### Micro Scheduling Check

**Producer:**
**Field:**
**Date:** 5/22/2012

#### Amount of water typically applied during Peak ET

\[
\text{Inches} = 96.3 \times Q \text{ (gpm)} \times \text{Set time} \\
\text{Area (SQFT)} \quad \text{Set Time} \quad 7 \text{ hours}^{**} \\
\text{Area} = 1.6667 \text{ Acres}^{****} \\
\text{Inches} = \frac{0.325 \text{ inches}}{} \\
\]

#### Estimate of crop water use between irrigations during Peak ET

\[
\text{Inches} = \text{ET} \times \text{Days between irrigations} \\
\text{Days} = 2.65 \text{ days} \\
\text{Peak ET} = 0.12 \text{ inches / day}^{***} \\
\text{Inches} = \frac{0.318 \text{ inches}}{} \\
\]

Application currently meets Peak Crop ET demand without adjustment for DU. To ensure all vines receive adequate water prior to fruiting, set time should be adjusted to account for DU.

#### Irrigation Target adjusted for DU

\[
\text{Inches} = \frac{\text{Peak Crop Demand}}{\text{DU}} \\
\text{DU} = 0.83^{****} \\
\text{Demand} = 0.32 \text{ inches} \\
\text{Inches} = \frac{0.32}{0.83} = \frac{0.383 \text{ inches}}{} \\
\]

#### Set time adjusted to account for DU

\[
\text{Hours} = \frac{\text{Irrigation Target} \times \text{Area}}{96.3 \times Q \text{ (gpm)}} \\
\text{IT} = 0.38 \text{ inches} \\
\text{Area} = 1.6667 \text{ Acres}^{****} \\
\text{Q} = 35 \text{ gpm}^{*} \\
\text{Hours} = \frac{27815.978}{3370.5} = 8.25 \text{ hours} \\
\]

* Estimated flow rate based on records taken before flow meter stopped working
** Set time per block
*** Peak daily ET assuming 60% canopy
**** DU for entire field. DU for individual block may be higher.
***** Area per block (average) 15 AC / 9 blocks

### Application Efficiency

**Producer:**
**Field:**
**Date:**

#### Amount of water typically applied during Peak ET

\[
\text{AE} = \frac{\text{Average depth to target}}{\text{Average depth applied}} \\
\text{Average depth to target} = 0.318 \text{ inches} \\
\text{Average depth applied} = 0.325 \text{ inches} \\
\text{AE} = \frac{97.9\%}{97.9\%} \\
\]

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*Estimated values for flow rate and area calculations.