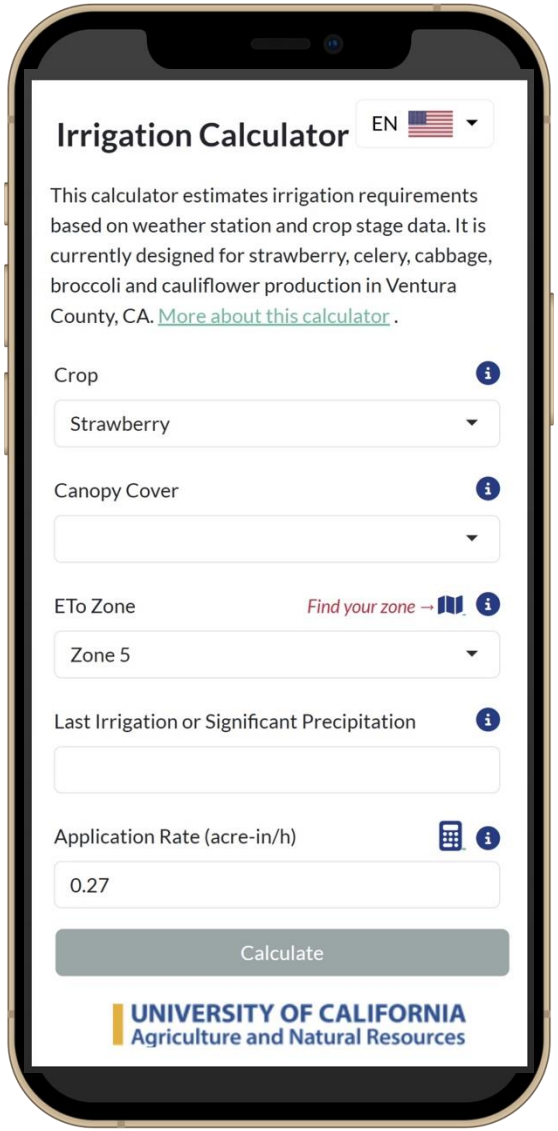


Irrigation App to Increase Data-Driven Decisions

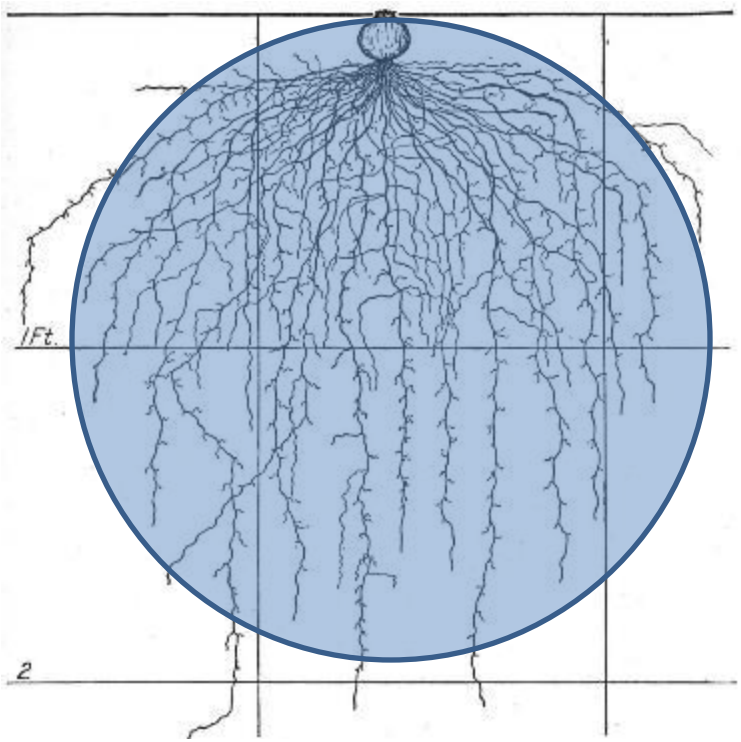
Andre Biscaro,
Irrigation and Water Resources Advisor,
UC ANR

