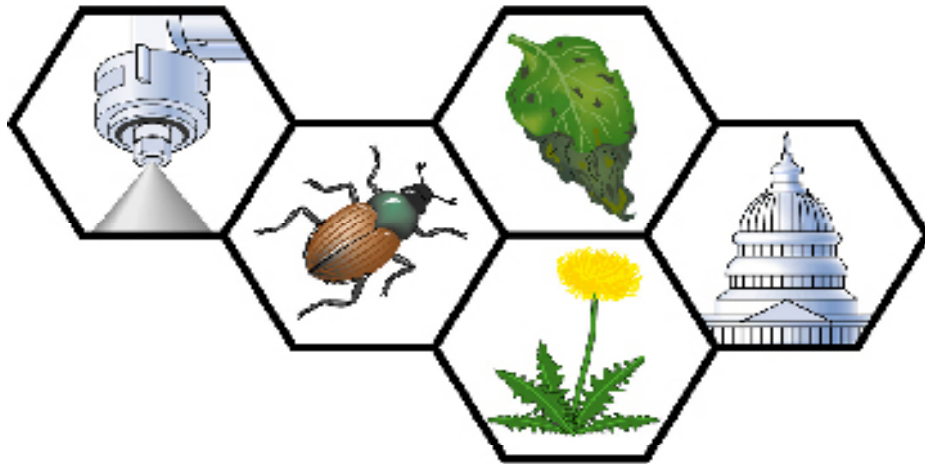


**University of Illinois
Extension**

**Pesticide Safety
Education Program**



**ANNUAL REPORT
2004-2005**



Illinois Pesticide Safety Education Program

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Prepared by: Phil Nixon, Bruce Paulsrud, Patty Bingaman,
Michelle Wiesbrook, and Scott Bretthauer
January 2006 (Reflects activities from July 2004 through June 2005)

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 public 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 applicants 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.

PSEP Specialists were awarded the 2005 University of Illinois College of ACES Team Award for Excellence. This prestigious award was presented in recognition of the sustained high quality education and service provided by this team for many years.



Illinois Pesticide Safety Education Program



University of Illinois Pesticide Safety Education Program



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. It is important that these pesticide users be educated in the effective, economic, and environmentally sound use of pesticides.

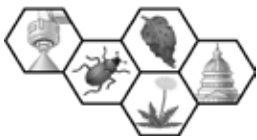
The University of Illinois Pesticide Safety Education Program (PSEP) provides training for private and commercial applicators in Illinois. It also provides pesticide education in other related program areas such as homeowner pesticide safety, worker protection, pesticide recordkeeping, water quality, endangered species, IPM, and food safety.

Highlights and Impacts of July 2004 through June 2005:

- PSEP specialists were awarded the University of Illinois College of ACES Team Award for Excellence. This prestigious award was presented in recognition of the sustained high quality education provided by this team for many years.
- A “drift garden” was created to provide a hands-on training resource for nursery inspectors, Extension Educators, Master Gardeners, students, and other interested persons.
- Two Operation SAFE fly-ins ensured that 18 agricultural aircraft from Illinois had the right spray pattern and droplet spectrum for making safe and accurate applications.
- A total of 2,341 people were taught about safe and effective pesticide use at 58 separate Private PSEP clinics during the 2004-2005 season. High quality instruction was provided by 27 Unit and Center based Educators. Practice change evaluations showed that 80% of trained Private Applicators improved their pesticide practices, particularly reducing pesticide exposure to themselves and storing pesticides securely.

