

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

January 2004

| 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   | Thou In Evap |
| 1       | 307     | 49          | 30  | 39   | 82            | 30   | 56   | 86         | 102              | 99   | 0        | 0        | 0        | 0            |
| 2       | 308     | 36          | 28  | 32   | 94            | 61   | 77   | 46         | 38               | 38   | T        | 0        | 0        | 0            |
| 3       | 309     | 49          | 36  | 42   | 95            | 81   | 88   | 30         | 93               | 78   | 5        | 0        | 0        | 0            |
| 4       | 310     | 65          | 36  | 50   | 96            | 58   | 77   | 77         | 41               | 40   | T        | 0        | 0        | 0            |
| 5       | 311     | 36          | 26  | 31   | 98            | 74   | 86   | 24         | 38               | 37   | 23       | 10       | 0        | 0            |
| 6       | 312     | 31          | 23  | 27   | 99            | 80   | 89   | 12         | 134              | 83   | 3        | 0        | 0        | 0            |
| 7       | 313     | 25          | 10  | 17   | 94            | 44   | 69   | 29         | 175              | 48   | 1        | 12       | 0        | 0            |
| 8       | 314     | 18          | 11  | 14   | 91            | 39   | 65   | 35         | 115              | 72   | 6        | 14       | 0        | 0            |
| 9       | 315     | 24          | -9  | 7    | 90            | 52   | 71   | 11         | 248              | 31   | T        | T        | 0        | 0            |
| 10      | 316     | 4           | -15 | -4   | 83            | 47   | 65   | 9          | 225              | 76   | T        | T        | 0        | 0            |
| 11      | 317     | 14          | -9  | 2    | 81            | 56   | 68   | 15         | 62               | 61   | 0        | 0        | 0        | 0            |
| 12      | 318     | 32          | 14  | 23   | 98            | 47   | 72   | 29         | 70               | 68   | 23       | 42       | 0        | 0            |
| 13      | 319     | 33          | 23  | 28   | 98            | 84   | 91   | 9          | 129              | 109  | 5        | 0        | 0        | 0            |
| 14      | 320     | 32          | -13 | 9    | 95            | 50   | 72   | 18         | 137              | 121  | 2        | 5        | 0        | 0            |
| 15      | 321     | 3           | -12 | -3   | 85            | 79   | 82   | 7          | 178              | 131  | 12       | 15       | 0        | 0            |
| 16      | 322     | 3           | -10 | -2   | 85            | 68   | 76   | 8          | 187              | 150  | T        | 10       | 0        | 0            |
| 17      | 323     | 15          | 3   | 9    | 86            | 70   | 78   | 14         | 138              | 123  | 0        | 0        | 0        | 0            |
| 18      | 324     | 30          | 10  | 20   | 94            | 64   | 79   | 20         | 151              | 99   | T        | T        | 0        | 0            |
| 19      | 325     | 31          | 11  | 21   | 93            | 57   | 75   | 26         | 196              | 141  | 3        | 15       | 0        | 0            |
| 20      | 326     | 16          | 12  | 14   | 89            | 65   | 77   | 18         | 187              | 114  | T        | T        | 0        | 0            |
| 21      | 327     | 15          | 8   | 11   | 85            | 65   | 75   | 17         | 159              | 124  | T        | T        | 0        | 0            |
| 22      | 328     | 24          | 8   | 16   | 82            | 43   | 62   | 37         | 238              | 108  | 0        | 0        | 0        | 0            |
| 23      | 329     | 28          | 5   | 16   | 94            | 50   | 72   | 30         | 212              | 130  | T        | 2        | 0        | 0            |
| 24      | 330     | 13          | 4   | 8    | 88            | 48   | 68   | 25         | 263              | 97   | T        | T        | 0        | 0            |
| 25      | 331     | 9           | -9  | 0    | 86            | 56   | 71   | 12         | 108              | 106  | T        | T        | 0        | 0            |
| 26      | 332     | 14          | -3  | 5    | 83            | 47   | 65   | 18         | 95               | 93   | 0        | 0        | 0        | 0            |
| 27      | 333     | 18          | 4   | 11   | 92            | 47   | 69   | 19         | 165              | 154  | 19       | 22       | 0        | 0            |
| 28      | 334     | 26          | 18  | 22   | 96            | 76   | 86   | 15         | 259              | 67   | 44       | 65       | 0        | 0            |
| 29      | 335     | 22          | 12  | 17   | 90            | 62   | 76   | 26         | 164              | 162  | T        | 5        | 0        | 0            |
| 30      | 336     | 16          | 8   | 12   | 72            | 49   | 60   | 29         | 187              | 171  | 0        | 0        | 0        | 0            |
| 31      | 337     | 16          | 9   | 12   | 90            | 59   | 74   | 23         | 237              | 93   | 3        | 15       | 0        | 0            |
| Sums    |         | 747         | 269 | 506  | 2784          | 1808 | 2291 | 774        | 4731             | 3024 | 149      | 232      | 0        | 0            |
| Average |         | 24.1        | 8.7 | 16.3 | 89.8          | 58.3 | 73.9 | .025       | 152.6            | 97.5 | .05      | .7       | .0       | .000         |