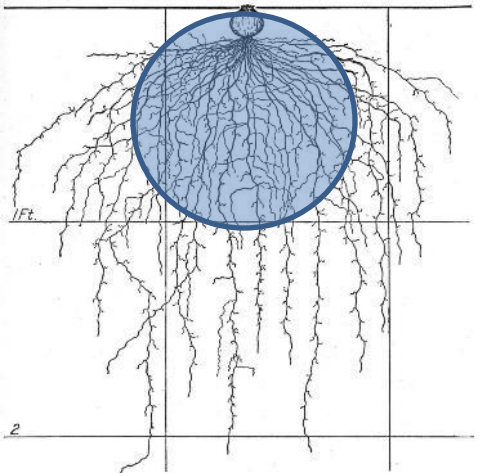
Andy Lyons,
IGIS, UC ANR

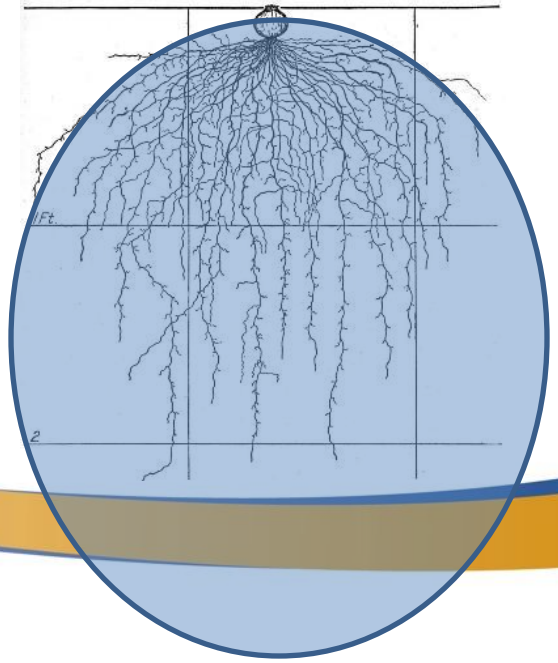
University of California
Agriculture and Natural Resources