- A total of 7,505 Commercial Applicators and Operators received pesticide certification training. Practice change evaluations showed that 93% improved one or more pesticide safety activities as a result of the training.
- Hispanic clientele benefitted from a General Standards Manual written in Spanish, along with a Bilingual Spanish/English General Standards Workbook. Bilingual General Standards Training was also provided; 100% of the trainees found it helpful and would recommend it to their co-workers.
- Training materials developed during the year included two revised manuals and six revised workbooks. Eight training presentations were revised. PSEP Specialists contributed to the revision of the *Illinois Agricultural Pest Management Handbook* and the *Illinois Commercial Landscape and Turfgrass Pest Management Handbook*.
- The PSEP Office efficiently registered 6,218 attendees via mail and 11,073 incoming calls. Orders for 6,601 manuals and workbooks were typically filled the same day they were placed. Supplies of 32 training materials utilized in the PSEP program were maintained along with financial records.
- Homeowners and other residents were educated through Master Gardener and other training and publications including the *Home, Yard, and Garden Pest Guide*.
- Mass media efforts included 64 newspaper and magazine articles, 18 radio programs, and 11 television programs. Six issues of *The Illinois Pesticide Review* newsletter were published, along with articles in the Home, Yard, and Garden Pest Newsletter, the Master Gardener newsletter *Imagine*, and the *Pest Management and Crop Development Bulletin*. Other news and information was posted to the Pesticide Safety Education website (www.pesticidesafety.uiuc.edu).





Private 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 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 2,484 Private Applicators in need of recertification during the 04/05 season; a 6% increase from three years ago. About 93% 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 58 training and testing clinics across our state which has 102 counties.

Table 2. Private PSEP Clinics for 2004/2005

Clinics:	Clinics	Total Clients	Clients per clinic		
			Min.	Median	Max.
Training and testing	56	2,306	6	37	95
Grain Fumigation training and testing	2	35	10	17	25
Totals	58	2,341			

Other Clinic Statistics

Private PSEP clinics were conducted by 27 trainers, with the median number of clinics per trainer being 2, while the maximum was 9. Most often (50% of the time), training was conducted by one trainer per clinic, while 43% and 7% of the time, training was conducted by 2 and 3 trainers, respectively. Training typically lasted about 3 hours. The Private PSEP workbook was used by the audience at 77% of the clinics. However, only 27% of the clinic reports indicate the workbook being used by more than 50% of the audience. Digital presentations (PowerPoint) were used at 100% of the clinics, compared to 98% and 91% the previous two seasons.

The use of clinic pre-registration was the same as last year, with 77% of the training and testing clinics reporting its use. Clients were charged a fee at 45% of the training and testing clinics. The fee ranged from \$3 to \$10 per person, with \$10 being the amount charged at 56% of those clinics where a fee was charged.

The results of a cost analysis survey based on the 2003-2004 Private PSEP training season were summarized. The purpose of the survey was to determine the overall cost of Private PSEP to University of Illinois Extension. There were a total of 109 Private PSEP clinics offered in Illinois during the 2003-2004 training season. A survey was sent out to all unit leaders who hosted a clinic asking them to document all associated costs, including the time they, other unit staff, and educators worked towards offering the clinic. The results were used to develop a more comprehensive PSEP business plan and offer guidance towards improving Private PSEP.



Special Private PSEP Clinic

A special Private PSEP clinic was developed for fruit and vegetable growers in Illinois. The clinic, offered in December, 2004 in Matteson Illinois, was developed to provide more relevant information for those private applicators in Illinois who produce commodities other than typical Illinois crops, such as corn and soybeans. While the basic training and testing was the same as at a normal Private PSEP clinic, specific examples were changed to represent common pests and pesticides encountered while growing fruits and vegetables. It was felt this would increase the value of the training to attendees who would be interested in this type of information.

Keeping Current

We communicate with the Private PSEP trainers throughout the year via 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 PSEP website is used to aid Unit Leaders and Educators in scheduling Private PSEP clinics and in answering common PSEP-related questions. This site is also used to distribute updated PowerPoint slides and slide notes.

Evaluation

A Private PSEP practice change evaluation form was developed and sent to a sample of those applicators who attended our clinics in the 2002-2003 training season. Of the respondents, 81% had been certified for six or more years and 85% had attended a Private Applicator Training clinic within the last two years. When asked, "Why did you attend the training clinic?" 64% of the respondents said "To stay current regarding pesticide regulations", 49% said they "needed help preparing for the exam," and 37% said they were "Interested in learning proper pesticide application and safety techniques". The 46 specific practice questions were grouped into seven categories; in 6 of the 7 categories, more than 50% of respondents indicated that they made improvements as a result of the training provided by our team. The greatest gains were in the "Reducing pesticide exposure to yourself" and "Storing and protecting pesticides" categories. Overall, 80% of the respondents reported improvement in at least one of the 46 specific practices listed.



