

Nickels Soils Lab  
Colusa, California  
Daily Meteorological Summary  
Station: Nickels

| Date           | ----- Temperatures ----- |             |           |             |           | -- Canopy Temps -- |           |           | Relative Humidity |          | ----- Wind ----- |            |            |            |             | Avg                          | Total        | Total     | Yearly       |
|----------------|--------------------------|-------------|-----------|-------------|-----------|--------------------|-----------|-----------|-------------------|----------|------------------|------------|------------|------------|-------------|------------------------------|--------------|-----------|--------------|
|                | Max<br>°F                | Time<br>LST | Min<br>°F | Time<br>LST | Avg<br>°F | Max<br>°F          | Min<br>°F | Avg<br>°F | Max<br>%          | Min<br>% | Avg<br>Dir       | Avg<br>MPH | Max<br>Dir | Max<br>MPH | Time<br>LST | Solar<br>Cal/cm <sup>2</sup> | Precip<br>in | ETo<br>in | Precip<br>in |
| 12/ 1/03       | 51.74                    | 10:13       | 48.94     | 01:29       | 49.87     |                    |           |           | 100.00            | 100.00   | NW               | 0.43       | WSW        | 6.44       | 19:04       | 47.30                        | 1.05         | 0.01      | 4.86         |
| 12/ 2/03       | 59.98                    | 13:39       | 49.78     | 21:07       | 52.85     |                    |           |           | 100.00            | 78.00    | WNW              | 0.38       | WNW        | 5.60       | 08:58       | 152.00                       | 0.04         | 0.03      | 4.90         |
| 12/ 3/03       | 64.54                    | 14:50       | 46.62     | 07:37       | 53.57     |                    |           |           | 100.00            | 64.32    | NW               | 0.91       | NW         | 7.95       | 12:25       | 244.40                       | 0.00         | 0.05      | 4.90         |
| 12/ 4/03       | 50.40                    | 16:49       | 45.29     | 01:25       | 49.09     |                    |           |           | 100.00            | 97.90    | SE               | 1.12       | E          | 8.11       | 22:05       | 37.26                        | 0.16         | 0.01      | 5.06         |
| 12/ 5/03       | 57.80                    | 23:20       | 49.42     | 00:01       | 53.44     |                    |           |           | 100.00            | 82.80    | SSE              | 2.74       | SSE        | 11.47      | 11:38       | 75.80                        | 0.13         | 0.01      | 5.19         |
| 12/ 6/03       | 59.63                    | 13:04       | 52.82     | 23:57       | 56.07     |                    |           |           | 100.00            | 75.40    | SSE              | 4.76       | SE         | 15.66      | 12:34       | 62.69                        | 0.25         | 0.01      | 5.44         |
| 12/ 7/03       | 60.45                    | 11:50       | 38.98     | 22:37       | 51.76     |                    |           |           | 95.10             | 41.91    | WSW              | 4.69       | W          | 19.35      | 13:50       | 245.30                       | 0.00         | 0.07      | 5.44         |
| 12/ 8/03       | 57.65                    | 14:21       | 38.02     | 02:27       | 45.51     |                    |           |           | 96.90             | 42.72    | WNW              | 2.00       | WNW        | 11.30      | 09:44       | 246.10                       | 0.00         | 0.05      | 5.44         |
| 12/ 9/03       | 45.31                    | 11:30       | 39.23     | 00:51       | 42.54     |                    |           |           | 100.00            | 80.10    | ESE              | 1.12       | E          | 9.12       | 22:52       | 33.62                        | 0.89         | 0.01      | 6.33         |
| 12/10/03       | 60.57                    | 13:06       | 42.36     | 23:45       | 51.17     |                    |           |           | 100.00            | 54.11    | S                | 2.90       | SE         | 12.47      | 02:03       | 179.40                       | 0.85         | 0.04      | 7.18         |
| 12/11/03       | 55.82                    | 13:13       | 39.59     | 22:22       | 46.31     |                    |           |           | 100.00            | 47.47    | NW               | 1.73       | WSW        | 14.82      | 02:25       | 236.50                       | 0.00         | 0.04      | 7.18         |
| 12/12/03       | 46.64                    | 15:03       | 40.33     | 00:42       | 44.54     |                    |           |           | 100.00            | 92.20    | SE               | 2.29       | ESE        | 12.47      | 22:43       | 41.40                        | 0.12         | 0.01      | 7.30         |
| 12/13/03       | 59.26                    | 14:24       | 46.40     | 00:43       | 51.28     |                    |           |           | 100.00            | 70.70    | SSE              | 6.15       | SE         | 16.50      | 22:29       | 149.90                       | 0.00         | 0.02      | 7.30         |
| 12/14/03       | 58.38                    | 12:29       | 38.61     | 21:34       | 48.43     |                    |           |           | 100.00            | 40.97    | WSW              | 2.13       | W          | 21.19      | 02:18       | 240.20                       | 0.49         | 0.05      | 7.79         |
| 12/15/03       | 54.38                    | 14:08       | 35.71     | 05:56       | 43.64     |                    |           |           | 91.70             | 48.70    | WNW              | 1.47       | NW         | 9.29       | 13:56       | 218.50                       | 0.00         | 0.04      | 7.79         |