Inefficient irrigation

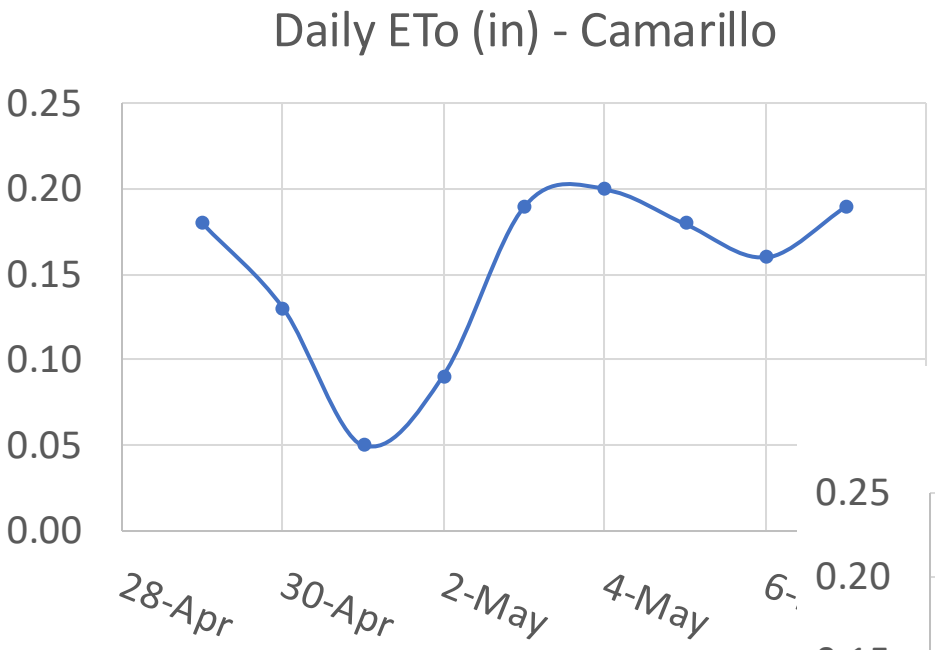
Ideal irrigation

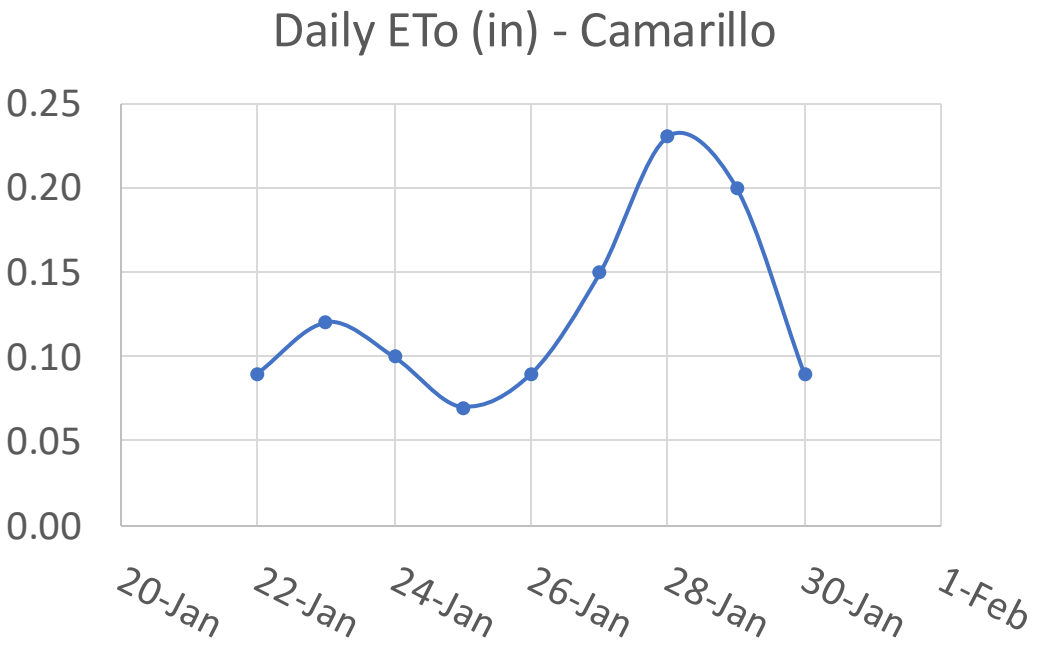




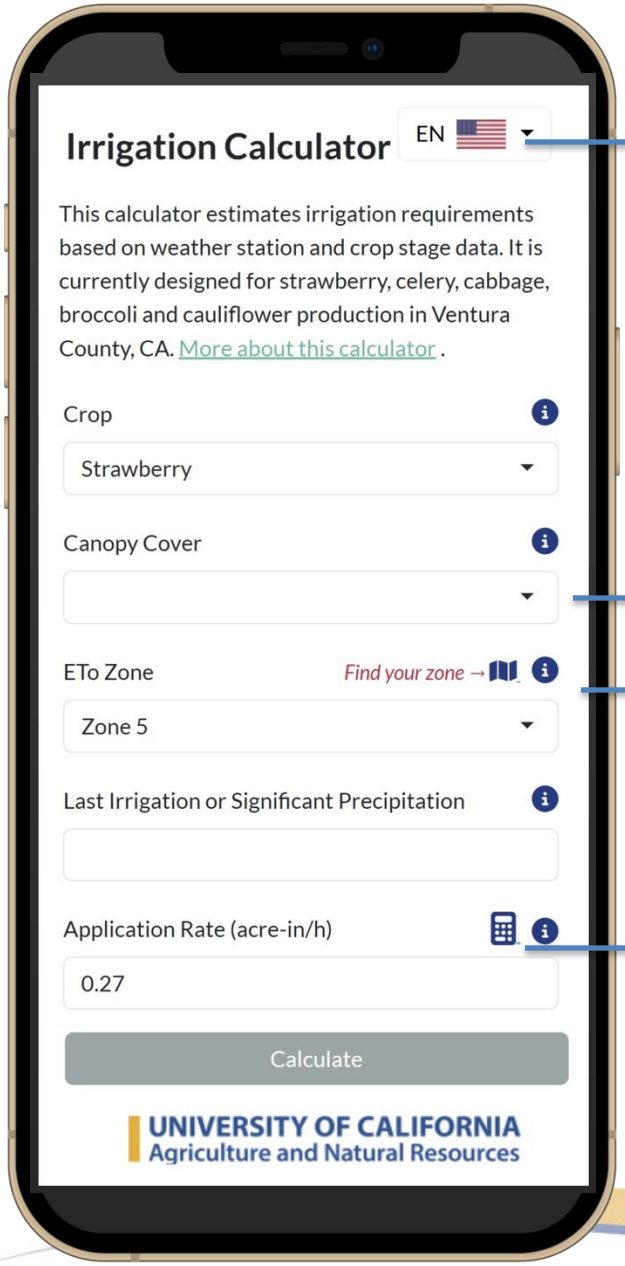


Why is irrigation scheduling challenging?





University of California
Agriculture and Natural Resources



English and Spanish

Adjusts the crop coefficient

