

Pistachio Day – January 12, Day 1

Additional Resources

FARMS Web App: <https://ciswma.lawr.ucdavis.edu/FARMS-BETA/farms>

UC Davis soil web survey: <https://casoilresource.lawr.ucdavis.edu/gmap/>

UC Davis biometeorology web page: http://biomet.ucdavis.edu/irrigation_scheduling/bis/BIS.htm

Leaching calculations:

http://cekern.ucanr.edu/Irrigation_Management/ANALYTICAL_CONVERSIONS_AND_LEACHING_CALCULATIONS/

Leaching: <https://www.sjvtandv.com/blog/c5idsntte0raissnzdmixw7dfkri45>

Knowing orchard's carbohydrate status:

https://psfaculty.plantsciences.ucdavis.edu/plantsciences_faculty/zwieniecki/CR/cr.html

Other Questions Answered

Improving Your Orchard's Distribution Uniformity

Isaya Kisekka, Professor and Irrigation Engineer, Land, Air and Water Resources, UC Davis

Question: How many flights needed to develop an accurate TU?

- In our study we used 7 flights. On average 10 flights is reasonable balance between cost and reasonable estimates of TU.

Question: What method was used to collect your Transpiration Uniformity? Has drone technology advanced enough to collect this data?

- We used airplane in our research but a drone can be used to achieve the same goal if it has a thermal infrared camera.

The Effects of Smoke on Evapotranspiration

Kosana Suvocarev, UC ANR CE Specialist, Land, Air and Water Dept., UC Davis

Question: This year's nut size (oz count) and split percentage was the highest it's been in several years. East side of Valley pistachios also didn't have severe alternaria and had good hull integrity. These are all good things for pistachio production. No one wants wildfires to be part of a "regular" growing season, but it seems like reducing solar radiation in July/Aug/Sept could be a good thing. Would you say a reflective material such as kaolin clay applied in summer could produce a beneficial result similar to what we saw this year?

- Maybe I wasn't clear, but wanted to show that less direct light is not bad as long as it does not go below the light saturation curve - which based on measurements that I had in Davis, where the days were very smoky did not reduce the important fraction of incoming light but was probably increasing the diffuse fraction. During 'regular' growing season without smoke, I would expect that there is a big portion of incoming light that is unused, so I would not recommend kaolin clay unless it is necessary for your soil management. According to some folks, kaolin clay might impede stomatal conductance. I am glad you had good yields. Let me know if you have any other questions in the future ksuvocarev@ucdavis.edu

Erratic Spring Temps of 2020 and Picking Males in an Uncertain Climate Future

Craig Kallsen, Advisor, UCCE Kern County

Question: Does early defoliation help earlier start for chill accumulation?

- There is no evidence that early defoliation help start early chill accumulation. My own opinion is that early defoliation provides a shock to the tree that will slow growth, and, hopefully slow growth. I think the best way to slow the tree down going into winter is to use drought stress and this is only practicable on immature trees. Drought stress on mature trees will likely result in poor nut split.