

Vegetable Research Farm, New York State Agricultural Experiment Station, Geneva, N.Y.

Daily data for 24 hour period ending at 8.00 A.M. EST

Station number 3031840

October 2009

| Mo. Day | Cl. Day | Air Temp. F | | | Rel. Hum. Pct | | | VPD | Solar Rad | | PPT | Snow | Mi. Wind | Pan |
|------------|------------|-------------|------|------|---------------|------|------|---------------|--------------------------|-------------|-------------|--------|------------|------|
| | | Max | Min | Avg | Max | Min | Avg | Thou In/Hg | Gm Cal/Cm2 Total Diff | Hund Ins | Tnth Ins | 1.5 Ft | In Evap | |
| 1 | 215 | 48 | 41 | 44 | 100 | 76 | 88 | 46 | 93 | 93 | 5 | 0 | 0 | 61 |
| 2 | 216 | 50 | 41 | 45 | 100 | 75 | 87 | 34 | 143 | 137 | 5 | 0 | 0 | 102 |
| 3 | 217 | 56 | 43 | 49 | 100 | 68 | 84 | 29 | 81 | 79 | 55 | 0 | 0 | 1 |
| 4 | 218 | 68 | 45 | 56 | 100 | 86 | 93 | 7 | 305 | 290 | 2 | 0 | 0 | 246 |
| 5 | 219 | 62 | 48 | 55 | 100 | 51 | 75 | 79 | 158 | 153 | 0 | 0 | 0 | 22 |
| 6 | 220 | 61 | 44 | 52 | 100 | 65 | 82 | 74 | 257 | 241 | 1 | 0 | 0 | 59 |
| 7 | 221 | 62 | 45 | 53 | 97 | 62 | 79 | 63 | 288 | 282 | 38 | 0 | 0 | 139 |
| 8 | 222 | 56 | 44 | 50 | 100 | 56 | 78 | 91 | 165 | 156 | 1 | 0 | 0 | 69 |
| 9 | 223 | 62 | 46 | 54 | 93 | 74 | 83 | 68 | 280 | 106 | 1 | 0 | 0 | 214 |
| 10 | 224 | 55 | 45 | 50 | 99 | 55 | 77 | 105 | 58 | 56 | 36 | 0 | 0 | 38 |
| 11 | 225 | 55 | 39 | 47 | 100 | 95 | 97 | 3 | 235 | 79 | 3 | 0 | 0 | 112 |
| 12 | 226 | 51 | 32 | 41 | 100 | 51 | 75 | 51 | 323 | 62 | 0 | 0 | 0 | 119 |
| 13 | 227 | 46 | 33 | 39 | 94 | 34 | 64 | 80 | 137 | 121 | 3 | 0 | 0 | 47 |
| 14 | 228 | 50 | 35 | 42 | 100 | 61 | 80 | 43 | 150 | 118 | 3 | 0 | 0 | 94 |
| 15 | 229 | 42 | 28 | 35 | 100 | 65 | 82 | 36 | 150 | 137 | T | 0 | 0 | 36 |
| 16 | 230 | 38 | 30 | 34 | 100 | 73 | 86 | 16 | 109 | 106 | 5 | 0 | 0 | 50 |
| 17 | 231 | 43 | 32 | 37 | 100 | 61 | 80 | 34 | 168 | 154 | 3 | 0 | 0 | 167 |
| 18 | 232 | 49 | 35 | 42 | 100 | 59 | 79 | 36 | 170 | 159 | T | 0 | 0 | 39 |
| 19 | 233 | 50 | 30 | 40 | 99 | 55 | 77 | 38 | 275 | 269 | 0 | 0 | 0 | 11 |
| 20 | 234 | 55 | 31 | 43 | 86 | 54 | 70 | 61 | 294 | 286 | 0 | 0 | 0 | 111 |
| 21 | 235 | 60 | 49 | 54 | 87 | 48 | 67 | 117 | 103 | 101 | 0 | 0 | 0 | 151 |
| 22 | 236 | 66 | 51 | 58 | 95 | 57 | 76 | 98 | 156 | 152 | 0 | 0 | 0 | 17 |
| 23 | 237 | 67 | 36 | 51 | 98 | 56 | 77 | 98 | 96 | 94 | 13 | 0 | 0 | 55 |
| 24 | 238 | 56 | 36 | 46 | 100 | 45 | 72 | 64 | 75 | 73 | 22 | 0 | 0 | 51 |
| 25 | 239 | 70 | 46 | 58 | 100 | 93 | 96 | 9 | 104 | 101 | 22 | 0 | 0 | 86 |
| 26 | 240 | 60 | 36 | 48 | 100 | 59 | 79 | 52 | 260 | 253 | 0 | 0 | 0 | 69 |
| 27 | 241 | 60 | 37 | 48 | 100 | 51 | 75 | 52 | 271 | 260 | 0 | 0 | 0 | 97 |
| 28 | 242 | 64 | 46 | 55 | 100 | 55 | 77 | 89 | 218 | 214 | 25 | 0 | 0 | 106 |
| 29 | 243 | 55 | 47 | 51 | 100 | 55 | 77 | 79 | 46 | 45 | 106 | 0 | 0 | 0 |
| 30 | 244 | 54 | 47 | 50 | 100 | 94 | 97 | 1 | 202 | 186 | 2 | 0 | 0 | 0 |
| 31 | 245 | 60 | 51 | 55 | 100 | 57 | 78 | 81 | 235 | 193 | 5 | 0 | 0 | 0 |
| Sums | | 1731 | 1249 | 1482 | 3048 | 1946 | 2487 | 1734 | 5605 | 4756 | 356 | 0 | 0 | 2369 |
| Average | | 55.8 | 40.3 | 47.8 | 98.3 | 62.8 | 80.2 | .056 | 180.8 | 153.4 | .11 | .0 | .0 | .076 |

