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
States not Represented:
Florida
Illinois
Kentucky
Mississippi
New Jersey
Oklahoma
West Virginia
Wyoming

Exam Development Workshops
## Exam Workshop

### Years in Service

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<td>&lt; 6 months</td>
<td>12%</td>
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<td>0.5 to 5 years</td>
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<td>&gt; 15 years</td>
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Enhanced Exam Development and Revision Skills

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Notebook Quality

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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
State Implementation Efforts

Up to $5,000

1. Ag Animal (1)

2. Aquatic (3)

3. General Household/Structural (1)

4. Private Applicator (4)

5. Right of Way (5)

6. Soil Fumigation (4)

7. Wood Treatment (1)
### Total Applicators

**All States 2011 -- Applicator Totals Report**

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YouTube™ pesticide videos and Kodak® camera instructor guide
www.youtube.com/pesticidevideos
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
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.
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?
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208-301-3654 Pacific Time