

# The Pesticide Disposal Assistance Program

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February 14, 2011

# Pesticide Disposal Assistance Program: N. C. was very 1<sup>st</sup> in Nation!

Assist Farmers and Homeowners directly by maintaining capabilities for the safe & effective disposal of potentially large quantities of highly toxic and/or environmentally persistent pesticides.



## Pesticide Disposal Assistance Program

- Statewide hosting of collection events
- Special case onsite evaluation
- Household hazardous waste assistance



For a collection site near you go to:  
[www.ncagr.com/pdap](http://www.ncagr.com/pdap)  
For Pesticide Disposal Assistance Call:  
919-733-7366 or 919-733-3556

North Carolina Department of Agriculture and Consumer Services  
Steve Troxler, Commissioner



# Program Outline

- In 1980, NCDA&CS created the first Pesticide Disposal Assistance Program.
- The Program was established to provide a proper pesticide disposal option for farmers, homeowners, and institutions.
- Pesticide Disposal Budget = \$353 K with approx half attributed directly to disposal cost.

# Timeline

- 1980
  - Curb-side collection
  - Pesticide Inspectors collect from individual farms/homes
  - \$25 K budget
  - Inspectors transport material to central location for later disposal





# Timeline continued

- **1995**

- “Milk Run” – Satellite Buildings with Curb-Side Collection
- Inspectors still collecting Curb-Side
- Inspectors transport material to Satellite buildings
- Disposal Contractor hired to Perform “Milk Runs”
- Cost = \$2.05/lb with Bulk Drum = \$290/drum

# Timeline continued

- **1997**

- Single Day “Pesticide Disposal Collection Days”
- Program personnel reduced (2-3 specific people)
- Began using Universal Waste Codes
- Inspectors assist, but do not collect
- Disposal Contractor hired on contract
- Cost = \$1.00 per pound!! With Bulk Drum = \$175/drum

