

Agronomic Crops IPM Leadership Team June 22 2012

Attendees: Ayman, Randy, Peter, Lydia, Bill, Al, Wayne

I. Team Vision

A definition: Extension = problem solving, issue driven research + engaged outreach with measured outcomes over time to change behaviors or conditions.

Process: ID problem with stakeholder, develop solutions, measure impacts, develop feedback, and adjust.

The Assistant in Extension positions are important in helping us achieve this. These positions are funded through the APMC, the Extension IPM grant, and other sources. IPM is about risk reduction. IPM includes Integrated Crop Management. The APMC started in 2003, hired Al in 2005, went competitive in 2008, and formally added AiE positions in 2011.

Reviewed the APMC org chart.

This committee serves a leadership role to help manage the shared AiE resource. AiE's work not only with their respective leadership team, but they work with and represent all faculty interested in the focal areas in which they work. Faculty serve on the leadership team, but they interact with anyone potentially working in their areas of emphasis. The LT should provide input on how Lydia functions. Is there anything we need to change, plan? We think of them as a catalyst: a small investment with a large impact. If you have projects that Lydia can help on, let her know. Are there things we can do together? How can we be better coordinated? If this resource is poorly utilized, it will cease to exist, or be re-purposed.

The CALS Executive Council is embracing what we are doing with AiEs as a model moving forward: bringing in non-track faculty level positions, program coordinators, etc.

Funding: \$175k + 55k from college pays for half of the AiEs as well as other personnel the APMC support. Half of these salaries have to be captured through other competitive grants. Lydia provided a handout showing the breakdown and duration of her funding.

*Signature Program Team (SPT) Cooperative Extension grant announcement came out June 15 due by July 16. Max \$1500 per SPT. Al will send last year's draft to Paul Brown and Shawna for revision and submission.

Lydia is currently heavily obligated, but some time should open up by the fall. If you are submitting grants and you need help with some aspect of it (including writing the grant), consider including Lydia.

II. Inventory of current and upcoming pest management projects

Randy

- Randy and Mary Olsen are going to submit a proposal to the Buffet Foundation to address foliar diseases and nematodes in beans and develop a bean disease guide. There is potential funding to support Lydia in part. If funded, the project will take place in the 2013 field season.
- Randy and Ayman have Topguard trials (Cheminova) between Buckeye and Gila Bend, one in Safford, and one in Marana. All trials are in cotton.
- Mary, Randy, and Ayman are conducting surveys on Fusarium race 4, funded by ACRPC and Arizona Crop Improvement Association. Soliciting samples, actively looking for problems, and doing trainings.
- Precision Ag and Telone work in Buckeye (Heiden) and Bonita, funded by Dow.
- Variety trials in Buckeye* (Monsanto), Goodyear*, SanTan*, Yuma, Eloy, Aztec, Aguila, others). *Possible field days in these locations. Could do Goodyear and Buckeye locations in a single field day. The week before Thanksgiving. Greg Jacobsen is the PCA.
- Update: Plow-down program – some growers are protesting now that PBW is gone. Compliance is a problem. Fee pays for the ACRPC program, monitoring, and contingency fund. ACRPC requested UA to do a technical report. It was submitted by Randy in May in draft form. Needs minor revisions submitted by Paul B. ACRPC suggests a joint training with UA.

Ayman

- Efficacy trails for Zeal in corn. Fields in Maricopa with Ak-Chin. Working with Jim Kirkpatrick.
- Lygus movement study at MAC with Peter.
- Intramural CE grant to produce videos.
- Funding from Electrical District #8 for work in alfalfa – an open request: will work on alfalfa weevil thresholds. \$10k. Lydia could help out with some of this work. A good winter activity.
- “Extern” – an intern funded by green funds. Publishing a paper on this in Journal of Extension.

Bill

- Buffelgrass – City of Tucson, Pima Co, Saguaro National Park. Funded by National Park Service. Research, education and mitigation with herbicides. Looking for alternatives to Roundup.
- Pecans. SCBG with Pedro: resistance management to reduce reliance on glyphosate. Doing demos in Red Rock, Sahuarita, and Chase Farms in Willcox area.
- Roundup Ready Flex study in Pima cotton in Safford. Checking tolerance of germplasm.
- Working with Bayer on Glytol cotton at MAC.
- Salt Cedar and mesquite control on rangeland.
- Pigweed (Palmer amaranth) resistance studies to confirm resistance to glyphosate and determine resistance levels followed by appropriate research and publications, which will

be determined as we gather more information. Also, greenhouse studies to see if Palmer populations are resistant to pyriithiobac.

Al & Wayne

- Cotton pest losses. We need to take the survey online. What about adding diseases to the cotton survey? Esp. for Texas root rot distributions & severity. We might be better off making a separate, custom survey for this.
- APMC website managed by Al and Theresa. We have working group pages, including one for this group. Let Al know if there are needs for web work. Theresa works part time and Wayne can serve as a back up.

III. What We've Achieved

- IPM Shorts. Every member of the leadership team has contributed to an Agronomic Short. We should continue to encourage contributions from Specialists & Agents outside the leadership team.
- The frequency is appropriate; we should aim to create more this year than last.

IV. In the coming year

How does the team want to interact?

- Overall, all members are happy with the level of interaction they've had with Lydia. The team would like to have a monthly update on Lydia's activities.
- The team would like to have joint field days if demonstration fields are close to each other. Lydia can work in the future to plan and manage demos in order to encourage field days with multiple specialists showing a variety of research and demonstrations.
- Bill would like to look into the effect of cover crops on pests in cotton. This could be an interdisciplinary project covering the effect of cover crops on weed, insect, disease, and nematode pests in cotton. SARE may be a source of funding for this project.

Outputs

- Potential topics for IPM Shorts:
 - * Blister beetles in alfalfa (Peter and Lydia)
 - * Orius, Nabid, Lacewings: natural enemies (Ayman, Peter, Tim, Naranjo & Lydia)
 - * Nematode sampling (Randy, Mary, Mike McClure)
 - * Calibration of boom and hand sprayers (Bill)
 - * Nozzle types and herbicides (Bill)
 - * Cotton post-directed and layby herbicides (Bill)
 - * Residual herbicides (Bill)
 - * Rate controllers, nozzles and pressure (Bill and Pedro)
 - * Cotton diseases (Randy and Mary, most likely)
 - * Alfalfa aphids
 - * Alfalfa summer insect pests (3 cornered alfalfa hopper, leafhopper, and caterpillars) (Ayman)

- * Fruit retention procedures and use (Randy & Sam)
- * Height to node procedure and use (Randy & Sam)
- * NAWF procedure and use (Randy & Sam)
- Some IPM shorts should be peer reviewed and formalized. One suggestion: *Increasing Glyphosate Activity* by Bill and Lydia
- IPM Shorts could also be translated to Spanish.

The next meeting: Plan for late September or early October. Lydia will send out a doodle in early September.