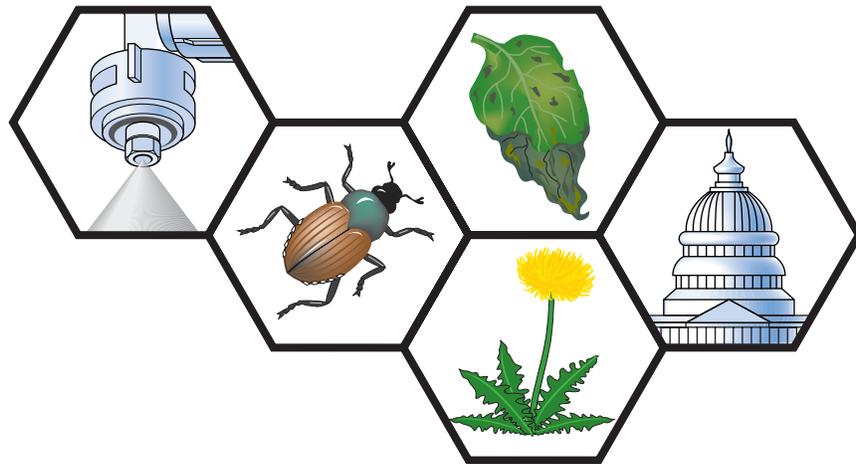


**University of Illinois  
Extension**

**Pesticide Safety  
Education Program**



**ANNUAL REPORT  
2018-2019**



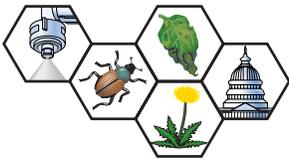




# Program Highlights and Impacts

- 48 Clinics Offered
  - 2 State Agency Clinics
  - 22 Commercial Applicator Clinics
  - 16 Private Applicator Clinics
  - 4 Commercial Test-Only Clinics
  - 4 Field Crops Clinics (added to help operators comply with new applicator requirements)
- A total of 13,619 people received pesticide certification training
  - 11,073 Commercial Applicators and Operators
  - 2,546 Private Applicators
- PSEP Trainings were approved for continuing education credits with American Society of Agronomy Certified Crop Adviser, Illinois Department of Public Health, International Society of Arboriculture, and Golf Course Superintendents Association of America
- Illinois Pesticide Safety Education Manual: Vegetable Crops published
- Six issues of The Illinois Pesticide Review newsletter were published
- Fourteen issues of The Home, Yard, and Garden Pest Newsletter were published
  - 75 total articles
- The factsheet, “Putting the Pieces Together about Dicamba on Soybeans for 2019” was created
- The PSEP Office processed 11,547 training clinic registrations. The online registration option continued to provide 24-hour access to easy and efficient registration for clinic attendees. Clientele also continued to have the options of registering by mail or by phone. Telephone calls placed during business hours were provided personal service. Calls placed after business hours were greeted with an automated telephone service.





## Illinois Pesticide Safety Education Program

- 
- 
- 
- 
- 
- 

# Program Mandate

## Authority

Illinois law, in accordance with the Federal Environmental Pesticide Control Act, requires that anyone who purchases or uses pesticides classified as “restricted use” must be certified as a commercial pesticide applicator or operator, or a private (farmer) pesticide applicator. In addition, those who apply “general use” pesticides commercially must also be certified. The responsibilities of the Illinois Department of Agriculture (IDA) and University of Illinois Extension (Extension) in pesticide certification and training are clearly defined. The IDA, as lead agency, has responsibility for the certification and issuing of permits or licenses to persons who apply pesticides. Extension, working in cooperation with IDA staff, is responsible for conducting educational training programs for private, commercial, and non-commercial pesticide applicators and operators.

## Purpose

Since 1966, Extension has been conducting training schools for private applicators, and commercial agricultural and urban operators and applicators. The purpose is to train applicators and operators in the proper and safe use of pesticides to prevent misuse and to avoid accidents. In addition to keeping applicators up-to-date on new developments in both chemical and nonchemical pest control methods, the training sessions help to prepare applicators to pass the certification examinations required for obtaining a license. This quality pesticide safety education is ultimately vital to Illinois residents in terms of public health protection and environmental stewardship.

## Support

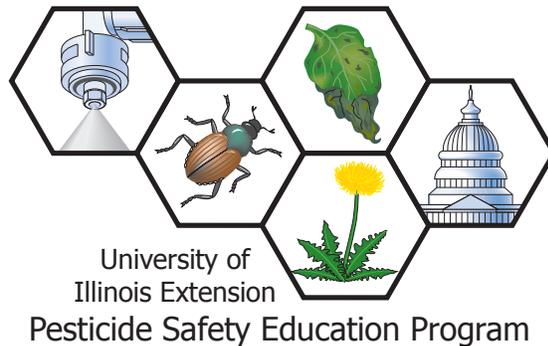
Initial funding for the Pesticide Safety Education Program (PSEP) was provided by the U.S. Environmental Protection Agency (USEPA) through the USDA Federal Extension Service, starting in 1974. These funds have been reduced over the years in amount and also in value due to inflation.

The Pesticide Control Fund, approved by the Illinois State Legislature in August 1985, provides funds to the IDA “for the purpose of conducting a public educational program on the proper use of pesticides and for other activities related to the enforcement of this act.” This fund provides the bulk of the dollars needed to conduct educational programs related to the safe and proper use of pesticides.

# State Lead Agency Cooperation

Since 1998, the PSEP team has worked with the Illinois Department of Agriculture to review exam questions (based on our PSEP manuals) for use in the certification process. As a result, both parties feel more comfortable with the exams given to our clients. During the past year, PSEP assisted the IDA in reviewing exam questions on new aquatics and general standards certification exams.

