

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 1994

| MO. DAY | CL. DAY | AIR TEMP.F | | | REL.HUM.PCT | | | VPD THOU IN/HG | SOLAR RAD | | PPT HUND INS | SNOW TNTH INS | MI.WIND 1.5 FT | PAN THOU IN EVAP |
|------------|------------|------------|------|------|-------------|------|------|----------------------|---------------------|------|--------------------|---------------------|-------------------|------------------------|
| | | MAX | MIN | AVG | MAX | MIN | AVG | | GM CAL/CM2 TOTAL | DIFF | | | | |
| 1 | 215 | 59 | 45 | 52 | 100 | 58 | 79 | 81 | 241 | 140 | 2 | 0 | 67 | 57 |
| 2 | 216 | 57 | 43 | 50 | 100 | 98 | 99 | 4 | 89 | 68 | 19 | 0 | 61 | 34 |
| 3 | 217 | 55 | 35 | 45 | 100 | 36 | 68 | 95 | 402 | 51 | T | 0 | 92 | 140 |
| 4 | 218 | 54 | 38 | 46 | 100 | 44 | 72 | 87 | 385 | 52 | 0 | 0 | 93 | 133 |
| 5 | 219 | 51 | 41 | 46 | 100 | 68 | 84 | 50 | 115 | 108 | 6 | 0 | 88 | 65 |
| 6 | 220 | 52 | 39 | 45 | 100 | 50 | 75 | 78 | 206 | 136 | 1 | 0 | 69 | 48 |
| 7 | 221 | 63 | 40 | 51 | 100 | 44 | 72 | 108 | 339 | 81 | 0 | 0 | 47 | 95 |
| 8 | 222 | 70 | 43 | 56 | 100 | 45 | 72 | 125 | 360 | 45 | 0 | 0 | 82 | 134 |
| 9 | 223 | 74 | 53 | 63 | 100 | 52 | 76 | 138 | 315 | 114 | 0 | 0 | 120 | 152 |
| 10 | 224 | 63 | 41 | 52 | 100 | 56 | 78 | 85 | 74 | 60 | 4 | 0 | 113 | 46 |
| 11 | 225 | 51 | 33 | 42 | 100 | 48 | 74 | 69 | 314 | 72 | 0 | 0 | 90 | 90 |
| 12 | 226 | 53 | 31 | 42 | 100 | 44 | 72 | 74 | 355 | 32 | 0 | 0 | 36 | 81 |
| 13 | 227 | 61 | 34 | 47 | 100 | 32 | 66 | 114 | 350 | 36 | 0 | 0 | 56 | 100 |
| 14 | 228 | 61 | 42 | 51 | 100 | 54 | 77 | 89 | 271 | 126 | 0 | 0 | 50 | 71 |
| 15 | 229 | 63 | 39 | 51 | 100 | 48 | 74 | 97 | 252 | 111 | 0 | 0 | 52 | 62 |
| 16 | 230 | 62 | 32 | 47 | 100 | 40 | 70 | 97 | 332 | 42 | 0 | 0 | 56 | 67 |
| 17 | 231 | 63 | 32 | 47 | 100 | 36 | 68 | 107 | 332 | 49 | 0 | 0 | 60 | 120 |
| 18 | 232 | 64 | 36 | 50 | 100 | 26 | 63 | 134 | 309 | 46 | 0 | 0 | 32 | 90 |
| 19 | 233 | 64 | 49 | 56 | 100 | 44 | 72 | 125 | 153 | 138 | 0 | 0 | 29 | 72 |
| 20 | 234 | 63 | 54 | 58 | 100 | 70 | 85 | 72 | 59 | 58 | 41 | 0 | 49 | 5 |
| 21 | 235 | 67 | 52 | 59 | 100 | 64 | 82 | 93 | 130 | 96 | 0 | 0 | 57 | 41 |
| 22 | 236 | 57 | 39 | 48 | 100 | 82 | 91 | 30 | 109 | 89 | 4 | 0 | 64 | 85 |
| 23 | 237 | 59 | 40 | 49 | 100 | 66 | 83 | 62 | 201 | 145 | 0 | 0 | 31 | 29 |
| 24 | 238 | 68 | 39 | 53 | 100 | 46 | 73 | 112 | 216 | 123 | 0 | 0 | 76 | 100 |
| 25 | 239 | 61 | 41 | 51 | 100 | 40 | 70 | 112 | 227 | 103 | 0 | 0 | 59 | 91 |
| 26 | 240 | 49 | 39 | 44 | 100 | 68 | 84 | 46 | 125 | 99 | 9 | 0 | 59 | 27 |
| 27 | 241 | 51 | 36 | 43 | 100 | 56 | 78 | 63 | 163 | 93 | 0 | 0 | 58 | 63 |
| 28 | 242 | 52 | 37 | 44 | 100 | 56 | 78 | 63 | 179 | 96 | 0 | 0 | 60 | 54 |
| 29 | 243 | 61 | 37 | 49 | 70 | 40 | 55 | 156 | 270 | 49 | 0 | 0 | 98 | 112 |
| 30 | 244 | 64 | 45 | 54 | 80 | 40 | 60 | 167 | 138 | 124 | 0 | 0 | 84 | 110 |
| 31 | 245 | 65 | 47 | 56 | 100 | 48 | 74 | 116 | 189 | 79 | 0 | 0 | 36 | 71 |
| SUMS | | 1857 | 1252 | 1547 | 3050 | 1599 | 2324 | 2849 | 7200 | 2661 | 86 | 0 | 2024 | 2445 |
| AVERAGE | | 59.9 | 40.4 | 49.9 | 98.4 | 51.6 | 75.0 | 0.092 | 232.3 | 85.8 | 0.03 | 0.0 | 65.3 | 0.079 |

