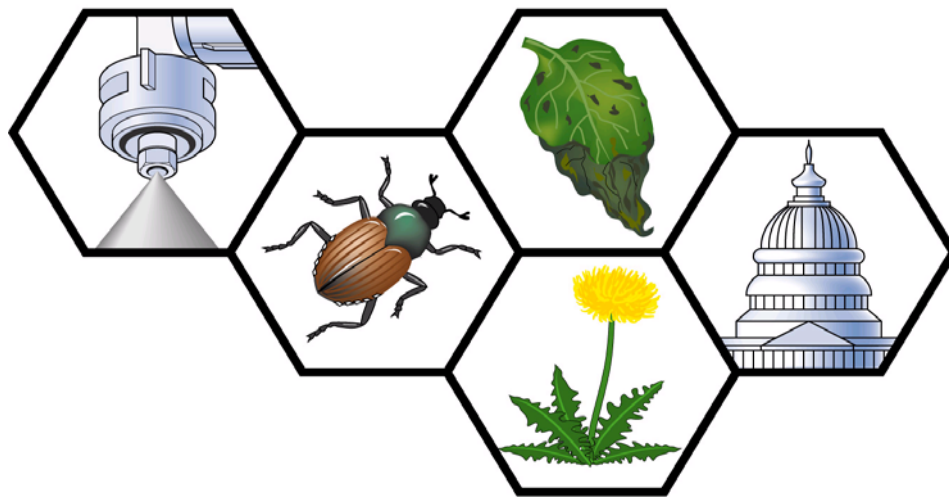
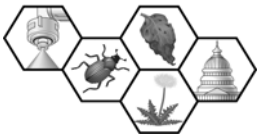


**University of Illinois
Extension**

**Pesticide Safety
Education Program**



**ANNUAL REPORT
2002-2003**



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Prepared by: Phil Nixon, Bruce Paulsrud, Patty Bingaman,
Michelle Wiesbrook, and Mark Mohr
October 2003 (Reflects activities from July 2002 through June 2003)

Introduction



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 public pesticide applicators and operators.

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 applicants to pass examinations required for obtaining a license or certification. This quality pesticide safety education is ultimately vital to Illinois residents in terms of public health protection and environmental stewardship.

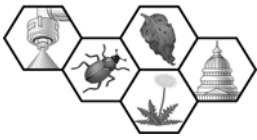
Support

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.

Program Benefit

Many homeowners and other Illinois residents learn how to apply pesticides correctly and safely in and around their homes. They also gain an appreciation of the efforts being made to use pesticides in a manner that reduces the impact to human health, wildlife, and the environment while maximizing the low-cost production of food and providing aesthetically pleasing landscapes and roadsides.



Program Goals and Mission

The goal of our program is to reach all users of pesticides in Illinois with educational information on the effective, economic, and environmentally sound use of pesticides.

Our mission is twofold:

1. To provide training through PSEP for private and commercial applicators in Illinois.
2. To provide pesticide education to a diverse audience in "other related" program areas such as worker protection, pesticide recordkeeping, water quality, endangered species, IPM, and food safety.

Pesticides are important tools in production agriculture, enabling producers to manage pests such as insects, weeds, and diseases. Pesticides are also important in helping maintain attractive and useful landscapes. Pesticides play an important role in public health in control of nuisance pests and disease vectors such as mosquitoes. Homeowners routinely use pesticides for pest control in and around the home. Extension Pesticide Safety Educators provide educational and training programs to address Health, the Environment, Pest Management, and Pesticide Safety. Here are some of the ways we do it!

HEALTH

- Understanding health effects from the misuse of pesticides
- Food safety
- Water quality issues
- Worker protection for agricultural pesticides
- Personal safety of applicators
- Vector control programs
- Pesticide application education
- Home use of pesticides



ENVIRONMENT

- Water quality
- Prevention of adverse effects to the ecology
- Endangered species
- Sustainable agriculture & IPM
- Calibration; application; and drift reduction
- Disposal of pesticides



PESTICIDE SAFETY

PEST MANAGEMENT

- Pest identification and damage assessment
- Integrated pest management
- Nonchemical controls
- Pesticide selection
- Pesticide timing
- Evaluation of control methods



- Understanding pesticide labels
- Selection of pesticides
- Understanding health effects of pesticides
- Proper application of pesticides
- Personal protection
- Proper storage and security



PSEP 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 (IDA) 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.



Communication

Key to the PSEP customer's satisfaction is the ability to communicate through fax, telephone, voice mail or U.S. mail. Our 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 IDA. There are currently 56 voice mail lines so that a busy signal does not occur. With the high volume of calls (12,500 per year), this system helps direct patrons to the phone service they need in a timely manner.