Close interaction with the Illinois Department of Agriculture regarding the number of attendees at each clinic and other operational issues results in consistent information from both training and testing personnel to our PSEP clinic attendees.

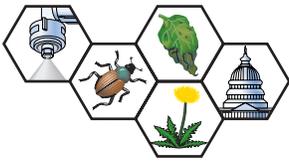


**ILLINOIS**

Extension

**COLLEGE OF AGRICULTURAL, CONSUMER  
& ENVIRONMENTAL SCIENCES**





## Illinois Pesticide Safety Education Program

- 
- 
- 
- 
- 
- 
- 

# PSEP Specialists



**Patty Bingaman**

Extension Assistant, Office Assistant  
Department of Crop Sciences

Facilitates operational functions of the PSEP team including publication data, processing orders along with the monetary obligations. Handles the telephone queries and collects program registrations.



**Travis Cleveland**

Extension Specialist, Plant Pathology  
Department of Crop Sciences

Provides subject matter expertise and training in pesticide training with an emphasis on plant pathology. Provides diagnostic support for the UI Plant Clinic. Coordinates PSEP annual report, commercial and private PSEP trainer scheduling, and the Home, Yard and Garden Pest Newsletter. Coordinates Illinois' Worker Protection Standard outreach.

<https://cropsciences.illinois.edu/people/profile/tclevela>



**Matt Gill**

Outreach Specialist, Application Equipment  
Department of Agricultural and Biological Engineering

Provides subject matter expertise and training in pesticide application equipment and calibration. Conducts special aerial calibration clinics, research, and pesticide drift reduction programs. Maintains and coordinates storage of PSEP supplies and equipment.

<https://abe.illinois.edu/directory/gill14>



**Sarah Hughson**

Extension Specialist, Entomology  
Department of Crop Sciences

Provides subject matter expertise and training in entomology, specializing in herbivorous insects. Provides insect identification support and IPM recommendations for the UI Plant Clinic. Serves as a member of the Illinois Structural Pest Control Advisory Council with Illinois Department of Public Health and a planning committee member with the Purdue Pest Management Conference.

<https://cropsciences.illinois.edu/people/profile/hughson2>

- 
- 
- 
- 
- 
- 



**Jean Miles**

PSEP Program Facilitator and Office Manager  
Department of Crop Sciences

Coordinates PSEP clinics. Conducts clinic preregistration and PSEP publication distribution. Maintains financial accounts, develops new databases, and prepares special reports and brochures. Coordinates acquisition, reprinting, and marketing of PSEP study material.  
*<https://cropsciences.illinois.edu/people/profile/jmiles1>*



**Maria Turner**

Extension Specialist, Pesticide Safety - Horticulture  
Department of Crop Sciences

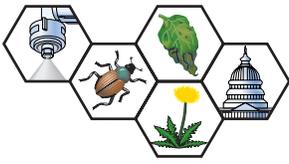
Provides subject matter expertise and training in pesticide safety and integrated pest management. Coordinates private applicator training program. Co-coordinates PSEP social media. Provides expertise in organic pest control.  
*<https://cropsciences.illinois.edu/people/profile/mrestrep>*



**Michelle Wiesbrook**

Extension Specialist, Weed Science  
Department of Crop Sciences

Provides subject matter expertise and training in pesticide safety with an emphasis on horticultural weed science. Serves as IPR newsletter editor, collecting and organizing material; co-coordinates social media information and ensures its timely publication. Facilitates accreditation of trainings through various professional organizations.  
*<https://cropsciences.illinois.edu/people/profile/buesinge>*



Illinois Pesticide Safety Education Program

- 
- 
- 
- 
- 
- 

## Steering Committee

The PSEP Steering Committee represents the two departments housing PSEP Specialists as well as off-campus staff, serving in program administration and advisory capacities as various opportunities and challenges arise. The committee members are familiar with the PSEP program and its mission. They represent the interests of their disciplines, associated clientele, and departments, with a variety of expertise, experiences, and perspectives.



Adam Davis

Chair of the PSEP Steering Committee

Professor and Head, Department of Crop Sciences, University of Illinois



**Tom Voigt**

Professor of Turfgrass, Landscape, and Energy Grasses

Department of Crop Sciences Representative

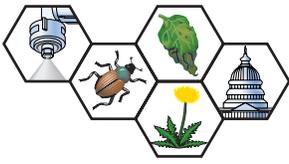
Dr. Voigt retired from the University of Illinois December 2018. We thank him for his years of support to our program

# Support Trainers

The following professional educators assisted PSEP specialists with Private Applicator Training Clinics and Commercial Applicator Training Clinics. We thank them for their support.

- Phillip Alberti
- Bruce Black
- Sam Davis
- Samantha Debosik
- Chris Enroth
- Dennis Epplin
- Duane Friend
- Doug Gucker
- Richard Hentschel
- Russ Higgins
- April Holmes
- Kim Isaacson
- Ken Johnson
- Jim Morrison
- Phil Nixon
- Barbara O'Meara
- Ryan Pankau
- David Robson
- Marion Shier
- Jesse Soule
- Martha Smith
- Teresa Steckler
- James Theuri
- Kayla Valcheva
- Elizabeth Wahle





Illinois Pesticide Safety Education Program

- 
- 
- 
- 
- 
- 

# Pesticide Safety Education Program

## Administrative Office

The University of Illinois Extension Pesticide Safety Education Program (PSEP) maintains an office to carry out needed administrative and secretarial functions. Close interaction with the Illinois Department of Agriculture regarding specific clinic operations results in consistent information from both training and testing personnel to our PSEP clinic attendees.