Collects ETo data since last irrigation

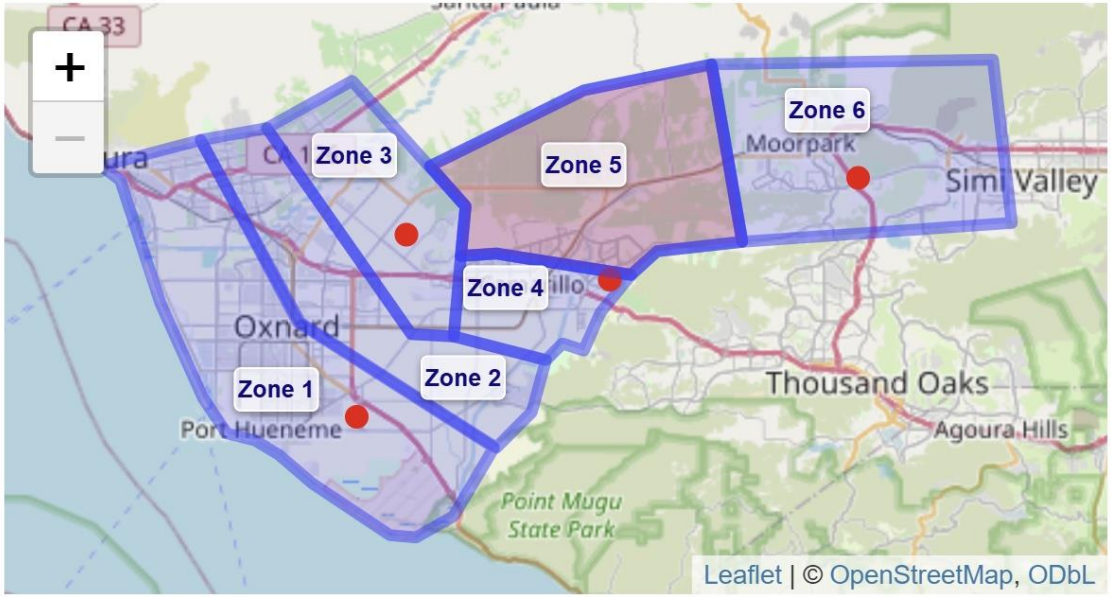
Converts volume to time

- ✓ Distribution Uniformity: 85%
- ✓ Leaching Fraction: 10%

University of California
Agriculture and Natural Resources

ETo Zones Map

Below are the ETo Zones for Ventura. Click on a zone to use it. The red dots are weather stations.



