

# July 2022

## Weather data collected at the KSU Northwest Research-Extension Center, Colby, Kansas.

| Day    | Air Temperature, F |      |      |       | Soil Temperature, F |      |      | Water Temperature, F |      |      | Evap. | Wind | Solar    | Precip. | Snow | Depth | Air Temp  | GDU   | HDU    |
|--------|--------------------|------|------|-------|---------------------|------|------|----------------------|------|------|-------|------|----------|---------|------|-------|-----------|-------|--------|
|        | Max                | Min  | 8:00 | Wet-B | Max                 | Min  | Avg  | Max                  | Min  | 8:00 | in.   | mi/d | Rad., ly | in.     | in.  | in.   | Spread, F |       |        |
| 1      | 99                 | 94   | 67   | 65    | 79                  | 72   | 76   | 93                   | 66   | 69   | 0.39  | 82   | 593      | 0.11    | 0.0  | 0     | 5         | 40.0  | -31.5  |
| 2      | 86                 | 63   | 68   | 65    | 80                  | 73   | 77   | 92                   | 69   | 69   | 0.36  | 80   | 569      | 0.00    | 0.0  | 0     | 23        | 24.5  | -9.5   |
| 3      | 93                 | 64   | 70   | 65    | 80                  | 73   | 77   | 90                   | 68   | 69   | 0.37  | 140  | 579      | 0.00    | 0.0  | 0     | 29        | 25.0  | -13.5  |
| 4      | 98                 | 66   | 75   | 66    | 80                  | 74   | 77   | 93                   | 69   | 69   | 0.35  | 139  | 596      | 0.00    | 0.0  | 0     | 32        | 26.0  | -17.0  |
| 5      | 104                | 71   | 78   | 70    | 82                  | 75   | 79   | 94                   | 69   | 72   | 0.67  | 135  | 662      | 0.41    | 0.0  | 0     | 33        | 28.5  | -22.5  |
| 6      | 104                | 65   | 69   | 66    | 83                  | 75   | 79   | 97                   | 69   | 69   | 0.50  | 145  | 675      | 0.00    | 0.0  | 0     | 39        | 25.5  | -19.5  |
| 7      | 92                 | 64   | 69   | 67    | 82                  | 75   | 79   | 93                   | 69   | 69   | 0.36  | 110  | 580      | 0.21    | 0.0  | 0     | 28        | 25.0  | -13.0  |
| 8      | 93                 | 67   | 69   | 69    | 84                  | 75   | 80   | 97                   | 69   | 74   | 0.40  | 70   | 668      | 0.00    | 0.0  | 0     | 26        | 26.5  | -15.0  |
| 9      | 94                 | 67   | 75   | 71    | 85                  | 77   | 81   | 99                   | 71   | 73   | 0.40  | 74   | 656      | 0.00    | 0.0  | 0     | 27        | 26.5  | -15.5  |
| 10     | 101                | 71   | 85   | 70    | 84                  | 77   | 81   | 96                   | 70   | 73   | 0.45  | 156  | 673      | 0.00    | 0.0  | 0     | 30        | 28.5  | -21.0  |
| 11     | 107                | 68   | 76   | 70    | 84                  | 77   | 81   | 95                   | 72   | 72   | 0.64  | 129  | 679      | 0.00    | 0.0  | 0     | 39        | 27.0  | -22.5  |
| 12     | 88                 | 58   | 66   | 63    | 83                  | 76   | 80   | 91                   | 67   | 67   | 0.45  | 102  | 648      | 0.00    | 0.0  | 0     | 30        | 22.0  | -8.0   |
| 13     | 92                 | 64   | 71   | 63    | 83                  | 76   | 80   | 93                   | 66   | 66   | 0.56  | 115  | 666      | 0.00    | 0.0  | 0     | 28        | 25.0  | -13.0  |
| 14     | 101                | 70   | 76   | 67    | 83                  | 76   | 80   | 93                   | 66   | 70   | 0.56  | 167  | 643      | 0.13    | 0.0  | 0     | 31        | 28.0  | -20.5  |
| 15     | 107                | 75   | 80   | 70    | 82                  | 76   | 79   | 93                   | 70   | 73   | 0.54  | 108  | 550      | 0.00    | 0.0  | 0     | 32        | 30.5  | -26.0  |
| 16     | 101                | 73   | 75   | 72    | 84                  | 77   | 81   | 95                   | 73   | 75   | 0.53  | 129  | 645      | T       | 0.0  | 0     | 28        | 29.5  | -22.0  |
