

**University of California**  
Agriculture and Natural Resources

# Nitrogen Management Training for Certified Crop Advisers

*Developed by:*

University of California | Agriculture and Natural Resources  
and the  
California Institute for Water Resources

*With support from:*

California Department of Food & Agriculture (CDFA)  
Fertilizer Research and Education Program (FREP)

California Association of Pest Control Advisers (CAPCA)

# Nitrogen Management Training for Certified Crop Advisers

## Agenda

### Day 1: Nutrient Management

- 8:00 am Registration check-in begins (required)
- 9:00 am Module 1: Objectives  
Rob Mikkelsen, International Plant Nutrition Center and Jerome Pier, Crop Production Systems
- 9:30 am Module 2: Nitrogen Cycle in Crop Production Systems  
Sebastian Saa and Patrick Brown, University of California, Davis
- 10:15 am *Break*
- 10:30 am Module 2 continued
- 11:15 am Module 3: Nitrogen Sources  
Tim Hartz, University of California, Davis
- 12:00 pm *Working Lunch*
- 1:00 pm Module 4: Irrigation and Nitrogen Management  
Larry Schwankl, University of California Cooperative Extension
- 2:00 pm Module 5: Nitrogen Budgeting  
Rob Mikkelsen, International Plant Nutrition Center and Stu Pettygrove, University of California, Davis
- 2:45 pm *Break*
- 3:00 pm Module 6: Tools and Resources  
Daniel Geisseler, California Department of Food and Agriculture, Fertilizer Research and Education Program
- 3:45 pm Regional Board Update
- 4:30 pm Questions/summary/check-out
- 5:00 pm Adjourn

### Day 2: Annual and Permanent Crops

- 7:00 am Sign-in begins (required)
- 8:00 am Current practices and BMPs
- 10:00 am *Break*
- 10:30 am Nitrogen management planning exercise
- 12:00 pm Sign-out/certificate of attendance

#### *Annual crops team:*

Lead/Liaison Dan Munk (UC Cooperative Extension)

#### *Permanent crops team:*

Lead/Liaison Allan Fulton (UC Cooperative Extension)

# **Nitrogen Management Training for Certified Crop Advisers**

## **Contributing partners:**

University of California  
Agriculture and Natural Resources  
web: [ucanr.edu](http://ucanr.edu)  
Twitter: @ucanr

California Institute for Water Resources  
University of California  
Agriculture and Natural Resources  
web: [ciwr.ucanr.edu](http://ciwr.ucanr.edu)  
Twitter: @ucanrwater

California Department of Food & Agriculture (CDFA)  
Fertilizer Research and Education Program (FREP)  
web: [www.cdfa.ca.gov](http://www.cdfa.ca.gov)  
Twitter: @CDFAnews

California Association of Pest Control Advisers (CAPCA)  
web: [capca.com](http://capca.com)

**Course materials available at:  
[ciwr.ucanr.edu/NitrogenManagement](http://ciwr.ucanr.edu/NitrogenManagement)**