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OCTOBER 1994

| | | 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 | 61 | 52 | 60 | 52 | 59 | 55 | 59 | 56 | 61 | 51 | 59 | 52 | 58 | 53 | 58 | 55 |
| 2 | 216 | 59 | 48 | 58 | 51 | 58 | 54 | 58 | 56 | 59 | 47 | 58 | 50 | 58 | 52 | 58 | 54 |
| 3 | 217 | 61 | 43 | 60 | 46 | 58 | 51 | 58 | 54 | 61 | 42 | 59 | 45 | 58 | 49 | 58 | 52 |
| 4 | 218 | 60 | 46 | 58 | 47 | 56 | 51 | 57 | 53 | 60 | 45 | 58 | 46 | 57 | 49 | 56 | 52 |
| 5 | 219 | 54 | 47 | 54 | 48 | 54 | 51 | 55 | 52 | 54 | 46 | 54 | 48 | 54 | 50 | 55 | 51 |
| 6 | 220 | 55 | 44 | 54 | 46 | 54 | 49 | 54 | 51 | 56 | 44 | 54 | 46 | 54 | 48 | 54 | 50 |
| 7 | 221 | 62 | 46 | 59 | 48 | 57 | 50 | 56 | 51 | 63 | 46 | 60 | 47 | 58 | 48 | 56 | 50 |
| 8 | 222 | 65 | 48 | 62 | 48 | 58 | 51 | 57 | 52 | 67 | 47 | 63 | 48 | 60 | 50 | 58 | 51 |
| 9 | 223 | 68 | 52 | 64 | 51 | 60 | 53 | 59 | 54 | 69 | 51 | 65 | 51 | 62 | 53 | 60 | 54 |
| 10 | 224 | 58 | 46 | 58 | 48 | 58 | 52 | 58 | 54 | 58 | 45 | 58 | 48 | 58 | 50 | 58 | 52 |
| 11 | 225 | 57 | 42 | 56 | 44 | 55 | 49 | 55 | 51 | 58 | 41 | 56 | 44 | 56 | 47 | 55 | 50 |
| 12 | 226 | 61 | 40 | 58 | 43 | 55 | 48 | 55 | 50 | 62 | 40 | 58 | 43 | 56 | 46 | 55 | 49 |
| 13 | 227 | 62 | 42 | 58 | 43 | 55 | 48 | 55 | 50 | 62 | 41 | 59 | 43 | 57 | 46 | 55 | 49 |
| 14 | 228 | 60 | 44 | 58 | 45 | 55 | 49 | 55 | 50 | 61 | 44 | 58 | 45 | 56 | 47 | 55 | 49 |
| 15 | 229 | 62 | 43 | 59 | 45 | 56 | 50 | 56 | 51 | 63 | 42 | 60 | 45 | 59 | 48 | 56 | 50 |
| 16 | 230 | 63 | 40 | 60 | 43 | 56 | 48 | 55 | 50 | 64 | 40 | 60 | 43 | 58 | 47 | 56 | 49 |
| 17 | 231 | 62 | 40 | 58 | 43 | 55 | 48 | 54 | 50 | 62 | 40 | 58 | 42 | 56 | 46 | 54 | 48 |
| 18 | 232 | 62 | 43 | 58 | 43 | 55 | 47 | 54 | 49 | 62 | 41 | 59 | 43 | 56 | 46 | 54 | 48 |
| 19 | 233 | 61 | 50 | 59 | 50 | 56 | 51 | 56 | 52 | 62 | 50 | 60 | 50 | 58 | 51 | 56 | 51 |
| 20 | 234 | 58 | 53 | 57 | 52 | 56 | 53 | 56 | 53 | 59 | 52 | 58 | 52 | 57 | 52 | 56 | 53 |
| 21 | 235 | 62 | 52 | 60 | 53 | 58 | 54 | 58 | 54 | 63 | 52 | 61 | 53 | 59 | 54 | 58 | 54 |
| 22 | 236 | 58 | 45 | 57 | 47 | 57 | 51 | 56 | 52 | 58 | 45 | 57 | 47 | 57 | 49 | 56 | 51 |
| 23 | 237 | 60 | 45 | 58 | 47 | 56 | 50 | 56 | 51 | 60 | 44 | 58 | 46 | 57 | 49 | 56 | 51 |
| 24 | 238 | 60 | 44 | 58 | 46 | 56 | 50 | 56 | 51 | 61 | 43 | 59 | 46 | 57 | 48 | 56 | 50 |
| 25 | 239 | 59 | 46 | 57 | 46 | 55 | 49 | 54 | 51 | 59 | 44 | 57 | 46 | 56 | 48 | 54 | 50 |
| 26 | 240 | 54 | 43 | 52 | 45 | 53 | 48 | 53 | 49 | 54 | 42 | 53 | 44 | 53 | 47 | 53 | 48 |
| 27 | 241 | 53 | 43 | 52 | 44 | 51 | 47 | 52 | 48 | 53 | 42 | 52 | 44 | 51 | 46 | 51 | 47 |
| 28 | 242 | 54 | 40 | 52 | 42 | 51 | 46 | 52 | 48 | 53 | 39 | 52 | 41 | 52 | 44 | 51 | 46 |
| 29 | 243 | 57 | 41 | 54 | 42 | 52 | 46 | 52 | 47 | 58 | 40 | 55 | 41 | 53 | 44 | 52 | 46 |
| 30 | 244 | 56 | 45 | 54 | 45 | 52 | 47 | 52 | 48 | 56 | 44 | 54 | 45 | 53 | 46 | 52 | 47 |
| 31 | 245 | 60 | 49 | 57 | 48 | 54 | 49 | 54 | 49 | 61 | 48 | 58 | 48 | 56 | 49 | 54 | 49 |
| SUMS | | 1844 | 1402 | 1779 | 1441 | 1721 | 1545 | 1717 | 1587 | 1859 | 1378 | 1790 | 1432 | 1750 | 1502 | 1716 | 1556 |
| AVERAGES | | 59.5 | 45.2 | 57.4 | 46.5 | 55.5 | 49.8 | 55.4 | 51.2 | 60.0 | 44.5 | 57.7 | 46.2 | 56.5 | 48.5 | 55.4 | 50.2 |

