



Phosphine Gas Kills Texas Child

On July 17, 2007, a family in Lubbock, Texas, was trying to kill the cockroaches in its home. The family had purchased, from a neighbor, a restricted-use fumigant under the trade name Phostoxin. At about noon, Phostoxin pellets were placed in four locations in the home. Toxic fumes then were released, sickening four adults and killing a 2-year-old girl.

On Wednesday morning, July 18, the family believed it had become sickened by carbon monoxide poisoning and called 911. Hazardous material crews called to the house identified the cause of the family's sickness as a pesticide. Once everyone was safely out of the house, authorities taped off the area to keep people out.

The pellets that were found in the home by the hazardous material crew were impregnated with aluminum phosphide. The pellets are intended primarily for use in grain storage facilities. They also are used to control burrowing pests, such as prairie dogs and gophers. A toxic gas, phosphine, is released for about 72 hours once the chemical comes into contact with atmospheric moisture. The product never should have been used in this home. This fumigant is classified as a restricted-use pesticide with warnings of acute inhalation toxicity clearly stated on the label. Product labeling details the proper use of this product, as well as the needed personal protection equipment. Only certified fumigation applicators should be able to purchase and apply this product.

Investigators believe that the original source for the fumigant was the result of an employee theft from a

legitimate distributor and user of Phostoxin. The responsible party has been identified. However, authorities are not releasing a name because the person still is at large and investigators do not wish to compromise the investigation. Once apprehended, the perpetrator likely will face criminal charges for the death of the girl, criminal charges for reckless endangerment of family survivors and criminal charges for the theft of the product, and will face prosecution from the Texas Department of Agriculture for multiple violation of state and federal pesticide laws.

Additional details and video clips are available from KCBD-TV News Channel 11 in Lubbock, Texas. Its home page can be found at www.kcbd.com. Type the keyword "Phostoxin" in its search engine and you will be directed to various stories about the incident.

If you or your company stores aluminum phosphide fumigants, please take the time to review your inventories today. If you cannot account for all of your product, contact the North Dakota Department of Agriculture and, as per label instructions, "immediately report to the local police department theft of metal phosphide fumigants."

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Coordinator's Comments

Welcome James Hansen and Jessica Orr to the North Dakota Department of Agriculture.

Jim, a Mandan native, was brought on board in September as a mapping specialist to implement the department's geographical information system (GIS) and global positioning system (GPS) technologies. He will have two primary focus areas: the endangered species program, in which he will compile information on pesticide use, cropping systems, soils and endangered species habitat; and the noxious weed group in the department.

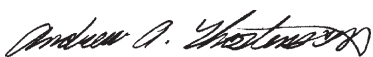
Jim graduated from the University of North Dakota with a degree in geography. He worked for aerial mapping companies in Rapid City, S.D., and Chesterfield, Mo., before returning to Mandan to work as GPS coordinator for the Morton County Highway Department.

Jessica Orr joined the department in early November as an environmental scientist. This is a new position, authorized and funded by the 2007 Legislature to administer the Endangered Species Protection and Pesticide Water Quality programs.

Jessica is an Ypsilanti native. She graduated from Jamestown High School and from Boston University with a degree in biology. She earned a master of science degree in biology from Tennessee Technological University, Cookeville. During the past summer, she worked with the U.S. Geological Survey on research projects involving two North Dakota endangered species, the piping plover and least tern.

As these pages have long chronicled, we need people such as Jim and Jessica to help us ensure that pesticides are being used properly and within the boundaries of federal mandates with regard to the Endangered Species Act. Again, welcome, and you have our best wishes and support as you carry out your responsibilities.

Warmest regards,



Andrew A. Thostenson,
Pesticide Program Specialist

NDSU Releases Publication on Aerial Applications of Fungicides

This summer, retired NDSU agricultural engineer Vern Hofman, along with five additional Extension educators and researchers from North Dakota, Minnesota and South Dakota, released publication *AE-1327, "Aerial Application of Fungicide for the Suppression of Fusarium Head Blight in Small Grains."*

This is a one-of-a-kind publication not only regionally, but at the national level as well. What follows are excerpts from this four-page color publication:

Introduction

Fusarium head blight (FHB) has caused considerable damage to small grains during the past 14 years. Crop losses to growers in North Dakota, Minnesota and South Dakota have been significant. Serious yield and quality losses from FHB occur whenever wet weather coincides with the heading and flowering growth stages of the crop. Inoculum of the Fusarium disease organism is in nearly every wheat production field in the northern Plains or comes from a nearby source, so potential risk nearly always is present.

