PSEP FUNDING: 2015 UPDATE

National Stakeholder Team for Pesticide Safety Education Program Funding

PSEP Improvement and Modernization Initiative 2014-2016

NASDA Research Foundation and EPA Coop. Agreement

Pesticide Safety Education: Protecting Human and Environmental Health

Carol Black
Washington State University

PSEP Stakeholder Team Steering Committee

NASDARF Project Manager

Association of American Pesticide Control Officials Annual Meeting
March 2015
The Pesticide Safety Education Program (PSEP)

- Primary Goal: ensure initial/continued competence of certified commercial and private pesticide applicators
  - Commercial applicators
    - Everyone other than private
  - Private applicators
    - Growers, greenhouses, ranchers, nurseries -- and their employees
    - Credentialed, but not certified applicators

- Success is assessed by exams, surveys, inspections, and/or documented changes in behavior

- Budgets are diverse, but most are declining due to cuts in federal, state, extension, and university support
The Importance of PSEP

Applicator certification and recertification:
training opportunities & curriculum/resource development

- Agriculture
  - weeds, insects, pathogens
- Ornamental and turf
  - weeds, insects, pathogens
- Rights of way vegetation
- Aquatics
- Structural, general, and public health pest control
  - residential, institutional, industrial, vectors
- Commodity storage and seed treatment
- Wood preservation

PSEP’s Role

Private Applicators
Commercial Applicators
Technicians
Dealers
The Importance of PSEP

**Extend to other Trainers:** Training opportunities and educational resources available to:

- University County Extension Agents
- Industry
  - registrants, associations, private pesticide safety education companies
- Government
  - State Departments of Agriculture and State Regulatory Agencies
- Ag Health Agencies
- Other university and extension specialists who address pesticide safety education as part of crop- or pest-specific outreach
**PSEP’s Role**

**Consumer use and other non-professional use**

- **Master Gardener and County Agent trainers**
- **Support safe use education/promotion**
  - retailers, health professionals
  - school and multi-family dwelling IPM
  - County fairs, plant clinics, Earth Days, library reading programs
- **Safe handling and use for schools**
  - Administration, facility operations, teachers, staff, parents
  - K-12 curriculum
- **Input on policy decisions and committee activities**
- **Resource development**
  - Web sites, pest/pesticide databases, videos, presentations, fact sheets, blogs, lesson plans, ask-the-expert
What is Wrong with this Picture?

25% of PSEPs have less than ½ person to run their program

40% of PSEPs have less than $75,000/year to run their program (including salary/benefits)
  58% under $150,000

An average enforcement action from one random state is $4,000
Why the Concern?

Downward Trend - Federal Funding

$500,000 (since 2011)
PRIA disbursement:
EPA – NASDARF
Cooperative Agreement 2013/14, 2014/15

Note: Pesticide Registration Improvement Act funds (2007)
Key Reasons for Forming this Team

Robust Land-Grant University Pesticide Safety Education Programs have unique value.

All 50 States should have a robust Land-Grant University Pesticide Safety Education Program.

Current Stakeholder Team Steering Committee:
Jim Burnette – North Carolina Dept. of Agriculture & Consumer Services
Carol Black – Washington State University
Dave Scott – Office of the Indiana State Chemist
Carol Somody – Syngenta
National Stakeholder Team for PSEP Funding
Formed in Oct. 2012 – Representatives from 96 Organizations, and Growing

**Associations**
- Agricultural Retailers Association
- American Association of Pesticide Safety Educators
- American Farm Bureau Federation
- American Mosquito Control Association
- Association of American Pesticide Control Officials
- Association of Public Land Grant Universities
- Association of Structural Pest Control Regulatory Officials
- Council of Producers and Distributors of Agrotechnology
- CropLife America
- Florida Fruit and Vegetable Association
- National Agricultural Aviation Association
- National Association of Conservation Districts
- National Association of County Agricultural Agents
- National Association of State Departments of Agriculture
- National Corn Growers Association
- National Pest Management Association
- Professional Landcare Network, Inc.
- Responsible Industry for a Sound Environment

**Professional Societies**
- American Phytopathological Society
- Certified Crop Advisors of the American Society of Agronomy and Soil Science Society of America
- Entomological Society of America
- Weed Science Society of America