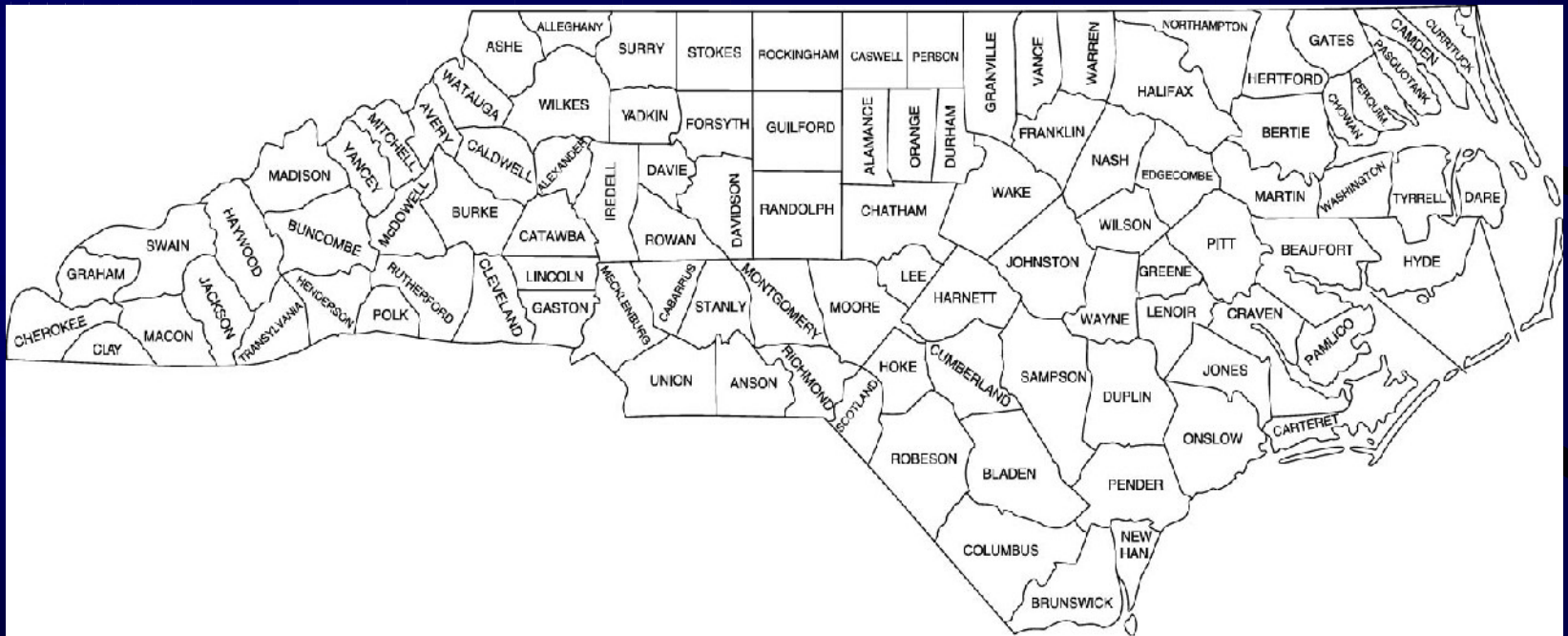
# Program Breakdown

## 3 Main Facets

- **70-75%** Single Day Collection Events
- **25-30%** HHW/Permanent Collection Sites
- **5%** Curb-Side



# NC Geography













# WEEDONE

CAUTION KEEP OUT OF REACH OF CHILDREN  
SEE OTHER CAUTIONS ON RIGHT SIDE PANEL

\$ 3.30

CONTENTS

**BK**  
**32**

ONE PINT  
473 ml.

WOODY PLANT  
HERBICIDE

ACTIVE INGREDIENTS:

2,4-Dichlorophenoxyacetic acid 11.0%

