

ETc Table for Irrigation Scheduling and Design

Zone 9 Monthly Evapotranspiration

Drip/Micro Irrigation Typical Year

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Table does not include adjustments for bare spots and reduced vigor

1997 (Typical Year)

|                                          | January | February | March  | April  | May    | June   | July   |
|------------------------------------------|---------|----------|--------|--------|--------|--------|--------|
|                                          | inches  | inches   | inches | inches | inches | inches | inches |
| Precipitation                            | 5.64    | 0.49     | 0.25   | 1      | 0.02   | 0.03   | 0.02   |
| Grass Reference ETo                      | 1.53    | 2.86     | 4.54   | 5.51   | 6.58   | 5.58   | 6.56   |
| Apple, Pear, Cherry, Plum and Prune      | 1.71    | 0.65     | 0.64   | 1.99   | 2.84   | 4.26   | 5.64   |
| Apples, Plums, Cherries etc w/covercrop  | 1.91    | 2.98     | 3.61   | 5.06   | 5.34   | 4.76   | 5.66   |
| Peach, Nectarine and Apricots            | 1.71    | 0.65     | 0.75   | 2.24   | 2.9    | 4.08   | 5.3    |
| Immature Peaches, Nectarines, etc        | 1.7     | 0.65     | 0.52   | 1.64   | 1.55   | 2.17   | 2.81   |
| Almonds                                  | 1.71    | 0.65     | 0.75   | 2.68   | 4.4    | 4.48   | 5.37   |
| Almonds w/covercrop                      | 1.91    | 2.56     | 3.09   | 4.53   | 5.86   | 5.41   | 6.29   |
| Immature Almonds                         | 1.7     | 0.65     | 0.52   | 1.86   | 2.34   | 2.51   | 2.8    |
| Walnuts                                  | 1.71    | 0.65     | 0.47   | 2.12   | 2.46   | 3.81   | 6.28   |
| Pistachio                                | 1.71    | 0.65     | 0.28   | 2      | 1.98   | 3.65   | 6.23   |
| Pistachio w/ covercrop                   | 1.91    | 2.56     | 2.57   | 4.35   | 4.37   | 4.61   | 6.47   |
| Immature Pistachio                       | 1.7     | 0.65     | 0.28   | 1.53   | 1.03   | 2.1    | 3.51   |
| Misc. Deciduous                          | 1.71    | 0.65     | 0.28   | 1.76   | 1.74   | 3.35   | 5.39   |
| Cotton                                   | 1.67    | 0.66     | 0.84   | 1.57   | 1.55   | 4.45   | 6.91   |
| Misc. field crops                        | 1.67    | 0.66     | 1.41   | 1.99   | 2.29   | 5.23   | 6.26   |
| Small Vegetables                         | 1.74    | 2.48     | 4.41   | 3.38   | 3.53   | 5.34   | 1.33   |
| Tomatoes and Peppers                     | 1.67    | 0.66     | 1.04   | 1.6    | 3.45   | 5.94   | 6.16   |
| Potatoes, Sugar beets, Turnip etc..      | 1.68    | 1.08     | 2.42   | 5.95   | 7.26   | 6.17   | 5.88   |
| Melons, Squash, and Cucumbers            | 1.67    | 0.66     | 0.29   | 1.03   | 0.8    | 0.82   | 3.57   |
| Onions and Garlic                        | 1.77    | 2.4      | 4.11   | 5.08   | 4.3    | 0.57   | 0.03   |
| Strawberries                             | 1.67    | 0.66     | 1.41   | 1.99   | 2.29   | 5.23   | 6.26   |
| Flowers, Nursery and Christmas Tree      | 1.71    | 0.65     | 0.28   | 1.76   | 1.74   | 3.35   | 5.39   |
| Citrus (no ground cover)                 | 1.91    | 2.71     | 3.35   | 4.41   | 3.93   | 3.31   | 3.85   |
| Immature Citrus                          | 1.84    | 1.6      | 1.73   | 2.77   | 2.05   | 1.62   | 1.93   |
| Avocado                                  | 1.71    | 0.65     | 0.28   | 1.76   | 1.74   | 3.35   | 5.39   |
| Misc Subtropical                         | 1.71    | 0.65     | 0.28   | 1.76   | 1.74   | 3.35   | 5.39   |
| Grape Vines with 35% canopy              | 1.7     | 0.65     | 0.64   | 1.93   | 1.69   | 1.68   | 1.99   |
| Grape Vines with cover crop (40% canopy) | 1.85    | 2.17     | 2.29   | 2.92   | 2.46   | 2.32   | 2.66   |
| Immature Grapes                          | 1.69    | 0.66     | 0.52   | 1.67   | 1.54   | 1.72   | 2.05   |