### Clientele Communication Options

Pesticide Safety Education Program clientele have multiple options available to help register for training clinics or purchase educational materials. The PSEP website ([www.pesticidesafety.illinois.edu](http://www.pesticidesafety.illinois.edu)) provides links to a convenient “one stop shop” for clinic registration and ordering of study material. The system was designed specifically for PSEP and has been viewed as the leading registration/ordering system in Extension. Clientele can also access the online training programs through the PSEP website.

In addition, the telephone system includes 24-hour voice mail, an automated attendant to assist the caller in selecting which option is needed and a direct rollover option to the Illinois Department of Agriculture. There are currently 56 voicemail lines so that a busy signal does not occur. With the high volume of in-coming calls, this telephone system helps to direct patrons to the phone service they need in a timely manner. Many customers still want to be reassured that their online registration was received and is being processed.

Commercial and Private schedules, plus other pertinent clinic information is also available on the University of Illinois Pesticide Safety Education website. A listing of PSEP publications including the most recent publication date is available on this site. Clients have the added option to print and mail the forms to register for clinics and/or order study materials.

## **Educational Materials**

The PSEP Office conducts the sale and distribution of over 35 manuals, workbooks and pest guides. Customer response is positive because they are able to register and/or order desired material with one action, either via telephone or our online system. Mailing of requested educational materials is promised within 72 hours; however, this is usually accomplished within the same day.

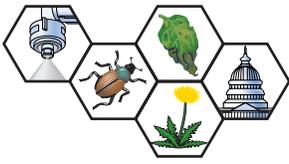
## **Clinic Registration**

Forty-eight clinics were scheduled for the 2018-2019 applicator training season. The majority of the clinics, 22, were for commercial applicators, while 16 clinics were conducted for private applicators. Two state agency clinics were held prior to the season. State agency clinics provided additional training and testing opportunities for applicators employed by the Illinois Department of Transportation, Illinois Department of Natural Resources, etc. Four test-only sessions were also conducted at various times during the training season. A new regulatory requirement significantly increased demand for certified field crops applicators. Four additional field crops training clinics were added to the training schedule to accommodate this demand.

During the 2018-2019 training season, 8,777 Commercial registrations were processed in the PSEP office. The attendance for all commercial training sessions, General Standards and category trainings, totaled 11,073. There were an additional 2,770 registrations or Private Applicator clinics with attendance totaling 2,546. The combined attendance for the commercial and private training programs totaled 13,619 people for the 2018-2019 training season.

## **Financial Accountability**

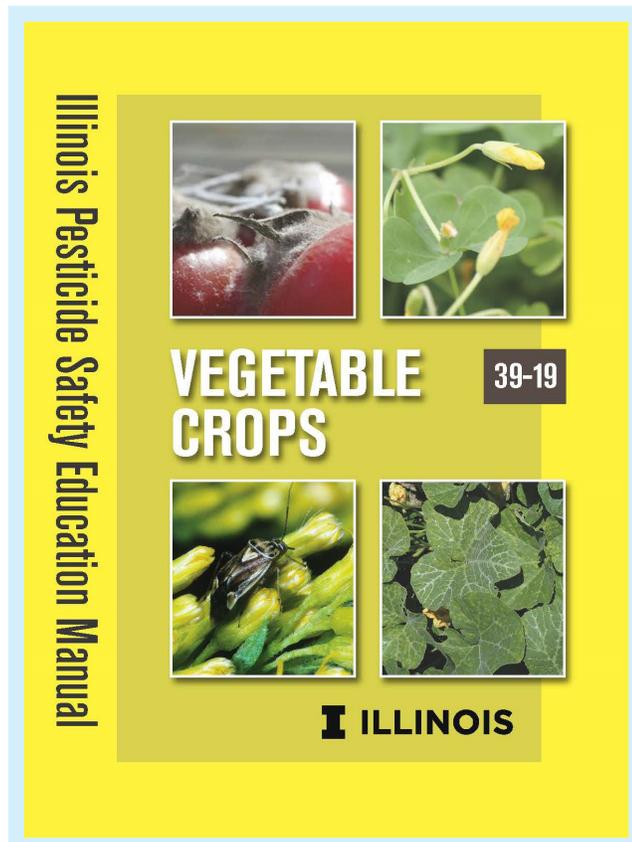
An additional responsibility of the PSEP office is the monitoring of receivables. At this printing, all outstanding payments have been resolved. This is accomplished by the combination of on-going database management plus the utilization of set office procedures.



Illinois Pesticide Safety Education Program

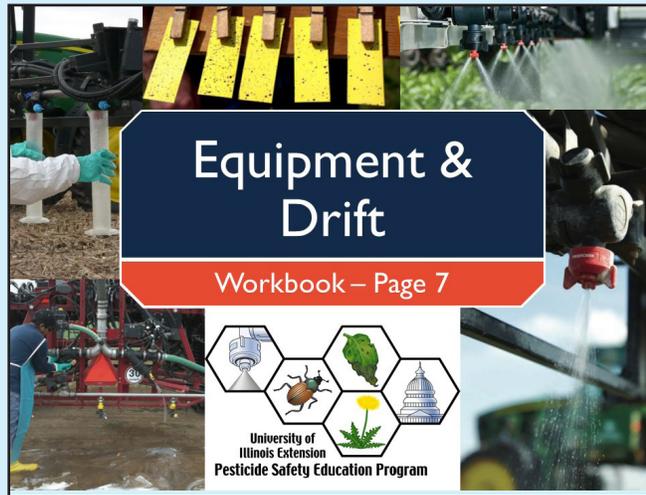
## Educational Materials

University of Illinois PSEP publishes twenty-one manuals that address most areas of pesticide certification in Illinois. Ten workbooks are produced to cover the twelve most commonly licensed areas. Our manuals and workbooks continue to be used not only as references and learning tools before and during training clinics, but also as self-tutorial guides for those who wish to study on their own. These publications allow us to educate more operators and applicators than those who attend PSEP clinics.