| 17     | 97                 | 64   | 72   | 67    | 85                  | 78   | 82   | 96                   | 71   | 71   | 0.40  | 67   | 471      | 0.00    | 0.0  | 0     | 33        | 25.0  | -15.5  |
| 18     | 97                 | 62   | 70   | 67    | 86                  | 78   | 82   | 98                   | 70   | 70   | 0.43  | 78   | 670      | 0.00    | 0.0  | 0     | 35        | 24.0  | -14.5  |
| 19     | 102                | 70   | 78   | 64    | 85                  | 78   | 82   | 95                   | 68   | 69   | 0.71  | 165  | 673      | 0.00    | 0.0  | 0     | 32        | 28.0  | -21.0  |
| 20     | 103                | 62   | 72   | 62    | 85                  | 78   | 82   | 92                   | 68   | 68   | 0.60  | 103  | 658      | 0.00    | 0.0  | 0     | 41        | 24.0  | -17.5  |
| 21     | 97                 | 62   | 72   | 67    | 85                  | 77   | 81   | 95                   | 68   | 70   | 0.49  | 62   | 623      | 0.00    | 0.0  | 0     | 35        | 24.0  | -14.5  |
| 22     | 100                | 68   | 72   | 67    | 86                  | 78   | 82   | 95                   | 69   | 69   | 0.62  | 147  | 657      | 0.00    | 0.0  | 0     | 32        | 27.0  | -19.0  |
| 23     | 105                | 72   | 76   | 68    | 86                  | 79   | 83   | 97                   | 69   | 71   | 0.60  | 156  | 622      | 0.00    | 0.0  | 0     | 33        | 29.0  | -23.5  |
| 24     | 109                | 66   | 71   | 67    | 86                  | 79   | 83   | 95                   | 71   | 73   | 0.56  | 141  | 560      | 0.11    | 0.0  | 0     | 43        | 26.0  | -22.5  |
| 25     | 88                 | 59   | 62   | 62    | 83                  | 74   | 79   | 91                   | 66   | 66   | 0.41  | 119  | 559      | 0.77    | 0.0  | 0     | 29        | 22.5  | -8.5   |
| 26     | 84                 | 62   | 66   | 66    | 80                  | 74   | 77   | 87                   | 66   | 73   | 0.12  | 76   | 290      | T       | 0.0  | 0     | 22        | 23.0  | -8.0   |
| 27     | 86                 | 64   | 67   | 67    | 81                  | 75   | 78   | 92                   | 73   | 73   | 0.22  | 62   | 405      | 0.00    | 0.0  | 0     | 22        | 25.0  | -10.0  |
| 28     | 88                 | 63   | 65   | 65    | 82                  | 70   | 76   | 93                   | 71   | 71   | 0.54  | 88   | 506      | 1.83    | 0.0  | 0     | 25        | 24.5  | -10.5  |
| 29     | 81                 | 62   | 63   | 63    | 78                  | 70   | 74   | 90                   | 70   | 70   | 0.23  | 77   | 410      | 0.37    | 0.0  | 0     | 19        | 21.5  | -6.5   |
| 30     | 70                 | 60   | 61   | 60    | 74                  | 70   | 72   | 73                   | 63   | 64   | 0.05  | 79   | 197      | 0.02    | 0.0  | 0     | 10        | 15.0  | 0.0    |
| 31     | 77                 | 61   | 67   | 67    | 76                  | 70   | 73   | 81                   | 64   | 68   | 0.15  | 88   | 368      | 0.00    | 0.0  | 0     | 16        | 19.0  | -4.0   |
| Totals | 2944               | 2057 | 2203 | 2058  | 2556                | 2332 | 2453 | 2874                 | 2130 | 2175 | 13.66 | 3389 | 17751    | 3.96    | 0.0  |       | 887       | 795.5 | -485.5 |
| Avg.   | 95                 | 66   | 71   | 66    | 82                  | 75   | 79   | 93                   | 69   | 70   | 0.44  | 109  | 573      |         |      |       | 29        | 25.7  | -15.7  |
| Max    | 109                | 94   | 85   | 72    | 86                  | 79   | 83   | 99                   | 73   | 75   | 0.71  | 167  | 679      | 1.83    |      |       | 43        | 40.0  | 0.0    |
| Min    | 70                 | 58   | 61   | 60    | 74                  | 70   | 72   | 73                   | 63   | 64   | 0.05  | 62   | 197      | 0.00    |      |       | 5         | 15.0  | -31.5  |

Note: Values for solar radiation and soil temperature are for preceding calendar day. All other values are 8:00 am to 8:00 am.