Commercial PSEP Clinics

Pesticide Training and Certification Clinics for commercial applicators and operators were conducted at 28 sites during the months of November through May. At these meetings, 7,505 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.

Training is conducted by using a computer projector controlled by a laptop computer. This setup utilizing PowerPoint software allows easy audience and other adaptations to the presentations.

Table 1. Clients Trained by Category during 2004-2005 Commercial PSEP Clinics

Clinic Dates	Location	GS	T	ROW	O	FC	MOS	S	AQ	GF	D&R	PM	TOTAL
Nov 3-4	Marion	34		34									68
Dec 7- 8	Peoria	130				34					10		174
Dec 9-10	Champaign	178				64		40		29			311
Dec 13-14	Springfield	171				42		28		20			261
Dec 16 -17	Mt. Vernon	209				50		2		16	3		280
Jan. 7	Urbana	72									12		84
Jan 11-12	Willowbrook	198	60		34							9	301
Jan 13-14	Rockford	276	112	53	69		18						528
Jan 20-21	Collinsville	279	82	71	38				19				489
Jan 25	Peoria	48											48
Jan 27-28	Mt. Vernon	241	41	79	19		26						406
Feb 1-2	Utica	194				78		34		22			328
Feb 3-4	Urbana	252	79	69	47								447
Feb 9-10	Springfield	270	63	61	43								437
Feb 15-16	Quincy	69				22							91
Feb 24-25	Peoria	195	84		39				23				341
Feb 28-Mar 1	Matteson	245	97	31	46		37						456
Mar 8-9	Skokie	165	81		51				17				314
Mar 15-16	Moline	227	67	70	27								391
Mar 23-24	Willowbrook	242	92	53	38				33				458
Mar. 29	Dekalb	86											86
Mar 30-31	Streamwood	190	61	50	38								339
April 5-6	Skokie	86	26	24	19							1	156
April 6-7	Oak Brook	40											40
April 12	Crystal Lake	42											42
April 13-14	Willowbrook	216	61	52	32		38						399
April 26-27	Collinsville	83		35			15						133
May 3-4	Springfield	70					27						97
		4,508	1,006	682	540	290	161	104	92	87	25	10	7,505

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.

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

A special training clinics was 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 27. Two bilingual Spanish-English General Standards training clinics were held, one each in November and April.

Trainers

The PSEP Specialists conducted much of the clinic training. Extension Educators and other Extension Specialists throughout the state also assisted with the training (page 20). PSEP 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.

Continuing Education Units

While preparing for the pesticide applicator certification exam, 84 Certified Crop Advisers received a total of 272 Continuing Education Units in Integrated Pest Management after attending approved category training (Field Crops, Seed Treatment, and Grain Facility). Our category training was also approved for continuing education credits with the Illinois Arborists Association (Ornamentals) and the Golf Course Superintendents Association of America (Turf).

Evaluation

Teacher and training evaluations were distributed at several PSEP clinics. These evaluations addressed both general standards and category training. Practice change surveys show that 93% improved one or more pesticide safety activities as a result of the training.

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.



Bilingual Training

Hipanic 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.

For several years, we have had a Spanish General Pesticide Safety Manual, along with a Bilingual Spanish/English General Standards Workbook. The workbook has facing pages of Spanish and English versions for use by these clientele during commercial pesticide training. Worker Protection Standard training materials are also available in Spanish for these clientele.



During the past year, we provided Bilingual General Standards Training at the Illinois Professional Turf Conference and at a separate clinic in the Chicago metropolitan area. These consist of short passages of spoken English followed immediately by the spoken Spanish translation. This method serves the dual purpose of conveying the information so that it is understood and increasing the understanding of English. Both sessions were successful with strong attendance at each session and positive feedback from those in attendance.

