



NASDA Research Foundation 2012 Update

Carol (Ramsay) Black
EPA Project Director

**Enhancing Pesticide Safety Programs for Agricultural Workers, Handlers,
Certified Applicators, Ag Retailers, and Health Care Providers for
Improved Community Health and Environmental Justice**

A cooperative agreement with US EPA Office of Pesticide Programs



Project Period:

April 5, 2010 – April 6, 2015

- Pesticide Applicator Certification Exam Item Banks, Training Syllabi, and Manuals
- Pesticide Applicator Certification and Training Support
- Workshops for Applicator Training & Certification, and WPS Handler Education
- WPS Resources and Training Support
- Pesticide Safety to Other Communities



Exam Item Banks, Training Syllabi, and Manuals

- **Completed**
 - Aerial manual and item bank
 - Rights-of-Way syllabus/test plan, item bank
 - Soil Fumigation manual and item bank
- **Underway or Planning**
 - National Core Item Bank Revision
 - National Core Manual *Update*
 - Seed Treatment
 - Turf & Ornamental



Exam Workshops

Goals for attendees to acquire the knowledge and skills necessary to:

- Develop a job-related test plan (i.e., blueprint)
- Learn by doing
 - Review multiple-choice items according to accepted practice
 - Write multiple-choice items to practice skills
- Assemble a test that reflects the job-related nature of the test plan



Training Faculty

- Drew Martin, Purdue Univ.
- Leo Reed, Office Indiana State Chemist
- Dan Wixted, Cornell Univ.
- Richard Dickinson, NY Dept. of Environmental Conservation
- Carol Ramsay, Washington State Univ.
- Margaret Tucker, WA State Dept. of Agriculture





Exam Workshop Years in Service

	Indiana	New Mexico
< 6 months	12%	10%
0.5 to 5 years	36%	23%
5 to 15 years	40%	37%
> 15 years	12%	30%



Enhanced Exam Development and Revision Skills

	Indiana	New Mexico
Most Definitely	68%	77%
Definitely	28%	23%

Notebook Quality

	Indiana	New Mexico
Fantastic	29%	47%
Good	67%	53%



Exam Workshop Results

- **Moving toward three-option items during exam development or revision**
 - Already Planned – 17
 - Inspired to Do – 29
 - Can't see it happen – 0
 - Not my choice – 8
- **Developing a blueprint with weighted knowledge and skill statements**
 - Already Planned – 9
 - Inspired to Do – 26
 - Can't see it happen – 11
 - Not my choice – 7



Exam Workshop Results

- **Partnering with SLA or CES**
 - Already Planned – 36
 - Inspired to Do – 10
 - Can't see it happen – 4
 - Not my choice – 6
- **Inviting industry in to assist with exam development**
 - Already Planned – 18
 - Inspired to Do – 27
 - Can't see it happen – 4
 - Not my choice – 5

CPARD Expansion for PSEP

CPARD - A NASDA Foundation and EPA Cooperative Agreement Project



Total Applicators

Menu Page > Reports > Total Applicators > View

Logout

All States 2011 -- Applicator Totals Report

Export To Excel

No.	STATE	Commercial New	Private New	Commercial Recert	Private Recert	Commercial	Private
1	Alabama	348	627	906	1113	4199	5876
2	Alaska	94	6	57	8	606	106
3	American Samoa	0	0	0	0	10	163
4	Arizona	827	137	6460	291	7287	428
5	Arkansas	474	1226	1154	2139	4410	20284
6	California	3292	1066	13724	5902	34790	18087
7	Cheyenne River Sioux	26	62	10	4	36	66
8	Colorado	587	315	1006	1018	4182	4908
9	Connecticut	127	27	502	106	2794	558
10	Delaware	32	136	428	1703	1839	734
11	District of Columbia	51	0	118	0	1373	0
12	Florida	1282	360	8083	621	16198	3990
13	Georgia	1404	1633	1007	1109	11592	21521
14	Guam	0	0	0	0	135	16
15	Hawaii	141	34	59	25	1208	487
16	Idaho	425	140	1619	1838	4079	3859
17	Illinois	2654	741	2456	2097	14592	16818
18	Indiana	1709	1062	2943	4414	8754	13051
19	Iowa	1726	676	3555	7667	13754	23308
20	Kansas	874	1242	1531	3175	6054	14631
21	Kentucky	2978	3233	3828	3215	13464	12879