**Government**
- Environmental Protection Agency
- USDA National Institute of Food and Agriculture
- USDA Office of Pest Management Policy
- Alabama Dept. of Agriculture and Industries
- Arizona Dept. of Agriculture
- Clemson University Dept. of Pesticide Regulation
- Delaware Dept. of Agriculture
- Florida Dept. of Agriculture & Consumer Services
- Idaho State Dept. of Agriculture
- Michigan Dept. of Agriculture
- Minnesota Dept. of Agriculture
- Mississippi Dept. of Agriculture and Commerce
- Missouri Dept. of Agriculture
- Montana Dept. of Agriculture
- Nevada Dept. of Agriculture
- New Jersey Dept. of Environmental Protection
- New Mexico Dept. of Agriculture
- North Carolina Dept. of Agriculture & Consumer Services
- Office of the Indiana State Chemist
- Oregon Dept. of Agriculture
- Tennessee Dept. of Agriculture
- Virginia Dept. of Agriculture and Consumer Services

**Pesticide Registrants**
- BASF Corporation
- Bayer CropScience
- Dow AgroSciences
- DuPont Crop Protection
- Monsanto
- Syngenta

**46 Land-Grant University Pesticide Safety Education Programs**
Past Year’s Accomplishments

- **AAPSE-endorsed documents**
  - The Value of Robust Land Grant University PSEPs
  - Effective Land Grant University Pesticide Safety Education Programs: Mission, Need, Requirements, Target Audiences, Goals, and Key Activities

- **Other documents**
  - Teaching Consumers to Use Pesticides Safely
  - Updated Survey: SLA Funding Support for PSEPs
  - Draft: Supplemental Environmental Projects (SEPs)
Past Year’s Accomplishments

- **AAPCO Briefing**

- **Team Teleconferences Since March 2014**
  April, June, July, September, November, January

- **Presentations**
  - International Congress of Pesticide Chemistry (2014)
  - North Central Certification and Training Meeting (2014)
  - NE Tri-agency Meeting + AAPSE Meeting (2014)
  - The Pesticide Stewardship Alliance (2015)

- **WSSA – ESA - APS Press Release:** The Pesticide Safety Education Program Reaches a 50-Year Milestone
Current Work Efforts

- **Online/Distance Education Survey**
  - Augments work of Certification and Training Assessment Group (CTAG)

- **SEPs - Supplemental Environmental Projects**
  - Direct penalties to PSEPs for appropriate pesticide safety education projects

- **IPM Dialogue**
  - Still reaching out to EPA for their participation with USDA and 10 other committed stakeholders

- **PSEP Education Resource Priorities/Access**
Federal Supplemental Environmental Projects (States too)

- An environmentally-beneficial project which a violator voluntarily agrees to perform as part of an enforcement action settlement.

- A SEP furthers EPA's goals of protecting/enhancing human health and the environment.

- **EPA Regions** can negotiate with the violator for assistance to support university based pesticide safety education compliance promotion projects as part of settlement agreements.
EPA OPP and Office of Civil Enforcement (OCE) recognize the concept of using SEPs to support appropriate FIFRA training and outreach activities; and,

We need an EPA Champion to educate those who can effect this consideration.
**View of Work Ahead for 2015-2016**

- **Assist Goal 1 states**
  - Identify available and **current safety education resources** that could be shared among PSEPs
  - Promote **EPA** and **SLA** assistance
  - Facilitate **national dialogue on IPM** emphasis, leadership, procedures, grants, and education

- Foster **FACILITATION and INFLUENCE** among Team members to actively propose and support financial backing for PSEPs

- Maintain transparency with documents and minutes posted to [http://PSEP.US](http://PSEP.US)
Team Conference Calls

Steering Committee meets every month
Full Team every 2 months

National conferences for Goal 1 advisory committee members twice a month
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One Important Spin-Off of the Stakeholder Team…

The Pesticide Safety Education Program Improvement and Modernization Initiative (PSEP-IMI)

Current Steering Committee Representatives from:
- American Association of Pesticide Safety Educators
- Association of American Pesticide Control Officials
- Association of Structural Pest Control Regulatory Officials
- CropLife Foundation
- Dow AgroSciences
- DuPont Crop Protection
- Extension Administration
- Syngenta
- USDA Office of Pest Management Programs
- US Environmental Protection Agency
PSEP-IMI concept begins to emerge Spring 2013

Solicitations began Summer 2013

By August 2013, BASF, Bayer, Dow, DuPont, and Syngenta committed

$1,000,000 for 2014

$1,000,000 in 2015

$1,000,000 in 2016

Cheminova & FMC contributed as well in 2014

Originating sponsors provided funds in 2014 with commitments for 3-years
Year 2: status of $3,065,000

- $2.3 M in funds already under contract (Sept. 2013 RFP)
  - one-year,
  - two-year, and
  - three-year projects

- CropLife Foundation Accounting & Legal Services
  - Contract manager will be hired to help ensure successful completion of projects
25 Universities are Committed to Goal 1
Building capacity to achieve a stronger PSEP

- Formed an advisory committee
- Form a stakeholder team to advance the work plan
- Identify impediments to accessing state resources
- Develop a business plan
- Report progress to PSEP IMI
Goal 2 Project