|                                          | August<br>inches | September<br>inches | October<br>inches | November<br>inches | December<br>inches | Annual<br>inches |
|------------------------------------------|------------------|---------------------|-------------------|--------------------|--------------------|------------------|
| Precipitation                            | 0                | 0.21                | 0.52              | 3.31               | 4.11               | 15.6             |
| Grass Reference ETo                      | 6.66             | 5.28                | 4.16              | 2.17               | 2.35               | 53.77            |
| Apple, Pear, Cherry, Plum and Prune      | 5.72             | 4.51                | 3.32              | 1.33               | 1.75               | 34.35            |
| Apples, Plums, Cherries etc w/covercrop  | 5.77             | 4.52                | 3.66              | 2.18               | 2.9                | 48.36            |
| Peach, Nectarine and Apricots            | 5.37             | 4.24                | 3.11              | 1.35               | 1.75               | 33.45            |
| Immature Peaches, Nectarines, etc        | 2.9              | 2.32                | 2.03              | 1.3                | 1.74               | 21.34            |
| Almonds                                  | 5.39             | 4.32                | 3.4               | 1.93               | 1.75               | 36.82            |
| Almonds w/covercrop                      | 6.46             | 5.12                | 3.78              | 2.17               | 2.78               | 49.96            |
| Immature Almonds                         | 2.92             | 2.41                | 2.12              | 1.62               | 1.74               | 23.2             |
| Walnuts                                  | 6.43             | 4.96                | 3.51              | 1.96               | 1.75               | 36.11            |
| Pistachio                                | 6.73             | 5.38                | 3.66              | 1.95               | 1.75               | 35.98            |
| Pistachio w/ covercrop                   | 6.77             | 5.32                | 4.08              | 2.28               | 2.78               | 48.06            |
| Immature Pistachio                       | 3.88             | 3.14                | 2.26              | 1.68               | 1.74               | 23.5             |
| Misc. Deciduous                          | 5.48             | 4.43                | 3.36              | 1.46               | 1.75               | 31.38            |
| Cotton                                   | 6.66             | 2.26                | 0.55              | 1.27               | 1.74               | 30.14            |
| Misc. field crops                        | 2.71             | 0.18                | 0.52              | 1.27               | 1.74               | 25.93            |
| Small Vegetables                         | 0                | 0.19                | 0.52              | 1.28               | 1.91               | 26.12            |
| Tomatoes and Peppers                     | 0.99             | 0.2                 | 0.52              | 1.27               | 1.74               | 25.24            |
| Potatoes, Sugar beets, Turnip etc..      | 0.07             | 0.2                 | 0.52              | 1.27               | 1.74               | 34.24            |
| Melons, Squash, and Cucumbers            | 5.05             | 1.81                | 0.53              | 1.27               | 1.74               | 19.23            |
| Onions and Garlic                        | 0                | 0.18                | 0.52              | 1.91               | 2.02               | 22.9             |
| Strawberries                             | 2.71             | 0.18                | 0.52              | 1.27               | 1.74               | 25.93            |
| Flowers, Nursery and Christmas Tree      | 5.48             | 4.43                | 3.36              | 1.46               | 1.75               | 31.38            |
| Citrus (no ground cover)                 | 3.89             | 3.14                | 2.97              | 2.07               | 2.77               | 38.32            |
| Immature Citrus                          | 2                | 1.68                | 1.77              | 1.72               | 2.3                | 23.02            |
| Avocado                                  | 5.48             | 4.43                | 3.36              | 1.46               | 1.75               | 31.38            |
| Misc Subtropical                         | 5.48             | 4.43                | 3.36              | 1.46               | 1.75               | 31.38            |
| Grape Vines with 35% canopy              | 1.96             | 1.54                | 0.53              | 1.27               | 1.74               | 17.31            |
| Grape Vines with cover crop (40% canopy) | 2.5              | 2.17                | 2.29              | 1.73               | 2.61               | 27.97            |
| Immature Grapes                          | 1.87             | 1.48                | 0.53              | 1.27               | 1.74               | 16.75            |