One of the management strategies to control FHB is to use fungicides. A traditional method of aerial fungicide application for leaf disease control often has provided less than adequate control of FHB. The flowering grain head (wheat) or fully emerged grain head (barley) is the most important site of infection of the Fusarium fungus and economically the most important growth stage to implement control strategies. If fungicides are applied

with very fine spray drops, much of the fungicide is deposited on the leaves or awns and does not deposit on the spikelets of the grain head. Fungicides used for FHB control will move only upward and outward within plant tissues from the point at which they are applied, so crops need thorough coverage for adequate fungicide performance.

The most effective FHB control occurs when fungicide is applied to the spikelets on all sides of the grain head. A certain amount of fungicide may move into unsprayed spikelets (locally systemic) if the fungicide reaches the inner portions of the wheat head (rachis) and is allowed to move upward through the wheat head. Full coverage to all spikelets is very difficult to do, so the challenge is to find the most effective and efficient aerial technique to achieve maximum fungicide deposition.

Fungicide application for best control of FHB should be done at the proper stage of growth, typically during a four- to five-day period. Aerial application offers three distinct advantages over ground application: Aerial applicators can apply fungicide when fields are very wet, they can spray large acreages in a short period of time and they eliminate the wheel tracks in a field.

Recommended Fungicide Application Techniques for FHB Suppression in Small Grains with Aerial Application

- Produce a "large fine" to "small medium" sized spray drop (300 to 350 microns). Use the USDA-ARS Web site as a starting point and water-sensitive paper to determine drop size.

- Minimum spray operating pressure should be 30 psi.
- Operate smaller and slower aircraft at a height of 8 to 10 feet above the sprayed surface and heavier aircraft at 10 to 12 feet.
- Apply the fungicide at 5 gallons per acre.
- Mount spray nozzles so they do not exceed more than 70 percent of the wing span. Nozzles mounted over 65 percent of the wing span are preferred. This will reduce the quantity of fines at the wing tip vortices and reduce drift.
- Produce a uniform spray pattern with tapered edges. A pattern test will show abnormal variations in your spray pattern.
- Most aircraft use a uniform nozzle spacing except in the center. Nozzles in the center of the aircraft should have a spacing at least double to those mounted on the wings. A pattern test is the best way to determine the exact nozzle spacing and placement.
- Mount the spray nozzles as low as possible below the wing. This helps discharge spray into air with the least amount of turbulence. Turbulence causes spray drop breakup and spray drift.

You can download the entire publication at www.ag.ndsu.edu/pubs/plantsci/pests/ae1327.pdf.

You also can order hard copies from the North Dakota State University Distribution Center:

Morrill Hall 10
Box 5655
Fargo, ND 58105-5655
Telephone: (701) 231-7883
dctr@ndsuxext.nodak.edu

2008 Commercial Pesticide Certification Calendar

Here are schedules you can use for planning your training needs during the next several months. These recertification trainings are structured to give currently certified applicators/dealers the information necessary to maintain or renew their certificates in the appropriate categories.

Preregistration is required for all trainings because of material and space limitations. If you do not preregister, you have no guarantee you will get seated at the training.

A *Training Preregistration* form is published in this newsletter. Electronic forms for downloading and printing also are available at <http://ndsupesticide.org>.

Home-study course recertification is available for those categories that are not on the training calendar or for the following minor categories: greenhouse, home industrial and institutional, metam-sodium, public health, vertebrate and wood preservation. Request your materials for these courses with the *Nontraining Study Materials* request also printed in this newsletter on page 11.