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|          |     | Soil Temperature F |      |        |      |        |      |         |      |        |      |        |      |        |      |         |      |
|----------|-----|--------------------|------|--------|------|--------|------|---------|------|--------|------|--------|------|--------|------|---------|------|
|          |     | Sod                |      |        |      |        |      |         |      | Bare   |      |        |      |        |      |         |      |
| Mo.      | Cl. | 2 Inch             |      | 4 Inch |      | 8 Inch |      | 12 Inch |      | 2 Inch |      | 4 Inch |      | 8 Inch |      | 12 Inch |      |
| Day      | Day | Max                | Min  | Max    | Min  | Max    | Min  | Max     | Min  | Max    | Min  | Max    | Min  | Max    | Min  | Max     | Min  |
| 1        | 307 | 36                 | 30   | 36     | 31   | 39     | 34   | 40      | 35   | 41     | 30   | 39     | 31   | 40     | 33   | 40      | 34   |
| 2        | 308 | 38                 | 30   | 38     | 31   | 38     | 33   | 39      | 34   | 40     | 30   | 39     | 31   | 39     | 32   | 39      | 33   |
| 3        | 309 | 45                 | 31   | 43     | 31   | 42     | 33   | 41      | 34   | 45     | 31   | 43     | 31   | 42     | 32   | 41      | 33   |
| 4        | 310 | 52                 | 38   | 51     | 39   | 47     | 38   | 46      | 38   | 53     | 38   | 51     | 39   | 48     | 39   | 47      | 37   |
| 5        | 311 | 41                 | 32   | 42     | 33   | 44     | 35   | 46      | 37   | 44     | 32   | 43     | 33   | 45     | 34   | 45      | 36   |
| 6        | 312 | 37                 | 30   | 37     | 31   | 39     | 33   | 41      | 36   | 39     | 30   | 39     | 31   | 40     | 33   | 41      | 34   |
| 7        | 313 | 35                 | 29   | 36     | 30   | 38     | 33   | 40      | 33   | 39     | 30   | 38     | 30   | 39     | 32   | 40      | 33   |
| 8        | 314 | 35                 | 29   | 36     | 29   | 38     | 31   | 39      | 33   | 40     | 28   | 38     | 29   | 40     | 30   | 40      | 32   |
| 9        | 315 | 35                 | 29   | 36     | 29   | 37     | 31   | 39      | 32   | 37     | 28   | 36     | 29   | 38     | 30   | 39      | 31   |
| 10       | 316 | 34                 | 29   | 35     | 29   | 36     | 31   | 38      | 32   | 37     | 27   | 35     | 29   | 37     | 30   | 37      | 31   |
| 11       | 317 | 34                 | 27   | 35     | 27   | 37     | 29   | 38      | 30   | 36     | 26   | 36     | 27   | 38     | 28   | 39      | 29   |
| 12       | 318 | 34                 | 29   | 35     | 29   | 36     | 31   | 37      | 32   | 34     | 27   | 34     | 28   | 37     | 29   | 36      | 30   |
| 13       | 319 | 35                 | 29   | 35     | 30   | 37     | 31   | 38      | 32   | 41     | 29   | 39     | 29   | 40     | 30   | 39      | 31   |
| 14       | 320 | 35                 | 29   | 36     | 29   | 37     | 31   | 38      | 32   | 41     | 29   | 40     | 29   | 40     | 30   | 39      | 30   |
| 15       | 321 | 35                 | 29   | 35     | 29   | 37     | 31   | 37      | 31   | 36     | 29   | 36     | 29   | 36     | 30   | 37      | 31   |
| 16       | 322 | 35                 | 29   | 36     | 29   | 37     | 31   | 38      | 32   | 38     | 29   | 37     | 30   | 38     | 31   | 38      | 31   |
| 17       | 323 | 35                 | 30   | 36     | 30   | 37     | 32   | 38      | 33   | 39     | 30   | 39     | 30   | 41     | 31   | 42      | 32   |
| 18       | 324 | 35                 | 29   | 36     | 29   | 37     | 31   | 38      | 31   | 39     | 28   | 37     | 28   | 37     | 30   | 39      | 30   |
| 19       | 325 | 35                 | 30   | 35     | 30   | 36     | 31   | 38      | 32   | 44     | 29   | 40     | 30   | 40     | 31   | 41      | 32   |
| 20       | 326 | 35                 | 30   | 35     | 30   | 37     | 32   | 37      | 33   | 40     | 30   | 40     | 31   | 44     | 32   | 41      | 32   |
| 21       | 327 | 35                 | 30   | 36     | 30   | 37     | 31   | 38      | 32   | 42     | 30   | 41     | 30   | 41     | 31   | 41      | 32   |
| 22       | 328 | 35                 | 28   | 35     | 28   | 37     | 30   | 37      | 30   | 40     | 28   | 39     | 28   | 38     | 30   | 38      | 29   |
| 23       | 329 | 35                 | 29   | 36     | 29   | 37     | 31   | 38      | 32   | 40     | 29   | 40     | 29   | 39     | 31   | 39      | 31   |
| 24       | 330 | 36                 | 28   | 35     | 28   | 37     | 30   | 37      | 31   | 38     | 29   | 37     | 29   | 38     | 30   | 39      | 31   |
| 25       | 331 | 35                 | 29   | 35     | 31   | 36     | 31   | 38      | 31   | 36     | 29   | 37     | 29   | 38     | 30   | 39      | 31   |
| 26       | 332 | 34                 | 29   | 35     | 29   | 36     | 31   | 37      | 31   | 35     | 28   | 36     | 29   | 38     | 30   | 38      | 31   |
| 27       | 333 | 34                 | 28   | 34     | 28   | 36     | 30   | 37      | 31   | 37     | 28   | 35     | 28   | 36     | 29   | 37      | 30   |
| 28       | 334 | 35                 | 29   | 35     | 29   | 36     | 31   | 37      | 31   | 38     | 29   | 39     | 29   | 38     | 30   | 39      | 31   |
| 29       | 335 | 35                 | 29   | 35     | 29   | 36     | 31   | 37      | 31   | 39     | 30   | 38     | 30   | 39     | 31   | 39      | 31   |
| 30       | 336 | 35                 | 28   | 35     | 28   | 36     | 30   | 38      | 31   | 40     | 29   | 39     | 29   | 39     | 30   | 39      | 30   |
| 31       | 337 | 35                 | 28   | 35     | 29   | 36     | 30   | 37      | 31   | 39     | 29   | 38     | 29   | 38     | 30   | 38      | 30   |
| Sums     |     | 1120               | 913  | 1130   | 923  | 1166   | 978  | 1197    | 1004 | 1227   | 908  | 1198   | 923  | 1221   | 959  | 1226    | 979  |
| Averages |     | 36.1               | 29.5 | 36.5   | 29.8 | 37.6   | 31.5 | 38.6    | 32.4 | 39.6   | 29.3 | 38.6   | 29.8 | 39.4   | 30.9 | 39.5    | 31.6 |

