

TABLE 93. RELATION BETWEEN DRY AND WET BULB TEMPERATURES AND EFFECTIVE TEMPERATURE FOR STILL AIR

| Dry Bulb Temp. | Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|----------------|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                | 25                   | 30   | 35   | 40   | 45   | 49   | 52   | 54   | 56   | 58   | 60   | 62   | 64   | 66   | 68   | 70    |
| 30             | 30.5                 | 30.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 35             | 34.4                 | 34.7 | 35.0 |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 40             | 38.6                 | 39.2 | 40.0 |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 45             | 42.1                 | 42.9 | 43.8 | 45.0 |      |      |      |      |      |      |      |      |      |      |      |       |
| 50             | 46.3                 | 47.3 | 48.6 | 49.7 |      |      |      |      |      |      |      |      |      |      |      |       |
| 54             | 48.8                 | 49.9 | 51.1 | 52.4 | 53.3 | 54.0 |      |      |      |      |      |      |      |      |      |       |
| 57             |                      | 51.7 | 53.0 | 54.1 | 55.1 | 55.9 | 56.6 |      |      |      |      |      |      |      |      |       |
| 60             |                      | 53.4 | 54.7 | 55.9 | 56.9 | 57.6 | 58.3 | 59.1 | 60.0 |      |      |      |      |      |      |       |
| 64             |                      | 54.5 | 55.8 | 57.0 | 58.0 | 58.7 | 59.4 | 60.2 | 61.1 | 62.0 |      |      |      |      |      |       |
| 66             |                      |      | 57.9 | 59.1 | 60.0 | 60.8 | 61.5 | 62.2 | 63.1 | 64.0 | 65.0 | 66.0 |      |      |      |       |
| 68             |                      |      | 58.9 | 60.1 | 61.1 | 61.8 | 62.5 | 63.3 | 64.1 | 65.0 | 66.0 | 66.9 | 67.9 | 68.9 | 70.9 |       |
| 70             |                      |      | 59.9 | 61.1 | 62.0 | 62.7 | 63.4 | 64.2 | 65.1 | 66.0 | 66.9 | 67.8 | 68.8 | 69.9 | 70.9 |       |
| 72             |                      |      | 60.9 | 62.0 | 63.0 | 63.7 | 64.4 | 65.2 | 66.0 | 66.9 | 67.8 | 68.7 | 69.7 | 70.7 | 71.8 | 72.9  |
| 74             |                      |      |      | 63.0 | 64.0 | 64.6 | 65.4 | 66.1 | 66.9 | 67.8 | 68.6 | 69.6 | 70.4 | 71.3 | 72.3 | 73.3  |
| 76             |                      |      |      | 64.8 | 65.7 | 66.3 | 67.1 | 67.9 | 68.6 | 69.6 | 70.4 | 71.2 | 72.1 | 73.1 | 74.1 | 75.2  |
| 78             |                      |      |      | 65.6 | 66.5 | 67.2 | 67.9 | 68.7 | 69.5 | 70.4 | 71.2 | 72.1 | 73.2 | 74.2 | 75.2 | 76.3  |
| 80             |                      |      |      | 67.8 | 68.4 | 69.1 | 70.0 | 70.7 | 71.5 | 72.4 | 73.2 | 74.2 | 75.2 | 76.2 | 77.4 | 79.1  |
| 83             |                      |      |      | 69.0 | 69.7 | 70.3 | 71.1 | 71.8 | 72.6 | 73.4 | 74.3 | 75.3 | 76.2 | 77.3 | 78.4 | 80.0  |
| 86             |                      |      |      |      | 71.1 | 71.8 | 72.6 | 73.3 | 74.1 | 74.9 | 75.8 | 76.7 | 77.6 | 78.6 | 79.6 | 81.3  |
| 90             |                      |      |      |      |      | 73.6 | 74.3 | 75.0 | 75.7 | 76.6 | 77.3 | 78.1 | 78.8 | 79.7 | 80.6 | 82.4  |
| 95             |                      |      |      |      |      |      | 75.8 | 76.6 | 77.3 | 78.0 | 78.7 | 79.5 | 80.3 | 81.1 | 81.9 | 83.8  |
| 100            |                      |      |      |      |      |      |      | 78.0 | 78.7 | 79.5 | 80.2 | 80.7 | 81.6 | 82.4 | 83.3 | 85.0  |
| 105            |                      |      |      |      |      |      |      |      | 80.2 | 80.7 | 81.1 | 81.6 | 82.4 | 83.3 | 84.1 | 85.6  |
| 110            |                      |      |      |      |      |      |      |      |      | 84.1 | 84.8 | 85.6 | 86.4 | 87.3 | 88.7 | 90.3  |
| 120            |                      |      |      |      |      |      |      |      |      |      | 88.7 | 89.3 | 90.3 | 91.1 | 92.8 | 95.7  |
|                |                      |      |      |      |      |      |      |      |      |      |      | 95.7 | 96.3 | 97.0 | 98.8 | 102.6 |