The Commercial and Private schedule, plus other pertinent clinic information is also available on the University of Illinois Pesticide Safety Education web site (www.pesticidesafety.uiuc.edu). Customers also find a listing of the PSEP publications including the most recent publication date on this site.

Customer Satisfaction

The PSEP office also sells educational materials. Customer response is very positive since they are able to register plus order desired materials in one telephone call. Mailing of requested educational materials is promised within 72 hours, however this is usually accomplished the same day. During the past year, 8,020 publications were sold to customers from the PSEP office. PSEP educational materials are also available at the commercial clinics where 1,125 publications were sold this past training season.

A detailed operational analysis of the PSEP office procedures was conducted last summer to insure that the optimum utilization of resources was being realized. Several on-line changes were initiated to the mirror databases, which proved to improve the delivery of service from the office. Also, updated software was installed in order to keep current and match the partners with whom we communicate.

Data entry within the PSEP offices utilizes two relational databases that work behind the scenes to automate the customer's registration and/or publication order. This allows one to enter information while talking to the client, calculate the total cost, and provide a confirmation number prior to ending the phone conversation. This past season, 7,351 transactions were conducted resulting in a training volume of 8,932. This professionalism adds confidence to the interaction between the PSEP office and our customers.



Commercial PSEP Clinics

Pesticide Training and Certification Clinics for commercial applicators and operators were conducted at 32 sites during the months of October through May. At these meetings, 8,932 commercial applicators and operators were trained (Table 1). In addition to General Standards training, category training was offered in the areas of Field Crops, Turf, Ornamentals, Rights-of-Way, Aquatics, Plant Management, Seed Treatment, Demonstration and Research, Mosquito, and Grain Facility.

Table 1. Clients Trained by Category during 2002-2003 Commercial PSEP Clinics

CLINIC DATE	LOCATION	GS	PM	S	T	O	GF	FC	D&R	MOS	ROW	AQ	TOTAL
Oct. 1 - 2	Collinsville	20								22			42
Oct. 7-8	Springfield	32								34			66
Oct. 9-10	LaSalle	31								34			65
Oct. 29-30	Mt. Vernon	98									69		167
Nov. 7-8	LaSalle	43									31		74
Nov. 14-15	Springfield	46									25		71
Dec. 10-11	Urbana	235		21			37	62					355
Dec. 12-13	Springfield	151		21			24	32		39			267
Dec. 16-17	Mt. Vernon	264		6			28	67	3				368
Dec. 18-9	Peoria	168						58	4				230
Jan. 2-3	Rockford	273			106	63				31	43		516
Jan. 6	Urbana	114							8				122
Jan. 9-10	Mt. Vernon	234			22	17				53	87		413
Jan. 13-14	Springfield	256			48	34					52		390
Jan. 15-16	Ottawa	231		31			28	93					383
Jan 22-23	Collinsville	259			61	41				43	70	12	486
Jan. 28	Peoria	69											69
Jan. 30-31	Jacksonville	190						68					258
Feb. 4-5	Urbana	280			90	49					63		482
Feb. 6-7	Peoria	242			93	36						19	390
Feb. 13-14	Matteson	271			85	39				62	42		499
Feb. 18-19	Willowbrook	240			104	41							385
Feb. 27	Dekalb	109											109
Mar. 4-5	Mundelein	213			86	49						21	369
Mar. 19-20	Moline	268			101	53					68		490
Mar. 26-27	Willowbrook	214			86	30					48	22	400
Apr. 1-2	Streamwood	238			97	42					47		424
Apr. 9	Crystal Lake	51											51
Apr. 10-11	Willowbrook	247			64	27				101	35		474
Apr. 16-17	Chicago	86	12		35	15					23		171
Apr. 22-23	Collinsville	122								48	32		202
May 6-7	Springfield	81								63			144
	TOTALS	5376	12	79	1078	536	117	380	15	530	735	74	8932

GS=General Standards; PM=Plant Management; S=Seed Treatment; T=Turfgrass; O=Ornamentals; GF=Grain Facility; FC=Field Crops; D&R=Demonstration & Research; MOS=Mosquito; ROW=Rights-of-Way; AQ=Aquatics.

General Standards training is conducted by using a computer projector controlled by a laptop computer. This setup utilizing PowerPoint software allows easy adjustments to the presentations. Computer-aided training is also used during most category training sessions.



Each attendee receives a workbook and pencil to aid note-taking and information retention. Bilingual General Standards workbooks in Spanish and English are provided for Hispanic clientele.