POINTS
PPRS

- Main Page
- Contacts
- STATE
 - Full Report
 - Category
 - Exam by Category
 - Applicator Cycles
- ALL STATES
 - Total Applicators
 - COM Applicators
 - EPA Category
 - Corresponding Category
 - State Category
 - Sort by Category
 - Regulatory Activities
 - Certification Controls
 - Certification Controls
 - Lead Agency
 - RUP's Agencies
 - Enforcement
 - Recipr. Agreements



YouTube™ pesticide videos and Kodak® camera instructor guide

www.youtube.com/pesticidevideos



Lawn care operator handling pestic...
314 views 1 year ago



West Virginia School IPM Training ...
166 views 11 months ago



Twelve Step Program.mp4
39 views 1 month ago



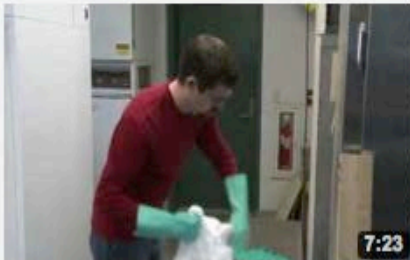
Protection from Exposure
23 views 1 month ago



Orchard Airblast Sprayer - Virginia
22 views 3 months ago



Twelve Step Program Spanish
23 views 3 weeks ago



WPS: Early-Entry Workers
21 views 1 month ago



Aerial Applicator
20 views 3 weeks ago



Homeowner's guide to pesticide sa...
19 views 1 month ago



Core Exam Revision

MountainWest PEST – Sandra McDonald

- Steve Antunes-Kenyon
- Candace Bartholomew
- Erin Bauer
- Betsy Buffington
- Mark Christianson
- Faye Golden
- Sharon Gripp
- Pierce Hansen
- Darrell Hensley
- Dean Herzfeld
- Marjorie Lewis
- Bob Lucy**Canada
- Drew Matthews
- Kristine Schaefer
- Andrew Thostenson



PACT 2013 – St. Paul, MN

ctaginfo.org/PACT2013

- Michelle Arling
- Carol Black
- Betsy Buffington
- Mary Kay Ferguson
- Tana Haugen-Brown
- Dean Herzfeld
- Kevin Keaney
- Rachel Maccini
- Jack Peterson
- Leo Reed
- Kay Sargent
- Joe Spitzmueller
- Margaret Tucker
- Dan Wixted



