



Features

From your Farm Advisors



University of California
Agriculture and Natural Resources

April, 2014

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..... Khaled M. Bali and Sharon Sparks	



**COOPERATIVE EXTENSION
UNIVERSITY OF CALIFORNIA
IMPERIAL COUNTY**



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Please join us on the water conservation, alfalfa, forages, biofuels and other agronomic crops Field Day to be held from **7:30AM – Noon** on **April 17, 2014**

Organized by:
**University of California Cooperative Extension
Imperial County**



Location:

UC Desert Research & Extension (DREC)
1004 E Holton Road
El Centro, CA 92243

Registration starts at 7:30 AM

For further information, call
(760)352-9474 or
e-mail: Oli Bachie
(obachie@ucanr.edu) or Khaled Bali
(kmbali@ucanr.edu)

Complimentary lunch will be served at noon; RSVP to tmcnece@ucanr.edu

Note: Speakers will be UC scientists and other invited guests, including: Dan Putnam, David Grantz, Khaled Bali, Steve Kaffka, Eric Natwick, Oswaldo Chicaiza, Sam Wang, Vonny Barlow, Brent Boutwell, Oli Bachie, Jeffery Dahlberg, Dean Currie, Tom Gill, Dale Lentz, Alan Jackson, Frank Stempksi, & Rick Cesena

Water conservation, alfalfa, forages, biofuels and other agronomic crops Field Day

Thursday, April 17, 2014 @ DREC

Agenda

7:30 AM: Registration

8:00 AM: Begin Field Day

Stop I: Sugar Beet & Oil Crops

8:10: Irrigation & Fertilizer interactions, **Steve Kaffka**

8:25: Oil crops, **Steve Kaffka/Nicholas George**

8:35: IR-4 what it is & activities – **Brent Boutwell**

Stop II: Wheat

8:45: Durum wheat - **Oswaldo Chicaiza**

Stop III: Alfalfa and Irrigation practices

8:55: Alfalfa subsurface drip projects, **Khaled Bali, Dan Putnam, Oli Bachie**

9:05: Alfalfa varieties and water issue, **Dan Putnam**

9:15: Crop rotation work with alfalfa, **Dan Putnam & Sam Wang**

9:25: Deficit Irrigation possibilities, **Dan Putnam & Khaled Bali**

9:35: Blue alfalfa Aphids and control, **Eric Natwick**

9:45: Insects of Palo Verde, **Vonny Barlow**

9:55 UC ANR Drought Resources and online seminars , **Daniele Zaccaria**

Stop IV: Corn

10:05: Sweet corn for the low desert, **Sam Wang**

Stop V: Sudan grass and Sorghum

10:15: Sorghum Forages for California, **Jeff Dahlberg**

10:25: Sudan grass, **Dan Putnam**

Stop VI: Sugar beet nematode

10:35: Cyst nematodes of Sugar beet, **Oli Bachie**

Stop VII: Biofuels

10:45: Environmental costs of purpose-grown Sorghum and Energy Cane as potential lignocellulosic feedstocks, **David Grantz**

Stop VIII: Olives

10:55: Olive production and water use in Imperial Valley, **Khaled Bali**

Stop IX: Water and irrigation

11:05: Automation of Surface Irrigation Systems, **Khaled Bali, Tom Gill, & Dale Lentz**

11:15: Commercial automation gate, **Allen Jackson (Rubicon Water) & Khaled Bali**

11:25: Irrigation water, **Dean Currie**

11:35: Demonstration of AquaMon–RSVP radio communication and web reporting systems from the SIMAS flood irrigation sensors, **Frank Stempski**

11:45: Demonstration of cultivator & Planter for minimum tillage practices – **Rick Cesena**

12:00: Lunch



Come see what's happening at the
University of California
Cooperative Extension - Imperial County!

Join us for the celebration
of the UCCE Centennial!

Celebration will be held at:

DREC

1004 E. Holton Road El Centro, CA

On:

May 8, 2014

Time:

4:00 P.M. TO 7:00 P.M.

