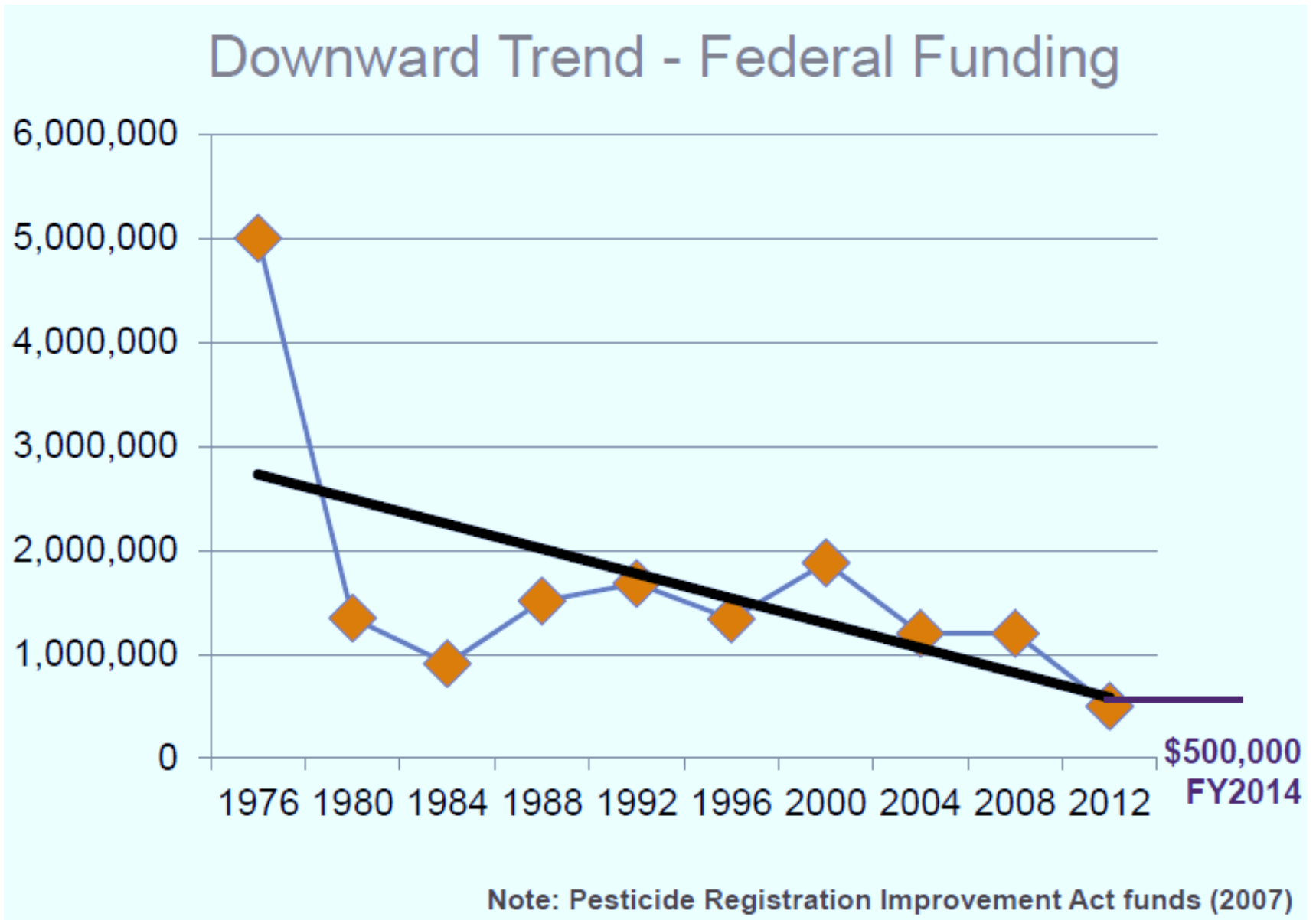


# Pesticide Safety Education Program Improvement & Modernization Initiative 2014-2016

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DuPont Crop Protection

# First, a history lesson



# 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

**46 Land-Grant University  
Pesticide Safety Education Programs**

### Government

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

### Pesticide Registrants

|                   |                        |
|-------------------|------------------------|
| BASF Corporation  | DuPont Crop Protection |
| Bayer CropScience | Monsanto               |
| Dow AgroSciences  | Syngenta               |

# PSEP-IMI 2014-2016

- Launched in August 2013
- Steering Committee: Dow, DuPont, Syngenta, CLF, AAPSE, AAPCO, ASPCRO, EPA, Extension, & USDA
- RFP released--September 2013
  1. Build Capacity
  2. Develop and provide a forum to share resources
  3. Develop assessment tools
  4. Evaluate the adequacy of PSE content in category training
- Proposals received November 15, 2013 with final Contract from the RFP signed in December 2014

