | 22.5 |
| 20:00 | 984.7 | 27.3 | 255.1 | 266.6 | 287.7 | 261.3 | 8.6 | 9.5 | 11.4 |
| 21:00 | 985.1 | -.7 | 234.8 | 247.4 | 290.8 | 241.7 | 14.7 | 9.8 | 20.8 |
| 22:00 | 985.5 | -1.4 | 253.4 | 225.8 | 266.4 | 222.5 | 16.4 | 9.9 | 17.1 |
| 23:00 | 985.7 | -1.4 | 236.5 | 235.8 | 252.4 | 231.1 | 14.0 | 8.2 | 36.8 |
| Avg | 987.3 | 188.5 | 240.0 | 237.0 | 243.0 | 232.0 | 21.4 | 18.6 | 29.0 |
| Max | 989.1 | 927.5 | 276.1 | 274.1 | 290.8 | 266.7 | 53.5 | 48.4 | 56.6 |
| Hr. of Max | 11 | 15 | 18 | 00 | 21 | 00 | 14 | 14 | 14 |
| Min | 984.7 | -1.5 | 192.0 | 187.2 | 193.3 | 184.0 | 8.6 | 8.2 | 11.4 |
| Count | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Total | | | | | | | | | |

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# Daily Summary Report

Site: Tower "D" (1000 Area)

7/15/2017

Interval: 001h

| | 54_SSigma_060m | 56_RWSpd_035m | 57_RWSpd_060m | 59_WSpd_035m | 60_WSpd_060m | 66_HSSpd_015m | 67_HSSpd_060m | 70_WElev_015m | 71_WElev_060m |
|---|---|---|---|---|---|---|---|---|---|
| Hour | DEG | MPH | MPH | MPH | MPH | MPH | MPH | DEG | DEG |
| 00:00 | 19.4 | 1.9 | 1.9 | 2.0 | 2.0 | 1.9 | 2.1 | -1.6 | .5 |
| 01:00 | 18.5 | 1.6 | 1.5 | 1.7 | 1.7 | 1.8 | 1.9 | .0 | -.6 |
| 02:00 | 35.4 | .9 | .9 | 1.2 | 1.0 | 1.4 | 1.3 | 1.6 | -1.7 |
| 03:00 | 11.4 | 2.1 | 3.2 | 2.2 | 3.2 | 1.9 | 3.4 | 1.6 | -1.0 |
| 04:00 | 9.7 | 3.6 | 4.7 | 3.7 | 5.0 | 2.5 | 5.3 | -1.6 | -1.3 |
| 05:00 | 12.6 | 2.0 | 3.0 | 2.2 | 3.3 | 1.5 | 3.5 | .2 | .5 |
| 06:00 | 9.7 | 2.6 | 3.6 | 2.7 | 3.8 | 1.7 | 4.0 | .1 | -.9 |
| 07:00 | 9.3 | 2.7 | 3.3 | 2.8 | 3.4 | 2.1 | 3.7 | .7 | -1.9 |
| 08:00 | 12.2 | 1.9 | 2.6 | 2.1 | 2.7 | 2.0 | 2.9 | 3.8 | -1.1 |
| 09:00 | 13.1 | 1.9 | 2.6 | 2.0 | 2.6 | 1.9 | 2.9 | 2.4 | -.7 |
| 10:00 | 40.4 | .9 | 1.0 | 1.3 | 1.4 | 1.6 | 1.8 | 4.6 | 2.8 |
| 11:00 | 27.7 | 1.6 | 1.8 | 2.0 | 2.2 | 2.2 | 2.5 | .3 | -6.6 |
| 12:00 | 17.8 | 2.2 | 2.6 | 2.3 | 2.7 | 2.3 | 3.0 | 1.8 | -2.9 |
| 13:00 | 25.5 | 4.0 | 4.6 | 4.8 | 5.4 | 4.1 | 5.8 | -1.5 | -2.6 |
| 14:00 | 46.7 | 3.3 | 3.6 | 4.6 | 5.0 | 4.3 | 5.6 | -3.9 | -3.8 |
| 15:00 | 40.6 | 2.9 | 3.5 | 3.9 | 4.5 | 3.8 | 5.0 | 1.4 | 3.6 |
| 16:00 | 18.2 | 4.8 | 5.1 | 5.1 | 5.5 | 4.7 | 6.0 | .8 | -4.2 |
| 17:00 | 19.2 | 3.8 | 4.4 | 4.4 | 4.9 | 3.9 | 5.3 | .6 | -1.9 |
| 18:00 | 22.9 | 3.1 | 3.6 | 3.4 | 3.9 | 3.3 | 4.2 | 1.9 | 4.8 |
| 19:00 | 13.9 | 2.7 | 3.4 | 2.9 | 3.5 | 2.1 | 3.8 | .0 | .8 |
| 20:00 | 10.0 | 1.7 | 2.4 | 1.8 | 2.5 | 1.3 | 2.6 | -3.3 | 1.5 |
| 21:00 | 10.7 | .8 | 1.5 | .8 | 1.5 | 1.2 | 1.7 | -.3 | 1.9 |
| 22:00 | 11.4 | 1.2 | 1.8 | 1.2 | 1.9 | 1.5 | 2.0 | 1.2 | .7 |
| 23:00 | 8.4 | 1.9 | 2.5 | 1.9 | 2.5 | 1.5 | 2.7 | .0 | 1.4 |
| Avg | 19.4 | .0 | .0 | 2.6 | 3.2 | 2.4 | 3.5 | .5 | -.5 |
| Max | 46.7 | 4.8 | 5.1 | 5.1 | 5.5 | 4.7 | 6.0 | 4.6 | 4.8 |
| Hr. of Max | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 10 | 18 |
| Min | 8.4 | .8 | .9 | .8 | 1.0 | 1.2 | 1.3 | -3.9 | -6.6 |
| Count | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Total | | | | | | | | | |