March 17, 2014

CONTACT: Jeannette Warnert, (559) 240-9850, jewarnert@ucanr.edu

The latest research-based advice on weathering a drought is now available free online

Spring is here, and California farming is in full swing. But this year, the agriculture industry is operating under the burden of unrelenting drought.

The UC Division of Agriculture and Natural Resources is working to help farmers cope with the unwelcome outcome of historically low rainfall the last three years. UC scientists, with support from the California Department of Water Resources, have recorded video presentations on high-priority drought topics that are available for viewing on the [UC California Institute of Water Resources](#) drought webpages.

"We are bringing the latest research on drought and water from the UC system's leading experts to as many farmers, farm industry representatives, communities and students possible," said [Doug Parker](#), director of the UC California Institute of Water Resources. "People working in the ag industry are busy this time of year. They can get information from these videos whenever and, using mobile devices, wherever it is convenient for them."

The first seven presentations in the "Insights: Water and Drought Online Seminar Series," each about half an hour in length, are now ready for viewing at <http://ucanr.edu/insights>. Topics are:

Groundwater and surface water interactions under water shortage

Thomas Harter, UC Cooperative Extension specialist in the Department of Land, Air and Water Resources at UC Davis.

Crop water stress detection and monitoring

Kenneth Shackel, professor in the Department of Plant Sciences at UC Davis

Surface irrigation management under drought

Khaled Bali, UC Cooperative Extension advisor in Imperial County

ET-based irrigation scheduling and management considerations under drought

Richard Snyder, UC Cooperative Extension specialist in the Department of Land, Air and Water Resources at UC Davis

Salinity management under drought for annual crops

Stephen Grattan, UC Cooperative Extension specialist in the Department of Land, Air and Water Resources at UC Davis

Salinity management under drought for perennial crops

Stephen Grattan, UC Cooperative Extension specialist in the Department of Land, Air and Water Resources at UC Davis

Water-use-efficient tillage, residue and irrigation management

Jeff Mitchell, UC Cooperative Extension specialist in the Department of Plant Sciences at UC Davis

Some of the topics that will soon be added to the online drought series are:

Managing deficit irrigation

[Marshall English](#), professor emeritus at Oregon State University

Managing rice systems with limited water

[Bruce Linnquist](#), UC Davis

Climate change and paleoclimatology: 2013/1014 in perspective

[Lynn Ingram](#), UC Berkeley

Available tools for estimating soil suitability to groundwater banking

[Antony O'Geen](#), UC Davis

Irrigation management of tomato under drought conditions

[Eugene Miyao](#), UC Agriculture and Natural Resources

How Will Monitoring Soil Moisture Save Me Water?

Dan Johnson, USDA-NRCS California State Water Manager

Winegrapes water management under drought

[Paul Verdegaal](#), UC Agriculture and Natural Resources

Irrigation management of fruit and nut crops under Sacramento Valley conditions

[Allan Fulton](#), UC Agriculture and Natural Resources

Alfalfa water demand and management under drought

[Daniel Putnam](#), UC Davis

Field irrigation monitoring for maximum efficiency under drought conditions

[Blake Sanden](#), UC Agriculture and Natural Resources

Subtropical orchards management under droughts

[Ben Faber](#), UC Agriculture and Natural Resources

Additional valuable information from California academic institutions for dealing with the drought in the short-term and long-term is available at [California Drought Resources](#), <http://ucanr.edu/drought>. The pages are regularly updated to bring new developments from the state's university and colleges to a broad range of communities, including farmers, ranchers, landscaping professionals, policymakers and California residents.

For more information on [Insights: Water and Drought Online Seminar Series](#), contact Faith Kearns, UC California Institute for Water Resources, faith.kearns@ucop.edu.