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| MO.<br>Day     | Cl.<br>Day                                   | Heating Degrees<br>Base 65F | Growing Degrees<br>Base 40F | Mean (SCALAR)<br>Wind Chill Index | Cooling Degrees<br>Base 65F |
|----------------|--|-----------------------------|-----------------------------|-----------------------------------|-----------------------------|
| 1              | 307  | 26                          | 0                           |                                   | 0                           |
| 2              | 308  | 33                          | 0                           |                                   | 0                           |
| 3              | 309  | 23                          | 2                           |                                   | 0                           |
| 4              | 310  | 15                          | 10                          |                                   | 0                           |
| 5              | 311  | 34                          | 0                           |                                   | 0                           |
| 6              | 312  | 38                          | 0                           |                                   | 0                           |
| 7              | 313  | 48                          | 0                           |                                   | 0                           |
| 8              | 314  | 51                          | 0                           |                                   | 0                           |
| 9              | 315  | 58                          | 0                           |                                   | 0                           |
| 10             | 316  | 69                          | 0                           |                                   | 0                           |
| 11             | 317  | 63                          | 0                           |                                   | 0                           |
| 12             | 318  | 42                          | 0                           |                                   | 0                           |
| 13             | 319  | 37                          | 0                           |                                   | 0                           |
| 14             | 320  | 56                          | 0                           |                                   | 0                           |
| 15             | 321  | 68                          | 0                           |                                   | 0                           |
| 16             | 322  | 67                          | 0                           |                                   | 0                           |
| 17             | 323  | 56                          | 0                           |                                   | 0                           |
| 18             | 324  | 45                          | 0                           |                                   | 0                           |
| 19             | 325  | 44                          | 0                           |                                   | 0                           |
| 20             | 326  | 51                          | 0                           |                                   | 0                           |
| 21             | 327  | 54                          | 0                           |                                   | 0                           |
| 22             | 328  | 49                          | 0                           |                                   | 0                           |
| 23             | 329  | 49                          | 0                           |                                   | 0                           |
| 24             | 330  | 57                          | 0                           |                                   | 0                           |
| 25             | 331  | 65                          | 0                           |                                   | 0                           |
| 26             | 332  | 60                          | 0                           |                                   | 0                           |
| 27             | 333  | 54                          | 0                           |                                   | 0                           |
| 28             | 334  | 43                          | 0                           |                                   | 0                           |
| 29             | 335  | 48                          | 0                           |                                   | 0                           |
| 30             | 336  | 53                          | 0                           |                                   | 0                           |
| 31             | 337  | 53                          | 0                           |                                   | 0                           |
| Sums for month |  | 1509                        | 12                          |                                   | 0                           |
| 3937           | Accumulated heating degree days since July 1 |                             |                             |                                   |                             |
| 12             | Accumulated growing degree days since Jan. 1 |                             |                             |                                   |                             |
| 417            | Accumulated cooling degree days since Apr. 1 |                             |                             |                                   |                             |