Vegetable Crops Manual  
(Revised January 2019)





### Sprayer Components

**Nozzle**  
Most important equipment selection

Photo: Jensen Equipment Co.

### Overlap and Uniformity

**Overlap:** Percentage of spray pattern that applies to the adjoining pattern

Determined by Nozzle Spacing and Boom Height

Raise boom to increase overlap  
Lower boom to decrease overlap

### Types of Applications

- Spot** Treat only where pest is located
- Band** Treat only strips or over rows
- Broadcast** Treat entire area or field

### Droplet Size

Droplet size influences Coverage and potential for Spray Drift

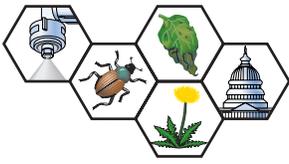
Small Droplets provide better coverage but are more likely to drift

Nozzles produce a range of droplet sizes known as the Droplet Size Spectrum

Better Coverage ← → Less Drift

## Revised Training Manuals, Workbooks, and Presentations

The Vegetable Crops category manual was revised and published as a stand-alone publication separate from the Fruit manual. PSEP completed a major revision of the General Standards and Private Applicator training presentations as well as their corresponding workbooks. The revised training slides were updated with new branding and appearance. Other publications that were revised during this period include: Rights-of-Way Workbook, Field Crops Workbook, Ornamentals and Turfgrass Workbook, and Mosquito Workbook.



## Commercial PSEP Clinics

Twenty-two pesticide training and certification clinics for commercial applicators and operators were conducted during 2018-2019 training season. Two additional clinics were conducted to meet the needs of state agencies. Four field crops training sessions were added mid-season to help Illinois applicators comply with new regulatory requirements. During the training season, 11,073 commercial applicators and operators received training (See Table 1). In addition to the General Standards, training was offered for the following categories: Field Crops, Turf, Ornamentals, Rights-of-Way, Aquatics, Seed Treatment, and Mosquito.

General Standards trainings covered 8 topics over a 3.5 hour session. Training topics included: Understanding Pesticides, Pesticide Application Equipment and Drift Reduction, Human Pesticide Protection, Equipment Calibration and Examples, Integrated Pest Management, Pesticides and the Environment, Labels and Labeling, and Pesticide Laws and Regulations. Category trainings ranged from 1.5 hours to 3.5 hours in duration. Topics covered during the training sessions were specific to the category.

Training clinic attendees received workbooks formatted as “guided notes” to encourage engagement, highlight important points from the presentations, and to facilitate full and accurate notes. University of Illinois Extension Pesticide Safety Educators presented the various topics and were available to respond to any questions.

### Trainers

PSEP Specialists conducted the training clinics. Extension Educators and other Extension Specialists throughout the state also assisted with the trainings. PSEP Specialists provided assistance to the training efforts of these Extension Educators by furnishing PowerPoint presentations, notes, and other training materials. This afforded additional educational contacts for the participating Extension Educators and allowed the campus-based staff to pursue additional activities. All mosquito category training sessions were conducted by specialists employed by the Illinois Department of Public Health.

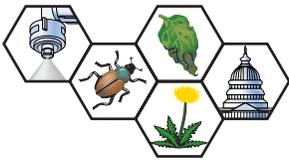
### Continuing Education Units

Clinic attendees received continuing education points from the Golf Course Superintendents Association of America (GCSAA) for both Turf and General Standards trainings. International Society of Arboriculture (ISA) members received educational credits for attending the Ornamentals category training. Many of our clients are Certified Crop Advisors and received CCA education credits for Field Crops and Seed Treatment. The Illinois Department of Public Health issued CEUs for completion of General Standards training.

**Table 1. Attendance by Category for 2018-2019 Commercial PSEP Clinics**

CLINIC DATE	LOCATION	GS	S	T	O	FC	MOS	ROW	AQ	TOTAL
Nov. 27-28	Springfield	195	28			78		53		354
Dec. 5-6	Sandwich	174	19			80				273
Dec. 19-20	Mt. Vernon	269	16			156		61		502
Jan. 3-4, 2019	Matteson	176		51	28				19	274
Jan. 7-8	Champaign	395	40			390				825
Jan. 10-11	Rockford	213		104	46					363
Jan. 15-16	Peoria	354				329		24		707
Jan. 18	Utica FC ONLY					105				105
Jan. 23-24	Mt Vernon	244		45	21		23	53		386
Jan. 25	Carterville					56				56
Jan. 29	Peoria IFCA					177				177
Jan. 30-31	Champaign	314		40	29			60		443
Feb. 7-8	Jacksonville	199				199				398
Feb. 11	Champaign					274				274
Feb. 13-14	Springfield	359		67	45			71		542
Feb. 20-21	Collinsville	335		87	25			85	22	554
Feb. 26-27	Alsip	284		96	57			49		486
Feb. 28-Mar 1	Crystal Lake	279		74	40			68		461
Mar. 5-6	Peoria	350		86	33				39	508
Mar. 13-14	Des Plaines	273		115	32				30	450
Mar. 20-21	Rockford	314		60	25		65	92		556
Mar. 27-28	Moline	277		49	20			79		425
Apr. 2-3	Matteson	259		49	22		40	39		409
Apr. 9-10	Collinsville	272					46	119		437
Apr. 16-17	Alsip	238		25	5		18	53		339
Apr. 23-24	Skokie	219		50	24			27		320
May 1-2	Des Plaines	220		21			34	33		308
May 8-9	Springfield	110					31			141
	<b>TOTAL</b>	<b>6322</b>	<b>103</b>	<b>1019</b>	<b>452</b>	<b>1844</b>	<b>257</b>	<b>966</b>	<b>110</b>	<b>11073</b>

GS=General Standards; S=Seed Treatment; T=Turfgrass; O=Ornamentals;  
 FC=Field Crops; MOS=Mosquito; ROW=Rights-of-Way; AQ=Aquatics



## Illinois Pesticide Safety Education Program

# Online Training Courses

A variety of interactive online training programs are available to assist applicators preparing for category exams. These courses also serve to expand training opportunities to areas of the state where on-site training is not feasible.