Holtville PAPA SEMINAR
Barbara Worth Country Club
2050 Country Club Dr ~ Holtville, CA 92250
April 8, 2014

- 6:30 Registration Begins**
- 7:00 Continuing Education Update & Renewal Requirements**
Monica Siemens, PAPA
- 7:30 Laws and Regulation Update**
Speaker TBA, Imperial County Department of Agriculture
- 8:30 Electronic Use Reporting of Regulatory Forms**
Luis Angulo, Agrian
- 9:30 Break**
- 9:45 Use of Owls as a Supplement to Rodent Control**
Dr. Mike Glassey, All Pro Environmental Services and Pest Control
- 10:45 Techniques for Managing Aquatic Habitats**
Tony Stillwell, TARGET
- 11:30 Lunch**
- 12:00 New Products for Pest Control – Vendor Display and Demonstrations**
Multiple Vendors
- 12:15 Ant Identification and Control**
Dr. Mike Glassey, All Pro Environmental Services and Pest Control
- 1:15 Rodent Identification and Control**
John Slagor, TASCO
- 2:00 Lettuce Production and Management Techniques**
Dr. Sam Wang, ANR Desert Research and Extension Center
- 2:45 Nematodes of the Low Desert**
Dr. Oli Bachie, UCCE Imperial, Riverside, and San Diego Counties
- 3:30 End of Program – Thanks for Coming!**

DIRECTIONS

From San Diego – Travel East on I-80, Exit Highway 111 North & travel 2 miles. Turn right on S-8 and travel 5 miles. Turn right on Country Club Drive and follow road to Club House.

From Arizona – Travel I-80 West, Exit at Orchard Road (Holtville) travel approximately 2 miles and at stop sign in Holtville, turn Left on S-80, continue for 2 miles. Turn Left on Country Club Drive and follow to Club House.

INTERESTING LINKS!

California Ag Journal

The University of California publishes a monthly journal on peer-reviewed research and news in Agricultural, Natural, and Human Resources. Below you will find a link to that publication. Please feel free to visit as often as you like.

Ctrl + Click on the banner below to access:



ANR Blogs

Serving Agriculture and Natural Resource needs in California

Everything from almonds and bees to wildlife and wetlands! You're sure to find many interesting articles on this link!

<http://ucanr.edu/blogs/blogcore/blogroll.cfm>

California Master Gardener Program

The University of California Master Gardener Program is dedicated to facilitating excellence in County Master Gardener Programs by increasing the professionalism of coordinators and volunteers. More than 45 California counties have UC Cooperative Extension Master Gardener Programs with UC trained Master Gardener volunteers ready to answer your gardening questions. Advice to Grow By -

<http://camastergardeners.ucanr.edu/>



MANAGEMENT PUBLICATIONS

Khaled Bali and Sharon Sparks*

California Irrigation Management Information System (CIMIS) is a statewide network operated by California Department of Water Resources. Estimates of the daily reference evapotranspiration (ET_o) for the period of April 1 to June 30 for three locations in the Imperial County are presented in Table 1. ET of a particular crop can be estimated by multiplying ET_o by crop coefficients. For more information about ET and crop coefficients, contact the UC Imperial County Cooperative Extension Office (352-9474) or the IID, Ag Water Science Unit (339-9082). Please feel free to call us if you need additional weather information, or check the latest weather data on the worldwide web (visit <http://tmdl.ucdavis.edu> and click on the CIMIS link).

Table 1. Estimates of daily Evapotranspiration (ET_o) in inches per day

Station	April		May		June	
	1-15	15-30	1-15	16-31	1-15	16-30
Calipatria	0.26	0.29	0.32	0.36	0.39	0.40
El Centro (Seeley)	0.24	0.28	0.31	0.34	0.36	0.38
Holtville (Meloland)	0.25	0.28	0.32	0.35	0.38	0.39

* Ag Water Science Unit, Imperial Irrigation District.

Link to UC Drought Management Publications

<http://ucmanagedrought.ucdavis.edu/>

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Inquiries regarding the University's equal employment opportunity policies may be directed to Linda Marie Manton, Affirmative Action Contact, University of California, Davis, Agriculture and Natural Resources, One Shields Avenue, Davis, CA 95616, (530) 752-0495.