Michelle Wiesbrook initiated and co-coordinated the development of a North Central Region Bilingual Pesticide Applicator Training effort where the 6 states in USEPA Region 5 would pool funding and produce general pesticide safety training materials in Spanish. Two training clinics would be held in each state and ultimately, a self-study CD would be produced. This pilot project would be self-sustaining after about 2 years. The goals of this team approach were to satisfy a growing need for training in Spanish and also to help neighboring PSEP's who are financially stressed. Green Industry leaders provided letters of support to help obtain USEPA discretionary funding. Unfortunately, funding was not provided. We then applied for a regional IPM grant and a Pesticide Environmental Stewardship Program Regional Grant from USEPA but were denied funding.

Related activity involves the development of the Bilingual Self Study CD-Rom: "*Horticultural Tools, Equipment, and Practices*". We were awarded a \$2000 Extension Team Program/Curriculum Development Grant. A script was written, pictures were chosen and a draft CD was created during this reporting period.

Worker Protection Standard



Bruce Paulsrud and Michelle Wiesbrook continue to inform employers, employees, IDA inspectors, and educators about the WPS through fact sheets, newsletter articles, and during PSEP clinics. Since PSEP training meets 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, 10 WPS Handler cards were distributed by University of Illinois staff. In addition, 35 individuals received face-to-face instruction to become WPS trainers.

Operation Safe Fly-ins



Scott Bretthauer conducted the Illinois Agricultural Aviation Association's (IAAA) Operation SAFE fly-in, held April 26 and 27 at the Coles County Memorial Airport near Mattoon, Illinois. S.A.F.E. stands for Self-regulating Application and Flight Efficiency and is a program designed to help aerial applicators set up their aircraft to make safe and accurate applications. At a fly-in, pilots can have their

aircraft professionally analyzed for pattern uniformity and droplet size. Trained S.A.F.E. analysts interpret the results of the tests and recommend changes to improve aircraft performance. Pilots can then do an immediate follow up test to make sure it is set up correctly. S.A.F.E. analysts are dedicated to improving application accuracy and reducing the risk of spray drift. A total of 11 aircraft were tested on April 26 and 27.

A second follow-up fly-in was held on May 17 for those aerial applicators who were unable to make the one in Mattoon. This second fly-in was held at the Logan County Airport in Lincoln Illinois, where 7 aircraft were tested for pattern uniformity and droplet size.





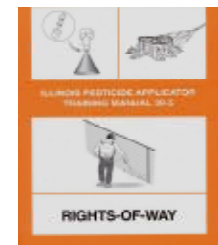
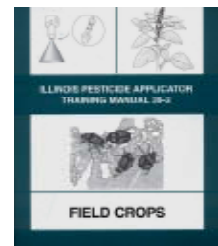
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Educational Materials

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.

In preparation for the 2004-2005 training season, the Private PSEP presentations were reviewed; only minor updates were necessary this year. These updates, and their associated Notes Pages were made available (via the Internal PSEP website) to the Private PSEP trainers.

Several manuals and workbooks were developed or revised. Revised manuals for Field Crops and Rights-of-Way were published. The Aquatics Manual was revised and is being prepared for publication. Several workbooks and training presentations were developed or revised. A new Mosquito Workbook was written and published. The General Standards Workbook, Bilingual General Standards Workbook, Field Crops Workbook, Rights-of-Way Workbook, and Ornamentals and Turf Workbook were revised. Presentations for General Standards, Field Crops, Right-of-Way, Ornamentals, Turf, Mosquito, and Demonstration and Research were revised.



The *Illinois Agricultural Pest Management Handbook* and the *Illinois Commercial Landscape and Turfgrass Pest Management Handbook* were revised and printed. These handbooks provide important specific information on pest management for Private and Commercial Applicators.

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, we assisted IDA in reviewing five banks of exam questions that were used to create new tests for the following areas: General Standards, Field Crops, Turf, Ornamentals and Rights-of-Way. A Drift Inservice Training session was held in July for Illinois Department of Agriculture Inspectors.