Special Clinics

Four special training clinics were held for Illinois Department of Transportation (IDOT) personnel during October. Snow plowing responsibilities commonly hamper their ability to attend regular training clinics during the winter. A general standards training clinic was held at the Illinois Fertilizer and Chemical Association Meeting on January 28.

Mosquito Clinics Added

In response to the influx of West Nile Virus, a mosquito-borne disease, into the state with resulting human and animal cases, three special mosquito training clinics were developed and delivered in the first half of October in LaSalle, Springfield, and Collinsville to facilitate additional certification needs. As in the previous year, three additional mosquito training clinics were offered during the regular commercial clinic schedule to meet increased needs for mosquito licensing. Attendance at mosquito clinics increased from several years' averages of approximately 110 per year to 530 this year.

Trainers

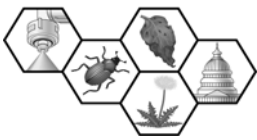
Champaign-Urbana extension personnel conducted much of the clinic training. Extension Educators throughout the state, particularly in northeastern Illinois, also assisted with the training (page 20). Pesticide Safety Education Specialists provided assistance to the training efforts of these Extension Educators by furnishing slides, notes, and other training materials. This afforded additional educational contacts for the participating Extension Educators and allowed the campus-based staff to pursue appropriate additional activities.

CCAs

While preparing for the pesticide applicator certification exam, 113 Certified Crop Advisers received a total of 379.5 Continuing Education Units in Integrated Pest Management after attending approved category training (Field Crops, Seed Treatment, and Grain Facility).

Evaluation

Teacher and training evaluations were distributed at several PSEP clinics. These evaluations addressed both general standards and category training. A mailed practice change survey was also done on a sample of those attending clinics in 2001-2002. The survey showed that 93% improved one or more pesticide safety activities as a result of the training.



Private PSEP Clinics

In contrast to Commercial PSEP clinics, Private PSEP clinics are Unit-based, meaning that Unit Leaders, Unit Educators and Center Educators are responsible for scheduling, hosting, and conducting all clinics. In addition, the Illinois Department of Agriculture (IDA) offers certification testing following all PSEP clinics. Thus, an efficient working relationship between Extension and IDA is critical to the scheduling process.

Based on IDA’s pre-season estimate, there were 9,604 Private Applicators in need of recertification during the 02/03 season; a 16% decrease from three years ago. About 84% of these applicators were served by the scheduled training and testing clinics. The remaining applicators either attended a test-only session or no longer required a license for various reasons. In response to IDA’s county-specific recertification estimates, Unit Leaders, Educators, and IDA inspectors did an excellent job of scheduling an appropriate number of clinics. As shown in Table 2, there were 122 training and testing clinics across our state which has 102 counties.

Table 2. Private PSEP Clinics for 2002/2003

Clinics:	Clinics	Total Clients	Clients per clinic		
			Min.	Median	Max.
Training and testing	120*	8,038	15	66	150
Grain Fumigation training and testing	2	58	10	29	48
Totals	122	8,096			

* The Latitude Bridge distance conferencing system was used at 3 clinics

Other Clinic Statistics

Private PSEP clinics were conducted by 39 trainers, with the median number of clinics per trainer being 3, while the maximum was 18. Most often (53% of the time), training was conducted by two trainers per clinic, while 35%, 9%, 2%, and 1% of the time, training was conducted by 1, 3, 4, and 5 trainers, respectively. Training typically lasted about 3 hours, while there were a few cases (4% of the clinics) where training was less than 2.5 hours. The Private PSEP workbook was used by the audience at 91% of the clinics. However, only 13% of the clinic reports indicate the workbook being used by more than 50% of the audience. Digital presentations (PowerPoint) were used at 91% of the clinics, compared to 74% and 61% the previous two seasons.

The use of clinic pre-registration increased this year, with 81% of the training and testing clinics reporting its use. Clients were charged a fee at 33% of the training and testing clinics, and fees ranged from \$5 to \$10 per person.

Program funding last season allowed us to continue to reimburse part of the cost of renting larger facilities for Private PSEP clinics. As a result of this reimbursement program, \$2,170 were used to help fund 13 clinics. In addition, the Trainer Reimbursement Program was continued in order to lessen the financial burden (via partial mileage reimbursement) for trainers who necessarily conduct an unusually high number of clinics. As a result of this reimbursement program, \$1,679 were used to assist 6 trainers.



