

Arizona Cooperative Extension Proposal Requests - Working Group Award

Title: Cross-Commodity Research & Outreach Program (CROP) 2007-2008

Program Area(s): Agriculture and Natural Resources

County affiliate(s): Cochise - Randy Norton
Cochise - Rob Call
Greenlee - Randy Norton
La Paz - Barry Tickes
La Paz - Eric Norton
Maricopa - Erin Taylor
Mohave - Barry Tickes
Mohave - Eric Norton
Mohave - Rob Grumbles
Pinal - Rick Gibson
Yavapai - Jeff Schalau
Yuma - Barry Tickes
Yuma - Kurt Nolte

On-campus or Experiment Station affiliate(s): ABE - Ed Martin
ABE - Gene Giacomelli
AREC - George Frisvold
AREC - Russell Tronstad
AREC - Trent Teegerstrom
Entomology - Al Fournier
Entomology - Al Fournier
Entomology - David Byrne
Entomology - John Palumbo
Entomology - Paul Baker
Entomology - Peter Ellsworth
Entomology - Timothy Dennehy
Maricopa AC - Al Fournier
Maricopa AC - Bob Roth
OALS - Barron Orr
Plant Sciences - Glenn Wright
Plant Sciences - Jorge Fonseca
Plant Sciences - Mary Olsen
Plant Sciences - Michael Matheron
Plant Sciences - Michael Ottman
Plant Sciences - William McCloskey
SWES - Bruce Russell
SWES - Charles Sanchez
SWES - James Walworth
SWES - Jeffrey Silvertooth
SWES - Paul Brown

Lead Faculty: Maricopa - Erin Taylor

This Working Group was previously funded: Yes

University fiscal year: FY1980

Report of Working Group accomplishments (Outputs and Outcomes) from 2006 – 2007:

- CROP working group, the Arizona Crop Protection Association and the Arizona Department of Agriculture have partnered to revise licensing material for Pest Control Advisors in Arizona. Meetings held June 27 and November 1, 2006 and February 27, 2007. Revisions were presented at the Desert Ag Conference on May 10, 2007 to Ag clientele. Volunteer PCA reviewers were identified. First draft is expected in December 2007.
- Members of the CROP team (Ellsworth, Palumbo, Tronstad, Carriere, and Fournier) were awarded a \$2.5

million USDA Risk Avoidance and Mitigation Program Grant (RAMP). This is a four year multi-state, multi-disciplinary, multi-crop grant that multiple CROP members will be directly involved in over the next several years.

- Arizona Whitefly Resistance Meeting held in Phoenix, AZ in February, 2007
- Arizona Bt Cotton Meeting held in Maricopa, AZ in February, 2007
- A review of the 1080 reports for Arizona was conducted and corrections were made to errors found in the reports that were dated from 2001 to 2005.
- IPM Delivers publication to be printed in June 2007.
- CROP team members were involved in organizing and hosting a joint regional meeting (WERA-060 and WERA-069) of IPM Coordinators and resistance management scientists in Phoenix, AZ in May 2007.
- Six academic posters were presented at the WERA-060 and WERA-069 meeting in May, 2007
- Ludwig, S. & Ellsworth, P.C. 2006. Q-Biotype Update. *Greenhouse Grower* 24(8): 138-142.
- Ellsworth, P.C., Barkley, V.M. 2006. IPM in cotton using novel insecticides. 5th National Integrated Pest Management Symposium. St. Louis, MO. (4/5/06; 50; .5 h).
- Ellsworth, P.C. 2006. "Whitefly Management." Lower Rio Grande Valley Cotton Meeting. Weslaco, TX. (10/17/06; 125; 1 h).
- Ellsworth, P.C., Palumbo, J.C., Fournier, A. 2006. "Building Capacity & Integration in Whitefly Management: Cross-Commodity Cooperation and Areawide Benefits." 4th International Bemisia Workshop, Marathon, FL. (12/06/06; 100; .5 h).
- Ellsworth, P.C. "IPM: What Does the I Stand for?" APMC Summit. (6/6/06; 100; .5). http://cals.arizona.edu/apmc/Ellsworth_APMCSummit.pdf Presented at Maricopa, AZ on 6/6/2006.
- Ellsworth, P.C., J.C. Palumbo, A.J. Fournier, Y. Carriere. 2005. "Novel measurement of group adoption of IPM in diverse cropping communities". Poster presented at Pacific Branch ESA, 3/06; National IPM Symposium, 4/06; CALS Faculty Conference, 8/06; 4th International Bemisia Workshop, 12/06. URL: ag.arizona.edu/crops/presentations/05ESA_Ellsworth_Poster.pdf
- Palumbo, J.C., P.C. Ellsworth, A.J. Fournier, T.J. Dennehy, R.L. Nichols. 2005. "Cross-Commodity Guidelines For Neonicotinoid Insecticides In Arizona." Poster presented at Pacific Branch ESA, 3/06; National IPM Symposium, 4/06; CALS Faculty Conference, 8/06; 4th International Bemisia Workshop, 12/06. URL: ag.arizona.edu/crops/presentations/05ESA_Palumbo_Posterlo.pdf Presented at various on 12/18/2006.
- Holtville, CA. Successful management adapted to a mobile, polyphagous whitefly pest in a diverse cropping system. Invited. (4/13/06; 35; .5)
- 4 locations, AZ. Whitefly Refresher, Part I. (5/16, 23, 24, 25/06; 250; 3)
- 4 locations, AZ. Whitefly mortality diagnostics and evaluation of key chemistry (5/16, 23, 24, 25/06; 250; 2)
- 4 locations, AZ. The 2006 Arizona Whitefly Management Plan. (5/16, 23, 24, 25/06; 250; 3)
- Parker, AZ. Late season whitefly management. (8/31/06; 20; .5)

