

| WEEKLY SOIL MOISTURE LOSS IN INCHES                                                                                                                                                                                                                                                                                                                                                      |                             |                                  |                                |     |                             |                                  |                                |     |                             |                                  |                                |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------|--------------------------------|-----|-----------------------------|----------------------------------|--------------------------------|-----|-----------------------------|----------------------------------|--------------------------------|-----|
| (Estimated Crop Evapotranspiration or ET <sub>C</sub> )                                                                                                                                                                                                                                                                                                                                  |                             |                                  |                                |     |                             |                                  |                                |     |                             |                                  |                                |     |
| 06/19/20 through 06/25/20                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |                                |     |                             |                                  |                                |     |                             |                                  |                                |     |
| Crops (Leafout Date)                                                                                                                                                                                                                                                                                                                                                                     | #148 Merced                 |                                  |                                |     | #39 Parlier                 |                                  |                                |     | #258 Lemon Cove             |                                  |                                |     |
|                                                                                                                                                                                                                                                                                                                                                                                          | 6/19 - 6/25<br>Water<br>Use | Accum'd<br>Seasonal<br>Water Use | 6/26 - 7/2<br>Estimated<br>ETc |     | 6/19 - 6/25<br>Water<br>Use | Accum'd<br>Seasonal<br>Water Use | 6/26 - 7/2<br>Estimated<br>ETc |     | 6/19 - 6/25<br>Water<br>Use | Accum'd<br>Seasonal<br>Water Use | 6/26 - 7/2<br>Estimated<br>ETc |     |
| Almonds (3/5) *                                                                                                                                                                                                                                                                                                                                                                          | 2.12                        | 19.68                            | 2.04                           |     | 2.11                        | 19.61                            | 1.97                           |     | 1.97                        | 18.30                            | 1.97                           |     |
| Pistachio (4/13) * **                                                                                                                                                                                                                                                                                                                                                                    | 2.26                        | 12.15                            | 2.17                           |     | 2.24                        | 12.14                            | 2.10                           |     | 2.11                        | 11.54                            | 2.10                           |     |
| Citrus (2/1)                                                                                                                                                                                                                                                                                                                                                                             | 1.35                        | 18.58                            | 1.26                           |     | 1.34                        | 18.17                            | 1.26                           |     | 1.24                        | 17.10                            | 1.26                           |     |
| Raisin Grapes (3/16 ) (11 ft. row spacing)                                                                                                                                                                                                                                                                                                                                               | 1.71                        | 11.10                            | 1.68                           |     | 1.69                        | 11.12                            | 1.61                           |     | 1.61                        | 10.62                            | 1.61                           |     |
| Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis) ***                                                                                                                                                                                                                                                                                                                     | 1.90                        | 11.76                            | 1.82                           |     | 1.88                        | 11.69                            | 1.75                           |     | 1.76                        | 11.09                            | 1.75                           |     |
| Walnuts (4/8)                                                                                                                                                                                                                                                                                                                                                                            | 1.85                        | 12.79                            | 1.82                           |     | 1.83                        | 12.77                            | 1.75                           |     | 1.71                        | 12.13                            | 1.75                           |     |
| Stone Fruit (3/10 )                                                                                                                                                                                                                                                                                                                                                                      | 1.79                        | 13.59                            | 1.82                           |     | 1.77                        | 13.54                            | 1.75                           |     | 1.66                        | 12.74                            | 1.75                           |     |
| Past 7 days precipitation (inches)                                                                                                                                                                                                                                                                                                                                                       | 0.00                        |                                  |                                |     | 0.00                        |                                  |                                |     | 0.00                        |                                  |                                |     |
| Accumulated precipitation (inches) (1/1/2020)                                                                                                                                                                                                                                                                                                                                            | 5.05                        |                                  |                                |     | 4.80                        |                                  |                                |     | 5.61                        |                                  |                                |     |
| Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop                                                                                                                                                                                                                                                                                 |                             |                                  |                                |     |                             |                                  |                                |     |                             |                                  |                                |     |
| * Estimates are for orchard floor conditions where vegetation is managed by some combination of strip applications of herbicides, frequent mowing or tillage, and by mid and late season shading and water stress. Weekly estimates of soil moisture loss can be as much as 25 percent higher in orchards where cover crops are planted and managed more intensively for maximum growth. |                             |                                  |                                |     |                             |                                  |                                |     |                             |                                  |                                |     |
| ** Very vigorous, non-salt affected peak season pistachio Kc can be as high as 1.19 – resulting in about 8% greater water use than shown in these tables.                                                                                                                                                                                                                                |                             |                                  |                                |     |                             |                                  |                                |     |                             |                                  |                                |     |
| PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY <sup>1</sup>                                                                                                                                                                                                                                                                                                                |                             |                                  |                                |     |                             |                                  |                                |     |                             |                                  |                                |     |
| Crops                                                                                                                                                                                                                                                                                                                                                                                    | #148 Merced                 |                                  |                                |     | #39 Parlier                 |                                  |                                |     | #258 Lemon Cove             |                                  |                                |     |