National Web Site for Resources -- NCSU

- Develop, catalog, and share

- Password-protected
- Data Entry
  - Content Type
    - PPT, Word, Excel, Video
  - Description
    - Topic Focus
  - Source & Authors

W: U of Minn.
S: Texas AgriLife
NC: Ohio State
NE: Penn State
PSEP IMI Projects: Special

- Assess the adequacy of “safety education” in category trainings (Goal 3)
  - Two states

- Business/Strategic Planning Tool

PSEP IMI Projects: Goal 2 Resources

Presentations with Script

- Respiratory Protection
- Human Exposure Case Studies: Mitigation/First Aid
- EPA Risk Assessments and PPE Statements
- Understanding Labeling
PSEP IMI Projects: Goal 2 Resources

Presentations with Script

- Clean and Maintain Spray Equipment
- Water Quality and Pesticide Performance
- Labels: Mandatory vs. Advisory Statements
- Insecticide Resistance Management
PSEP IMI Projects: Goal 2 Resources

Publications

- User Guide: Respiratory Protection for Pesticides
- Certification Category Training Manuals
  - Wood Preservation
  - Public Health Manual
PSEP IMI Projects: Goal 2 Resources

Other

- Pesticides 101 (online): Train the Trainer Course
- Certification (Recert too) Training Units
  - Pest Control
  - Termite Control
  - Ornamental & Turf
## Goal 1, 2, and 3

**Funded Institutions**

- Auburn U.
- Clemson U.
- Colorado State U.
- Cornell U.
- Kansas State U.
- Louisiana State U.
- Michigan State U.
- Montana State U.
- North Carolina St. U.
- North Dakota State U.
- Ohio State U.
- Oregon State U.
- Penn State U.
- Rutgers U.
- Texas A&M U.
- U. of Arizona
- U. of California
- U. of Connecticut
- U. of Delaware
- U. of Georgia
- U. of Hawaii
- U. of Idaho
- U. of Kentucky
- U. of Massachusetts
- U. of Minnesota
- U. of Missouri
- U. of Nevada
- U. of New Hampshire
- U. of Tennessee
- U. of Vermont
- Utah State U.
- U. of Wyoming
- Washington State U.
- West Virginia U.
Thank YOU!

This is a JOINT effort and will be successful due to time and resource commitments from PSEPs and their partners

- State Lead Agencies
- Industry
- Affected Stakeholders
- Federal Agencies
- Professional Societies
The Unique Value of LGU PSEPs

- Provide basic, essential, state-specific PSE resources
- Expand and support the training network
  - by producing training resources for
  - providing training to, and/or
  - assisting with training
- Enhance educational opportunities for professional and non-professional applicators
- Fill a critical educational void left when PSE is ignored or minimized
Provide objective, science-based perspectives for policies, legislation, and general outreach

Collaborate with their State Regulatory Agency
- Manual and exam content
- Compliance emphasis and federal/state priorities

Link to County Extension network
- Transfer research knowledge base

Audience-appropriate educational techniques

Contribute leadership/support to national organizations, workshops, and initiatives
Teaching Consumers to Use Pesticides Safely

A MISSION OF LAND-GRAIN UNIVERSITY
PESTICIDE SAFETY EDUCATION PROGRAMS

PESTICIDE SAFETY EDUCATION PROGRAMS:

- Have a significant role in train-the-trainer programs utilizing Master Gardeners and County Agents who pass along their training to local constituents;
- Provide support to others who have opportunities to promote safe pesticide use by the general public: Garden Center Retailers, Health Professionals, Consumer Educators specializing in IPM in or around schools or homes, etc;
- Educate consumers at public events such as County Fairs, Farm Safety Days, Plant Health Clinics, Farmers Markets, Retailer Workshops, Earth Days, and Library Reading Programs;
- Support pesticide safety education for school Administrators, Teachers, Staff, Parents, and Students;
- Provide input into policy decisions and answer questions from Trade, Consumer and

Impact over Broad Array of User Groups
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NASDA Research Foundation and US EPA 5-Year Cooperative Agreement (X8-83456201)

- **Terms April 4, 2015**
  - Extension to October 4, 2015 for PACT Conference, UPARD, and final report

- **Enhance Pesticide Safety** - $2,600,000

- **University PSEP - PRIA** - $1,000,000 (2 years)

- [http://foundation.nasda.org](http://foundation.nasda.org)
  - Certified applicator
  - Ag & non ag workforce
  - Personal protective equipment
  - Health care providers
A truly amazing number of collaborators and cooperators

Most of whom donated significant time and expertise

Thanks YOU!
Pesticide Applicator Certification Exam Item Banks, Training Syllabi, and Manuals