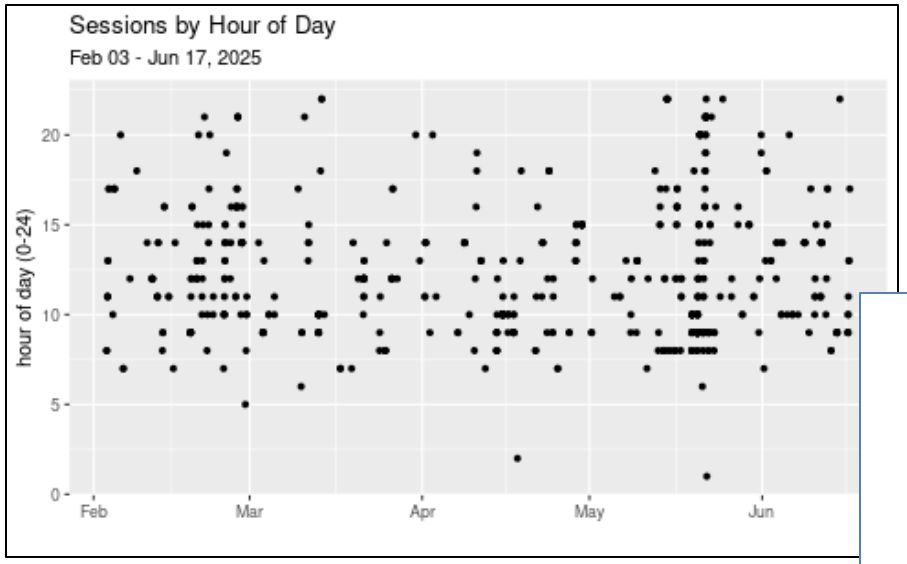
Cancel | Use this zone

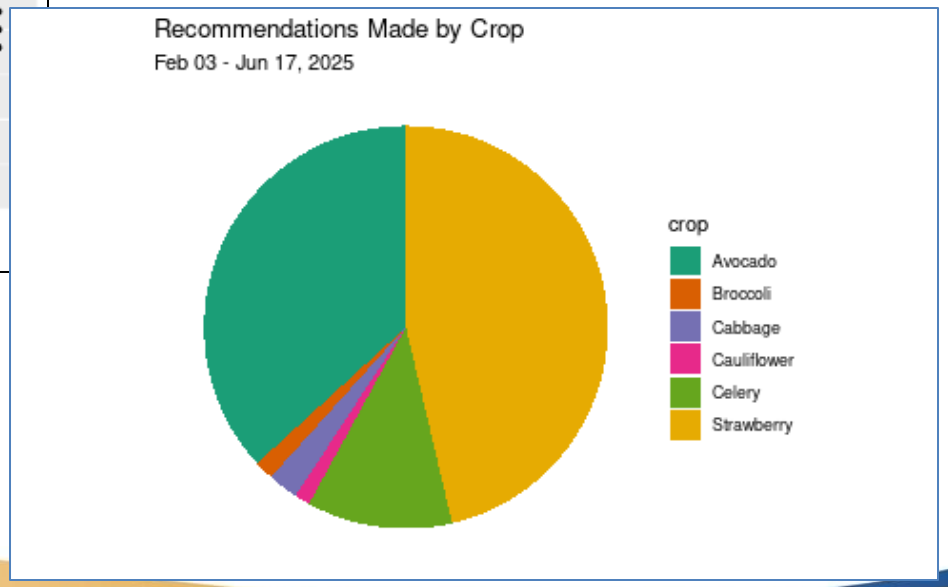
Example:

- Broccoli
- Canopy: 40-50%
- ETo Zone 3
- Last irrigation: Aug 18
- Application rate: 0.1 in/h