The training modules are scripted, as well as voiced. Lessons are self-paced and can be completed in approximately 3 hours. Users can choose to finish them all at once or over the course of several days. Additionally, participants can review any of the previously accessed modules. Training modules cost \$15.

During this reporting period, online training courses included:

## Demonstration and Research

The Demonstration and Research training course is designed for people who demonstrate safe and effective use of pesticides to public, as well as for people who supervise or conduct field research with pesticides. Training modules include: Laws and Regulations, Pesticide Characteristics, Experimental Design, Calibration, and Plant Injury Diagnosis.



## Plant Management

Plant Management is geared towards commercial applicators managing interiorscapes. Training modules include: cultural requirements and stress management; common insect and disease pests and their controls; and application equipment and calibration.



## Grain Facility

The Grain Facility course covers topics related to stored grain pest management and is for those who manage pests around grain elevators or other grain holding facilities. This convenient online course helps prepare applicators for the Grain Facility category exam. Private Applicators, who plan to fumigate their own grain, can use an abbreviated version of this training course to prepare for the Grain Fumigation exam. Modules include: insect identification and control; storage molds of grains; and rodent and bird pests.



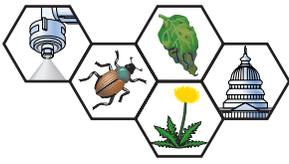
## Vegetable Crops



The Vegetable Crops online training modules were developed to provide applicators with the knowledge needed to pass the Vegetable Crops category exam. The training covers four areas – Diseases, Insects, Weed Management, and Application Equipment and Calibration.

The diseases module deals with the common diseases of cucurbits, tomatoes and peppers, and sweet corn. The

Insect module includes chewing and sucking insects, focusing on the pests for specific vegetables. Weed management deals with the issues involved with controlling weeds as well as a few weeds for identification. Application Equipment and Calibration deals with the current innovations in spray application, and basic calibration equations.



# Private Applicator Training Clinics

Private Applicator clinics are designed for grain farmers, orchardists, and small acreage farmers (vineyards, vegetable growers, etc.) who apply restricted-use pesticides on their properties or managed lands. While similar to General Standards training, Private Applicator clinics put an added emphasis on changing technology, modes-of-action and reducing pesticide resistance, environmental issues including drift and stewardship with emphasis on protecting pollinators, and human pesticide protection.

Private applicator training and recertification needs were met with 16 regional training clinics and 30+ test-only clinics. Private Applicator training clinics are taught by University PSEP staff members with assistance from local county Extension educators and retired regional Extension educators. Private pesticide testing occurs immediately after training, with an average passing rate greater than 95%.

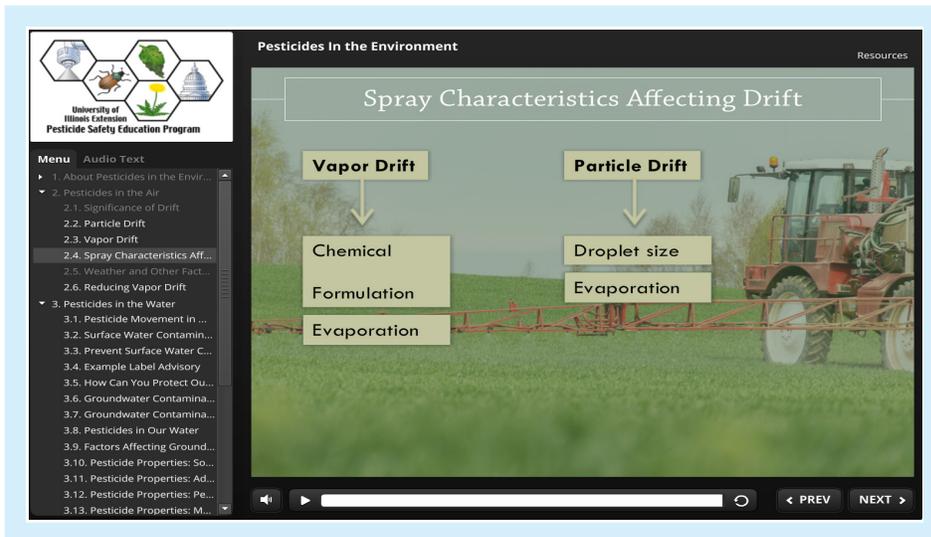
**Table 2. Attendance for 2018-2019 Private Applicator Trainings Clinics**

Clinic Date	Location	# Clinic Attendees
Nov. 29	Springfield	153
Dec. 4	Utica	109
Dec. 11	Champaign	177
Dec. 13	Carterville	103
Dec. 18	Mt Vernon	190
Jan. 9	Rock Falls	125
Jan. 14	Bloomington	247
Jan. 17	Galesburg	162
Feb. 1	Bradley	112
Feb. 5	Effingham	277
Feb. 15	Quincy	151
Feb. 19	Collinsville	212
Mar. 4	Peoria	177
Mar. 12	Champaign	150
Mar. 19	Rockford	126
Mar. 26	Moline	75
	<b>Total:</b>	<b>2,546</b>



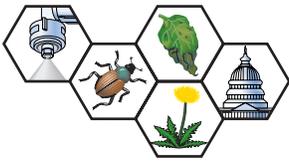
## Online Private Applicator Training

The online private applicator training course allows a person to obtain training without attending a training clinic or working through the Private Applicator Training Manual and Workbook. Access is through a password obtained after the online training fee is paid. The training is organized into the same topics as the manual and face-to-face training. Presentation typically consists of an illustration or photo with accompanying written and narrated text. Slide progression is controlled by the trainee so participants can go back to visit previous slides as well as skip slides with familiar content. The modules also include interactive activities. Testing is not available online. The trainee makes arrangements to take the test at a testing only session or at an IDA office.