Keeping Current

We work with the Private PSEP trainers throughout the year using email, the Illinois Pesticide Review Newsletter, and mailings to keep them aware of new information concerning pesticide regulations and training. Pertinent information from USEPA and other sources is forwarded electronically and by other means. In addition, an internal website is used to aid Unit Leaders and Educators in scheduling Private PSEP clinics and answering common PSEP program questions. This site is also used to distribute updated PowerPoint slides and slide notes.

On November 1st, Pesticide Safety Educators from across the state gathered in Springfield to attend the Pesticide Safety Education In-service Conference. This tri-annual event provides a valuable opportunity for the group to focus solely on Pesticide Safety Education issues. In addition to distributing new training materials, nine relevant presentations were given by Specialists, Educators, and IDA representatives.

Evaluation

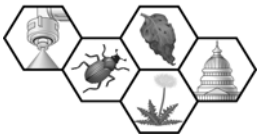
Evaluation forms were handed out at 20 private PSEP clinics with 1,104 trainees (77% response rate) submitting completed evaluations. Questions were asked regarding previous clinic attendance, use and usefulness of the training manual and workbook, and teaching quality and content of each topic. In addition, as a measure of training impact, trainees were asked to respond to six practice change questions. The results from this evaluation were favorable and will be combined and published at a later date after completion of a follow-up survey.

Operation Safe Fly-ins



Mark Mohr, with the assistance of Sean Evans, conducted “Operation Safe” fly-in workshops with the Illinois Agricultural Aviation Association in Lincoln, IL in April and Baraboo, WI in June. Thirteen agricultural-aviators attended and had their airplane’s spray pattern tested for application uniformity under several configurations. This represents a significant portion of

Illinois aerial applicators. Agricultural airplanes can apply to 600-1000 acres per hour, and many tens-of-thousands of acres seasonally, including grain, horticultural crops, and forests. The large acreage impacted by these applicators continues to make this an important pesticide safety education program.



Worker Protection Standard



Bruce Paulsrud and Michelle Wiesbrook lead Extension's Worker Protection Standard (WPS) efforts. The WPS program was crafted in 1992 and fully implemented in 1995. Beginning in June 2000, stakeholders began meeting to discuss the status of the WPS, a program aimed at reducing the risk of agricultural pesticide poisonings and injuries among farm, forestry, nursery, and greenhouse workers. The three-year reassessment process began with EPA asking stakeholders to discuss their key concerns about the WPS

program and follow-up meetings focused on how, if at all, the WPS should be changed. Michelle Wiesbrook participated in these national workshops and was invited to be part of a special workgroup that was given the charge of making recommendations to EPA on general training issues. These recommendations were presented to EPA as well as numerous stakeholders at the final reassessment meeting in the spring. EPA will consider the recommendations and expects to announce any changes to the WPS in the fall of 2004.

In addition to the WPS materials available on the Pesticide Safety Education website and traditional newsletter articles, we informed employers, producers, IDA inspectors, and educators about the WPS in the following ways:

PSEP Training Clinics

Since PSEP training clinics meet the WPS training requirements, agricultural employers have the option of sending their agricultural workers and handlers to these clinics for WPS training. Each PSEP trainer is certified to distribute worker and handler WPS Training Verification Cards to clientele. To receive a card, the client simply needs to request one following training. These cards are optional, and the client does not need to take an exam to receive one. For this reporting period, nine (2 Worker, 7 Handler) WPS cards were distributed by University of Illinois staff.



WPS Sessions

In response to renewed interest in WPS compliance, Michelle Wiesbrook and Bruce Paulsrud conducted four WPS-specific sessions (two refresher and two Train-the-Trainer) upon request this spring for several seed-corn companies. These sessions were well attended (111 persons) and attendees appreciated the updated information as well as reminders of WPS basics.

Pesticide Security

A poster developed by the PSEP specialists depicting eleven action items to enhance pesticide storage security was displayed at commercial PSEP clinics as well as various field days. Complimentary posters were provided to the Extension Educators for use at the Private PSEP Clinics and various other programs. All 31 poster requests were fulfilled.



Certification Examinations

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, we assisted IDA in reviewing eight banks of exam questions that were used to create new tests for the following areas: Private, General Standards, Right-of-Way, Plant Management, Forest, Dealer, and Sewer Root.

Homeowner Programs

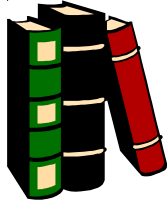
Illinois homeowners and other residents are educated by Extension on proper pesticide use through the Master Gardener Program, Expanded Food and Nutrition Education Program (EFNEP), and various gardening, home safety, and other programs. The PSEP specialists developed the pesticide safety section of the Illinois Master Gardener Handbook and the color slide presentations used to train Master Gardeners. PSEP specialists also deliver training sessions for beginning and advanced Master Gardeners. The *Home, Yard, and Garden Pest Guide* 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.