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| | | Soil Temperature F | | | | | | | | | | | | | | | |
|------------|------------|--------------------|------|--------|------|--------|------|---------|------|--------|------|--------|------|--------|------|---------|------|
| | | Sod | | | | | | | | Bare | | | | | | | |
| Mo. Day | Cl. Day | 2 Inch | | 4 Inch | | 8 Inch | | 12 Inch | | 2 Inch | | 4 Inch | | 8 Inch | | 12 Inch | |
| | | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min |
| 1 | 215 | 62 | 47 | 60 | 50 | 58 | 54 | 59 | 56 | 61 | 48 | 59 | 50 | 58 | 53 | 58 | 55 |
| 2 | 216 | 53 | 46 | 53 | 48 | 54 | 52 | 57 | 54 | 52 | 46 | 53 | 48 | 54 | 51 | 56 | 53 |
| 3 | 217 | 57 | 45 | 55 | 48 | 54 | 51 | 55 | 53 | 55 | 46 | 54 | 48 | 53 | 50 | 54 | 52 |
| 4 | 218 | 54 | 48 | 53 | 49 | 54 | 52 | 54 | 53 | 53 | 47 | 53 | 49 | 53 | 50 | 54 | 52 |
| 5 | 219 | 67 | 47 | 63 | 49 | 57 | 52 | 56 | 52 | 65 | 48 | 61 | 50 | 58 | 52 | 56 | 52 |
| 6 | 220 | 62 | 47 | 60 | 49 | 56 | 53 | 57 | 54 | 61 | 48 | 58 | 50 | 57 | 52 | 56 | 54 |
| 7 | 221 | 63 | 44 | 59 | 47 | 55 | 51 | 56 | 53 | 62 | 45 | 58 | 48 | 56 | 50 | 55 | 52 |
| 8 | 222 | 67 | 49 | 62 | 48 | 57 | 50 | 57 | 51 | 66 | 49 | 61 | 48 | 58 | 50 | 57 | 51 |
| 9 | 223 | 57 | 43 | 55 | 45 | 54 | 49 | 55 | 50 | 56 | 44 | 54 | 46 | 54 | 48 | 54 | 50 |
| 10 | 224 | 63 | 47 | 59 | 47 | 55 | 49 | 55 | 50 | 62 | 47 | 58 | 47 | 56 | 48 | 56 | 50 |
| 11 | 225 | 57 | 47 | 56 | 49 | 55 | 52 | 55 | 53 | 56 | 48 | 55 | 49 | 55 | 51 | 62 | 46 |
| 12 | 226 | 61 | 41 | 57 | 44 | 53 | 48 | 53 | 50 | 58 | 43 | 56 | 45 | 54 | 47 | 54 | 49 |
| 13 | 227 | 56 | 32 | 54 | 36 | 51 | 42 | 51 | 45 | 55 | 34 | 53 | 37 | 52 | 41 | 51 | 45 |
| 14 | 228 | 52 | 36 | 49 | 37 | 48 | 42 | 49 | 45 | 50 | 36 | 48 | 38 | 48 | 41 | 48 | 44 |
| 15 | 229 | 51 | 35 | 48 | 37 | 47 | 43 | 48 | 45 | 49 | 36 | 48 | 39 | 48 | 42 | 48 | 44 |
| 16 | 230 | 50 | 30 | 48 | 34 | 47 | 40 | 47 | 43 | 48 | 32 | 47 | 35 | 47 | 38 | 47 | 42 |
| 17 | 231 | 43 | 34 | 42 | 36 | 43 | 40 | 44 | 42 | 42 | 35 | 42 | 36 | 43 | 39 | 43 | 41 |
| 18 | 232 | 51 | 35 | 47 | 37 | 44 | 40 | 44 | 42 | 48 | 36 | 45 | 37 | 44 | 39 | 44 | 41 |
| 19 | 233 | 54 | 34 | 49 | 36 | 45 | 41 | 45 | 42 | 52 | 35 | 47 | 37 | 45 | 40 | 45 | 42 |
| 20 | 234 | 54 | 28 | 50 | 31 | 46 | 37 | 45 | 40 | 52 | 29 | 48 | 32 | 46 | 36 | 45 | 39 |
| 21 | 235 | 57 | 32 | 52 | 32 | 46 | 38 | 47 | 40 | 55 | 32 | 50 | 33 | 47 | 36 | 47 | 39 |
| 22 | 236 | 56 | 46 | 51 | 45 | 49 | 45 | 48 | 45 | 54 | 45 | 51 | 45 | 49 | 45 | 49 | 45 |
| 23 | 237 | 63 | 47 | 57 | 48 | 52 | 48 | 52 | 48 | 61 | 48 | 56 | 48 | 53 | 48 | 52 | 48 |
| 24 | 238 | 59 | 41 | 55 | 43 | 52 | 47 | 52 | 49 | 58 | 42 | 55 | 44 | 53 | 46 | 52 | 48 |
| 25 | 239 | 52 | 41 | 51 | 43 | 50 | 47 | 51 | 48 | 51 | 42 | 51 | 44 | 50 | 46 | 50 | 48 |
| 26 | 240 | 62 | 39 | 58 | 42 | 52 | 47 | 52 | 48 | 60 | 40 | 56 | 43 | 53 | 46 | 52 | 48 |
| 27 | 241 | 56 | 33 | 52 | 36 | 49 | 42 | 49 | 44 | 54 | 35 | 51 | 38 | 50 | 41 | 49 | 44 |
| 28 | 242 | 58 | 38 | 54 | 39 | 50 | 43 | 50 | 45 | 56 | 38 | 52 | 39 | 50 | 42 | 49 | 45 |
| 29 | 243 | 57 | 44 | 54 | 44 | 50 | 46 | 50 | 47 | 57 | 44 | 54 | 45 | 52 | 46 | 51 | 46 |
| 30 | 244 | 55 | 46 | 53 | 47 | 51 | 48 | 50 | 48 | 54 | 46 | 52 | 47 | 51 | 48 | 51 | 48 |
| 31 | 245 | 56 | 47 | 54 | 46 | 50 | 47 | 50 | 47 | 56 | 48 | 53 | 48 | 52 | 49 | 51 | 49 |
| Sums | | 1765 | 1269 | 1670 | 1322 | 1584 | 1436 | 1593 | 1482 | 1719 | 1292 | 1639 | 1343 | 1599 | 1411 | 1596 | 1462 |
| Averages | | 56.9 | 40.9 | 53.9 | 42.6 | 51.1 | 46.3 | 51.4 | 47.8 | 55.5 | 41.7 | 52.9 | 43.3 | 51.6 | 45.5 | 51.5 | 47.2 |