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 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 the Illinois Department of Agriculture. There are currently 56 voice mail lines so that a busy signal does not occur. With the high volume of calls (11,000 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). A listing of available PSEP publications including the most recent publication date is also on this site. Clients have the option to print and mail the forms to register for clinics and/or order study materials.

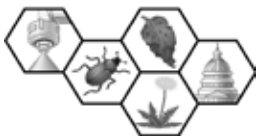


Customer Satisfaction

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 usually accomplished the same day. During the past year, 6601 publications were sold to customers from the PSEP office. PSEP educational materials are also available at the commercial clinics where 1100 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 increase 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 to automate the customer's registration and/ or publication order. This allows one to enter information while talking to clientele, calculate the total cost, and provide a confirmation number prior to ending the phone conversation. This past season, 6218 transactions were conducted resulting in a training volume of 7505. This professionalism adds confidence to the interaction between the PSEP office and our customers.



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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 64 newspaper and magazine articles were published as the result of news interviews or news releases produced by PSEP specialists. Eighteen radio programs spanning five hours of air time were used to promote proper pesticide use. Information from PSEP specialists was featured in 11 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 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 electronically in both HTML and PDF format on the Pesticide Safety Education website. The automatic e-mail notification notification system, created to immediately notify Illinois Pesticide Review readers when new issues are posted to our website, is still successful with over 350 readers registered.



World Wide Web

The Pesticide Safety Education website (www.pesticide-safety.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.



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

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.

Herbicide Drift Education



Every year U of I Extension Educators and Illinois Department of Agriculture Inspectors are called upon to inspect injured ornamental plants and identify the cause. Herbicide drift is often the culprit but proper diagnosis can be extremely difficult.



In response to the need for informative materials dealing with this matter, a “drift garden” was created by Extension Specialists. Various ornamental and garden plants were sprayed with a dilute rate of a variety of herbicides to mimic drift damage. Pictures of the resulting injury symptoms will be used to create an ornamental herbicide injury pamphlet and/or website. This “drift garden” provides a hands-on training resource for nursery inspectors, Extension Educators, Master Gardeners, students, and other interested persons. The garden is maintained and remains open for drop-in visitors throughout the growing season.

Plans are for this garden to continue for several years. In addition to identifying ornamental plants highly susceptible to commonly used herbicides, this multi-year project will also aid in identifying those with inherent tolerance. Such information would be useful in planning ornamental landscapes as well.

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.



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 PSEP specialists routinely contribute. Articles are also written for the Pest Management and Crop Development Bulletin and Imagine, the state Master Gardener Newsletter. 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

14th Ornamentals Workshop, Hendersonville, NC
Digital Photography Workshop, Urbana, IL
Emerald Ash Borer Inservice Training, E. Lansing, MI
Entomological Society of America Annual Meeting, Salt Lake City, UT
Illinois and Iowa Agri. Aviation Assoc. Annual Convention, Bettendorf, IA
Illinois Crop Protection Technology Conference, Urbana, IL
Illinois Nurserymen's Association Pro Hort Workshop, Peoria, IL
International Conf. on Pesticide Application and Drift Man., Waikoloa, HI
National Agri. Aviation Assoc. Meetings, Orlando, FL, Washington, DC
North-Central Turf Exposition, St. Charles, IL
Perennial Plant Association Symposium and Trade Show, New York, NY
Phytophthora ramorum: Educate to Detect Program, National and state telenet
Purdue Pest Control Conference, W. Lafayette, IN
Regional Pest Man. Strategic Plan Wkshp for Commercial Pumpkins, Urbana, IL
SkillPath Seminar – “How to Become a Better Communicator”, Bloomington, IL
Tree Planting Workshop – “Twenty Minutes in the Life of a Tree”, Decatur, IL
University of Illinois Agronomy Day, Urbana, IL
University of Illinois Annual Extension Conference, Springfield, IL
University of Illinois Business Etiquette Seminar, Urbana, IL
University of Illinois Extension GPS In-service, Urbana, IL
University of Illinois Horticulture Field Day, Urbana, IL
University of Illinois Managing Natural Resources Workshop, Monticello, IL
University of Illinois Pesticide Drift Workshop, Urbana, IL
University of Illinois Reclaiming Your Life Seminar, Urbana, IL
University of Illinois The Conference for Women, Urbana, IL
USEPA Region 5 Pre-SFIREG meetings, Chicago, IL