■ AgPest, Right-of-Way, Seed Treatment, Research and Demonstration Recertification

Date	Time	Location
Jan. 9, 2008 Jamestown Ag Show	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Jamestown, Jamestown Civic Arena, 212 3rd Ave. S.W.
Jan. 24, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Williston, Research Extension Center, 14120 Highway 2
Feb. 6, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Mandan, Seven Seas Hotel, 2611 Old Red Trail
Feb. 12, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Minot, Holiday Inn, 2200 Burdick Expressway E.
Feb. 20, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Langdon, Research Extension Center, 9280 107th Ave. N.E.
Feb. 20, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Linton, Emmons County Extension, 100 4th St. N.W.
Feb. 20, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Mohall, Renville County Courthouse, 205 Main St. E.
Feb. 28- March 1, 2008 NDAAA Convention, Aerial App Only	times will be announced in NDAAA Convention brochure; must attend both days	Jackpot Junction Casino, 39375 County Hwy. 34, Morton, Minn.
March 5, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Devils Lake, Knights of Columbus, 522 4th St.
March 12, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Crosby, Divide County Extension, 300 2nd Ave. N.
March 12, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	LaMoure, LaMoure County Courthouse, 202 4th Ave. N.W.
March 12, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Fessenden, Wells County Extension, 600 Railway St. N.
March 12, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Wahpeton, Richland County Courthouse, 418 2nd Ave. N.
March 12, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Watford City, McKenzie County Courthouse, 201 5th St. N.W.
March 25, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Fargo, Ramada Plaza Suites, 1636 42nd St. S.W.

■ Fumigation Recertification

Date	Time	Location
Jan. 16, 2008	Registration 9:30 a.m.; Training 10 a.m. – 2:30 p.m.	Fessenden, Wells County Extension, 600 Railway St. N.
Jan. 16, 2008	Registration 9:30 a.m.; Training 10 a.m. – 2:30 p.m.	Wahpeton, Richland County Courthouse, 418 2nd Ave. N.
Jan. 16, 2008	Registration 9:30 a.m.; Training 10 a.m. – 2:30 p.m.	Williston, Williams County Courthouse, 205 Broadway E.
March 3, 2008	Registration 9:30 a.m.; Training 10 a.m. – 2:30 p.m.	Fargo, NDSU Memorial Union Ballroom

■ Greenhouse, and Ornamental and Turf Recertification

Date	Time	Location
Jan. 30, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Fargo, Ramada Plaza Suites, 1636 42nd St. S.W.
Feb. 26, 2008 NCTGA Convention	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Fargo, Holiday Inn, 3803 13th Ave. S.

■ Public Health Recertification

Date	Time	Location
April 22, 2008 Mosquito Control Assn	Registration 7:30 a.m.; Training 8 a.m. – 5 p.m.	Bismarck, Radisson Hotel, 605 Broadway Ave. E.
May 14, 2008	Registration 9 a.m.; Training 9:30 a.m. – 4 p.m.	Fargo, Cass County Courthouse Annex, 1010 2nd Ave. S., lower level
May 14, 2008	Registration 9 a.m.; Training 9:30 a.m. – 4 p.m.	Grand Forks County Extension, 151 4th St. S., Suite 302

■ Right-of-Way ONLY Recertification

May 20, 2008	NDWCA Annual Sprayer School	To be announced in a future issue of the <i>Pesticide Quarterly</i> newsletter.
May 22, 2008	NDWCA Annual Sprayer School	To be announced in a future issue of the <i>Pesticide Quarterly</i> newsletter.

Training Opportunities for New Applicators/Dealers

If you have employees or recent hires, or if you need to become certified as commercial/public pesticide applicator or dealer, the NDSU Extension Pesticide Program now has

“Introductory Basic Core Training”

The training is designed for commercial or public applicators and dealers who are new to pesticide certification in North Dakota. It will cover basic pesticide safety and handling practices, as well as relevant laws and regulations as they pertain to the distribution and use of pesticides.

This training is not category specific. It will emphasize practices and procedures that should be useful to all applicators or dealers, whether they are seeking certification in the Agricultural Pest Control category, Wood Preservation category or any of the 10 other use categories found in North Dakota. The training also will describe the certification process and how to prepare and take exams to obtain a pesticide certificate.

Please note: This is an optional program. Exams still may be taken without any prior training, but if you participate, you will be much better prepared to take the exams. People who wish to attend should fill out the training preregistration form included in this issue of *Pesticide Quarterly*.

Remember to register 10 days before the training date to ensure adequate space at each location. Call the NDSU Extension Pesticide Program with any questions at (701) 231-7180 or (701) 231-6388.