- Applicator Certification and Training Manual and Exam Assessment
- Aerial Exam Item Bank Revision
- Core Exam Item Bank and Manual Revision
- Rights-of-Way Syllabus/Test Plan/Item Bank
- Soil Fumigation Manual and Exam Item Bank
- Seed Treatment Manual text
- Turf & Ornamental Syllabus/Test Plan
Workshops

- **Audience-Response-System Workshop**
  - 36 SLA/PSEPs

- **Certification Exam Development Workshops**
  - 2011: 46 SLA and PSEPs from 37 different states
  - 2012: 37 SLA, PSEP, and EPA representatives
  - 72% had exceeded and 28% had met their expectation to improve their skills and efficiency for exam development

- **Pesticide Applicator Certification and Training Conference (PACT)**
  - (2013): 165 attendees participated
  - (2011): 190 attendees participated
Reporting Databases

- **UPARD** - University PSEP Reporting System: reporting database – beta test 2015

- **CPARD** - Certification Plan and Reporting Database: reporting web database
  - All state, tribal, federal, and territorial certification plans approved by EPA
  - Annual web-based reporting system for all programs

- **POINTS** - Pesticides of Interest for Water Quality: reporting web database for SLAs
  - Captures states efforts on pesticides of concern, re-evaluations of those of concern
  - Actions taken with applicator education and compliance to address concerns
Certification & Training Assessment Group (CTAG)

- Web site, travel support, logistics, participation
- One or two meetings per year
- Certification awareness brochure
- Certified Applicator Recertification Series
  - Internet Recertification
  - Content Criteria
  - Online Training: Course Design and Structure
  - Addressing Both Core and Category Topics in Training
  - Examples of Including Both Core and Category
- ADA Consideration in Applicator Certification
- Limited Use Categories
- CTAG Accomplishment Reports

Cooperative Agreement (X8-83456201)
Economic Labor Impact of Certified Applicator: Assessment in cooperation with Texas A&M

Personal Protective Garments and Gloves (supports C&T and WPS)
- Publications
  - Policies, Process, and Standards/Certification Required in the United States, European Union, and Brazil
  - PPE for Pesticide Operators: Risk Assessment, PPE Requirements, and Labeling
- Label Review Manual comments and input for EPA proposed revisions – September 2013

International PPE Consortia
- Protective Clothing for Pesticide Operators - Brazil 2012
- Collaborations for Risk Assessments, PPE Requirements, and Labeling – Greece 2013
- **Agricultural Health Study and Applicator Safety Practices** – Univ. of Maryland
  - training module & instructor guide, improve applicator attitudes and behavior changes

- **Rodenticide Outreach** - Univ. of Nebraska Lincoln
  - presentation on products and endangered species – on UNL and NASDA web site

- **Tribal Private Applicator Certification “Pest”** - narrated presentations

- **Video Clip Database** for trainers
  - [http://www.youtube.com/pesticidevideos](http://www.youtube.com/pesticidevideos)
Pesticide Safety to Other Communities

- Recognition and Management of Pesticide Poisoning
  - editing, publication design, printing of 50,000 copies
- Youth Worker Safety Brochure and Factsheet
  - Printable or web PDF
- Print Farmworker Family Comic Books
  - Cooperated with Migrant Clinician Network

Cooperative Agreement (X8-83456201)
CropLife Latin America and their Cooperators: Central America safe handling for pesticide applicator, handlers and farmworkers

- Costa Rica
  - Color training manual (99 pages) developed: *Buenas Practicas de Manejo de Plaguicidas para una Agricultura Sonstenble, Segura, Y Sana.*
  - Posters on 1) triple rinsing pesticide containers, 2) safe handling
  - 1,300 farmers, 30 professionals, 25 students trained

- Nicaragua
  - 66 trainings, 919 males, 373 females trained
Good Neighbor Project in Florida: School-Agriculture interface – Univ. of Florida/FLDACS

- 55 Florida counties reporting

- School locations: 62% not near ag operations, 19% under a 0.5 miles and 19% 0.5-2 miles away.

- Split on school communication with ag operations; same for desire for more information.

- 93% schools report not problem has ever occurred; 2 of 17 statements refer to pesticide spray.

**Conclusion:** when applications are made according to the label, the probability of exposure due to pesticide drift is almost zero.
Thank you all !!!

PSEP Stakeholder Team and PSEP IMI

Unbelievable Support From SLAs and Industry Get Involved!

http://psep.us

Thank you Martha, Carolyn, EPA Project Leads, CTAG, SLAs, PSEPs
An Amazing Ride and Great Accomplishments

http://foundation.nasda.org
http://ctaginfo.org