## Spanish Online Private Applicator Training

A Spanish translation of the online private applicator training was updated May 2018. The training modules were reformatted, and numerous new pictures were added as well as new interactive activities. The training is organized into the same topics as the manual and face-to-face training.

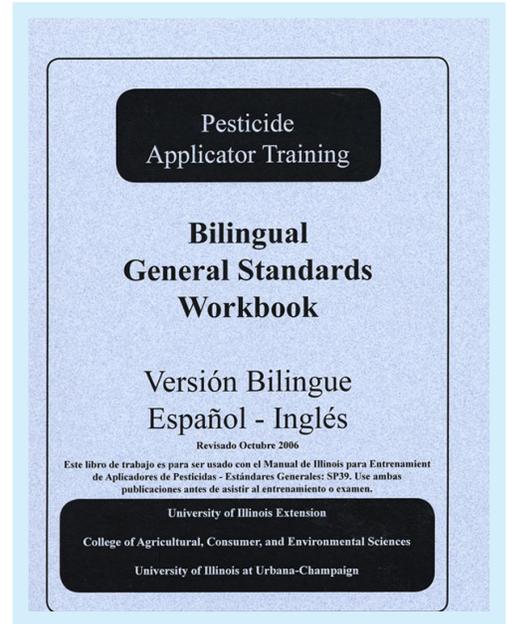


## Illinois Pesticide Safety Education Program

- 
- 
- 
- 
- 
- 

# Bilingual Training

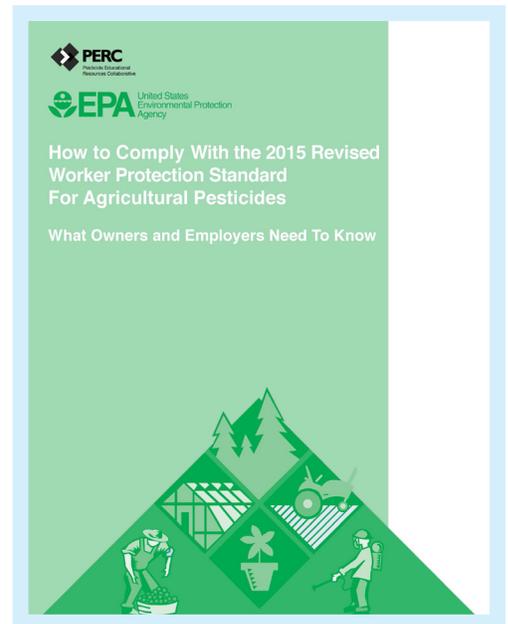
Hispanic clientele are progressively becoming a larger proportion of our clientele. Many have excellent English language skills and are fully capable of understanding training and testing in English. Others have difficulty with English, but still must pass an English written exam to obtain pesticide certification due to most pesticide labels being in English only. Individuals seeking bilingual training are directed to the Spanish version of our online private applicator training. A Spanish version of the General Standards Manual and a Bilingual Workbook are also available.



Revised December 2018

# Worker Protection Standard

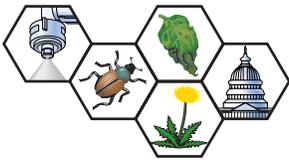
Travis Cleveland coordinated the Worker Protection Standard (WPS) efforts for the PSEP team. We answer questions and provide guidance on how to comply with the Worker Protection Standard regulation. We also work to inform employers, employees, IDA inspectors, and educators about the WPS through newsletter articles and during PSEP clinics. We keep up-to-date on new developments through training sessions, new publications, e-mail, and other methods.



## Operation S.A.F.E. Fly-ins

The purpose of an Operation S.A.F.E. fly-in is to make sure aerial applications are made accurately and safely. At a fly-in clinic, an aerial applicator can view the spray pattern, determine effective swath width, and examine the spray droplet size created by the aircraft. If corrections need to be made, the applicator can make adjustments to the aircraft setup and then immediately re-run the aircraft over the flight line to verify that the changes have improved the spray pattern or droplet size. In many cases an aerial applicator may run multiple series over the flight line, checking the different setups they use for the various spray application rates they use throughout the course of a spraying season. For instance, nozzle orifice size, nozzle deflection angle, and the number of nozzles used on the boom can vary depending on the GPA (gallons per acre) that the applicator is setting the aircraft up to apply.

<b>Date</b>	<b>Location</b>	<b>Number of Aircraft Tested</b>	<b>Number of Test Runs</b>
Sept. 21, 2018	Huron, SD	2	71
April 24, 2019	Huron, SD	3	54
May 14, 2019	New Holstein, WI	9	93
May 15, 2019	East Troy, WI	6	53
May 21, 2019	Mattoon, IL	3	24
May 23, 2019	Manito, IL	3	33
June 3, 2019	Astoria, IL	4	27
June 26, 2019	Rochelle, IL	11	63



## Illinois Pesticide Safety Education Program

- 
- 
- 
- 
- 
- 

# Mass Media

Through radio, television, newspapers, and magazines, PSEP specialists increased client knowledge of proper pesticide application, new developments in human and environmental pesticide safety, and recently enacted rules and regulations. Newspaper and magazine articles were published as the result of news interviews or news releases produced by PSEP specialists. Social media was used to promote proper pesticide use.