2,4,5-Trichlorophenoxyacetic acid 22.0%

INERT INGREDIENTS 67.0%

\*\*2,4,5-Trichlorophenoxyacetic acid equivalent 7.8% by weight or 1% ounce per gallon

\*\*2,4-Dichlorophenoxyacetic acid equivalent 15.7% by weight or 1.5% ounce per gallon



AMCHEM PRODUCTS, INC.

PO Box 1000, Newark, NJ 07102

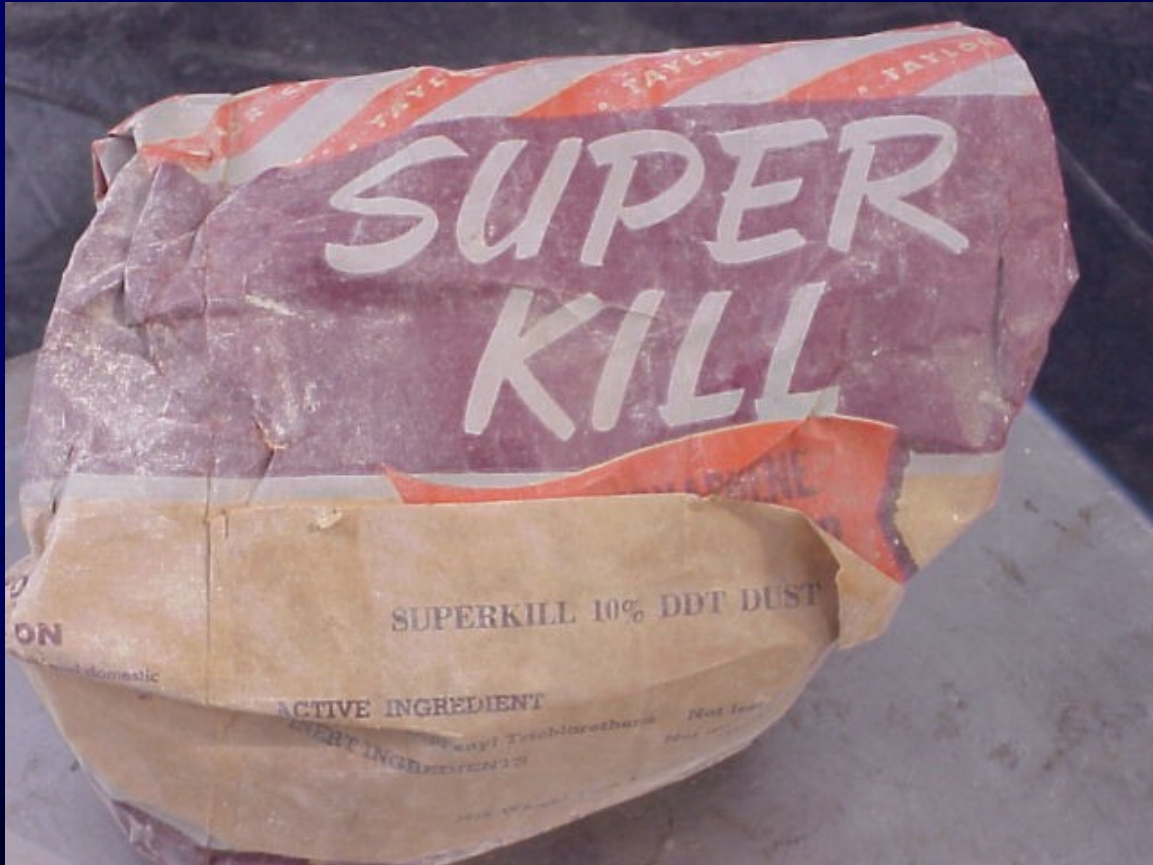
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**SUPER  
KILL**