Date	Time	Location
March 4, 2008	Registration 8 a.m. Training 8:30 a.m. – 4 p.m.	Fargo, NDSU campus, Memorial Union Ballroom
June 4, 2008	Registration 8 a.m. Training 8:30 a.m. – 4 p.m.	Minot, Holiday Inn, 2200 Burdick Expressway E.

Review Your Financial Responsibility Status

Before you seek commercial/public pesticide certification or renewal, take a few moments to review your status as it pertains to North Dakota's financial responsibility law.

First ask yourself: Will I be applying a pesticide?

- a. If the answer is no, you do not need to file any financial responsibility documents to obtain a certificate.
- b. If the answer is yes, go to the next question.

Second: Will I apply pesticides only as an employee of a city, county, state or federal agency, municipal corporation, public utility, hospital, privately owned golf course, nursery, greenhouse or other governmental agency?

- a. If the answer is yes, you do not need to file any financial responsibility documents to obtain a certificate.
- b. If the answer is no, go to the next question.

Third: Will I apply pesticides only in one or more of the situations listed below?

- A rancher who is required to obtain a commercial pesticide applicator certificate for controlling noxious weeds on the leased federal acreage as a condition of a federal grasslands lease

- A grazing association and its members if either the association or any member is required to obtain a commercial pesticide applicator certificate for controlling noxious weeds on the leased federal acreage as a condition of a federal grasslands lease
 - A person required to be certified in the right-of-way category
 - An applicator who holds a commercial pesticide certificate and is controlling noxious weeds on grassland, land producing tame hay or other lands not devoted to the production of an annual crop
- a. If the answer is yes, you do not need to file any financial responsibility documents to obtain a certificate.
 - b. If the answer is no, go to the next question below.

Four: Will I apply pesticides by contract or for hire and/or engage in the business of applying pesticides for compensation to the land of another by aerial, ground, hand or any other equipment?

- a. If you answer yes to this question, you must provide proof of financial responsibility to obtain a certificate. The law states: *"Minimum financial responsibility must be maintained in the amount of one hundred thousand*

dollars, and may be demonstrated by a notarized letter from an officer of a financial institution or from a certified public accountant attesting to the existence of net assets equal to at least one hundred thousand dollars, performance bond, or a general liability insurance policy."

- b. If you answered no to this question, you do not need to file any financial responsibility documents to obtain a certificate.

Finally: If you or your employer needs to file a financial responsibility document with our office, then bring it to the training. We will accept the following:

- notarized letter
- performance bond
- general liability insurance policy with the following information:
 - insurance company name
 - insurance company address
 - insurance policy number
 - coverage limits
 - policy dates

**Need help with
pesticide certification or
general pesticide use issues?**

Contact:

NDSU Pesticide Training and
Certification Program
Box 5051, Fargo, ND 58105-5051

Tel: (701) 231-7180

Fax: (701) 231-5907

E-mail: pesticid@ndsuxext.nodak.edu

Internet: www.ndsupesticide.org

Certified Crop Adviser Continuing Education Units Available at Commercial Pesticide Applicator Trainings

The NDSU Extension Service Pesticide Program is offering certified crop advisers the opportunity to obtain their continuing education units (CEUs) at selected commercial agricultural pest recertification training sessions. Six credit hours are available at each training listed below (1.5 in Soil and Water Management and 4.5 in Pest Management.)

Please note that you must attend 100 percent of the training to receive your CEU credits. No exceptions allowed!

Fees for attending a session are as follows:

- \$ 5 per credit for crop advisers who also are attending for commercial pesticide recertification
- \$10 per credit for crop advisers who are attending for CEUs only

Please preregister 10 days before a training to ensure adequate space at each location. Call the NDSU Extension Pesticide Program with any questions at (701) 231-7180 or (701) 231-6388.

Certified Crop Adviser – CEU Preregistration 2007-08

Include fee
(Please print)

Name _____

Phone () _____

Address _____

City _____

State _____ ZIP _____

I will attend the following workshop:

Date ____/____/____ City _____

Fee _____

Attending for CEUs only?

6 credits x 10 Total \$ _____

Attending for pesticide certification also?

