



IPM Assessment Leadership Team Maricopa Agricultural Center May 9, 2014 – 10:45 am to 1:30 pm

Membership:

Al Fournier – *Chair*, Dawn Gouge, George Frisvold, Jack Peterson, John Palumbo, Peter Ellsworth, Wayne Dixon

Notes

I. IPM Assessment Leadership Team Opening Discussions

- a. Team member's current evaluation/assessment activities, priorities (Roundtable)

Peter – Agronomic Crops IPM Team.

- Trying hard to assess clientele on alfalfa losses to aphids. There is interest in supporting a Section 18. There are specific economic requirements that need to be met by EPA. *Al will convert survey developed and implemented at DAC as an online survey to send out to PCAs.
- We completed an assessment of cotton entomologists, AZ cotton PCAs and Ag economists for an Annual Review of Entomology article on the value of conservation biological control.
- Still working on Mexican pesticide and pest management decision database. Have many years of data (currently back to 2009) from one very large cooperative is sharing data. In the process of getting entered into a database Wayne created. This started as part of an EPA Border IPM grant, but funded on that has been expended. Measurements so far indicate huge changes in pesticide use.
- Cotton Pest losses work involving Lydia, Wayne and Al. It is a Signature Program of the Western IPM Center (More on this later). One goal of the Signature Programs is to expand efforts to other states and crops. Recently, Peter contacted Shimat Joseph about the Lettuce Pest Losses. He is working in Salinas. Peter has also made contact with the processing tomato industry, Campbell's Soup and the Tri-state potato industry in the northwest, but reception has been cooler by them. John travels to Salinas about twice a year, including a December meeting. Dec – Jan is a good window to have this discussion with Shimat.
- Writing a new RIPM grant to analyze 23 years of cotton data for risk analysis. Has seen money from Cotton Inc that is supporting some of this work. This is in collaboration with Paul Jepson's group at OSU. The ipmPRiME tool is online and free to use.
- Will put out a survey on the Worker Protection Standard, revised standards are being considered. Al has drafted a survey that will be send out through the Western IPM Center.

Dawn – Community IPM Team

- School IPM program monitors an array of activities and outputs. Dawn maintains an Excel file. Wants to input trainings and specific milestones for each school site that is involved in the school IPM inside and out program. This would be an organizational tool. To figure out to what extent a group has implemented IPM, and how long it takes. Al has spoken to Shaku about some potential qualitative analysis tools that could be used to track data and facilitate analysis. *Add SIPM Inside and Out as a project label in the Outputs Database. *Al should follow up with Shaku on data management tools.
- Currently track learning outcomes for medical staff and other health professionals – pre and post tests at trainings. Dawn uses a CDC system for [something]. Shaku's husband is interested in tracking economic outcomes of school IPM programs, as an unpaid internship for 20 hours per week in July as part of his MS at Georgia.
- Bed bug impact online survey is finished in English and Spanish. Needs to get the survey out to residents, home owners, via National Pesticide Information Center. The plan is to also implement as a TurningPoint survey, and is looking into qualitative analysis software.

- Tribal School IPM Plan has just been completed. She would like to gather data as to whether and how it is being used. She will work with tribes at upcoming training to develop their own IPM plans as part of the meeting, at the school level. She plans to follow up by telephone some months later to try to capture data about if and how the tribal members are using their plans. Wants to develop a way of tracking data. IRB application will be required if the plan is to follow with individuals.

John – Vegetable IPM Team

- Lettuce Insect Losses meeting recently had 60 participants and 25 usable surveys representing, John estimates, 80% of acres representative. Held the meeting about 1 week later than usual. Sent text messages the day before. Have a lot of new, young PCAs that are showing up now. Confident that for this year's data the "key customers" were involved. Should have good data. One point he missed in the data: should have added chemical thinning to the survey, a new practice, but failed to capture this. And chemical weeding. Could some of this be pulled out of pesticide use data? One is an SLN for Aim, Shark, acid. Also are spot spraying now with insecticides now using the same equipment.
- At the same meeting did the bagrada on brassica survey – 4th year. About 22 surveys to date. New data request forthcoming to Wayne and Al. (Add this as a new item for EIPM proposal.)
- Barry Tickes is working on a Section 18 for Kerb. Jack is not optimistic for this unless something has changed since last attempt. There is no leaf lettuce tolerance data for this chemistry. Barry is working on the economic data and may have a pesticide use data request related to this. (A lot is being spent on hoeing leaf lettuce; can make the economic case.) *Al can share the survey developed to collect economic data for alfalfa Section 18 with Barry. IR-4 new project is another option they could consider – it has already been submitted to IR-4. Jack: if a use has been previously rejected, generally you cannot get a Section 18 approved by EPA.
- He will have 2 UA Yuma Masters students in Ag Education. One wants to do some survey work – not sure what the focus will be. Could evaluate attitudes related to risk assessment (ipmPRiME stuff). Al will be glad to review surveys or discuss resources with students.
- ipmPRiME project.

