

## **CANGC Partners with UCNFA to develop “universal” BMPs for pests and diseases impacting California’s ornamental production industry**



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<http://www.cangc.org/>

<http://ucanr.org/sites/UCNFA/>



CDFA Specialty Crops Block Grant  
Program grant to CANGC

\$297,000 for 2010-2013

Unified Production Nursery Systems  
Approach for Integrated Pest  
Management (IPM) and Best  
Management Practices (BMPs)

Outbreaks of insects and diseases have:

- disrupted California nursery operations and shipments
- caused significant specialty crop losses
- required costly regulatory responses

Outbreaks result in pest-specific responses  
BMPs are components of these protocols.



Light  
Brown  
Apple  
Moth

*P. ramorum*



Glassy-  
Winged  
Sharpshooter

Asian Citrus  
Psyllid



Red Imported Fire  
Ant



Each implementation of BMPs

- Reduces business impacts
- Limits pest spread

These programs are targeted programs

A generalized approach can

- Address many pests and diseases
- Provide
  - Blanket protection
  - Exclusion
  - Detection strategies

## Project objectives

### **Survey existing BMPs**

Selected insects and diseases currently affecting California

### **Assemble a Science Advisory Panel**

To provide expertise

### **Analyze the matrix of BMPs**

Identify BMPs that can be applied to multiple insects and diseases

## Project objectives

### **Identify those gaps in knowledge**

BMPs in need of research

Fund researchers capable of acquiring data.

### **Publish a manual of unified and validated BMPs**

In English and Spanish

Post at CDFA and UCNFA websites

### **Conduct training workshops**

How to establish a BMP programs

Survey nurseries to quantify the number  
employing BMP programs

## **CANGC BMP Accomplishments YTD**

1. Scientific literature review and survey existing regulatory BMP programs across a number of insects and diseases currently affecting California's nursery and floriculture industry.
2. Format created to organize BMP's from review and survey.
3. Advisory Committee assembled to analyze the resulting matrix and to identify those BMPs that can be applied to multiple insects and diseases.
4. Knowledge gaps identified regarding BMP's that are in need of research.
5. Research topics identified for BMP research and fund projects to the extent available.
6. Conduct for workshops and conferences in 2011 that align to BMP grant

## Sample of BMP Matrix (revised 9/28/2011)

[illegible]

## **CANGC BMP Grant Advisory Committee Stakeholders**

Fred	Ceballos	EuroAmerican Propagators
Emory	Chow	Valley Crest Tree Co.
David	Cox	L. E. Cooke Company
Haydi	Danielson	Boething Treeland Farms
Dana	Groot	Florabunda Nursery
John	Keller	Monrovia Nursery
Mark	Marriott	Village Nurseries
Manuel	Morales	Monterey Bay Nursery
Betsy	Peterson	CANGC
John	Seeger	Four Winds Growers
Mary Helen	Seeger	Four Winds Growers
Karen	Suslow	Hines Growers LLC
Roger	van Klaveren	Generation Growers

## **CANGC BMP Grant Advisory Committee**

### **Grant Reps and Regulators**

Andrea	Wagner	Entomology Dept., UC Davis	BMP researcher
Dave	Fujino	CCUH	Grant principal investigator
Linda	Dodge	Plant Sciences Dept., UC Davis	Grant project manager
Mike	Colvin	CDFA/SANC	Regulatory representative
Kathy	Kosta	CDFA/ <i>P. ramorum</i>	Regulatory representative
Aurelio	Posadas	National Plant Board	Regulatory representative

## **CANGC BMP Grant Advisory Committee Researchers**

Jim	Bethke	UCCE San Diego/Riverside Cos.
Ann	Chase	Chase Horticultural Research Inc.
John	Kabashima	UCCE Orange Co.
Julie	Newman	UCCE Ventura/Santa Barbara Cos.
Loren	Oki	Plant Sciences Dept., UC Davis
Karrie	Reid	UCCE San Joaquin Co.
Steve	Tjosvold	UCCE Santa Cruz/Monterey Cos.
Edwin	Lewis	Entomology/Nematology Depts., UC Davis
Michael	Parrella	Entomology Dept., UC Davis
Cheryl	Wilén	UCCE Statewide IPM Program

## 2011 UCNFA programs supported with CANGC BMP grant funds

### Pest Monitoring in Ornamental Plant Production

San Marcos, July 5, 2011

Morning session in English

James A. Bethke

UCCE San Diego/Riverside Cos.

Afternoon session in Spanish

Lucia Villavicencio

Center for Applied Horticultural  
Research

Irma DeBonis

UCCE San Diego Co.

Attendance 27



## 2011 UCNFA programs supported with CANGC BMP grant funds



### Scouting and Spray Evaluation

Watsonville, August 23, 2011

Steve Tjosvold

UCCE Santa Cruz/Monterey Cos.

Ken Giles

Biological and Agricultural

Engineering, UC Davis

Field Demonstration at Sunspot  
Nursery, facilitated by Stan Iverson

Attendance 40



## 2011 UCNFA programs supported with CANGC BMP grant funds

### California Nursery Conference 2011

Etiwanda, October 6, 2011

John Kabashima and Loren Oki

Vendor Trade Show

organized by SoCal Chapter of CAPCA



89 attendees

20 vendors



## 2011 UCNFA programs supported with CANGC BMP grant funds

### Effective Use of Pesticides in Ornamental Plant Production

San Marcos, October 18, 2011

Morning session in English

James A. Bethke

UCCE San Diego/Riverside Cos.

Cheryl Wilen

UC Statewide IPM Program

Afternoon session in Spanish

Maria de la Fuente

UCCE Monterey/San Benito Cos.

Lucia Villavicencio

Center for Applied Horticultural Research

Cheryl Wilen

Attendance 26



## Plans for 2012

1. Finalize Advisory Committee minutes
2. Propose and finalize outcomes for the balance of the grant:
  - Research
  - Workshops and conferences
  - BMP manual
  - BMP training program
  - Communication process with nursery industry
3. Draft and submit companion BMP research proposal for the nursery industry to granting agencies



## UCNFA Sponsors



San Diego and SoCal Chapters