February 01 - June 17, 2025

544	407	326	106
Sessions	Return visits	Recommendations	Rate calculated

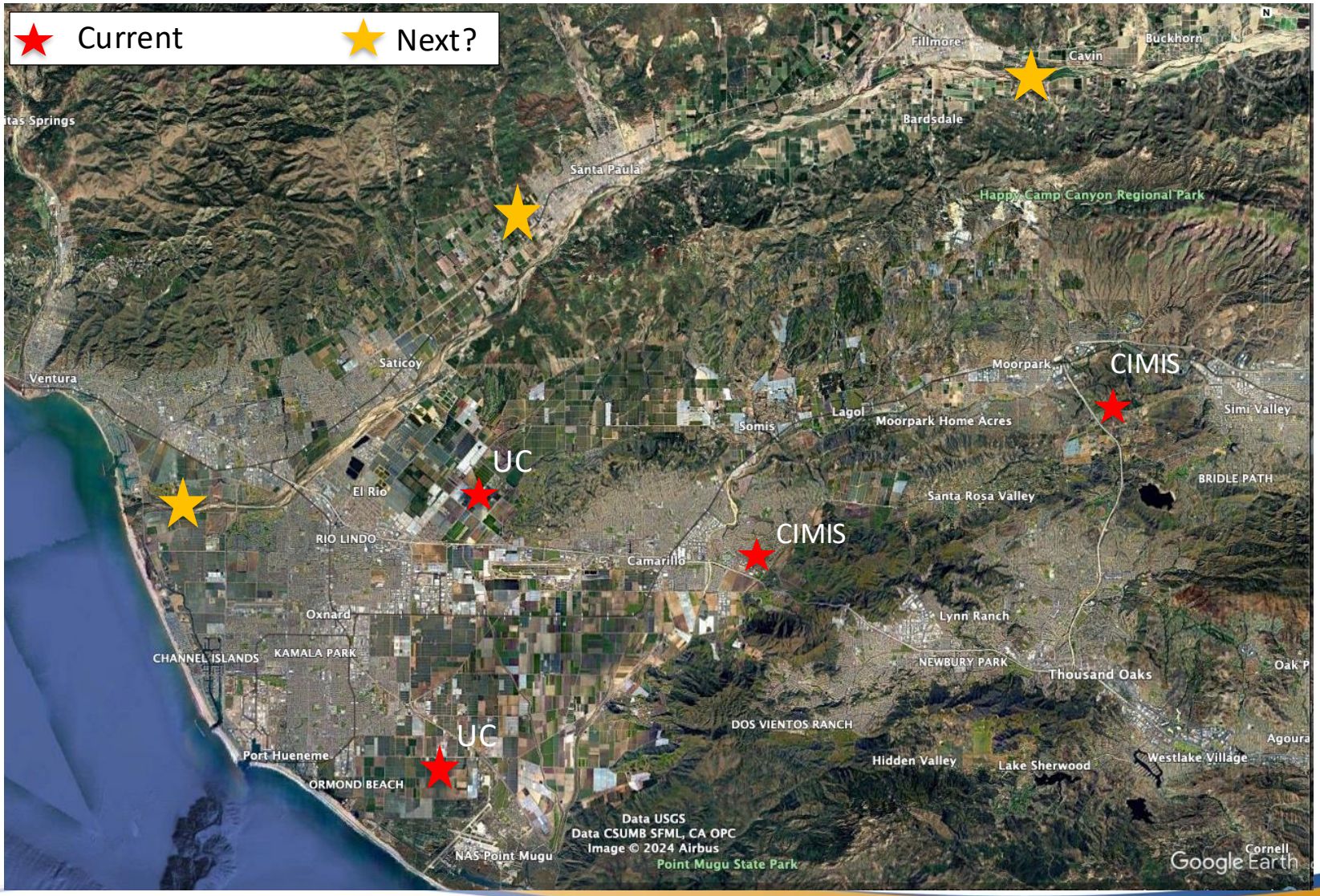




Summary

- ✓ App is fully functional
- ✓ Beta-testing (volunteers?)
- ✓ Anticipated outcomes:
  - Increased adoption of data-driven management
  - Improved yield and orchard health
- ✓ Your feedback is important!

