# Morrisville State College - School of Agriculture and Natural Resources
# Weather Data from the Fully-automated Weather Station at the Free-stall Dairy Complex
# Daily Summaries for the Month of December 2003

1/3/2005 17:07

| Date | Day of Week | $T_{avg.}$ (ºF) | $T_{max.}$ (ºF) | Time of $T_{max.}$ | $T_{min.}$ (ºF) | Time of $T_{min.}$ | $RH_{avg.}$ (%) | $RH_{max.}$ (%) | Time of $RH_{max.}$ | $RH_{min.}$ (%) | Time of $RH_{min.}$ | $Wind_{avg.}$ (mph) | $Wind_{max.}$ (mph) | Time of $Wind_{max.}$ | Solar $Rad_{avg.}$ ($W/m^2$) | RainFall (in) | GDD (Base T=50ºF) | Cum. GDD | $ET_0$ (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| December 1, 2003 | Monday | 31.2 | 40.6 | 3:38 AM | 24.7 | 11:42 PM | 74.8 | 96.5 | 4:22 PM | 53.0 | 11:24 AM | 12.1 | 36.1 | 11:42 PM | 47.40 | 0.03 | 0.00 | 0 | 0.02 |
| December 2, 2003 | Tuesday | 17.0 | 25.1 | 12:08 AM | 11.7 | 11:56 PM | 71.8 | 94.9 | 12:57 AM | 48.7 | 5:24 AM | 10.9 | 29.6 | 2:26 AM | 57.82 | 0.00 | 0.00 | 0 | 0.01 |
| December 3, 2003 | Wednesday | 14.1 | 20.4 | 11:50 PM | 5.0 | 7:50 AM | 79.0 | 91.8 | 2:13 AM | 66.1 | 1:28 PM | 3.9 | 17.8 | 2:50 PM | 66.41 | 0.00 | 0.00 | 0 | 0.01 |
| December 4, 2003 | Thursday | 24.0 | 28.9 | 2:48 PM | 13.4 | 11:56 PM | 86.0 | 95.9 | 11:39 PM | 76.1 | 4:21 AM | 6.5 | 17.8 | 6:07 AM | 28.83 | 0.00 | 0.00 | 0 | 0.01 |
| December 5, 2003 | Friday | 15.6 | 26.2 | 1:43 PM | 4.8 | 7:48 AM | 69.4 | 94.1 | 10:04 AM | 44.7 | 5:31 PM | 4.4 | 17.1 | 8:13 PM | 61.42 | 0.05 | 0.00 | 0 | 0.01 |
| December 6, 2003 | Saturday | 16.0 | 20.7 | 4:42 PM | 10.4 | 11:38 PM | 75.1 | 95.3 | 9:17 PM | 55.0 | 12:12 AM | 7.6 | 20.0 | 6:19 PM | 35.59 | 0.00 | 0.00 | 0 | 0.01 |
| December 7, 2003 | Sunday | 14.8 | 17.9 | 1:00 PM | 9.6 | 1:31 AM | 82.4 | 91.7 | 1:50 AM | 73.1 | 3:06 PM | 10.1 | 23.9 | 1:50 PM | 59.64 | 0.00 | 0.00 | 0 | 0.01 |
| December 8, 2003 | Monday | 16.0 | 27.0 | 2:29 PM | 4.5 | 7:07 AM | 76.7 | 94.6 | 11:38 PM | 58.8 | 1:53 PM | 3.8 | 16.7 | 10:21 AM | 88.80 | 0.01 | 0.00 | 0 | 0.02 |
| December 9, 2003 | Tuesday | 23.8 | 31.3 | 11:25 PM | 11.6 | 12:43 AM | 80.0 | 95.3 | 7:54 AM | 64.8 | 2:37 PM | 4.1 | 13.5 | 11:57 PM | 37.51 | 0.00 | 0.00 | 0 | 0.01 |
| December 10, 2003 | Wednesday | 35.7 | 41.1 | 11:59 PM | 30.7 | 12:12 AM | 78.2 | 98.1 | 11:58 PM | 58.3 | 2:17 PM | 11.7 | 30.3 | 5:20 PM | 46.71 | 0.02 | 0.00 | 0 | 0.03 |