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# Daily Summary Report

Site: Tower "D" (1000 Area)

7/15/2017

Interval: 001h

| | 72_VSSpd_015m | 73_VSSpd_060m | 80_PkWsH_035m | 81_PkWsH_060m | 82_SPkWsH_015m | 84_SigPhi_015m | 85_SigPhi_060m | 86_SonicTemp_015m | 87_SonicTemp_060m |
|---|---|---|---|---|---|---|---|---|---|
| Hour | MPH | MPH | MPH | MPH | MPH | DEG | DEG | DEGC | DEGC |
| 00:00 | -.06 | .01 | 3.4 | 5.3 | 3.1 | 5.9 | 9.3 | 23.6 | 24.0 |
| 01:00 | -.01 | -.02 | 4.4 | 6.4 | 3.2 | 6.7 | 6.4 | 23.5 | 23.9 |
| 02:00 | .00 | -.03 | 2.3 | 3.0 | 3.2 | 8.0 | 8.4 | 23.4 | 23.9 |
| 03:00 | .00 | -.08 | 5.0 | 6.9 | 4.1 | 7.6 | 4.6 | 23.2 | 23.9 |
| 04:00 | -.09 | -.12 | 8.2 | 8.7 | 4.8 | 7.2 | 3.5 | 23.5 | 23.6 |
| 05:00 | .00 | .02 | 5.7 | 8.9 | 4.0 | 12.9 | 5.4 | 23.2 | 23.3 |
| 06:00 | -.03 | -.06 | 6.2 | 9.6 | 4.4 | 8.7 | 3.7 | 23.2 | 23.3 |
| 07:00 | .00 | -.13 | 4.4 | 5.7 | 3.7 | 9.2 | 3.6 | 23.5 | 23.6 |
| 08:00 | .12 | -.08 | 3.9 | 5.5 | 4.1 | 17.2 | 9.9 | 24.2 | 23.6 |
| 09:00 | .03 | -.08 | 3.9 | 5.3 | 4.1 | 18.0 | 11.7 | 24.4 | 23.8 |
| 10:00 | .13 | .10 | 5.5 | 6.4 | 3.7 | 22.3 | 25.9 | 25.0 | 24.4 |
| 11:00 | .00 | -.30 | 4.4 | 4.4 | 4.6 | 20.1 | 15.4 | 25.8 | 25.1 |
| 12:00 | -.01 | -.13 | 4.8 | 6.0 | 5.3 | 20.2 | 14.5 | 26.3 | 25.6 |
| 13:00 | -.20 | -.23 | 11.9 | 14.0 | 12.6 | 14.6 | 10.2 | 26.0 | 25.4 |
| 14:00 | -.44 | -.73 | 12.1 | 11.9 | 12.2 | 22.8 | 21.8 | 26.8 | 26.0 |
| 15:00 | -.02 | .21 | 10.3 | 9.8 | 10.5 | 24.8 | 22.3 | 28.3 | 27.4 |
| 16:00 | -.06 | -.54 | 16.9 | 15.1 | 10.9 | 19.3 | 16.8 | 28.7 | 27.9 |
| 17:00 | -.13 | -.33 | 13.5 | 8.9 | 9.0 | 20.7 | 16.9 | 29.1 | 28.3 |
| 18:00 | .01 | .18 | 10.8 | 11.4 | 7.1 | 20.9 | 19.9 | 29.3 | 28.6 |
| 19:00 | -.05 | -.03 | 8.9 | 8.7 | 6.0 | 16.3 | 10.9 | 29.0 | 28.4 |
| 20:00 | -.09 | .06 | 3.9 | 4.6 | 2.8 | 6.2 | 6.9 | 27.4 | 28.0 |
| 21:00 | .00 | .05 | 2.5 | 5.5 | 2.1 | 5.6 | 3.9 | 25.8 | 27.2 |
| 22:00 | .03 | .03 | 3.2 | 3.7 | 4.2 | 6.2 | 3.7 | 25.0 | 26.3 |
| 23:00 | -.01 | .07 | 5.7 | 5.7 | 3.6 | 5.1 | 2.8 | 24.6 | 25.2 |
| Avg | -.04 | -.09 | 6.7 | 7.6 | 5.6 | 13.6 | 10.8 | 25.5 | 25.4 |
| Max | .13 | .21 | 16.9 | 15.1 | 12.6 | 24.8 | 25.9 | 29.3 | 28.6 |
| Hr. of Max | 10 | 15 | 16 | 16 | 13 | 15 | 10 | 18 | 18 |
| Min | -.44 | -.73 | 2.3 | 3.0 | 2.1 | 5.1 | 2.8 | 23.2 | 23.3 |
| Count | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Total | | | | | | | | | |