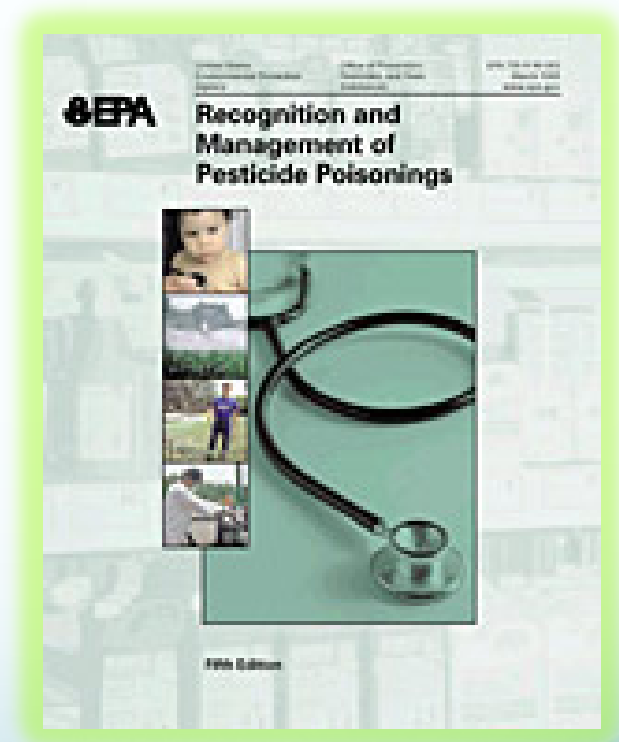
6th Edition

Recognition and Management of Pesticide Poisonings

Roberts and Reigart

- ❖ Updated information
- ❖ New chapter on chronic effects

- Copy-editing
- Publication Design
- Printing





Latin America Operator Safety

Good pesticide handling practices for a sustainable, safe, and healthy agriculture

MANUAL PARA APLICADORES Y AGRICULTORES

MANUAL
BUENAS PRÁCTICAS DE MANEJO DE
PLAGUICIDAS PARA UNA AGRICULTURA
SOSTENIBLE, SEGURA Y SANA

© 2012 CropLife PDE nitro profesional

USO CORRECTO DE PLAGUICIDAS

Siga estos 9 pasos

- 1** Informe a todos de comprar un plaguicida y sólo compre en establecimientos autorizados y de buena reputación.
- 2** Transporte los plaguicidas separados de las personas, animales domésticos y alimentos.
- 3** Almacene los plaguicidas en forma separada, en un lugar con ventilación, fuera del alcance de los niños y bajo llave.
- 4** Lea cuidadosamente las instrucciones de uso en la etiqueta y en el paquete.
- 5** Utilice Equipo de Protección Personal (EPP) durante la mezcla y la aplicación de los plaguicidas en el campo.
- 6** Una vez utilizado el producto, lave el equipo lavado en un recipiente separado de la mezcla en el tiempo de aplicación, luego perfum el equipo que almacene agua o alimentos en él, lavarlos y lavarlo al centro de acopio más cercano.
- 7** Al aplicar el producto asegúrese de estar protegido, utilice equipo controlado y no haga esfuerzos en horas tempranas o al final de la tarde y cuando hay mucho viento, no comen, beban o fumen durante la aplicación.
- 8** No consuma bebidas de agua o el ambiente por un mal uso de los plaguicidas o sus envases.
- 9** Luego de aplicar los plaguicidas, lávese con agua y jabón y pongase ropa limpia. Lave el equipo de aplicación y el EPP utilizado.

En caso de intoxicación, aplique los primeros auxilios de la etiqueta; lleve inmediatamente al paciente al centro médico más cercano y lleve consigo la etiqueta del producto.

Repita estos pasos 3 veces

¡Enjuague tres veces sus envases vacíos de plaguicidas!

- 1** Agregue agua hasta un cuarto del envase
- 2** Use siempre protección adecuada
- 3** Escorra el envase vacío colocando el cabezal del equipo por 30 segundos

Perfore el recipiente para que no pueda ser usado nuevamente. Deje secar y lávelo al centro de acopio más cercano.

Salud, Ambiente y Producción Nuestra Ocupación™

Información: Tel: (304) 224-9413 / (224) 4913 - Email: fundacion@limpiamos.org - www.limpiamosnuestroscampos.org



Migrant Clinicians Network

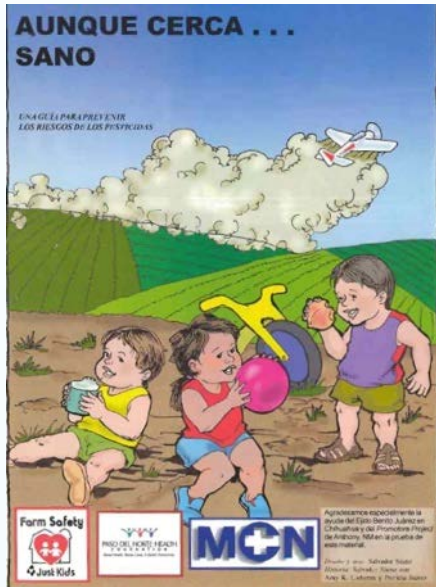
Aun Que Cerca...Sano

educates parents about children's risks to pesticide exposure and ways to minimize these risks.