| December 11, 2003 | Thursday | 38.1 | 45.2 | 3:05 AM | 27.7 | 11:58 PM | 85.6 | 99.4 | 11:03 AM | 71.8 | 9:26 PM | 11.1 | 33.6 | 6:41 PM | 12.17 | 0.79 | 0.00 | 0 | 0.00 |
| December 12, 2003 | Friday | 24.5 | 27.9 | 12:14 AM | 17.9 | 11:58 PM | 77.7 | 93.0 | 9:19 PM | 62.4 | 2:46 PM | 8.9 | 31.0 | 12:30 AM | 45.04 | 0.00 | 0.00 | 0 | 0.01 |
| December 13, 2003 | Saturday | 11.9 | 19.0 | 2:13 PM | 4.8 | 8:12 PM | 74.3 | 91.3 | 6:26 AM | 57.3 | 2:18 PM | 4.9 | 17.5 | 2:17 PM | 56.02 | 0.00 | 0.00 | 0 | 0.01 |
| December 14, 2003 | Sunday | 15.1 | 19.8 | 11:56 PM | 5.5 | 12:06 AM | 82.4 | 96.1 | 11:53 PM | 68.8 | 8:31 AM | 7.4 | 19.2 | 5:25 PM | 13.93 | 0.00 | 0.00 | 0 | 0.00 |
| December 15, 2003 | Monday | 23.4 | 27.5 | 5:58 PM | 19.4 | 12:01 AM | 86.9 | 96.7 | 12:39 AM | 77.0 | 5:23 PM | 10.7 | 30.0 | 5:03 PM | 25.62 | 0.00 | 0.00 | 0 | 0.01 |
| December 16, 2003 | Tuesday | 27.8 | 45.8 | 2:46 PM | 9.6 | 6:29 AM | 69.9 | 97.5 | 3:55 AM | 42.3 | 2:08 PM | 6.9 | 21.4 | 7:45 PM | 80.80 | 0.27 | 0.00 | 0 | 0.03 |
| December 17, 2003 | Wednesday | 31.1 | 37.4 | 10:15 AM | 24.7 | 10:17 PM | 88.2 | 98.8 | 1:29 PM | 77.5 | 12:09 AM | 3.3 | 18.2 | 1:51 AM | 12.48 | 0.07 | 0.00 | 0 | 0.00 |
| December 18, 2003 | Thursday | 24.6 | 26.5 | 12:55 AM | 22.6 | 11:43 PM | 88.1 | 96.7 | 3:08 AM | 79.4 | 1:28 PM | 11.9 | 40.3 | 5:55 AM | 31.54 | 0.00 | 0.00 | 0 | 0.01 |
| December 19, 2003 | Friday | 23.2 | 28.1 | 1:07 PM | 15.1 | 8:31 AM | 86.3 | 95.3 | 7:51 AM | 77.3 | 12:48 PM | 4.4 | 21.0 | 12:14 AM | 55.67 | 0.01 | 0.00 | 0 | 0.01 |
| December 20, 2003 | Saturday | 18.8 | 24.6 | 4:21 AM | 12.0 | 11:44 PM | 85.2 | 94.4 | 4:17 AM | 76.0 | 12:44 PM | 6.5 | 17.5 | 1:00 PM | 48.85 | 0.00 | 0.00 | 0 | 0.01 |
| December 21, 2003 | Sunday | 21.5 | 32.5 | 2:38 PM | 10.3 | 1:16 AM | 70.8 | 94.8 | 5:06 AM | 46.9 | 2:39 PM | 7.9 | 24.2 | 10:38 AM | 59.15 | 0.00 | 0.00 | 0 | 0.02 |
| December 22, 2003 | Monday | 34.1 | 42.6 | 1:56 PM | 24.6 | 12:27 AM | 58.7 | 70.1 | 8:41 PM | 47.2 | 12:26 PM | 7.6 | 19.2 | 3:27 AM | 61.40 | 0.01 | 0.00 | 0 | 0.02 |
| December 23, 2003 | Tuesday | 43.0 | 54.1 | 1:35 PM | 35.3 | 3:32 AM | 72.2 | 93.2 | 7:06 AM | 51.2 | 10:36 PM | 7.2 | 23.9 | 11:31 AM | 68.07 | 0.00 | 0.00 | 0 | 0.03 |