6 credits x 5 Total \$ _____

Make checks payable to: NDSU Extension Pesticide Program
(If paying by personal check, the state of North Dakota requires your birth date on the check)

Send payment to: NDSU Extension Pesticide Program
P.O. Box 5051
Fargo, ND 58105-5051

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Feb. 12, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Minot, Holiday Inn, 2200 Burdick Expressway E.
Feb. 20, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Langdon, Research Extension Center, 9280 107th Ave. N.E.
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March 5, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Devils Lake, Knights of Columbus, 522 4th St.
March 12, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Crosby, Divide County Extension, 300 2nd Ave. N
March 12, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	LaMoure, LaMoure County Courthouse, 202 4th Ave. N.W.
March 12, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Fessenden, Wells County Extension, 600 Railway St. N.
March 12, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Wahpeton, Richland County Courthouse, 418 2nd Ave. N.
March 12, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Watford City, McKenzie County Courthouse, 201 5th St. N.W.
March 25, 2008	Registration 8 a.m.; Training 8:30 a.m. – 4 p.m.	Fargo, Ramada Plaza Suites, 1636 42nd St. S.W.

Pesticide Exposure and the Ag Health Study

Editor's note: The following summary was prepared in part by my colleague, Phil Nixon, University of Illinois pesticide applicator training coordinator. Phil does a great job covering the high points of this important ongoing study.

An estimated 1.8 billion people worldwide use pesticides in their occupation. Research also indicates that everyone in the United States is exposed, at least indirectly, to pesticides. Of the pesticides and their components, only arsenic and dioxin are listed as known human carcinogens. The National Agricultural Health Study was initiated in 1993 to determine the incidence of cancer and other health problems associated with pesticides, other agrichemicals and agricultural practices in the United States.

The National Agricultural Health Study is a federally funded, long-term study focusing primarily on cancer rates among farmers. However, a large portion of the participants from Iowa are professional agricultural pesticide applicators, and many of the results are applicable to landscape applicators. The 89,658 participants in the study are all agricultural workers from North Carolina and Iowa, and their spouses and children.

Many studies of the effects of agricultural chemicals and other practices rely primarily on the long-term memory of the participant or surviving family members to determine exposures. As a result, these backward-looking studies have some inherent problems in the data that they collect, causing some concerns about the conclusions that are drawn from that data.

The Agricultural Health Study relies on memory for the practices of participants prior to 1993, but since then has been tracking agricultural practices and health effects as they occur. Included in some of the studies has been the collection of genetic, urine and blood samples, as well as on-site observations of the agricultural activities of the participants. The study is expected to continue at least through 2013. All of the participants are interviewed every five years. Their third interviews have just been completed and provide some interesting information.

With regard to exposure, the study determined that:

- **14 percent of pesticide applicators have had an acute exposure to pesticides in their lifetime.**
- **Concerning chronic exposure to pesticides, pesticide exposure reduces 66 percent to 75 percent for applicators who wear chemical-resistant gloves.**

- **A 33 percent to 51 percent reduction in pesticide exposure occurs when using a broadcast boom sprayer, compared with using a hand sprayer.**

This survey data was verified through measurements of pesticides in urine samples, exposure patches on the skin and air measurement during application.

Personal hygiene practices also were surveyed. After using pesticides:

- **37 percent take a shower or bath, whereas 63 percent do not.**
- **5 percent wear the same clothing that they wore on the previous day when they applied pesticides without it being washed; 95 percent wear clean clothing the next day.**

Finally, the study indicated that a major source of exposure indoors is contaminated clothing. In this survey:

- **78 percent take off their work boots before entering their home; 21 percent do not.**
- **Clothes worn during pesticide application are washed separately by 74 percent; 26 percent do not wash pesticide-contaminated clothes as a separate laundry load.**
- **Agricultural or commercial pesticides were stored in the home by 13 percent of the applicators; 87 percent did not.**

For additional details from the Agricultural Health Survey, go to the Web at <http://aghealth.nci.nih.gov>.

New Jersey Department of Environmental Protection Removing Tainted Dirt at Paramus School

Editor's note:

The following news release gives a very brief account of a high-visibility incident that began in December 2006 when school officials discovered the presence of extremely high levels of pesticides in soil unearthed in a routine construction project.

Before the summer was out, due to inept public relations, the superintendent was fired and several other school officials resigned in disgrace. Today, they are testing every school in the district and thus the seemingly innocuous dirt pile has taken on a political life of its own with no end in sight.

