

**08/25/23 through 08/31/23**

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.

<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                     | #148 Merced             |     |     |     | #39 Parlier             |     |     |     | #258 Lemon Cove         |     |     |     |
|---------------------------|-------------------------|-----|-----|-----|-------------------------|-----|-----|-----|-------------------------|-----|-----|-----|
| Almonds 115 Trees/A       | 638                     | 543 | 472 | 425 | 661                     | 567 | 496 | 449 | 614                     | 519 | 472 | 425 |
| Pistachio 106 Trees/A     | 673                     | 573 | 498 | 448 | 698                     | 598 | 523 | 473 | 648                     | 573 | 498 | 448 |
| Citrus 110 Trees/A        | 420                     | 346 | 321 | 272 | 420                     | 370 | 321 | 296 | 395                     | 346 | 296 | 272 |
| Raisin Grapes 566 Vines/A | Assume all grape        |     |     | 58  | Assume all grape        |     |     | 58  | Assume all grape        |     |     | 58  |
| Winegrapes 622 Vines/A    | irrigation type is drip |     |     | 61  | irrigation type is drip |     |     | 61  | irrigation type is drip |     |     | 57  |
| Walnuts 76 Trees/A        | 1000                    | 857 | 750 | 679 | 1036                    | 893 | 786 | 715 | 965                     | 822 | 750 | 679 |
| Stonefruit 172 Trees/A    | 426                     | 363 | 316 | 284 | 442                     | 379 | 332 | 300 | 410                     | 363 | 316 | 284 |