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| MO. Day | Cl. Day | Heating Degrees Base 65F | Growing Degrees Base 40F | Mean (SCALAR) Wind Chill Index | Cooling Degrees Base 65F |
|----------------|------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------|
| 1 | 215 | 21 | 4 | | 0 |
| 2 | 216 | 20 | 5 | | 0 |
| 3 | 217 | 16 | 9 | | 0 |
| 4 | 218 | 9 | 16 | | 0 |
| 5 | 219 | 10 | 15 | | 0 |
| 6 | 220 | 13 | 12 | | 0 |
| 7 | 221 | 12 | 13 | | 0 |
| 8 | 222 | 15 | 10 | | 0 |
| 9 | 223 | 11 | 14 | | 0 |
| 10 | 224 | 15 | 10 | | 0 |
| 11 | 225 | 18 | 7 | | 0 |
| 12 | 226 | 24 | 1 | | 0 |
| 13 | 227 | 26 | 0 | | 0 |
| 14 | 228 | 23 | 2 | | 0 |
| 15 | 229 | 30 | 0 | | 0 |
| 16 | 230 | 31 | 0 | | 0 |
| 17 | 231 | 28 | 0 | | 0 |
| 18 | 232 | 23 | 2 | | 0 |
| 19 | 233 | 25 | 0 | | 0 |
| 20 | 234 | 22 | 3 | | 0 |
| 21 | 235 | 11 | 14 | | 0 |
| 22 | 236 | 7 | 18 | | 0 |
| 23 | 237 | 14 | 11 | | 0 |
| 24 | 238 | 19 | 6 | | 0 |
| 25 | 239 | 7 | 18 | | 0 |
| 26 | 240 | 17 | 8 | | 0 |
| 27 | 241 | 17 | 8 | | 0 |
| 28 | 242 | 10 | 15 | | 0 |
| 29 | 243 | 14 | 11 | | 0 |
| 30 | 244 | 15 | 10 | | 0 |
| 31 | 245 | 10 | 15 | | 0 |
| Sums for month | | 533 | 257 | | 0 |

721 Accumulated heating degree days since July 1

4118 Accumulated growing degree days since Jan. 1

309 Accumulated cooling degree days since Apr. 1