Major Invited Talks Given by PSEP Specialists

- Brownfield Agriculture Seminar on Soybean Rust, *Application Techniques for Controlling Soybean Rust*, broadcast live on the internet
- Crop Technology Conference, *Application Technologies and Techniques to Control Soybean Rust*, Dekalb, IL
- Exotic Invasive Pests Teleconference, *Sudden Oak Death and Exotic Insects*, Urbana, IL
- First Responder Exotic Invasive Pest Training (2). *Exotic Plant Diseases, Exotic Insects, and Exotic Weeds*. Chanpaign, IL
- Fulton Co. Crop Focus Day, *Household Insects*, Lewiston, IL
- Greene and Calhoun-Jersey Extension Unit Agronomy Days, *Spray Nozzle Selection and Use*, Jerseyville and Carrolton, IL
- Illinois Crop Protection Technology Conference, *Foliar Fungicide Basics for Field Crops*, and *The Importance of Droplet Size for Ground and Aerial Applications*, Urbana, IL
- Illinois Housing Authority Annual Conference, *Weed Control Basics and Pesticide Applicator Licensing*, Decatur, IL
- Illinois Professional Turfgrass Conference, *Tree Wilt Disease Prevention: A Brighter Future?*, and *Insect Control Options*, St. Charles, IL
- Ill. Soybean Assoc. Asian Soybean Rust Wksp, *Application Technologies and Techniques to Control Soybean Rust*, Olney, Benton, Carlinville, and Princeton, IL
- InfoAg Conference, *Application Equipment for Spraying to Control Soybean Rust and Tips, Patterns, and Angles: Spray Tip Facts*, Springfield, IL
- Municipal Foresters, *Insect Pests of Trees*, Addison, IL
- Southern Illinois Grounds Maintenance School, *Billbugs, Ataenius, and other Small Grubs in Turfgrass*, Collinsville, IL
- Tri-State Forestry Conference, *Herbicide Application Equipment*, Sinsinawa, WI
- University of Illinois Agronomy Day, *Control More with More Control: Pulse Width Modulation*, Urbana, IL
- University of Illinois Master Gardener Advanced Training, *Weed ID Basics*, Joliet and Rockford, IL
- University of Illinois Master Gardener Training, *IPM and Pesticide Safety*, Springfield, IL
- Univ. of Ill. Master Gardener Trng, *Entomology, Ornamentals, Turf, & Household Insects*, Benton, Danville, Charleston, Decatur, and Bloomington, IL
- Univ. of Ill. Turf & Ornamentals Field Day, *Insect Update*, Olympia Fields, IL
- USDA Forest Service Pesticide Use Coordinators Meeting, *What's Going On With PSEP Funding?*, Chicago, IL
- Youth Environmental Workshop (2), *Fish & Aquatic Invertebrates*, Clinton, IL



Illinois Pesticide Safety Education Program



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



Scott Bretthauer, Private PSEP Coordinator

Extension Specialist in Application Equipment

Department of Agricultural and Biological Engineering

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

<http://age-web.age.uiuc.edu/acadprof/smb/smb.asp>



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. 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, Publications Coordinator
Extension Specialist in Plant Pathology
Department of Crop Sciences

Provides subject matter expertise and training in plant pathology. Collects information on pesticide usage patterns for various crops. Coordinates PSEP study material activities. 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.