| 12/16/03       | 53.56                    | 14:09       | 34.73     | 02:24       | 42.82     |                    |           |           | 99.90             | 51.09    | WNW              | 1.41       | W          | 8.28       | 14:15       | 193.70                       | 0.00         | 0.03      | 7.79         |
| 12/17/03       | 58.17                    | 12:23       | 35.20     | 05:55       | 45.28     |                    |           |           | 94.20             | 28.29    | WNW              | 1.02       | ENE        | 5.77       | 14:42       | 205.50                       | 0.00         | 0.04      | 7.79         |
| 12/18/03       | 62.49                    | 14:45       | 38.13     | 02:12       | 47.55     |                    |           |           | 93.70             | 32.74    | WNW              | 1.07       | N          | 8.45       | 12:03       | 229.30                       | 0.00         | 0.05      | 7.79         |
| 12/19/03       | 48.83                    | 11:22       | 37.52     | 07:06       | 44.02     |                    |           |           | 100.00            | 70.70    | WNW              | 0.89       | W          | 7.44       | 17:47       | 63.98                        | 0.87         | 0.01      | 8.66         |
| 12/20/03       | 49.67                    | 13:05       | 45.42     | 00:32       | 47.08     |                    |           |           | 100.00            | 100.00   | NW               | 0.90       | N          | 7.44       | 12:58       | 49.19                        | 0.49         | 0.01      | 9.15         |
| 12/21/03       | 59.21                    | 14:53       | 44.32     | 01:37       | 49.94     |                    |           |           | 100.00            | 69.22    | WNW              | 1.59       | WNW        | 8.11       | 11:46       | 225.80                       | 0.00         | 0.04      | 9.15         |
| 12/22/03       | 49.67                    | 15:53       | 38.74     | 07:37       | 44.77     |                    |           |           | 100.00            | 89.70    | NW               | 0.55       | NW         | 6.44       | 12:19       | 87.90                        | 0.00         | 0.02      | 9.15         |
| 12/23/03       | 51.38                    | 19:37       | 42.14     | 01:38       | 47.10     |                    |           |           | 100.00            | 100.00   | SE               | 2.17       | SE         | 12.81      | 14:40       | 41.26                        | 0.63         | 0.01      | 9.78         |
| 12/24/03       | 54.78                    | 14:39       | 46.99     | 23:59       | 51.87     |                    |           |           | 100.00            | 68.62    | SSE              | 4.42       | SSW        | 19.18      | 04:05       | 46.49                        | 0.74         | 0.01      | 10.52        |
| 12/25/03       | 55.26                    | 13:18       | 38.11     | 22:36       | 47.56     |                    |           |           | 90.80             | 46.94    | W                | 2.49       | WSW        | 10.80      | 20:01       | 145.50                       | 0.00         | 0.03      | 10.52        |
| 12/26/03       | 51.85                    | 12:59       | 31.94     | 23:45       | 41.33     |                    |           |           | 93.50             | 33.78    | W                | 1.95       | WNW        | 9.12       | 00:02       | 217.20                       | 0.00         | 0.04      | 10.52        |
| 12/27/03       | 47.71                    | 15:27       | 29.50     | 06:32       | 36.89     |                    |           |           | 100.00            | 56.87    | WNW              | 1.30       | SSE        | 6.77       | 15:16       | 233.90                       | 0.00         | 0.04      | 10.52        |
| 12/28/03       | 43.85                    | 13:29       | 30.35     | 05:12       | 37.76     |                    |           |           | 100.00            | 72.20    | SSE              | 1.80       | ESE        | 11.30      | 22:25       | 120.10                       | 0.06         | 0.02      | 10.58        |
| 12/29/03       | 44.22                    | 23:22       | 40.08     | 05:53       | 42.06     |                    |           |           | 100.00            | 93.30    | SSE              | 7.65       | SE         | 24.05      | 11:33       | 24.89                        | 1.82         | 0.00      | 12.40        |
| 12/30/03       | 49.92                    | 14:25       | 40.81     | 03:26       | 43.93     |                    |           |           | 100.00            | 78.50    | NW               | 2.13       | NNW        | 9.79       | 05:25       | 90.60                        | 0.22         | 0.02      | 12.62        |
| 12/31/03       | 52.36                    | 15:10       | 40.94     | 06:26       | 46.67     |                    |           |           | 100.00            | 66.79    | SSE              | 1.86       | ESE        | 8.95       | 21:19       | 80.00                        | 0.03         | 0.02      | 12.65        |
| Average/Totals | 54.05                    |             | 40.87     |             | 46.99     |                    |           |           | 98.57             | 66.97    |                  | 2.19       |            | 11.18      |             | 137.60                       | 8.84         | 0.80      |              |
| Maximum        | 64.54                    | 12/ 3       | 52.82     | 12/ 6       | 56.07     |                    |           |           | 100.00            | 100.00   |                  | 7.65       |            | 24.05      | 12/29       | 246.10                       | 1.82         | 0.07      |              |
| Minimum        | 43.85                    | 12/28       | 29.50     | 12/27       | 36.89     |                    |           |           | 90.80             | 28.29    |                  | 0.38       |            | 5.60       | 12/ 2       | 24.89                        | 0.00         | 0.00      |              |