Lo Que Bien Empieza...Bien Acaba helps women of reproductive age and pregnant women understand the risks associated with pesticide exposure and ways to minimize exposure.

Poco Veneno...¿No Mata?

offers family-based information on what pesticides are, why one should be concerned about pesticide exposures, how to minimize pesticide exposures and how to respond to a pesticide poisoning.





Good Neighbor Practices

University of Florida Ag-School Interface

schoolipm.ifas.ufl.edu/
Florida/goodneighbors.htm

Good Neighbor Practices - Agricultural Pesticide Operations Near Schools

Jennifer L. Gillett-Kaufman, Faith M. Oi & Steven C. Lands
University of Florida
Entomology & Nematology Department
Gainesville, Florida
gillett@ufl.edu foi@ufl.edu lands4210@ufl.edu



CEU Module for Pesticide Applicators

Where do I go if there is a drift incident?

CALL:
Person Contact (800-222-1222)
Florida Department of Agriculture and Consumer Services (386-416-5523)

BE SURE TO FOLLOW GUIDELINES SET BY YOUR COUNTY SCHOOL BOARD.

IMPROVING COMMUNICATION AMONG SCHOOLS AND NEIGHBORS

We are with you every step of the way

UF/IFAS has Extension Offices in each of Florida's 67 counties. Twelve Research and Education Centers (RECs), Research and Demonstration Sites (RDSs), and several other offices are located throughout the state.

If you need help making a communication plan or getting to know your neighbors a great place to start is your local County Extension Office. With an office located in every county, it has never been easier to partner with the University of Florida and your local County Government. To find an office near you please visit <http://schoolipm.ifas.ufl.edu/map/>.

Contact us at 352-273-3971 or on the web at www.schoolipm.ifas.ufl.edu.

Avoid pesticide drift: Have a plan!

WE HAVE BEEN FORTUNATE IN FLORIDA TO HAVE VERY FEW PESTICIDE DRIFT INCIDENTS, AS CONFIRMED BY A RECENT STATEWIDE SURVEY OF SCHOOLS. THE GOAL OF GOOD NEIGHBOR PRACTICES IS TO OPEN COMMUNICATION BETWEEN SCHOOL PERSONNEL AND NEARBY GROWERS IN AN EFFORT TO AVOID EXPOSURE OF STAFF AND CHILDREN IN THE RARE EVENT OF PESTICIDE DRIFT.

Having a plan that includes open lines of communication can help schools and neighboring growers work together to protect each other's interests.

Funding for this project provided by the National Association of State Departments of Agriculture.

NASDA

UF FLORIDA IFAS

UF UNIVERSITY OF FLORIDA IFAS Extension

Florida School IPM News

July 13, 2011 Volume 2, Number 10

Florida School IPM Focus- Good Neighbors

Can neighbors impact each other's pest management practices? Can you do IPM if the harborage and clutter next door is the source of rodents in the neighborhood? Being a good neighbor requires two-way communication. Being a good neighbor also applies to how you handle pest management at the perimeter of your school. If you have a weed management program that involves using herbicide what do you do when you share a fence with a neighbor? Some school districts may already have plans in place on how you can communicate with neighbors about these and other issues. If your school district does not please consider some of these practices for improving communication with your neighbors. Remember that communication is a critical part of a successful IPM program!

In This Issue

- Florida School IPM Focus
- Identification
- Know the Facts
- Emphasis on communication
- Post Your School IPM News!

Past Issues

Online Training Available:
<https://eces.ifas.ufl.edu/>

As always, for more information on pests or on developing an IPM program for your school or district please visit our [website](http://www.schoolipm.ifas.ufl.edu).

Looking for a place to start?
Make this your first goal: Noisy agricultural operations the time of day or special events when children will be outside — and more subject to potential exposure to drift, should it occur.

IF DON'T HAVE 'EM, MAKE A PLAN!