| System Efficiency >>                                                                                                                                                                                                                                                                                                                                                                     | 65%                         | 75%                              | 85%                            | 95% | 65%                         | 75%                              | 85%                            | 95% | 65%                         | 75%                              | 85%                            | 95% |
| Almonds (3/5)                                                                                                                                                                                                                                                                                                                                                                            | 3.3                         | 2.8                              | 2.5                            | 2.2 | 3.2                         | 2.8                              | 2.5                            | 2.2 | 3.0                         | 2.6                              | 2.3                            | 2.1 |
| Pistachio (4/13)                                                                                                                                                                                                                                                                                                                                                                         | 3.5                         | 3.0                              | 2.7                            | 2.4 | 3.4                         | 3.0                              | 2.6                            | 2.4 | 3.2                         | 2.8                              | 2.5                            | 2.2 |
| Citrus (2/1)                                                                                                                                                                                                                                                                                                                                                                             | 2.1                         | 1.8                              | 1.6                            | 1.4 | 2.1                         | 1.8                              | 1.6                            | 1.4 | 1.9                         | 1.7                              | 1.5                            | 1.3 |
| Raisin Grapes (3/16 ) (11 ft. row spacing)***                                                                                                                                                                                                                                                                                                                                            | 2.6                         | 2.3                              | 2.0                            | 1.8 | 2.6                         | 2.3                              | 2.0                            | 1.8 | 2.5                         | 2.1                              | 1.9                            | 1.7 |
| Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis) ***                                                                                                                                                                                                                                                                                                                     | 2.9                         | 2.5                              | 2.2                            | 2.0 | 2.9                         | 2.5                              | 2.2                            | 2.0 | 2.7                         | 2.3                              | 2.1                            | 1.9 |
| Walnuts (4/8)                                                                                                                                                                                                                                                                                                                                                                            | 2.8                         | 2.5                              | 2.2                            | 1.9 | 2.8                         | 2.4                              | 2.2                            | 1.9 | 2.6                         | 2.3                              | 2.0                            | 1.8 |
| Stone Fruit (3/10 )                                                                                                                                                                                                                                                                                                                                                                      | 2.8                         | 2.4                              | 2.1                            | 1.9 | 2.7                         | 2.4                              | 2.1                            | 1.9 | 2.6                         | 2.2                              | 2.0                            | 1.7 |
| 1 The amount of water required by a specific irrigation system to satisfy evapotranspiration. Typical ranges in irrigation system efficiency are: Drip, 80%-95%; Micro-sprinkler, 80%-90%; Sprinkler, 70%-85%; and Border-furrow, 50%-75%.                                                                                                                                               |                             |                                  |                                |     |                             |                                  |                                |     |                             |                                  |                                |     |
| PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE                                                                                                                                                                                                                                                                                                                                     |                             |                                  |                                |     |                             |                                  |                                |     |                             |                                  |                                |     |
| Crops                                                                                                                                                                                                                                                                                                                                                                                    | #148 Merced                 |                                  |                                |     | #39 Parlier                 |                                  |                                |     | #258 Lemon Cove             |                                  |                                |     |
| Almonds 115 Trees/A                                                                                                                                                                                                                                                                                                                                                                      | 779                         | 661                              | 590                            | 519 | 756                         | 661                              | 590                            | 519 | 708                         | 614                              | 543                            | 496 |
| Pistachio 106 Trees/A                                                                                                                                                                                                                                                                                                                                                                    | 872                         | 747                              | 673                            | 598 | 847                         | 747                              | 648                            | 598 | 797                         | 698                              | 623                            | 548 |
| Citrus 110 Trees/A                                                                                                                                                                                                                                                                                                                                                                       | 518                         | 444                              | 395                            | 346 | 518                         | 444                              | 395                            | 346 | 469                         | 420                              | 370                            | 321 |
| Raisin Grapes 566 Vines/A                                                                                                                                                                                                                                                                                                                                                                | 125                         | 110                              | 96                             | 86  | 125                         | 110                              | 96                             | 86  | 120                         | 101                              | 91                             | 82  |
| Winegrapes 622 Vines/A                                                                                                                                                                                                                                                                                                                                                                   | 127                         | 109                              | 96                             | 87  | 127                         | 109                              | 96                             | 87  | 118                         | 100                              | 92                             | 83  |
| Walnuts 76 Trees/A                                                                                                                                                                                                                                                                                                                                                                       | 1000                        | 893                              | 786                            | 679 | 1000                        | 857                              | 786                            | 679 | 929                         | 822                              | 715                            | 643 |
| Stonefruit 172 Trees/A                                                                                                                                                                                                                                                                                                                                                                   | 442                         | 379                              | 332                            | 300 | 426                         | 379                              | 332                            | 300 | 410                         | 347                              | 316                            | 268 |
| For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.                                                                                                                                                                                                                                                   |                             |                                  |                                |     |                             |                                  |                                |     |                             |                                  |                                |     |