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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 | 13 | 12 | | 0 |
| 2 | 216 | 15 | 10 | | 0 |
| 3 | 217 | 20 | 5 | | 0 |
| 4 | 218 | 19 | 6 | | 0 |
| 5 | 219 | 19 | 6 | | 0 |
| 6 | 220 | 20 | 5 | | 0 |
| 7 | 221 | 14 | 11 | | 0 |
| 8 | 222 | 9 | 16 | | 0 |
| 9 | 223 | 2 | 23 | | 0 |
| 10 | 224 | 13 | 12 | | 0 |
| 11 | 225 | 23 | 2 | | 0 |
| 12 | 226 | 23 | 2 | | 0 |
| 13 | 227 | 18 | 7 | | 0 |
| 14 | 228 | 14 | 11 | | 0 |
| 15 | 229 | 14 | 11 | | 0 |
| 16 | 230 | 18 | 7 | | 0 |
| 17 | 231 | 18 | 7 | | 0 |
| 18 | 232 | 15 | 10 | | 0 |
| 19 | 233 | 9 | 16 | | 0 |
| 20 | 234 | 7 | 18 | | 0 |
| 21 | 235 | 6 | 19 | | 0 |
| 22 | 236 | 17 | 8 | | 0 |
| 23 | 237 | 16 | 9 | | 0 |
| 24 | 238 | 12 | 13 | | 0 |
| 25 | 239 | 14 | 11 | | 0 |
| 26 | 240 | 21 | 4 | | 0 |
| 27 | 241 | 22 | 3 | | 0 |
| 28 | 242 | 21 | 4 | | 0 |
| 29 | 243 | 16 | 9 | | 0 |
| 30 | 244 | 11 | 14 | | 0 |
| 31 | 245 | 9 | 16 | | 0 |
| SUMS FOR MONTH | | 468 | 307 | | 0 |
| 684 | ACCUMULATED | HEATING DEGREE | DAYS SINCE | JULY 1 | |
| 4235 | ACCUMULATED | GROWING DEGREE | DAYS SINCE | JAN. 1 | |
| 479 | ACCUMULATED | COOLING DEGREE | DAYS SINCE | APR. 1 | |