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| WEEKLY SOIL MOISTURE LOSS IN INCHES                                                                                                                                                                                                                                                                                                                                                      |                            |                                  |                              |     |  |                            |                                  |                              |     |  |                            |                                  |                              |     |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|------------------------------|-----|--|----------------------------|----------------------------------|------------------------------|-----|--|----------------------------|----------------------------------|------------------------------|-----|--|
| (Estimated Crop Evapotranspiration or ET <sub>c</sub> )                                                                                                                                                                                                                                                                                                                                  |                            |                                  |                              |     |  |                            |                                  |                              |     |  |                            |                                  |                              |     |  |
| 08/25/23 through 08/31/23                                                                                                                                                                                                                                                                                                                                                                |                            |                                  |                              |     |  |                            |                                  |                              |     |  |                            |                                  |                              |     |  |
| Crops (Leafout Date)                                                                                                                                                                                                                                                                                                                                                                     | #124 Panoche               |                                  |                              |     |  | #2 Five Points             |                                  |                              |     |  | #15 Stratford              |                                  |                              |     |  |
|                                                                                                                                                                                                                                                                                                                                                                                          | 8/25- 8/31<br>Water<br>Use | Accum'd<br>Seasonal<br>Water Use | 9/1- 9/7<br>Estimated<br>ETc |     |  | 8/25- 8/31<br>Water<br>Use | Accum'd<br>Seasonal<br>Water Use | 9/1- 9/7<br>Estimated<br>ETc |     |  | 8/25- 8/31<br>Water<br>Use | Accum'd<br>Seasonal<br>Water Use | 9/1- 9/7<br>Estimated<br>ETc |     |  |
| Almonds (3/13) *                                                                                                                                                                                                                                                                                                                                                                         | 1.85                       | 38.06                            | 1.60                         |     |  | 1.94                       | 37.32                            | 1.77                         |     |  | 1.92                       | 40.64                            | 1.75                         |     |  |
| Pistachio (4/20) * **                                                                                                                                                                                                                                                                                                                                                                    | 1.88                       | 32.21                            | 1.64                         |     |  | 1.99                       | 31.34                            | 1.81                         |     |  | 1.98                       | 34.01                            | 1.78                         |     |  |
| Citrus (2/1)                                                                                                                                                                                                                                                                                                                                                                             | 1.20                       | 28.50                            | 1.10                         |     |  | 1.25                       | 28.19                            | 1.25                         |     |  | 1.24                       | 30.63                            | 1.24                         |     |  |
| Raisin Grapes (3/22 ) (11 ft. row spacing)                                                                                                                                                                                                                                                                                                                                               | 1.22                       | 20.53                            | 1.07                         |     |  | 1.29                       | 20.06                            | 1.17                         |     |  | 1.28                       | 21.68                            | 1.16                         |     |  |
| Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)                                                                                                                                                                                                                                                                                                                          | 1.39                       | 22.54                            | 1.22                         |     |  | 1.47                       | 21.96                            | 1.35                         |     |  | 1.45                       | 23.80                            | 1.33                         |     |  |
| Walnuts (4/20)                                                                                                                                                                                                                                                                                                                                                                           | 1.95                       | 30.36                            | 1.68                         |     |  | 2.06                       | 29.51                            | 1.85                         |     |  | 2.05                       | 32.09                            | 1.82                         |     |  |
| Stone Fruit (3/19)                                                                                                                                                                                                                                                                                                                                                                       | 1.88                       | 33.55                            | 1.64                         |     |  | 1.99                       | 32.75                            | 1.81                         |     |  | 1.98                       | 35.65                            | 1.78                         |     |  |
| Past 7 days precipitation (inches)                                                                                                                                                                                                                                                                                                                                                       | 0.00                       |                                  |                              |     |  | 0.00                       |                                  |                              |     |  | 0.00                       |                                  |                              |     |  |
| Accumulated precipitation (inches) (1/1/2023)                                                                                                                                                                                                                                                                                                                                            | 6.36                       |                                  |                              |     |  | 8.39                       |                                  |                              |     |  | 8.15                       |                                  |                              |     |  |
| 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                                                                                                                                                                                                                                                                                                                                                                                    | #124 Panoche               |                                  |                              |     |  | #2 Five Points             |                                  |                              |     |  | #15 Stratford              |                                  |                              |     |  |
| System Efficiency >>                                                                                                                                                                                                                                                                                                                                                                     | 65%                        | 75%                              | 85%                          | 95% |  | 65%                        | 75%                              | 85%                          | 95% |  | 65%                        | 75%                              | 85%                          | 95% |  |
| Almonds (3/13)                                                                                                                                                                                                                                                                                                                                                                           | 2.8                        | 2.5                              | 2.2                          | 1.9 |  | 3.0                        | 2.6                              | 2.3                          | 2.0 |  | 3.0                        | 2.6                              | 2.3                          | 2.0 |  |
| Pistachio (4/20)                                                                                                                                                                                                                                                                                                                                                                         | 2.9                        | 2.5                              | 2.2                          | 2.0 |  | 3.1                        | 2.7                              | 2.3                          | 2.1 |  | 3.0                        | 2.6                              | 2.3                          | 2.1 |  |
| Citrus (2/1)                                                                                                                                                                                                                                                                                                                                                                             | 1.8                        | 1.6                              | 1.4                          | 1.3 |  | 1.9                        | 1.7                              | 1.5                          | 1.3 |  | 1.9                        | 1.7                              | 1.5                          | 1.3 |  |
| Raisin Grapes (3/22 ) (11 ft. row spacing)                                                                                                                                                                                                                                                                                                                                               | Assume all grape           |                                  |                              | 1.3 |  | Assume all grape           |                                  |                              | 1.4 |  | Assume all grape           |                                  |                              | 1.3 |  |
| Winegrapes (3/22) (10 ft. spacing on California Sprawl Trellis)                                                                                                                                                                                                                                                                                                                          | irrigation type is drip    |                                  |                              | 1.5 |  | irrigation type is drip    |                                  |                              | 1.5 |  | irrigation type is drip    |                                  |                              | 1.5 |  |
| Walnuts (4/20)                                                                                                                                                                                                                                                                                                                                                                           | 3.0                        | 2.6                              | 2.3                          | 2.1 |  | 3.2                        | 2.7                              | 2.4                          | 2.2 |  | 3.2                        | 2.7                              | 2.4                          | 2.2 |  |
| Stone Fruit (3/19)                                                                                                                                                                                                                                                                                                                                                                       | 2.9                        | 2.5                              | 2.2                          | 2.0 |  | 3.1                        | 2.7                              | 2.3                          | 2.1 |  | 3.0                        | 2.6                              | 2.3                          | 2.1 |  |
| 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                                                                                                                                                                                                                                                                                                                                                                                    | #124 Panoche               |                                  |                              |     |  | #2 Five Points             |                                  |                              |     |  | #15 Stratford              |                                  |                              |     |  |
| Almonds 115 Trees/A                                                                                                                                                                                                                                                                                                                                                                      | 661                        | 590                              | 519                          | 449 |  | 708                        | 614                              | 543                          | 472 |  | 708                        | 614                              | 543                          | 472 |  |
| Pistachio 106 Trees/A                                                                                                                                                                                                                                                                                                                                                                    | 722                        | 623                              | 548                          | 498 |  | 772                        | 673                              | 573                          | 523 |  | 747                        | 648                              | 573                          | 523 |  |
| Citrus 110 Trees/A                                                                                                                                                                                                                                                                                                                                                                       | 444                        | 395                              | 346                          | 321 |  | 469                        | 420                              | 370                          | 321 |  | 469                        | 420                              | 370                          | 321 |  |
| Raisin Grapes 566 Vines/A                                                                                                                                                                                                                                                                                                                                                                | Assume all grape           |                                  |                              | 62  |  | Assume all grape           |                                  |                              | 67  |  | Assume all grape           |                                  |                              | 62  |  |
| Winegrapes 622 Vines/A                                                                                                                                                                                                                                                                                                                                                                   | irrigation type is drip    |                                  |                              | 65  |  | irrigation type is drip    |                                  |                              | 65  |  | irrigation type is drip    |                                  |                              | 65  |  |
| Walnuts 76 Trees/A                                                                                                                                                                                                                                                                                                                                                                       | 1072                       | 929                              | 822                          | 750 |  | 1143                       | 965                              | 857                          | 786 |  | 1143                       | 965                              | 857                          | 786 |  |
| Stonefruit 172 Trees/A                                                                                                                                                                                                                                                                                                                                                                   | 458                        | 395                              | 347                          | 316 |  | 489                        | 426                              | 363                          | 332 |  | 474                        | 410                              | 363                          | 332 |  |
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