| December 24, 2003 | Wednesday | 39.1 | 47.5 | 12:23 PM | 31.8 | 11:54 PM | 77.3 | 100.0 | 8:50 AM | 54.5 | 12:00 AM | 5.6 | 23.9 | 1:26 PM | 13.58 | 0.23 | 0.00 | 0 | 0.00 |
| December 25, 2003 | Thursday | 30.0 | 33.0 | 1:30 PM | 26.9 | 11:19 PM | 84.3 | 99.9 | 3:36 AM | 68.7 | 1:32 PM | 5.0 | 25.0 | 9:47 PM | 48.27 | 0.01 | 0.00 | 0 | 0.01 |
| December 26, 2003 | Friday | 29.6 | 33.7 | 3:17 PM | 26.6 | 7:01 AM | 71.9 | 95.0 | 11:04 AM | 48.8 | 4:03 PM | 13.0 | 33.9 | 2:25 PM | 49.90 | 0.00 | 0.00 | 0 | 0.01 |
| December 27, 2003 | Saturday | 29.5 | 36.3 | 2:29 PM | 19.0 | 11:51 PM | 77.8 | 97.9 | 10:10 PM | 57.6 | 2:29 PM | 7.0 | 23.2 | 12:02 AM | 88.80 | 0.00 | 0.00 | 0 | 0.02 |
| December 28, 2003 | Sunday | 31.5 | 49.2 | 2:39 PM | 14.5 | 5:27 AM | 57.7 | 97.4 | 6:52 AM | 18.1 | 12:50 PM | 6.3 | 19.6 | 10:50 PM | 91.00 | 0.00 | 0.00 | 0 | 0.04 |
| December 29, 2003 | Monday | 43.6 | 54.3 | 1:25 PM | 29.7 | 7:11 AM | 50.5 | 71.7 | 7:14 AM | 29.3 | 2:45 PM | 9.4 | 22.5 | 3:06 AM | 87.20 | 0.00 | 0.00 | 0 | 0.05 |
| December 30, 2003 | Tuesday | 35.7 | 45.2 | 12:03 AM | 29.8 | 11:16 PM | 70.6 | 95.4 | 9:25 AM | 45.9 | 12:03 AM | 11.0 | 38.6 | 10:02 AM | 24.97 | 0.14 | 0.00 | 0 | 0.01 |
| December 31, 2003 | Wednesday | 33.1 | 40.1 | 7:27 PM | 26.5 | 7:53 AM | 65.1 | 85.9 | 7:57 AM | 44.4 | 7:00 PM | 9.7 | 41.1 | 9:29 PM | 50.81 | 0.00 | 0.00 | 0 | 0.03 |
| **Average (if applicable)** | | **26.4** | | | | | **76.0** | | | | | **7.8** | | | **50.17** | **0.05** | **0.00** | | **0.02** |
| **Minimum (if applicable)** | | **11.9** | **17.9** | **1:00 PM** | **4.5** | **7:07 AM** | **50.5** | **70.1** | **8:41 PM** | **18.1** | **12:50 PM** | **3.3** | **13.5** | **11:57 PM** | **12.17** | | | | |
| Date When Minimum Occurred | | 13-Dec | 7-Dec | | 8-Dec | | 29-Dec | 22-Dec | | 28-Dec | | 17-Dec | 9-Dec | | 11-Dec | | | | |
| **Maximum (if applicable)** | | **43.6** | **54.3** | **1:25 PM** | **35.3** | **3:32 AM** | **88.2** | **100.0** | **8:50 AM** | **79.4** | **1:28 PM** | **13.0** | **41.1** | **9:29 PM** | **91.00** | **0.79** | **0.00** | | **0.05** |
| Date When Minimum Occurred | | 29-Dec | 29-Dec | | 23-Dec | | 17-Dec | 24-Dec | | 18-Dec | | 26-Dec | 31-Dec | | 28-Dec | 11-Dec | 1-Dec | | 29-Dec |
| **Total (if applicable)** | | | | | | | | | | | | | | | | **1.64** | **0.0** | | **0.47** |