PSEP specialists helped develop a new pesticide safety publication for homeowners entitled "Integrated Pest Management for the Home Garden." This is a small, laminated flip-chart intended to be used as a reference in the garage or utility shed. It addresses the principles of IPM in a practical manner, and practical tips for pesticide safety covering formulations, types of pesticide activity, personal protective equipment, spill mitigation, application operation and maintenance, homeowner equipment calibration, proper storage and disposal, and how to read and understand pesticide labels.



Educational Materials



University of Illinois PSEP publishes eighteen manuals that address most areas of pesticide certification in Illinois. Nine workbooks are produced to cover the eleven 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 actually attend PSEP clinics.

Many of the Private PSEP teaching materials were revised. The Private Applicator Slide Set and Slide Notes were reviewed, with minor revisions made throughout. The Laws and Regulations slide set module was completely revised. All trainers received a revised Trainer's Workbook, Private PAT Trainer's Source CD (contains PowerPoint presentations), Slide Notes pages, and revised 2x2 slides.

Two new self-study CD-ROMs for pesticide applicators were produced. The Private Applicator Self-Study CD was developed to prepare Illinois producers for the Private Pesticide Applicator certification exam. The Stored Grain Pest Management Self-Study CD was developed to serve two grain storage audiences: private applicators needing certification in the Grain Fumigation category, and commercial not-for-hire applicators needing certification in the Grain Facility category. The CDs contain movies with narration, photos and text. They are easy to install and use on a personal computer and provide a convenient way for producers and grain handlers to learn at their own pace, at home or at the office.

Several manuals and workbooks were developed or revised. New manuals for Aerial General Standards, and Fruit and Vegetable were printed. New manuals in Forestry and Mosquito, as well as a revised General Standards Manual are written and are in the process of final design and printing. Workbooks for Plant Management, Grain Facility, and Seed Treatment were revised.

"Reducing Pesticide Drift: Specialty Crops and Conventional Crops As Good Neighbors" was prepared and will be distributed to Private and Field Crop Applicators. Copies have already been distributed to IL Specialty Growers (500 copies) and IL Farm Bureau (1,000 copies), who funded its development and distribution.

The Illinois Agricultural Pest Management Handbook and Illinois Commercial Landscape & Turf Pest Management Handbook were revised and printed. Both are also available as searchable CD-ROMs. These handbooks provide important specific information on pest management for Private and Commercial Applicators.

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. At least 54 newspaper and magazine articles were published as the result of news interviews or news releases produced by PSEP specialists. Fifteen radio programs spanning almost four hours of air time were used to promote proper pesticide use. Information from PSEP specialists was featured in 9 television programs.

Illinois Pesticide Review

Six issues of *The Illinois Pesticide Review* newsletter were published this year. This bimonthly newsletter is written by PSEP specialists in Illinois 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 University of Illinois pesticide-related activities. The newsletter is available electronically in both HTML and PDF format on the Pesticide Safety Education website. The automatic e-mail notification system, created to immediately notify Illinois Pesticide Review readers when new issues are posted to our website, is still successful with just about 250 readers registered.

World Wide Web

The Pesticide Safety Education internet web site (www.pesticidesafety.uiuc.edu) continues to provide up-to-date information. Visitors will find the Illinois Pesticide Review newsletter, information about Commercial and Private PSEP Clinics, and a host of valuable links to other pesticide-related sites. An addition this year to this site is the Virtual Spray Table where users can see the spray pattern and drift that results from using various nozzles with variable pressures under different wind speed conditions.

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.

Program Benefit

Our PSEP programs have a value-added approach. Participants come to our training not only because they need information to pass the licensing examination, but also to obtain additional information that is important in terms of public health protection, environmental stewardship, and plant protection.



Other Programs

Off-Season Clientele Interaction

The PSEP team is integral to communicating pest identification, scouting, and recommendations to commercial pesticide applicators in Illinois. They annually answer large numbers of individual weed, disease, and insect pest queries by telephone, mail, e-mail, the Distance Diagnostic System, and through the Plant Clinic. Phil Nixon coordinates production of the urban pest management handbooks and *Home, Yard, and Garden Pest Newsletter* to which the other PAT specialists routinely contribute. Articles are also written for the *Pest Management and Crop Development Bulletin*. The PSEP specialists are authors of several chapters in the *Illinois Agricultural Pest Management Handbook*, *Illinois Commercial Landscape and Turfgrass Pest Management Handbook*, and *Home, Yard, and Garden Pest Guide*.