TABLE 94. RELATION BETWEEN DRY AND WET BULB TEMPERATURES AND EFFECTIVE TEMPERATURE FOR 50 FT. AIR VELOCITY

| Dry Bulb Temp. | Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|----------------|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                | 25                   | 30   | 35   | 40   | 45   | 49   | 52   | 54   | 56   | 58   | 60   | 62   | 64   | 66   | 68   | 70    |
| 30             |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 35             | 31.7                 | 31.3 | 31.0 |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 40             | 35.9                 | 36.1 | 36.5 | 37.2 |      |      |      |      |      |      |      |      |      |      |      |       |
| 45             |                      | 41.4 | 41.6 | 42.2 | 43.1 |      |      |      |      |      |      |      |      |      |      |       |
| 50             |                      | 45.0 | 45.3 | 46.0 | 46.8 | 47.6 | 48.3 |      |      |      |      |      |      |      |      |       |
| 54             |                      |      | 47.9 | 48.8 | 49.8 | 50.6 | 51.1 | 51.6 |      |      |      |      |      |      |      |       |
| 57             |                      |      |      | 50.3 | 51.2 | 52.2 | 52.9 | 53.5 | 54.0 | 54.5 | 55.0 | 55.5 | 56.3 | 57.0 | 57.8 |       |
| 60             |                      |      |      | 51.4 | 52.7 | 54.0 | 54.4 | 55.0 | 55.7 | 56.2 | 56.8 | 57.6 | 58.4 | 59.1 | 60.1 | 62.4  |
| 64             |                      |      |      |      | 54.0 | 55.0 | 55.7 | 56.2 | 56.8 | 57.3 | 57.8 | 58.6 | 59.5 | 60.3 | 61.0 | 62.4  |
| 66             |                      |      |      |      | 55.0 | 55.8 | 56.0 | 56.5 | 57.0 | 57.5 | 58.0 | 58.6 | 59.5 | 60.3 | 61.0 | 62.4  |
| 68             |                      |      |      |      | 56.5 | 57.4 | 58.3 | 58.5 | 59.4 | 60.0 | 60.5 | 61.4 | 62.3 | 63.2 | 64.7 |       |
| 70             |                      |      |      |      | 58.2 | 59.0 | 59.7 | 60.2 | 60.8 | 61.5 | 62.3 | 63.2 | 64.0 | 65.0 | 66.0 | 67.1  |
| 72             |                      |      |      |      | 59.5 | 60.5 | 61.0 | 61.5 | 62.3 | 63.2 | 64.0 | 65.2 | 66.0 | 67.0 | 68.0 | 69.4  |
| 74             |                      |      |      |      |      | 61.5 | 62.0 | 62.6 | 63.2 | 63.7 | 64.4 | 65.3 | 66.0 | 67.0 | 68.0 | 69.3  |
| 76             |                      |      |      |      |      | 62.7 | 63.4 | 64.0 | 64.4 | 64.8 | 65.5 | 66.3 | 67.0 | 68.0 | 68.9 | 70.0  |
| 78             |                      |      |      |      |      | 64.2 | 64.7 | 65.2 | 65.5 | 65.9 | 66.5 | 67.4 | 68.2 | 69.1 | 69.9 | 71.0  |
| 80             |                      |      |      |      |      | 65.2 | 65.7 | 66.2 | 66.6 | 67.3 | 67.8 | 68.5 | 69.5 | 70.3 | 71.3 | 72.4  |
| 83             |                      |      |      |      |      | 66.6 | 67.2 | 67.8 | 68.6 | 69.4 | 70.3 | 71.0 | 72.0 | 73.0 | 73.9 | 75.0  |
| 86             |                      |      |      |      |      | 67.8 | 68.8 | 69.5 | 70.3 | 70.8 | 71.6 | 72.4 | 73.1 | 74.0 | 75.0 | 75.9  |
| 90             |                      |      |      |      |      |      | 71.5 | 74.0 | 74.5 | 75.0 | 75.6 | 76.2 | 77.0 | 77.7 | 78.5 | 79.4  |
| 95             |                      |      |      |      |      |      |      | 77.3 | 77.4 | 78.3 | 78.8 | 79.5 | 80.4 | 81.0 | 81.8 | 83.6  |
| 100            |                      |      |      |      |      |      |      |      | 78.5 | 78.8 | 79.4 | 79.8 | 80.5 | 81.4 | 82.4 | 83.3  |
| 105            |                      |      |      |      |      |      |      |      |      | 79.7 | 80.5 | 80.9 | 81.7 | 82.6 | 83.6 | 84.5  |
| 110            |                      |      |      |      |      |      |      |      |      |      | 85.0 | 85.7 | 86.5 | 87.3 | 88.5 | 90.0  |
| 120            |                      |      |      |      |      |      |      |      |      |      |      | 88.5 | 89.4 | 90.3 | 91.3 | 92.5  |
|                |                      |      |      |      |      |      |      |      |      |      |      |      | 94.3 | 95.3 | 96.3 | 100.0 |
|                |                      |      |      |      |      |      |      |      |      |      |      |      |      | 98.5 | 99.5 | 101.1 |
|                |                      |      |      |      |      |      |      |      |      |      |      |      |      |      | 98.5 | 102.3 |