Support Trainers

Commercial PSEP Trainers

Campus Faculty: Linda Mason (Purdue University), Dawn Nordby, Tom Voigt

Crop Systems Educators: Dale Baird, Robert Bellm, Bill Brink, Bill Lindenmier, Ellen Phillips, Mike Roegge

Horticulture Educators: Susan Grupp, Maurice Ogutu, David Robson, Jim Schuster

Integrated Pest Management Educators: Dave Feltes, Russ Higgins, Mark Hoard

Natural Resources Management Educators: John Church

Private PSEP Trainers

Animal Systems Educators: Wes Winter

Crop Systems Educators: Dale Baird, Robert Bellm, Dennis Bowman, Bill Brink, Greg Clark, Megan Curless, Dennis Epplin, Pete Fandel, Jim Morrison, Ellen Phillips, Mike Roegge, Marion Shier

Horticulture Educators: Chris Hilgert, Greg Stack, Elizabeth Wahle

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

Natural Resources Management Educators: Kelli Bassett, Kyle Cecil, Gary Letterly, Mike Plumer, David Shiley

Unit Leaders: Rhonda Ferree, John Fulton

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.

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
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/>



Richard Warner

Interim Assistant Dean, Extension Program Coordination
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



Illinois Pesticide Safety Education Program

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Professional Improvement by PSEP Specialists

Professional Society Involvement

American Association of Pesticide Safety Educators (AAPSE)
AAPSE Journal of Pesticide Safety Education Editorial Committee
AAPSE Task Force on PSEP Funding
American Phytopathological Society
American Society of Agricultural Engineers
Entomological Society of America (ESA)
Illinois Agricultural Aviation Association (IAAA)
Illinois Turfgrass Foundation
National Agricultural Aviation Association (NAAA)
North Central American Phytopathological Society
North Central Weed Science Society
Weed Science Society of America

University Committee Involvement

Crop Protection Technology Conference Committee
Crop Sciences Extension and Outreach Committee
Crop Sciences Safety Committee
Extension Crop Systems Development Team
Extension Program Leaders Committee
Grounds Advisory Committee
Extension Horticulture Development Team
Extension IPM Development Team
NRES Academic Professional Advisory Committee
NRES Extension & Outreach Committee

Other Committees

Emerald Ash Borer Readiness Committee
Illinois Interagency Committee on Pesticides
Illinois Natural History Survey Luckmann Award Committee
Illinois Soybean Rust Committee (Fungicides sub-committee)
Illinois Structural Pest Control Advisory Council
Illinois Sudden Oak Death/P. ramorum Task Force
Illinois Worker Protection Stakeholders Committee
NAAA Operation S.A.F.E. Committee
NAAA PAASS Program Development Committee
Purdue Pest Control Conference Planning Committee
USEPA Childcare IPM Advisory Committee
USEPA Region 5 State and Federal Regulatory Committee

<u>Accomplishment</u>	<u>Date of Completion</u>
Illinois Pesticide Review Newsletter	6 Issues
Commercial PSEP Clinics (28 clinics)	All Season
WPS Cards Issued (10)	All Season
Private PSEP Clinics (58)	All Season
Drift Injury Inservice Training	July 2004
PSEP Bookmark Reprint	August 2004
PSEP Office Database and Program Upgrades	September 2004
Commercial PSEP Clinic Schedule Printed	September 2004
Rights of Way Manual Revision	September 2004
Aquatic Weed Control Workbook Reprint	September 2004
Plant Management Workbook Reprint	September 2004
Private Training Presentations Revised	October 2004
Bilingual General Standards Workbook Revision	October 2004
Rights of Way Workbook Revision	October 2004
General Standards Workbook Revision	October 2004
Field Crops Manual Revision	October 2004
Field Crops Workbook Revision	November 2004
Commercial Landscape & Turf. Pest Man. Handbook	November 2004
Commercial Training Presentations Revised (7)	November 2004
PSEP 2003-2004 Annual Report	January 2005
Mosquito Control Workbook -New	December 2004
Turf & Ornamental Workbook Revision	January 2005
Plant Management Workbook Reprint	January 2005
Ill. Agr. Pest Management Handbook Revision	January 2005
General Standards Workbook Reprint	March 2005
Bilingual General Standards Workbook Reprint	March 2005
Commercial Training Evaluations Conducted	March 2005
Aerial Fly-In Clinic	April 2005
Aerial Fly-in Clinic	May 2005
WPS Train-the-Trainer	June 2005





College of Agricultural, Consumer and Environmental Sciences

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