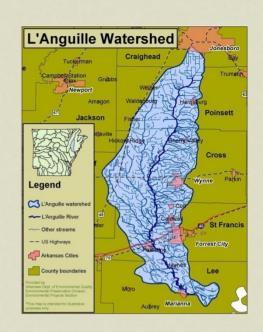
05-1400 Abandoned Pesticides Project – L'Anguille Watershed



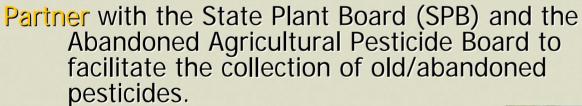
Suzanne Smith Hirrel



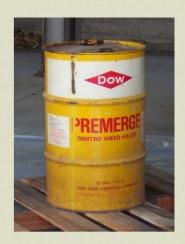
Cooperative Extension Service

Goals

Educate producers of the dangers and risks of old abandoned pesticides and of the opportunity to participate in Agricultural Pesticide Collection Event(s).











Goals

Define a protocol for self-assessments to ensure privacy of producer, but provide a list of types, quantities, and packaging characteristics of pesticides - to insure that pesticides posing the greatest risk are disposed of.

Determine cost projection for collection and disposal of surveyed pesticides utilizing the *Abandoned Agricultural Pesticide and Plant Regulator Disposal Trust Fund* of the SPB.

Measure the effectiveness of the educational program based on pounds of pesticides collected and producer/landowner participation.





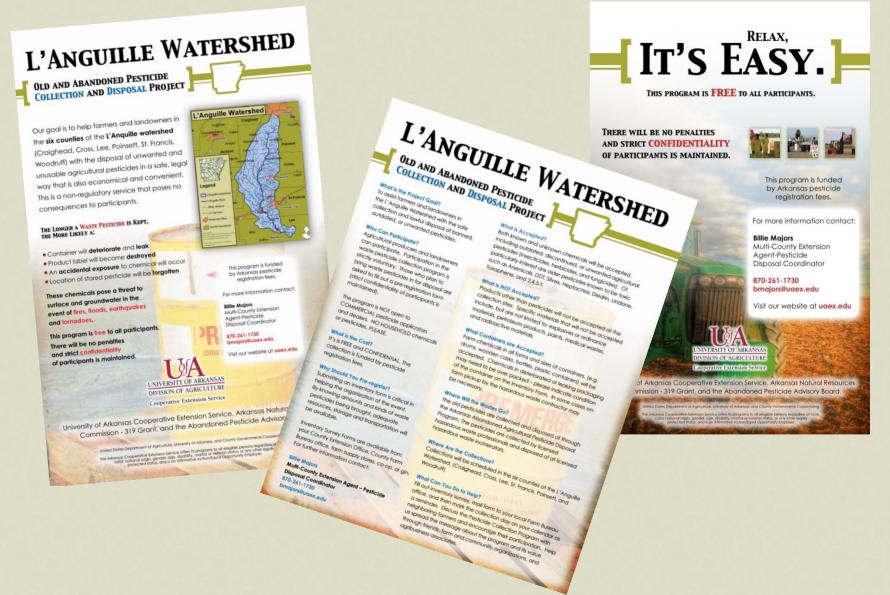


Educational Materials Developed

- Posters
- > Letters
- > Flyers
- > Handouts
- News releases
- Radio scripts

- > PowerPoints
- Displays
- > Web site
- Incorporated into PAT
- News articles
- > Info in newsletters
- > Fact sheets

Educational Materials



Educational Materials



Agriculture and Natural Resources

ESA9522

Pesticide Storage, Safety and Disposal

Suzanne Smith Hirrel Extension Specialist/ Associate Professor -Environmental Management

Billie Majors County Extension Agent -

No matter how well agricultural producers calculate their pesticide needs, there is always the possibility they will end up with chemicals that cannot be used. The most common reasons for these unusable pesticides are lost labels, registration cancellation and exposure to extreme cold

While it is not illegal to possess canceled or unusable pesticides if properly stored, it is often illegal to use canceled pesticides. Caution should be taken with these chemicals, or users may be subject to fines and/or cleanup costs if containers leak and contaminate soil, water or other resources.

The Arkansas State Plant Board, with support from the Arkansas Natural Resource Commission, the University of Arkansas Division of Agriculture Cooperative Extension Service and the Arkansas Farm Bureau, have piloted a program to help Arkansas farmers dispose of unwanted pesticides at no cost. In 2006 and 2007, the Abandoned Pesticide Trust Fund funded collection events in nine counties. These events collected and

disposed of 231,712 pounds of unwanted and unusable pesticides.

This program is open to all agricultural producers and landowners free of charge, Commercial pesticide applicators and dealers do not qualify for the program.

Funding for this program comes from pesticide registration fees paid by chemical manufacturers. However, funding is limited, so the program has not yet been offered statewide. Counties with large agricultural production are being targeted first for collection events.

Waste pesticides are collected by licensed hazardous waste professionals and disposed of in licensed hazardous waste incinerators or landfills.