George – Ag Economics

- Has a grant from Cotton Inc to look at rate of return from PBW eradication program. He will be requesting pre-and-post pesticide use data from us to support this work. Peter is glad to interact with him on this. Will look at Arizona. Might consider looking at Peter's Mexican data.
- George is a co-author on Annual Review of Entomology article that Peter Mentioned.
- UC is doing a survey / study on the impacts of IPM Extension.

Jack – Arizona Department of Agriculture

- They are working on rewriting all the exams for Office of Pest Management.
- Peter is working on questions for the insect portion of the Arizona PCA exam. Peter suggests a dialog is needed with regard to testing strategies, i.e., going to more of a pool of questions that can be randomly used on different exams. His student worker, Macey, is also working on vegetable questions.
- Dawn is working on an EPA school IPM grant that includes questions for structural pest managers and is working with National Pest Management Association on this project. Jack is open to using any questions she comes up with on future OPM exams. Jack can go to the AzCPA to solicit their involvement.

II. APMC Pesticide Use Database Update

- a. 1080 scans, overnight updates, registration update, Agrian max rates update
- b. Part time position: Kurtis Thacker

III. Outputs, Projects & Activities

- a. Data requests
 - b. Impact & Outputs Manager – improved input from AiEs and teams
 - c. Crop Pest Losses survey – software re-write
 - d. Image share database
 - e. Other database datasets: Termites, Mexican cotton data
 - f. PRiME project
 - i. Lettuce (SCBG, ongoing funding)
 - ii. Cotton (pending WRIPM or other sources)
 - g. Web development committee
- Termite pesticide application data. We have over 1 million records. Paul Baker has requested data, but more work is needed on data quality control and on our products table before we can really work with these data.
 - APMC Pesticide Use Database
 - Currently have scanned PDFs linked into the pesticide use database. Used for data correction. Jack: please let us know about systematic errors that we find. There may be issues they could program into their data entry software. Total chemical is now calculated off the rate in the ADA database. In the old days, we could cross-check these. Sometimes people will both Fax and mail their 1080s. They end up with 2 sequence numbers and getting entered twice. Jack's office has reached out to the CAs that were doing this to and asked them to submit one way or the other.
 - Now doing nightly updates from the ADA database.
 - Currently have a part time help from Kurtis Thacker which has been instrumental, in particular getting the PDFs into the 1080 data interface. Is it possible for PDFs to be done at the source at ADA? Is there a technical solution? Topic for upcoming Pesticide Use Database? If equipment is needed to do this, APMC could purchase it.
 - Web Development Committee. Wayne is chairing this committee. (Membership.) User friendly interface.
 - Image Share photo database. Chris Baptista doing insect ID at ADA might benefit from access to this. Can upload hundreds of images at the same time. Jack: has an interest in getting ADA access to these photos. Wayne uploaded all the high resolution photos from the ACIS website into this. It is searchable by metadata.
 - Outputs database. Now on the CALS server and is being used to Assistants in Extension for each of the teams. Wayne is trying to work with the developers of UAVitae.
 - Cotton Pest Losses program. A large investment of time for Wayne this past year. Wayne has rewritten the software for this. This might be adapted for the Lettuce or Melon surveys. And having an electronic survey available may increase opportunity for adoption by other user groups in other states.
 - Updated impact statement. Being used by Extension Administration and the college. Dean is thrilled "Ellsworth has data."
 - Currently have scanned PDFs linked into the pesticide use database. Used for data correction.

IV. Active Funding and Obligations Update

- a. 10/2013 – 9/2015, USDA-AMS Specialty Crops block Grant Program - \$143,198 (20% WD)
- b. 9/2012 – 8/2016, Western IPM Center Sub-award - \$324,375 (15% WD, 20% AF, 20% LB; covers Crop Pest Losses Signature Program)
- c. 9/2013 – 8/2014, USDA-NIFA, Extension IPM (E-IPM) - \$525,000 (up to 50% WD) – no cost extension will be requested

v. Pending Funding and Obligations Update

- a. 7/2014 – 6/2015, Cotton Inc. support - \$25,500 (14% WD)
- b. 9/2014 – 8/2016, Regional IPM Competitive Grant, Western Region, Collaboration With OSU-IPPI. - \$TBD (15% WD?)
- c. 9/2014 – 8/2016, Regional IPM Competitive Grant, Western Region, Ellsworth et al. Resistance Mapping Project. - \$TBD (15% WD?)
- d. 9/2014 – 8/2017, USDA-NIFA, Extension IPM (E-IPM) - \$TBD (up to 50% WD)
- e. 2014 or 2015, Oregon State University IPPC, potential funding for ipmPRIME development work - \$TBD %TBD (not yet committed) – DAWN: Wayne has already got more than he can manage. Wayne: It would be great to work on a project like this. There may be geographic challenges. Peter: Wayne has plenty to do. On any new grants we can write additional people in to support his efforts.

It has been rumored that RIPM may no longer be a regional IPM program. It may be one national review panel.

vi. Wayne's evaluation – description of process, roles – Peter

This is the peer review committee for Wayne. You will receive Wayne's evaluation form and instructions on how to access Wayne's CV on UA Vitae (other arrangements will be made for Jack). We will need your numeric ratings and comments. Will be synthesized anonymously and shared with Wayne without numeric rankings.