(May 2007) TRENTON, NEW JERSEY – Responding to concerns at the West Brook Middle School in Paramus, Department of Environmental Protection Commissioner Lisa P. Jackson today announced that, at Governor Jon S. Corzine's request, the DEP will step in and immediately remove a pile of soil tainted with pesticides.

"Any time children are involved, we must move swiftly to protect their health and safety and to help restore parents' peace of mind," Commissioner Jackson said. "DEP will remove the soil pile, provide technical assistance to the school board and the municipality and conduct additional sampling if the school district or borough requests that we do so."

Further, Commissioner Jackson said the DEP is requiring up front that the school district pay any costs associated with removing the soil pile and testing the soils.

Paramus Mayor James Tedesco on Tuesday ordered the school closed following reports that the district found elevated levels of the pesticides chlordane, aldrin and dieldrin in a pile of soil adjacent to the building.

The pesticides have been banned by the federal government since the 1980s. Chlordane once was used to prevent termite infestations. Aldrin once was used as an agricultural pesticide; dieldrin is a breakdown product of aldrin.

The DEP is investigating how the district managed the excavation of the soil.

After learning of the situation, the DEP immediately sent an inspector to the school last Thursday. The inspector interviewed school officials and observed the pile, noting that it was fenced off and properly covered at the time of his inspection. The DEP sent another inspector to the school today.

For more information on this incident, you can see video clips of angry parents at a public meeting by going to YouTube at www.youtube.com. In its search engine, type in the keywords "West Brook Middle School Pesticide."

You also can read a chronicle of stories in the New Jersey Record newspaper by staff writer Michael Gartland at <http://northjersey.com>.

Commercial Pesticide Recertification Pre-registration Form

Training Pre-registration

PERSONAL INFORMATION (please print)
Name _____
Address _____
Phone _____
Date of birth _____
E-mail _____

EMPLOYER/BUSINESS
Name _____
Address _____
Phone _____
Fax _____
E-mail _____

Correspondence from the Pesticide Office should go to which of the above addresses? personal employer

N.D. County of Residence _____ N.D. Commercial Pesticide ID _____

Do you work for a government agency? Yes No

Is this certification for research and demonstration purposes? Yes No

Check all that apply on each line: **Core Status** Ground Aerial
Certification Status Applicator Dealer Consultant

Training/Pre-Registration		
<u>Study materials are provided at training.</u>		
Do not request material for training(s) indicated below.		
▼ Check each category you are training in:	▼ Location of training	▼ Date
<input type="checkbox"/> Ag Pest		
<input type="checkbox"/> Right-of-Way		
<input type="checkbox"/> Seed Treatment		
<input type="checkbox"/> Fumigation		
<input type="checkbox"/> Greenhouse		
<input type="checkbox"/> Ornamental and Turf		
<input type="checkbox"/> Home, Industrial and Institutional		
<input type="checkbox"/> Public Health		
Total training/pre-registration categories _____ X \$10 = \$ _____		
Base fee (one-time charge per training season)		\$55
Total		\$ _____

**Method of Payment
(payment must be included)**

Credit Card

Visa MasterCard Discover

Credit Card # _____

Expiration (mo/yr) ____/____

Cardholder name (print) _____

Check/Money Order # _____

Payable to NDSU Extension Pesticide Program

If paying by personal check, the state of North Dakota requires your birthdate on the check.

Send payment to:
 NDSU Extension Pesticide Program
 Box 5051 NDSU
 Fargo, ND 58105

Must be postmarked 10 days prior to training.



**For questions, contact the
 NDSU Extension Pesticide Program Office
 phone (701) 231-7180 or (701) 231-6388; fax (701) 231-5907**

Commercial Pesticide Study Material Request Form

Non-training Study Materials

PERSONAL INFORMATION (please print)
Name _____
Address _____
Phone _____
Date of birth _____
E-mail _____

EMPLOYER/BUSINESS
Name _____
Address _____
Phone _____
Fax _____
E-mail _____

Correspondence from the Pesticide Office should go to which of the above addresses? personal employer

N.D. County of Residence _____

N.D. Commercial Pesticide ID _____

Do you work for a government agency? Yes No

Is this certification for research and demonstration purposes? Yes No

Check all that apply on each line: **Core Status** Ground Aerial
Certification Status Applicator Dealer Consultant