Principals
Know who to call in the neighborhood and in the district. Keep the numbers handy. If you suspect drift, direct children and staff away from the affected area.

1. Be familiar with and follow district procedures and emergency contacts.
2. Let your neighbor know that you suspect chemical is drifting onto school property.
3. Obtain the name(s) of the chemical(s) being applied and if possible, copies of the labels and MSDS.

Teachers
If you are looking for a way to diversify your curriculum, think about adding material on Florida Agriculture. Even if you are not neighbors with an agricultural operation, you can increase your students' knowledge of agriculture and promote Good Neighbor Practices.

Maintenance Personnel
You may not think that maintenance of school grounds could impact your neighbors but it is important to communicate with neighbors who are agricultural producers, organic farmers, or those who may require notification of pesticide applications. Remember that communication goes both ways.

Good Neighbor Practices

Start talking! Let your neighbors know about your interest in working together. Welcome their input. Talk them about regular schedules and special events on your school campus to help them make informed choices about farm chemical applications near your school grounds.

A recent survey of Florida schools identified four top methods for communication with neighbors: neighborhood newsletters, using the school marquee, phone calls with neighbors, and using the local news.

LET US INTRODUCE OURSELVES!

WELCOME TO THE NEIGHBORHOOD!

Whether pesticide drift is contained or not, drift complaints can consume valuable resources and time.

We believe that the most difficult and urgent cases of drift mitigation will occur where buffers are not practical, hence our strategy to develop Good Neighbor Practices.

Good Neighbor Practices should go hand-in-hand with your School Integrated Pest Management program.

SCHOOL IPM



Personal Protective Equipment

- **Garments and Gloves**
 - Dr. Anugrah Shaw – consultant
 - Brazil PPE Symposium
 - ISO garment standards
 - Levels 1 – daily clothes
 - Level 2 – water repellent
 - Level 3 – chemical resistant
 - Standard for Gloves
 - Upcoming research
 - Level 1 – waterproof
 - Level 2 – nitrile/neoprene
 - Level 3 – other than nitrile
- **NASDARF – revise decades old PPE brochures**
 - Include current knowledge
 - Any material presented on labels
- **Label Clarification for Consistency**
 - Work with EPA Health Effects Division and Field & External Affairs
 - Registrants
 - AAPSE, AAPCO/SFIREG

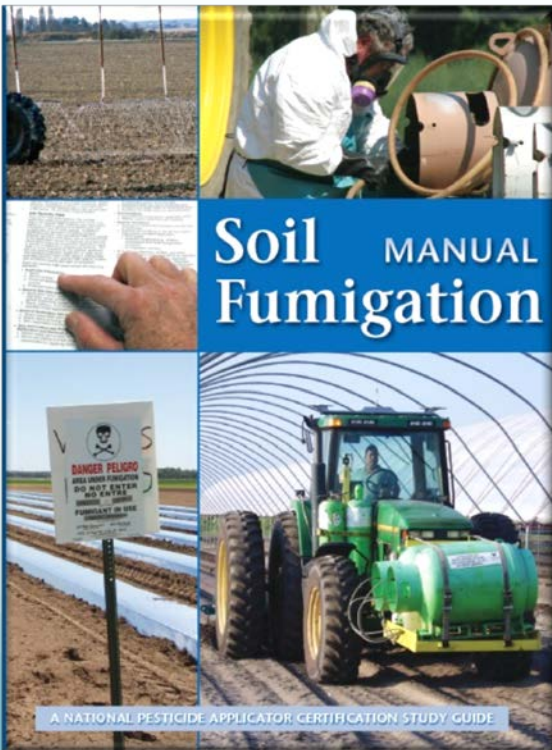
In Their Infancy

- Core Manual Revision
- WPS Handler Training Conference
- Manual Writing Workshop
- Exam Development Workshop





What Can NASDARF Do for Applicator Certification?





Carol Black

carol@nasda.org or carol.black208@gmail.com

208-301-3654 Pacific Time