This Working Group is connected to a state- No wide initiative:

Which one?

Budget amount requested (up to \$2,000.00): \$2,000.00

Budget amount approved (up to \$2,000.00): \$2,000.00

Situation/issue:

Effective communication across commodities (and disciplines) is increasingly essential to the development of effective and relevant research and Extension programs in Arizona. Pest management issues, soil and water management, economics, seed production, and labor issues (among others) demand attention across multiple agricultural crops and systems. The Cross-commodity Research & Outreach Program (CROP) working group was initially formed in 2000 to address the need for timely communication of scientific information that spans across both crops and disciplines, and has been very positively received by agricultural clientele. The group's major goal is to anticipate and proactively resolve problems unique to cross-commodity interactions. The existence of this group has helped to break down traditional boundaries between disciplines and commodities and has increased the dialog between stakeholders and Extension personnel. This proposal seeks funding to facilitate ongoing communication activities of this important group, including CROP advisory meetings, which provide critical stakeholder input to help identify, prioritize, and address

important interdisciplinary issues in Arizona agriculture. This will help to ensure that Cooperative Extension can remain responsive to the ever-changing needs and priorities of Arizona's crop-producing clientele.

Inputs including budget:

- Time and energy of working group members.
- Time invested in ACIS website.
- Funding requested (\$2,000).

Outputs:*Activities:*

- 7th Annual CROP Advisory Group meeting (*Date: To be announced*)
- Stakeholder discussion meetings and internal Workgroup planning meetings
- Extension meetings will be impacted by cross-commodity issues and priorities.
- Frequent communications via email, conference calls, etc.
- Posting of critical crop/pest management information on ACIS website.
- Past CROP Working Group activities have resulted in several important products, including the development and dissemination of cross-commodity pesticide use guidelines, the establishment of the extensively-used Arizona Crop Information Site (ACIS), and the formation of the Arizona Pest Management Center (APMC). Additional educational products produced will depend upon grower's needs as identified through ongoing dialog facilitated by this group.

State at least one educational product:

Education: We anticipate the educational outcome of this working group will be an Extension bulletin related to cross-commodity issues similar to the new Arizona Delivers Integrated Pest Management publication. Additional educational products produced will depend upon grower's needs as identified through ongoing dialog facilitated by this group.

Participation: U of A team members listed above will engage stakeholders representing eight counties in discussion of cross-commodity issues. Clientele served by this working group include producers (all crops), commodity groups and organizations, PCAs, county Extension personnel, and allied agricultural industries.

Short-term outcomes:

Short-term: The activities of this working group are expected to increase awareness and knowledge of important cross-commodity issues among stakeholders; to facilitate ongoing input from stakeholders on ever-change issues and needs across crops; and to enhance interdisciplinary communication among research and Extension personnel system-wide, including enhanced county agent interactions.

Medium-term outcomes:

Medium-term: Working group efforts are expected to improve pest management practices and address other needs and issues that span crops and disciplines; this should lead to improved yields and increased client satisfaction. Enhanced interaction among interdisciplinary Extension personnel across campus, research centers and counties is expected to lead to additional projects and interactions.