Workshops, Shows, and Meeting Participation by PSEP Specialists

Aquatic Weed In-service, Springfield, IL
Entomological Society of America Annual Meeting, Ft. Lauderdale, FL
Gypsy Moth Management Workshop, Urbana, IL
Illinois Dept. of Agriculture Field Inspector In-service, Peoria, IL
Illinois Dept. of Public Health Training Seminar, Champaign, IL
National Integrated Pest Management Symposium, Indianapolis, IN
National Pesticide Stewardship Alliance Conference, Seattle, WA
North-Central Turf Expo, St. Charles, IL
North Central Weed Science Society Annual Meeting, St. Louis, MO
Perennial Plant Association's Annual Symposium, Chicago, IL
Purdue Pest Control Conference, W. Lafayette, IN
Region 5 USEPA Pre-SFIREG Committee, Chicago, IL
Southern Illinois Grounds Maintenance School, Collinsville, IL
University of Illinois Agronomy Day, Urbana, IL
University of Illinois Annual Extension Conference, Urbana, IL
University of Illinois College of ACES Seminar, Making and Marketing of You, Urbana, IL
University of Illinois Course, International Horticultural Products, Urbana, IL
University of Illinois Crop Protection Technology Conference, Urbana, IL
University of Illinois Extension Horticulture Team In-service, Atlanta, GA
University of Illinois Turf and Ornamentals Field Day, Urbana, IL

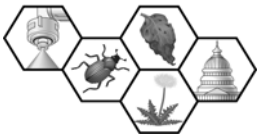
Program Benefit

Nationally, these programs have shown to maintain pesticides that would otherwise be lost to producers. Our educational programs help regulatory programs with voluntary compliance through better understanding.

Major Invited Talks Given by PSEP Specialists

- Elementary School Class Presentation, *Insects and their Biology*, Champaign, Lincoln, IL
- Golf Course Workers Meeting, *Emerald Ash Borer and other Ornamentals Insects of Golf Courses*, Lasalle, IL
- Illinois Department of Agriculture Plant & Pesticide Inspector In-Service Tour, *Diagnosis of Nursery Insects and Diseases*, Peoria, IL
- Illinois Department of Agriculture Plant & Pesticide Inspector In-Service, *Pesticide Education and Regulation: Illinois System & Data*, Springfield, IL
- Illinois Housing Authority Annual Conference, *Weed Control Basics and Pesticide Applicator Licensing*, Decatur, IL
- Mid-Am Horticultural Trade Show, *Nursery Insect Control*, Chicago, IL
- North Central Turfgrass Expo, *West Nile Virus*, St. Charles, IL
- On-site Wastewater Treatment Conference, *Test Taking Tips*, Peoria, IL
- Southern Illinois Grounds Maintenance School, *Pesticides and their Labels*, (bilingual presentation), *West Nile Virus and other Arthropod-spread Diseases*, Collinsville, IL
- University of Illinois Controlling Turfgrass Insects Course, Insect Pest Lectures and Laboratories, Urbana, IL
- University of Illinois Horticulture Club, presentation “Pesticide Applicator Training”, Urbana, IL
- University of Illinois Horticulture Team, *West Nile Virus and Mosquito Control*, Peoria, IL
- University of Illinois Introduction to Horticulture Course, *Integrated Pest Management of Insects*, Champaign, IL
- University of Illinois Master Gardener Conference, *Weed ID Basics: Taking the Mystery Out of Mystery Weeds*, Rockford, IL
- University of Illinois Master Gardener Advanced Training, *Weed Identification*, Rockford, Sycamore, and Decatur, IL
- University of Illinois Master Gardener Training, *IPM and Pesticide Safety*, Springfield, IL
- University of Illinois Master Gardener Training, *Insect Pest Management*, Danville, Decatur, Galesburg, Quincy, IL
- University of Illinois Turfgrass and Ornamentals Field Day, *Disease Diagnosis & Management of Landscape Trees Workshop, Using Ronstar Preemergence Herbicide on Field-Grown Ornamental Grasses, and Insects of Turf and Woody Ornamentals Update*, Urbana, IL
- University of Illinois Turfgrass and Ornamentals Field Day, Urbana, IL
- Urban Extension Conference: Meeting the Challenge of A Changing America, *Helping Hispanics Become More Horticulturally Savvy*, Chicago, IL
- USEPA Region 5 Pre-SFIREG meeting, *Treated Seed Disposal*, Chicago, IL





Pesticide Safety Education Specialists



Patty Bingaman, PSEP Program Facilitator
Extension Assistant
Department of Natural Resources and Environmental Sciences

Coordinates commercial PSEP clinics. Conducts commercial clinic preregistration and PSEP publication distribution. Maintains financial accounts, develops new data bases, and prepares special reports and brochures. Co-coordinates acquisition, reprinting, and marketing of PSEP study material.

http://www.nres.uiuc.edu/faculty/directory/bingaman_pa.html



Mark Mohr, Communications Coordinator
Extension Specialist in Application Equipment
Department of Agricultural Engineering

Provides subject matter expertise and training in pesticide application equipment and calibration. Conducts special aerial calibration clinics and pesticide drift reduction programs. Coordinates the development of electronic training materials. Manages the PSEP website. Maintains and coordinates storage of PSEP supplies and equipment.