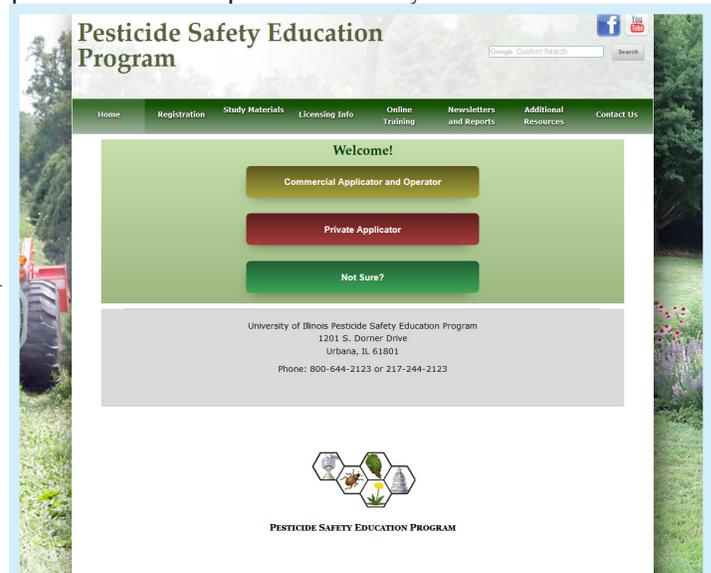
## Illinois Pesticide Review

Six issues of The Illinois Pesticide Review newsletter were published this year. This bimonthly newsletter is written by PSEP specialists to address pesticide safety issues, regulatory information, and changes in pesticide registration and label status. Each issue contains at least one in-depth article addressing current pesticide issues or pesticide-related activities. The newsletter is available on the Pesticide Safety Education website. This newsletter had approximately 350 subscribers during this reporting period

## PSEP Website

The Pesticide Safety Education website ([www.pesticidesafety.illinois.edu](http://www.pesticidesafety.illinois.edu)) continues to provide up-to-date information. The site features fact sheets, tips, links to relevant websites and resources, The Illinois Pesticide Review newsletter, an online registration system for clinics and an online ordering system for training manuals and workbooks.

These efforts serve to keep clientele up-to-date about pesticide safety issues outside of the PSEP clinics that they attend. Important information is communicated to the clientele when it is needed. In addition, many homeowners and other Illinois residents learn how to apply pesticides correctly and safely in and around their homes.

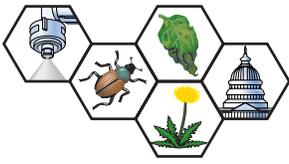


## Facebook

The PSEP Facebook page continues to grow in its use. The page currently has 584 “likes” and 584 followers. It provides yet another avenue for timely information to be delivered to pesticide users and other interested parties. This Facebook page frequently posts article links for the Illinois Pesticide Review, the Home, Yard, and Garden Pest Newsletter, and the Bulletin. It also serves as a platform for clients to have their pest control and licensing questions answered by PSEP Specialists.

Like us on Facebook

University of Illinois Extension Pesticide Safety Education Program



Illinois Pesticide Safety Education Program

## Homeowner Programs

Illinois homeowners and other residents are educated by Extension on proper pesticide use through the Master Gardener Program and various gardening, home safety, and other programs. The PSEP specialists wrote the Pesticide Safety and Weeds sections and revised the Plant Diseases and Insects sections of the current *Illinois Master Gardener Handbook*. They also developed several of the color slide presentations used to train Master Gardeners and deliver training sessions for beginning and advanced Master Gardeners.

*Pest Management for the Home Landscape* provides important pest management information on specific pests to Illinois residents. Included in this guide is a section on pesticide safety. Much of this pest guide was written by PSEP specialists.

An online training site for retailers who sell pesticides called, “Responsible Pest Management for Retailers” was developed by PSEP specialists and support trainers. The training consists of modules with quiz questions.

*Community Garden Pest Management Training Module*. This module is part of the University of Illinois Extension’s Community Garden Series. Michelle Wiesbrook created the content and did the voicing for this module which covers the basics of pest management including weeds, insects, and diseases as well as chemical control, reading the label, and licensing requirements.

*Making Pesticide Applications in School and Community Gardens*



## Hort Answers

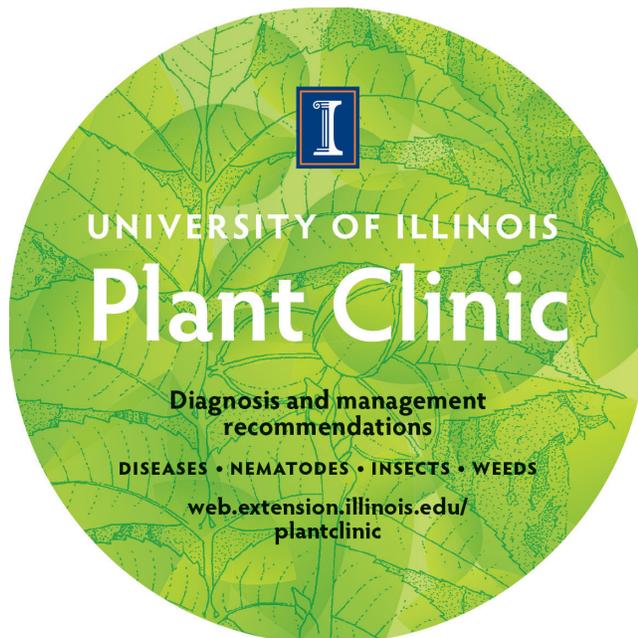
The Hort Answers website provides access to a wide variety of horticultural disease, insect pest, herbicide injury, and plant culture information. PSEP specialists continue to be involved in its content.