# Participating Institutions

- Kansas State University
- Utah State University
- Montana State University
- North Dakota State University
- Washington State University
- Michigan State University
- Colorado State University
- University of Arizona
- University of Delaware
- Auburn University
- West Virginia University
- Texas A&M University
- University of Tennessee
- Rutgers University (NJ)
- University of Wyoming
- North Carolina State University
- University of New Hampshire
- Ohio State University
- University of Minnesota
- University of Georgia
- University of California
- Cornell University
- University of Vermont
- University of Idaho
- University of Connecticut
- University of Nevada
- University of Missouri
- Louisiana State University
- University of Kentucky
- Pennsylvania State University
- University of Massachusetts
- Oregon State University
- Clemson University

# Current funding efforts

- **25** have dedicated themselves to Goal
  - Build Capacity
  - Develop a sustainable business model over 3 years
- NC State developing website along with four others who are sourcing material
- Two states are assessing the adequacy of PSE in category trainings (MI & Vermont)
- University of Minnesota is developing a Business/Strategic Planning Tool

# Funded resources list @ PSEP.US

## PSEP-IMI – Resources Funded in 2014 (Goals 2c, 2d, 2e)

**“Cleaning and Maintenance of Pesticide Spray Equipment” (Colorado/Wyoming, Enhanced Resource)** This online module will demonstrate the proper technique to clean sprayers ranging from hand-held sprayers to turf sprayers to large hydraulic sprayers. The module will include guidelines for cleaning various sized sprayers, the use of tank cleaners, and areas of the sprayers which may be difficult to clean. Maintenance will include inspecting and cleaning nozzles, screens, and hose. This module for applicator recertification credit in English will also be available as a fully-scripted PowerPoint presentation.

**“National Respiratory Protection Educational Module” (Minnesota, New Resource)** This module will consist of: a) a presentation PowerPoint, b) in-depth support materials for presenters (i.e. train the trainer), c) TurningPoint quizzes and other learning tools, d) a supplement to the PowerPoint for learners and e) a version of the PowerPoint suitable for uploading into e-learning environments. The module will also be translated and made available in Spanish.

**“Recertification Workshop Learning Assessment Tool” (Minnesota, New Resource)** A case study will be created for use as a training tool for other PSEPs developing assessment tools and will document how actual onsite plus follow-up participant surveys of private recertification workshops measured workshop educational outcomes and addressed the challenges and issues in creating the tool and its value. A draft generic national assessment tool will be developed, including supporting documentation about costs, implementation, etc. designed for use and adaptation in by other states.

**“Water Quality and Pesticide Performance” (Montana/Idaho, Enhanced Resource)** This online module will discuss the impacts of water pH, hardness, and turbidity on pesticide performance. This module for applicator recertification credit in English will also be available as a fully-scripted PowerPoint presentation.

**“Update and Enhance 2002 Document Respiratory Protection for Pesticides and Companion PowerPoint to Become Respiratory Protection for Pesticides - A User’s Guide to Reading between the Lines of the Label (for National Use)” (New Jersey, Enhanced Resource)** “Respiratory Protection for Pesticides” will be updated. It addresses setting up a respiratory protection program; respiratory hazards and proper use of respirators; use of certified respirators; selection of respirator type; service life; medical evaluation; respirator fit, and use, care, and maintenance of respirators, using primary sources of information such as NIOSH standards, OSHA rules and regulations, and published EPA policy.

**“A National Wood Preservation Training Manual” (New York, New Resource)** This manual will be in English and have the following sections: a. Purpose and Goals of

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Wood Preservation; b. Wood Preservatives (types, hazards to human health and the environment); c. Preparing Lumber and Wood Products for Treatment; d. Nonpressure Treatment of Wood (including laws, safety precautions and recycling/disposal); e. Pressure Treatment of Wood (including laws, safety precautions and recycling/disposal); and f. Quality Control (e.g., AWPA standards).

**“A National Public Health Manual and Accompanying PowerPoint Training Presentation” (North Carolina, New Resource)** A new Public Health Pest Control certification manual and accompanying scripted PowerPoint training presentation will be developed for national use.

**“Discerning Mandatory and Advisory Statements on Pesticide Labels” (North Dakota, New Resource)** Four learning modules will focus on pesticide labeling for products used in Agricultural Pest Control, Ornamental and Turf Pest Control, Rights of Way Weed Control and Structural Pest Control. Each module will include 1) a PowerPoint presentation that will lead applicators through the qualifier language used with Mandatory/Advisory statements, 2) a worksheet with the actual label statements as well as a question and answer set, 3) a TurningPoint presentation that will allow the presenter to judge pre- and post-test knowledge, and 4) a narrated video presentation of the PowerPoint/TurningPoint to train the trainer.