Ventura County ETo Stations

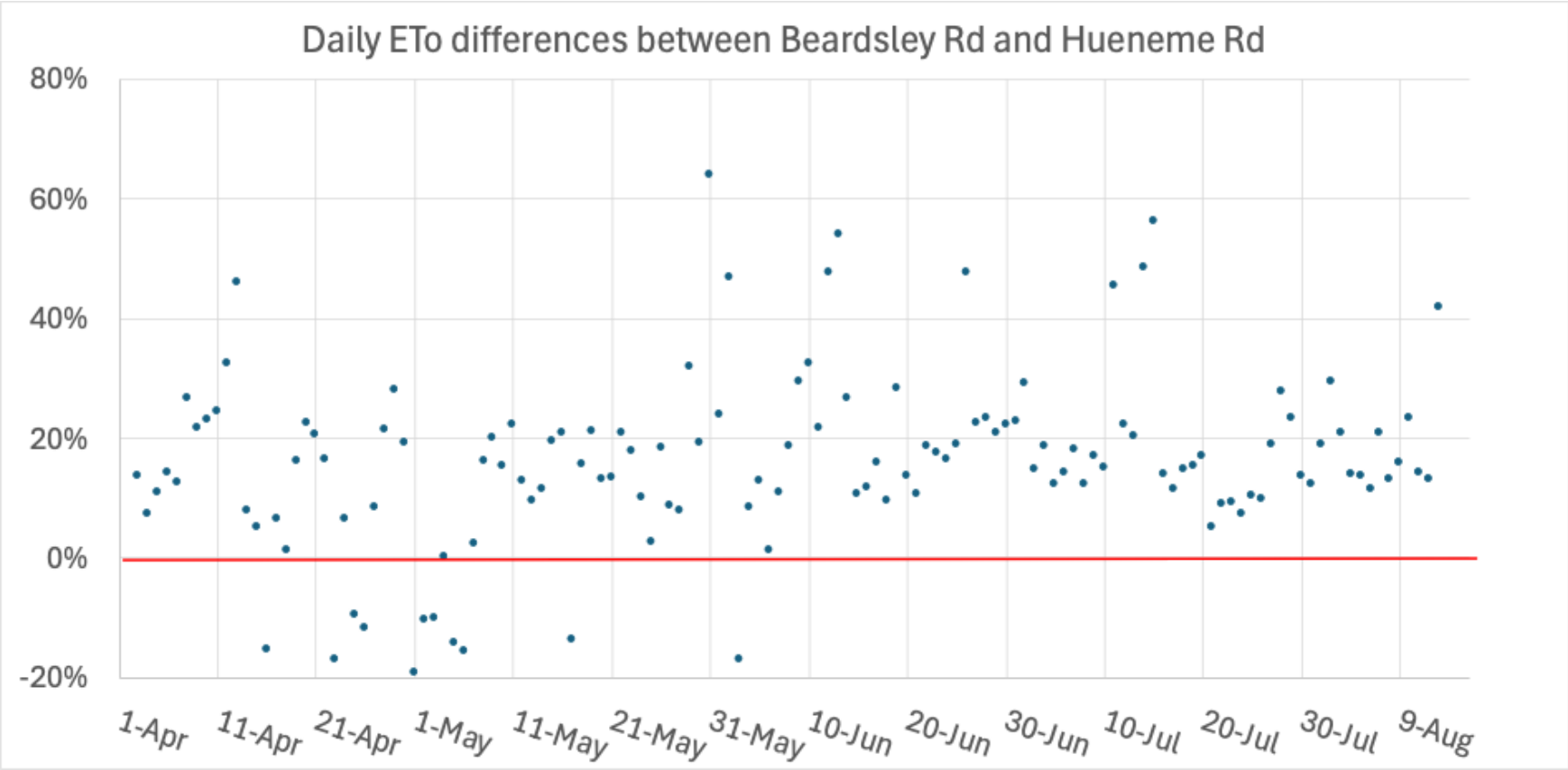


University of California
Agriculture and Natural Resources

UC ANR Ventura Weather Stations

https://ucanrventura.westernweathergroup.com/

University of California
Agriculture and Natural Resources



- Average: Beardsley is 16% greater
- Beardsley is greater than 20% in 33.8% of the time
- Beardsley is greater than 40% in 7.5% of the time
- Hueneme is greater in only 8.3% of the days

Thank you!

Questions/comments?

asbicaro@ucanr.edu
(805)645-1465

Acknowledgements:

- Crisalida Berry Farms
- Thelma Hansen Funds
- Hortau®