Study Material									
▼ Check each category for study material needed:									
<input type="checkbox"/> Ag Pest									
<input type="checkbox"/> Fumigation									
<input type="checkbox"/> Greenhouse									
<input type="checkbox"/> Home, Industrial and Institutional									
<input type="checkbox"/> Ornamental and Turf									
<input type="checkbox"/> Public Health									
<input type="checkbox"/> Right-of-Way									
<input type="checkbox"/> Seed Treatment									
<input type="checkbox"/> Vertebrate									
<input type="checkbox"/> Wood Preservatives									
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total study material categories _____ X \$10 = \$_____</td> <td></td> </tr> <tr> <td>Base fee (one-time charge per training season)</td> <td style="text-align: right;">\$55</td> </tr> <tr> <td>Shipping and handling</td> <td style="text-align: right;">+ \$5</td> </tr> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">\$_____</td> </tr> </table>		Total study material categories _____ X \$10 = \$_____		Base fee (one-time charge per training season)	\$55	Shipping and handling	+ \$5	Total	\$_____
Total study material categories _____ X \$10 = \$_____									
Base fee (one-time charge per training season)	\$55								
Shipping and handling	+ \$5								
Total	\$_____								

**Method of Payment
(payment must be included)**

Credit Card

Visa MasterCard Discover

Credit card # _____

Expiration (mo/yr) ____/____

Cardholder name
(print) _____

Check/Money Order # _____

Payable to NDSU Extension Pesticide Program

If paying by personal check, the state of North Dakota requires your birthdate on the check.

Send payment to:
 NDSU Extension Pesticide Program
 Box 5051 NDSU
 Fargo, ND 58105



**For questions, contact the
 NDSU Extension Pesticide Program Office
 phone (701) 231-7180 or (701) 231-6388; fax (701) 231-5907**

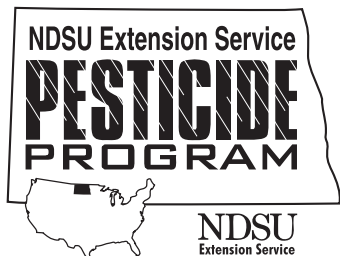
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Extension Service
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Private Applicator Fumigation Training Opportunities

Applicators who hold a valid Private Fumigation Applicator Certificate are welcome to participate in the recertification trainings listed below. Registration at all locations and dates will begin at 9:30 a.m. CST. The training will begin at 10 a.m. CST. An hour break is scheduled from noon to 1 p.m. CST. The training will conclude at 2:30 p.m. CST.

Space is limited, so applicators should preregister via telephone with the local NDSU county Extension office that will host the training. You should preregister a minimum of 10 days prior to the training so seating and adequate resources can be secured.

For exact training location details, please contact the appropriate NDSU county Extension office listed below:

Date	Location	Contact Office for Preregistration	
Jan. 30, 2008	Fargo	Cass County Extension, 1010 2nd Ave. S.	Tel. (701) 241-5700
Jan. 30, 2008	Beach	Golden Valley County Extension, 53 Central Ave. S.	Tel. (701) 872-4332
Jan. 30, 2008	Beulah	Mercer County Extension, 1400 Highway 49 N., #103	Tel. (701) 873-5195
Feb. 27, 2008	Killdeer	Dunn County Extension, 125 Central Ave.	Tel. (701) 764-5593
Feb. 27, 2008	Mandan	Morton County Extension, 210 2nd Ave. N.W.	Tel. (701) 667-3340
Feb. 27, 2008	Stanley	Mountrail County Extension, Junction U.S. 2 & N.D. 8	Tel. (701) 628-2835
Feb. 27, 2008	Minot	Ward County Extension, Courthouse, 315 3rd St. S.E., Room 101	Tel. (701) 857-6444
March 19, 2008	Bismarck	Burleigh County Extension, 3715 Bismarck Expressway E.	Tel. (701) 221-6865
March 19, 2008	Carrington	Foster County Extension, Courthouse, 1000 5th St. N.	Tel. (701) 652-2581
March 19, 2008	Devils Lake	Ramsey County Extension Courthouse, 524 4th Ave. N.E. #5	Tel. (701) 662-7027
March 19, 2008	Wahpeton	Richland County Extension Courthouse, 418 2nd Ave. N.	Tel. (701) 642-7793