**“Pesticides 101 On-Line Train-the-Trainer Course for PSEP and Other Not-for-Profit Educators” (Pennsylvania, New Resource)** These Pesticide 101 curriculum modules will be aligned with the National Pesticide Core Manual, with content adapted when the second edition of the National Core Manual becomes available. There will be online modules on each chapter and activities, including hands-on demonstrations, PowerPoints and handouts, to use when teaching the pesticide safety material to learner audiences.

**“Protecting Bees during Pesticide Applications” (South Dakota/North Carolina, Enhanced Resource)** This online module will address the current state of knowledge on the effects of pesticide applications to bee health, explain pesticide label information specific to bee protection, and promote best management during application (e.g. strong communication with apiarists, best practices against drift and pesticide application timing to avoid bee exposure). This module for applicator recertification credit in English will also be available as a fully-scripted PowerPoint presentation.

**“A Pest Control Unit, a Termite Control Unit, and an Ornamental and Turf Unit, Each Consisting of Several Modules for New Applicator Training as Well as Continuing Education” (Texas, Enhanced Resource)** Each unit will consist of several modules, organized in such a way that they can be used as one large training package or in portions, as needed. Each unit will consist of training on pests commonly encountered as well as training in core principles. Units will include videos, PowerPoint slides, PowerPoint slides with narration, video clips, and supplemental reading material. Pre-tests, post-tests, activity handouts/directions, and supplemental reading material will be provided with each of the units.

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National Stakeholder Team for  
Pesticide Safety Education Program Funding (PSEP)  
Last updated: September 9, 2014

[Go to PSEP-IMI 2013 RFP](#)  
[Go to Goal 1 State Resources](#)

Background Documents on PSEP Funding

Current Stakeholder membership roster—August 29, 2014, [organizations and contacts](#)

- PSEP-IMI [Funded Training Resources](#) for 2014, August 29, 2014
- Legislative Action At The State Level To Support PSEP, [White paper](#) by the State Work Group—updated August 29, 2014
- Education: The Critical Bridge Between the Label and Judicious Pesticide Use, presentation delivered to the International Congress of Pesticide Chemistry, by Carol Somody, Syngenta and Scott Jackson, BASF [PowerPoint file and video](#), August 16-14-2014

**“Insecticide Application Strategies to Manage Pesticide Resistance” (Utah, Enhanced)** This online module will address the evolutionary mechanism of pesticide resistance development within a pest population. It will stress the importance of IPM techniques and best practices in pesticide application (correct dosing, calibration, pesticide rotation). This module for applicator recertification credit in English will also be available as a fully-scripted PowerPoint presentation.

**“Pesticide Labeling: Understanding, Application, and Safety” (Utah/Hawaii, New Resource)** This online module will include pesticide labeling information with emphasis on mandatory versus advisory language with the emphasis placed on safety. The presentation will rely heavily on the revised EPA Label Manual and the numerous EPA pesticide web sites. Video footage will include situations that illustrate how label misinterpretations occur. Numerous label images will be used to demonstrate the need to carefully read and follow pesticide label directions. This module for applicator recertification credit in English will also be available as a fully-scripted PowerPoint presentation.

**“Using Human Exposure Case Studies to Educate Applicators about Risk Prevention and First Aid” (Washington, New Resource)** This project will use the concept of case-study education to relay personal protective practices. Several case studies will be presented, how each case was investigated, their findings, and then the underlying principles of pesticide safety that could have prevented the problem from arising. In addition, labeling language will be referenced and a discussion of the risk assessment process for that particular scenario. Four 50-minute PowerPoint modules will be developed and also translated into Spanish.

**“EPA Risk Assessments and PPE Requirements for Pesticide Labeling” (Washington, New Resource)** This online module will look at the basis of the risk assessment process required for pesticide registration. Mitigation measures for labeling language for personal protective clothing and equipment will be presented based on the recently revised EPA Label Review Manual. Video clips will illustrate different exposure scenarios. Images of dermal exposure assessment will be discussed in greatest detail since the large majority of products pose greater concerns for dermal exposure. This module for applicator recertification credit in English will also be available as a fully-scripted PowerPoint presentation.

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## 17 States Funded

# Next 2 years

- \$2.3 M in funds dedicated
  - 4 primary funding CPP companies
  - 2 contributing CPP companies
  - CropLife – Accounting and Legal Services
- To maximize results:
  - Efforts of the Funding Companies and the Steering Committee will concentrate on the successful completion of projects underway
  - A Contract Manager is being hired to help ensure results



# Two critical factors

- PSEPs that have strong programs SHOULD continue working to develop tools that can be shared, especially with Goal 1 States who are working diligently to build their programs
- All PSEPs should work with PSEP-IMI Regional Web Compilers
  - ❖ U of Minn. covering the West
  - ❖ Texas AgriLife covering the South
  - ❖ Ohio State coordinating the North Central
  - ❖ Penn State is working the North East

Thank you for your attention!

Questions?