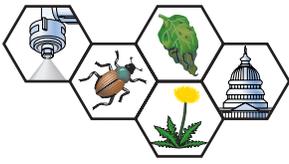
## AskHort

Many PSEP team members contributed to the development of AskHort, a computer-based answering system that allows regional Extension offices to ask horticulture questions, which are then funneled to specialists and Extension educators. Questions posted to the system typically result in a less than 24-hour turn-around for answers. PSEP team members continue to provide expertise for this resource.

## University of Illinois Plant Clinic

The University of Illinois Plant Clinic offers services in plant and insect identification, diagnosis of disease, insect, and weed problems and provides appropriate control recommendations. The success of the Plant Clinic relies on cooperation of many specialists at the University of Illinois. PSEP specialists are among those who contribute expertise to the Plant Clinic.





Illinois Pesticide Safety Education Program

- 
- 
- 
- 
- 
- 

# Professional Involvement by PSEP Specialists

## Professional Societies and Associations

- American Association of Pesticide Safety Educators (AAPSE)
- American Society of Agricultural and Biological Engineers (ASABE)
- Arbor Day Foundation
- Entomological Society of America (ESA)
- Illinois Agricultural Aviation Association (IAAA)
- Illinois Farm Bureau (IFB)
- Illinois Fertilizer and Chemical Association (IFCA)
- Illinois Turfgrass Foundation (ITF)
- National Agricultural Aviation Association (NAAA)
- National Agricultural Aviation Research & Education Foundation (NAAREF)
- Pre-State FIFRA Issues Research and Evaluation Group (Pre-SFIREG)
- North Central Weed Science Society (NCWSS)
- The Pesticide Stewardship Alliance (TPSA)
- Weed Science Society of America (WSSA)

## University Committees

- Crop Sciences Extension and Outreach Committee
- Crop Sciences Academic Professional Promotion Committee
- Extension Horticulture Development Team
- Master Gardener Coordinator Candidate Search Committee
- Purdue Pest Management Conference Planning Committee

## Other Committees

- American Association of Pesticide Safety Educators Professional Development Committee
- Illinois Interagency Committee on Pesticides
- Illinois Structural Pest Control Advisory Council
- Illinois Worker Protection Stakeholders Committee
- NAAA – Research and Technology Committee
- NAAA – Precision Application Committee
- NAAREF – Operation S.A.F.E. Committee
- NAAREF – PASS Program Development Committee
- USEPA Region 5 State and Federal Regulatory Committee

## Programs and Invited Talks Given by PSEP Specialists

- 4-H Illini Summer Academies, Urbana, IL
- American Public Works Association IL Roads Scholar Program, Effingham, IL
- Glyphosate and Risk Communication, iTurf Conference, Springfield, IL
- Glyphosate and Communicating Risk, University of Illinois Extension Horticulture Development Team In-service, Urbana, IL
- Illinois Arborist Association Annual Conference and Trade Show, Tinley Park, IL
- Illinois Association of Vocational Agriculture Teachers Horticulture Career Development Event, Urbana, IL
- Illinois Fertilizer and Chemical Association Annual Conference, Peoria, IL
- Illinois Pest Control Association Recertification Workshop, Itasca, IL
  - Workplace Safety and Personal Protective Equipment
  - Pesticide Handling, Mixing, and Measuring
  - Getting to Know You: Identifying and Understanding Insect Pests
- Mechanics of Aerial Spray Dispersions and Factors that can Impact Aerial Spray Distribution - California Agricultural Aircraft Association Field Days for California Department of Pesticide Regulation, Sacramento, CA and Hanford, CA



# Summary of Accomplishments

<u>Accomplishment</u>	<u>Date of Completion</u>
Online Private Applicator Training.....	All Season
Aerial Fly-In Clinics Conducted.....	All Season
Illinois Pesticide Review Newsletter Published (6 issues).....	Bi-monthly
Home, Yard, and Garden Pest Newsletter .....	17 Issue Per Year
State Agency Clinics Scheduled (2) .....	July 2018
Commercial PSEP Clinics Scheduled (22) .....	July 2018
Commercial Testing Only Sessions Scheduled (4).....	July 2018
Pesticide Dealer Manual Reprint .....	Sept. 2018
Aquatic Workbook Reprint .....	Sept. 2018
Private PSEP Clinic Schedule Creates & Published .....	Oct. 2018
General Standards Workbook Revision.....	Oct. 2018
Private Applicator Workbook Revision .....	Oct. 2018
Rights-of-Way Workbook Revision.....	Oct. 2018
Field Crop Workbook Revision .....	Nov. 2018
Bilingual General Standards Workbook Revision.....	Dec. 2018
Additional Field Crops Training Clinics Scheduled (4).....	Dec. 2018
Ornamental & Turf Workbook Revision .....	Jan. 2019
Mosquito Workbook Revision.....	Jan. 2019
Field Crop Manual Reprint .....	Jan. 2019
Field Crop Workbook Reprint.....	Jan. 2019
Vegetable Crops Manual NEW .....	Jan. 2019
Ornamental & Turf Workbook Reprint.....	Mar. 2019
Private PSEP Clinics Conducted (16).....	Mar. 2019
Commercial PSEP Clinics Conducted (28) .....	May 2019
2017-18 Annual Report Created & Published.....	May 2019

- 
- 
- 
- 
- 
-

**I**  
**ILLINOIS**  
Extension

**COLLEGE OF AGRICULTURAL, CONSUMER  
& ENVIRONMENTAL SCIENCES**

The development and publication of this document has been supported with funding from the Illinois Department of Agriculture.