<http://www.age.uiuc.edu/acadprof/mfmohr>



Phil Nixon, Reporting Coordinator
Extension Specialist in Entomology
Department of Natural Resources and Environmental Sciences

Provides subject matter expertise and training in entomology. Prepares grant proposals, state and federal reports, and other reports and summaries. Co-coordinates PSEP study material activities. Structural pest control liason with the Illinois Department of Public Health. Coordinates Commercial PSEP support trainers.

http://www.nres.uiuc.edu/faculty/directory/nixon_pl.html



Pesticide Safety Education Specialists



Bruce Paulsrud, Private PSEP Coordinator
Extension Specialist in Plant Pathology
Department of Crop Sciences

Provides subject matter expertise and training in plant pathology. Coordinates the private PSEP program. Has primary responsibility for producing and updating private applicator training materials. Facilitates the flow of information from USEPA and IDA. Co-coordinates Illinois' Worker Protection Standard program.

<http://www.crops.uiuc.edu/bios/paulsrud.html>



Michelle Wiesbrook, Newsletter Coordinator
Extension Specialist in Horticulture
Department of Natural Resources and Environmental Sciences

Provides subject matter expertise and training in horticultural weed science. Collects and organizes newsletter information and ensures its timely publication. Facilitates the establishment and collection of supportive data related to weed science. Co-coordinates Illinois' Worker Protection Standard Program.

http://www.nres.uiuc.edu/faculty/directory/wiesbrook_ml.html



Jean Miles, PSEP Office Assistant
Department of Natural Resources and Environmental Sciences

Helps handle telephone queries and registration, collect registration and publication data, process mailorders for educational materials, and assist in other operational functions within the PSEP office.



Illinois Pesticide Safety Education Program



Support Trainers

COMMERCIAL PSEP TRAINERS

Campus Faculty: Raymond Cloyd, Aaron Hager, Linda Mason (Purdue University), Tom Voigt

Crop Systems Educators: Dale Baird, Robert Bellm, Bill Brink, Pete Fandel, Ellen Phillips

Horticulture Educators: Susan Grupp, Barb Larson, David Robson, Jim Schuster, Sharon Yiesla

Integrated Pest Management Educators: Dave Feltes, Mark Hoard

Natural Resources Management Educators: John Church, Duane Friend

PRIVATE PSEP TRAINERS

Animal Systems Educators: Wes Winter

Crop Systems Educators: Dale Baird, Robert Bellm, Dennis Bowman, Bill Brink, Greg Clark, Aaron Dufelmeier, Dennis Epplin, Sean Evans, Pete Fandel, Doug Gucker, Omar Koester, Gary Letterly, Bill Lindenmier, Matt Montgomery, Jim Morrison, Ellen Philips, Mike Roegge, Marion Shier, Keith Worner

Horticulture Educators: Kelli Bassett, Maurice Ogutu, Greg Stack, Elizabeth Wahle

Integrated Pest Management Educators: Suzanne Bissonnette, Gary Bretthauer, Dave Feltes, Russ Higgins, Mark Hoard

Natural Resources Management Educators: Kyle Cecil, Duane Friend, Tim Laatsch, Mike Plumer, David Shiley

Unit Leaders: Rhonda Ferree, Don Frederick, John Fulton

Program Benefit

The benefits of our pesticide safety educational programs far exceed the costs. We improve the quality of pesticide applicators in Illinois by increasing their level of pesticide knowledge and safe use. In evaluations of private and commercial applicators conducted in previous years, participants reported significant change in the way they handled pesticides. After training, applicators were more likely to refer to pesticide labels, use safety equipment, and calibrate application equipment.

Steering Committee

The PSEP Steering Committee represents each of the three 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.