Guidelines for Safely Storing and Disposing of Waste Pesticides

Take an inventory of all waste pesticides. A sample inventory form is in this fact sheet or can be obtained from www.usex.edu or from your

Accepted Materials Pesticides will be accepted in any

containers:

- Pesticide mixes Unknown pesticides
- Metal pesticide containers

Materials Not Accepted Any non-pesticide material such as:

- Explosive or ordnance materials
- Radioactive materials
- Household chemicals Petroleum products
- Medical wastes

· Paints

- Fertilizers Solvents

UNIVERSITY OF ARKANSAS
DIVISION OF AGEICULTURE Cooperative Extension Service

Agriculture and Natural Resources

Helpful Tips and Insight Into Making an Agricultural Waste Pesticide Collection Event Successful FSA9525

Management

Billie Majors County Extension Agent*

Concerns about unknown quantities of abandoned and outdated pesticides stored on Arkansas farms led to the creation of the Abandoned Pasticide Advisory Board and Trust Fund in 1999. The Board and Trust Fund operate under the authority of the Arkansas State Plant Board. Financial support for the trust fund comes from registration fees paid by chemical companies that register pesticide products in the state.

The Abandoned Pesticide Advisory Board selects counties for collection events. They base the selection on kind and amount of agriculture in the county, watershed location and inquiries and input from county agents, farmers and local officials. Over the past two years, approximetaly six to nine counties have hosted collection events each year.

Once a county is chosen to host an old and abandoned agricultural poeticide collection, a little organization can go a long way in being prepared for a successful event.

Planning in advance can help relieve much of the stress that comes with organizing any event, and the most important thing is to give yourself plenty of time to advertise and premote the collection.

This project will take place in four (4) phases:

- Phase one is the planning phase.
- Phase two is publicity and promoting the program.
- Phase three is the collection and evaluation of inventory forms. 4. Phase four is the collection day.

Phase 1 - Planning

The State Plant Board representative or an Abandoned Pesticide Advisory Board member will contact county officials about holding a posticide collection in the county. Forming an advisory or coordinating committee to provide local input, buy-in and coordination is a good way to keep an open line of communication. Committee members may include the county judge, Office of Emergency Services, Cooperative Extension Service, Conservation District, NRCS, Farm Bureau representative, producers and other agriculture support organizations/agencies (i.e., watershed groups, cattlemen's associations, agricultural consultants, chemical suppliers, well service companies, banks, etc.).

The committee will want to select a site to hold the event. The site should be a well-known location.

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University of Arsonaus, United States Department of Astrontium, and County Governments Cooperating

Program Outreach

- Mailing/phone/personal communication
- Presentations
- Exhibits displays

 Poster presentation at the Southern Regional Extension
 Water Conference



Assessment Forms

- Survey forms
 - Top half with farm name, etc.
 - Bottom half pesticide info
 - Amount, container condition, chemical type, chemical name
- Survey forms were submitted to County Farm Bureau Office
 - Top info separated from bottom info
 - Only FB agent knew the identities
- Somewhat problematic
 - Inaccuracies in estimating amounts



Accomplishments













Pesticides Collected in L'Anguille Project

| County | 2006 | | 2007 | |
|-------------------|-------|-------------|------|-------------|
| Craighead | 6/3 | 4,986 lbs.* | 3/14 | 8,705 lbs. |
| Woodruff | 6/28 | 4,602 lbs.* | 3/13 | 6,311 lbs. |
| Poinsett | 9/28 | 27,298 lbs. | 3/28 | 10,569 lbs. |
| Lee | 10/10 | 10,898 lbs. | 11/7 | 11,785 lbs. |
| St. Francis | 10/11 | 1,018 lbs. | 11/8 | 15,925 lbs. |
| Cross | 10/12 | 10,259 lbs. | 11/9 | 19,471 lbs. |
| Total 131,827 lbs | | 59,061 lbs. | | 72,766 lbs. |

^{*} No education prior to these collections



Collection Dates/Costs

| County | 2006 | | 2007 | |
|-----------------|-------|-----------|------|-----------|
| Craighead | 6/3* | \$8,734 | 3/14 | \$13,011 |
| Woodruff | 6/28* | \$9,179 | 3/13 | \$10,258 |
| Poinsett | 9/28 | \$38,390 | 3/28 | \$15,154 |
| Lee | 10/10 | \$16,807 | 11/7 | \$16,553 |
| St. Francis | 10/11 | \$4,171 | 11/8 | \$23,614 |
| Cross | 10/12 | \$27,998 | 11/9 | \$25,392 |
| Total \$209,261 | | \$105,279 | | \$103,982 |

Staffing & Local Support

- A multi-county agent coordinator
 - working in 6 counties
- County agents 6 counties
- Extension Specialists



 Local planning committees – Co. Judge, Emergency Services, Farm Bureau, Co. Agents, others (CD, NRCS, farmers)

Do Different

- More lead time in the early collection
- No collections during planting or harvest
- Discontinue use of Assessment Forms





Challenges

- Gaining the producer/landowner trust of the process
- Finding suitable locations for collection events
- Keeping staff in "soft money" positions





Questions ???









