

Field Day: Tehama

Title: Spring Almond and Walnut Nutrient and Water Management Field Day

Exact Location: California Almond Packers and Exporters (CAPEX)
CAPEX plant address is 21275 Simpson Road, Corning, CA.

Timing: Tuesday, March 27th (8:30AM – 12:30PM, Lunch to follow)

3.5 Continuing Education Units requested

1. Welcome! Grower/management conversation about goals and practices (9:00AM-9:30AM)

Description: Attendees will be welcomed to the California Almond Packers and Exporters (CAPEX) and Esteve Family Farms. Owner and management staff will discuss their farming goals, challenges, and adoption of farming practices to achieve efficient nitrogen and water use and to sustain their farming operations.

Bios: The Esteve Family are owners and operators of California Almond Packers and Exporters and Esteve Farms. They began farming in western Tehama County in 1980 and now grow 500 acres of almonds and 500 acres of walnuts. They are also a processor and handler of both walnuts and almonds. **Matt Esteve** is co-owner in the family agri-business and involved in day to day management activities on the farm and at the processing plant.

2. ABC Overview and Almond Sustainability Program (large group talk) (9:30AM-10:00AM)

Description: The ABC Overview and Almond Sustainability program will be an overview of the current industry as well as look at why being involved in the Almond Sustainability Program is so important to the entire supply from the grower to the consumer.

Bios: **Spencer Cooper** is the Senior Manager of Irrigation and Water Efficiency with the Almond Board of California. He works with growers on increasing water efficiency through adoption of irrigation technologies. Spencer also works with growers on the California Almond Sustainability Program.

Jenny Nicolau is manager of Industry Relations for the Almond Board of California and has been with ABC for 10 years. In her role, she oversees the California Almond Sustainability Program (CASP) workshops and outreach, manages The Almond Conference and Almond Leadership Program, and oversees the Ag in the Classroom Program. She has her Master's degree in Agriculture Leadership and her Bachelor of Science degree in Ag Science.

Rebecca Bailey is coordinator of Industry Relations for the Almond Board of California and has been with ABC for nearly 4 years. In her role, she helps to support the California Almond Sustainability Program (CASP) The Almond Conference and Almond Leadership Program, and coordinates the Ag in the Classroom Program. She has her Master's and Bachelor of Science degree in Agricultural Communications.

3. Nitrogen management BMP's in walnuts (10:00AM-10:30AM)

APPROVED: 0.5 HOURS

Description: Dr. Jarvis-Shean will review the latest research on walnut nitrogen management and how they can be translated into more efficient nitrogen practices in the field, including discussion of rate, time and placement on nitrogen fertilizers.

Bio: **Katherine Jarvis-Shean** is the Area Orchard Systems Advisor for Sacramento, Solano and Yolo Counties. She covers production research, education and assistance with almonds, prunes and walnuts, and can also field questions on citrus, pistachios, olives and stone fruit. Kat's research projects include experiments on almond, prune and walnut rootstocks, fertilizer management, and the effects of warmer temperatures on bloom and harvest timing.

4. Soil and water testing for planning and feedback (10:30AM-11:00AM)

APPROVED: 0.5 HOURS

Description: Soil and water testing can provide critical actionable information in almond and walnut production. Pre-plant soil and water testing can provide critical information on the suitability and required modifications before planting. Testing in established orchards allows for accurate fertilization planning and monitoring of nutrient deficiencies and toxicities.

Bio: **Luke Milliron** is the Orchard System Advisor for Butte, Tehama and Glenn Counties. His primary crop responsibilities include walnuts, almonds, prunes and peaches. Research interests include almond, walnut and prune horticulture and irrigation management.

5. Forward tissue sampling and overview of BMP trials to manage N and water (11:00AM-11:30AM)

APPROVED: 0.5 HOURS

Description: Miguel and Dr. Brown will present results from trials in Almond contrasting different approaches to N management and the implementation of the improved nutrient management protocols (early leaf sampling, yield based nutrient forecasting, 4 R's nutrient management).

Bios: **Miguel Guillen** is a Junior Specialist working with Dr. Patrick Brown. **Patrick Brown** is Professor of Plant Nutrition at the University of California, Davis specializing the management of nutrients in Almond, Walnut and Pistachio. With 30 years of experience at UC Davis, Dr. Brown has been at the forefront of research to increase the efficiency of nutrient use in orchards.

7. Tools: Irrigation efficiency and timing (11:30AM-12:00PM)

APPROVED: 0.5 HOURS

Description: Nitrate-nitrogen is the primary form of N taken up by crops and it is also mobile with water in the root zone of the crop. Efficient irrigation practices play an important role in achieving high N use efficiency. We will explore the range in irrigation management tools from the simplest to more sophisticated that are available to help manage irrigation efficiently.

Bios: **Allan Fulton** has been an irrigation, soils, and water Farm Advisor with UC Cooperative Extension for over 29 years. His research and extension program aims to help growers sustain competitive crop production and efficient use of water.

8. CASP Online Tools (12:00PM-12:30PM)

APPROVED: 0.5 HOURS

Description: In depth discussion on the ABC tools that are offered to growers through CASP. We will focus our time on the Nitrogen Management tool and illustrating how it can help you with your NMP as well as the Irrigation Calculator.

Bios: **Spencer Cooper** is the Senior Manager of Irrigation and Water Efficiency with the Almond Board of California. He works with growers on increasing water efficiency through adoption of irrigation technologies. Spencer also works with growers on the California Almond Sustainability Program.

<p>CEU HOURS REQUESTED: 3.5 CEU HOURS APPROVED: 2.5</p>