Loren Bode
Chair of the PSEP Steering Committee
Head, Department of Agricultural and Biological Engineering
Dept. of Agricultural and Biological Engineering Representative
<http://www.age.uiuc.edu/faculty/leb/leb.html>



Dan Nelson
Regional Director, Southern Region
University of Illinois Extension Off-campus Representative
<http://web.extension.uiuc.edu/cie/offices/index-t.cfm>



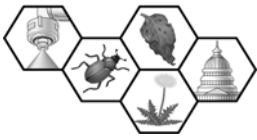
Kevin Steffey
Professor of Agricultural Entomology
Department of Crop Sciences Representative
<http://cropsci.uiuc.edu/faculty/steffey/>



John Van Es
Assistant Dean of Agriculture and Natural Resources
Office of Extension and Outreach Representative
<http://www.extension.uiuc.edu/oeo/about.html>



Tom Voigt
Assistant Professor of Turfgrass Science
Department of Natural Resources and Environmental Sciences Rep.
http://www.nres.uiuc.edu/faculty/directory/voigt_t.html



Appendix A



Professional Improvement by PSEP Specialists

Professional Society Involvement

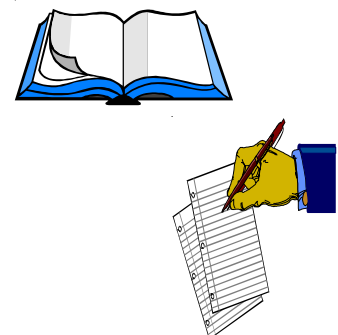
American Association of Pesticide Safety Educators (AAPSE)
AAPSE Non-English Language Needs in Pesticide Education Committee
American Phytopathological Society
American Society of Agricultural Engineers
Bonsai Society of Central Illinois
Entomological Society of America (ESA)
ESA Journal of Medical Entomology Editorial Committee
Illinois Extension Agricultural Association
Illinois Farm Bureau
Illinois Network for Agricultural Safety and Health
Illinois Turfgrass Foundation
Michigan Entomological Society
North Central American Phytopathological Society
North Central Weed Science Society
USEPA Region 5 State and Federal Regulatory Committee
Weed Science Society of America

University Committee Involvement

Crop Protection Technology Conference Committee
Crop Systems Development Team
Extension Spanish Language Programming Task Force
Crop Sciences Extension & Outreach Committee
Grounds Advisory Committee
Horticulture Development Team
IPM Development Team
NRES Academic Professional Advisory Committee
NRES Extension & Outreach Committee

Other Committees

Illinois Interagency Committee on Pesticides
Illinois Structural Pest Control Advisory Council
Illinois Worker Protection Stakeholders Committee
Illinois-Indiana IPM in Schools Education Committee
Purdue Pest Control Conference Planning Committee
USEPA Consumer Labeling Initiative Committee
USEPA Pesticide Applicator Test Validation Project
USEPA Urban Programs Committee



Appendix B

Summary of Accomplishments

<u>Accomplishment</u>	<u>Date of Completion</u>
Illinois Pesticide Review Newsletter	6 Issues
Commercial PSEP Clinics (32)	All Season
WPS Cards Issued (9)	All Season
Private PSEP Clinics (122)	All Season
WPS Training Sessions (4)	All Season
IDA Inspector Inservice on WPS	July 2002
IPM for the Home Garden Flip Chart	July 2002
Pesticide Security Poster	August 2002
Commercial PSEP Clinic Schedule Printed	September 2002
PSEP Office Database and Program Upgrades	September 2002
Aerial General Standards Manual	September 2002
General Standards PowerPoint Presentation Revision	September 2002
Rights-of-Way PowerPoint Presentation Revision	September 2002
PSEP 2001-2002 Annual Report	October 2002
Private Applicator Training CD	October 2002
Stored Grain Pest Management CD	October 2002
Forestry Manual Pre-print Draft	October 2002
Private PSEP Training Slides and Notes Revision	October 2002
Private PSEP Trainer In-Service	November 2002
Grain Facility & Seed Treatment Workbook Revision	November 2002
Ill. Comm. Landscape & Turf. Pest Man. Handbook Revision	November 2002
Field Crops Slide Set Revision	December 2002
Ornamental and Turf Workbook Revision	December 2002
Fruit and Vegetable Manual	December 2002
Private PSEP Training via Distance Education	December 2002
Ill. Agr. Pest Management Handbook Revision	January 2003
Virtual Spray Table Created for Training & Web Site	January 2003
Follow-up Evaluation of Commercial PSEP Clinic Attendees	March 2003
Reducing Pesticide Drift ... As Good Neighbors Booklet	March 2003
Aerial Fly-In Clinic	April 2003
Plant Management Workbook Revision	April 2003
Aerial Fly-In Clinic	June 2003





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EXTENSION

College of Agricultural, Consumer and Environmental Sciences

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