Micro Scheduling Check

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

Amount of water typically applied during Peak ET

Inches = 96.3 x Q (gpm) x Set time / Area (SQFT)

Q = 35 gpm *
Set Time 7 hours**
Area = 1.6667 Acres *****

Inches = **0.325 inches**

Estimate of crop water use between irrigations during Peak ET

Inches = ET x Days between irrigations

Days = 2.65 days
Peak ET = 0.12 inches / day***

Inches = **0.318 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

Inches = Peak Crop Demand / DU

DU = 0.83 ****
Demand 0.32 inches

Inches = 0.32 / 0.83 = **0.383 inches**

Set time adjusted to account for DU

Hours = Irrigation Target x Area / 96.3 x Q (gpm)

IT = 0.38 inches
Area = 1.6667 Acres *****
Q = 35 gpm *

Hours = 27815.978 / 3370.5 = **8.25 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

AE = Average depth to target / Average depth applied = 0.318 inches / 0.325 inches

AE = **97.9% inches ***