**06/19/20 through 06/25/20**

Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop

\* Estimates are for orchard floor conditions where vegetation is managed by some combination of strip applications of herbicides, frequent mowing or tillage, and by mid and late season shading and water stress. Weekly estimates of soil moisture loss can be as much as 25 percent higher in orchards where cover crops are planted and managed more intensively for maximum growth.

\*\* Very vigorous, non-salt affected peak season pistachio Kc can be as high as 1.19 – resulting in about 8% greater water use than shown in these tables.

| Crops                                                            | #124 Panoche |     |     |     | #2 Five Points |     |     |     | #15 Stratford |     |     |     |
|------------------------------------------------------------------|--------------|-----|-----|-----|----------------|-----|-----|-----|---------------|-----|-----|-----|
| System Efficiency >>                                             | 65%          | 75% | 85% | 95% | 65%            | 75% | 85% | 95% | 65%           | 75% | 85% | 95% |
| Almonds (3/5)                                                    | 3.5          | 3.0 | 2.7 | 2.4 | 3.4            | 2.9 | 2.6 | 2.3 | 3.6           | 3.1 | 2.7 | 2.4 |
| Pistachio (4/13)                                                 | 3.7          | 3.2 | 2.8 | 2.5 | 3.6            | 3.1 | 2.7 | 2.4 | 3.8           | 3.3 | 2.9 | 2.6 |
| Citrus (2/1)                                                     | 2.2          | 1.9 | 1.7 | 1.5 | 2.1            | 1.8 | 1.6 | 1.4 | 2.2           | 1.9 | 1.7 | 1.5 |
| Raisin Grapes (3/16 ) (11 ft. row spacing)                       | 2.8          | 2.5 | 2.2 | 1.9 | 2.7            | 2.4 | 2.1 | 1.9 | 2.9           | 2.5 | 2.2 | 2.0 |
| Winegrapes (3/16 ) (10 ft. spacing on California Sprawl Trellis) | 3.1          | 2.7 | 2.4 | 2.1 | 3.0            | 2.6 | 2.3 | 2.0 | 3.1           | 2.7 | 2.4 | 2.1 |
| Walnuts (4/8)                                                    | 3.1          | 2.7 | 2.3 | 2.1 | 2.9            | 2.5 | 2.2 | 2.0 | 3.1           | 2.7 | 2.4 | 2.1 |
| Stone Fruit (3/10 )                                              | 3.0          | 2.6 | 2.3 | 2.0 | 2.8            | 2.5 | 2.2 | 1.9 | 3.0           | 2.6 | 2.3 | 2.0 |

<sup>1</sup> The amount of water required by a specific irrigation system to satisfy evapotranspiration. Typical ranges in irrigation system efficiency are: Drip, 80%-95%; Micro-sprinkler, 80%-90%; Sprinkler, 70%-85%; and Border-furrow, 50%-75%.

| Crops                     | #124 Panoche |     |     |     | #2 Five Points |     |     |     | #15 Stratford |     |     |     |
|---------------------------|--------------|-----|-----|-----|----------------|-----|-----|-----|---------------|-----|-----|-----|
| Almonds 115 Trees/A       | 826          | 708 | 638 | 567 | 803            | 685 | 614 | 543 | 850           | 732 | 638 | 567 |
| Pistachio 106 Trees/A     | 922          | 797 | 698 | 623 | 897            | 772 | 673 | 598 | 947           | 822 | 722 | 648 |
| Citrus 110 Trees/A        | 543          | 469 | 420 | 370 | 518            | 444 | 395 | 346 | 543           | 469 | 420 | 370 |
| Raisin Grapes 566 Vines/A | 134          | 120 | 106 | 91  | 130            | 115 | 101 | 91  | 139           | 120 | 106 | 96  |
| Winegrapes 622 Vines/A    | 135          | 118 | 105 | 92  | 131            | 114 | 100 | 87  | 135           | 118 | 105 | 92  |
| Walnuts 76 Trees/A        | 1108         | 965 | 822 | 750 | 1036           | 893 | 786 | 715 | 1108          | 965 | 857 | 750 |
| Stonefruit 172 Trees/A    | 474          | 410 | 363 | 316 | 442            | 395 | 347 | 300 | 474           | 410 | 363 | 316 |

For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.