**SUPERKILL 10% DDT DUST**

**ACTIVE INGREDIENT**

**INERT INGREDIENTS**

100% DDT (Dichloro-Diphenyl-Dichloroethane)

Not for use on...

**ON**

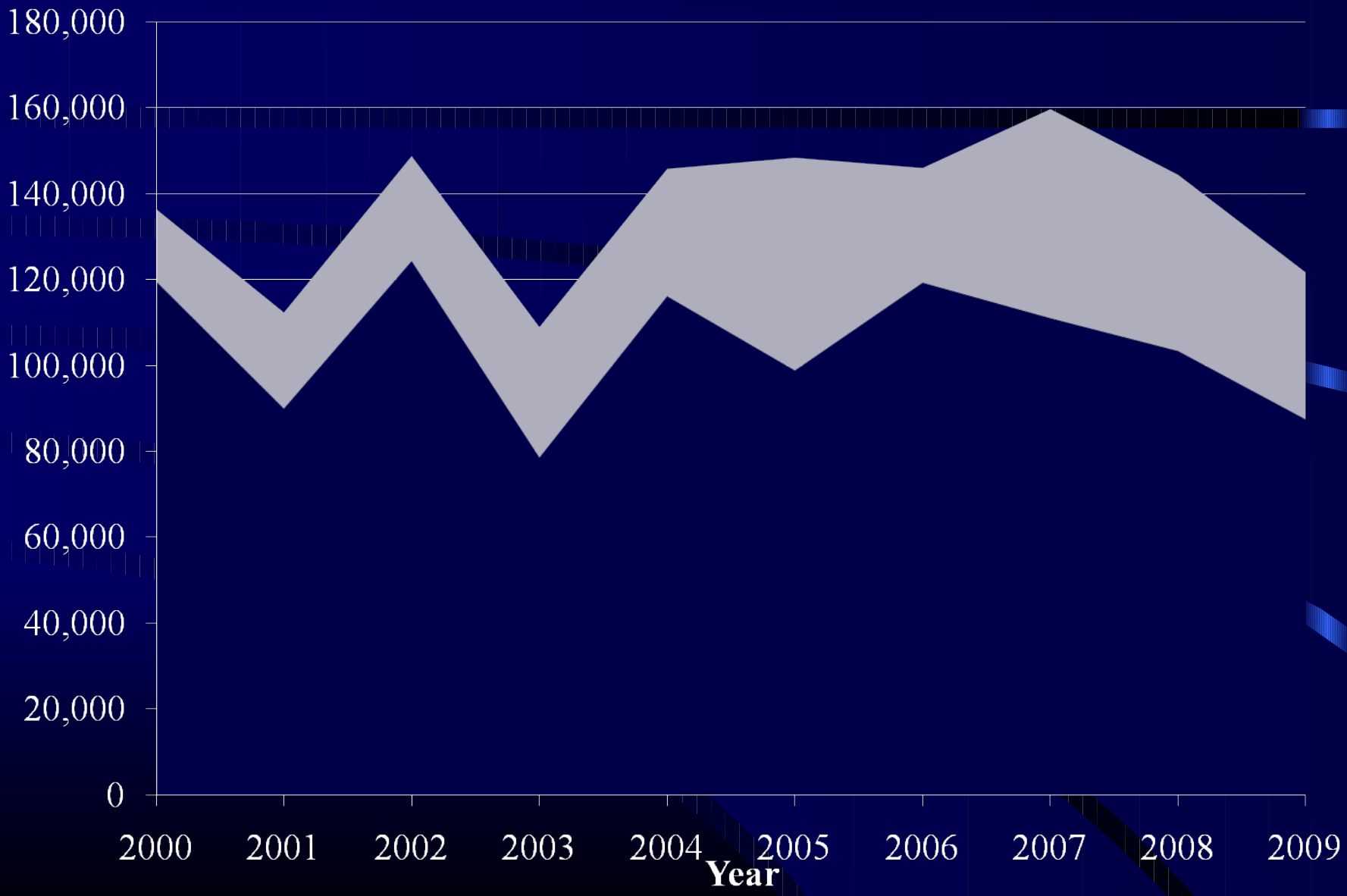
domestic





# POUNDAGE COMPARISONS

■ Ag Lbs ■ HHW Lbs



# Household Hazardous Waste Permanent Collection Sites

- 25-30 Sites in NC currently have HHW Programs
- Permanent facilities with varying days/hours operation
- Temporary sites for Annual or other events
- 20-25 Sites utilize our Program to assist with Pesticide Disposal
- Between 10-20 additional sites preparing to have HHW events/facilities









# Paint....



...and more paint..





# E-waste



# ...batteries,...





...and Pesticides.



# Curb-Side Always There

- In North Carolina, Curb-Side is
  - Not Cost Effective
  - Not an Efficient Utilization of Resources
- We Limit Curb-Side Collection to Special Situations based on
  - Amount of material (over 2,000 lbs, visit with Contractor)
  - Participants extenuating circumstances
  - Location of material (geographically)
  - Timing (if we will be in the area)







# Requests for Assistance

- Have you tried your county's HHW Program?
- Let's check our Disposal Day Schedule ([www.agr.state.nc.us/fooddrug/labprog.htm](http://www.agr.state.nc.us/fooddrug/labprog.htm))
- Let's work together to resolve this
  - **Contact HHW sites**
  - **Contact local CES & local Pesticide Inspector to store in Satellite Building until Program is in Area**

**WE WILL DO WHATEVER IS NECESSARY TO ASSIST**













# Other Topics

- Hurricane Floyd and Flooding – 1999
  - Over 20 K Pounds Collected from 10 Eastern NC Counties over a 6-month period following the Hurricane
  - Joint effort with the NC Dept of Natural Resources
  - Still receiving Flood damaged material
- EPA Target Chem List

YEAR	2000		
	Spring	Fall	Year Total
CHEMICAL	(lbs.)		
Alachlor	827.2	94.8	922.0
Atrazine	3638.3	166.9	3,805.2
Carbaryl	1748.6	272.8	2,021.4
Chlordane	159.3	188	347.3
Chlorpyrifos*	*	260.4	260.4
DDT	716.2	230.1	946.3
Diazinon*	*	442.2	442.2
Dieldrin	9.6	23.2	32.8
Dinoseb + Naptalam	636.6	22.4	659.0
Endrin	31.7	40	71.7
Lead Arsenate	54.2	223.4	277.6
Methoxychlor	217.8	107.1	324.9
Metolachlor	262.1	21.2	283.3
Pendimethalin	667.1	55.4	722.5
Pentachlorophenol	76.7	19.2	95.9
Silvex	14.1	12.3	26.4
Simazine	620.8	199.5	820.3
Toxaphene	388.7	378.5	767.2
Trifluralin	548.3	222.8	771.1
2,4-D	1640.6	288.3	1,928.9
2,4,5-T	384.5	33	417.5

43 COLLECTION DAYS IN YEAR 2000

2000 TOTAL OF 151,078 POUNDS OF PESTICIDES  
TOTAL OF 15,944 POUNDS OF TARGET PESTICIDES



# Other Topics

- “Unknowns”
  - Normally none received
  - If so, Program personnel, CES, Contractor can determine ID
  - If no ID can be determined,
    - **Participant is given safety material**
    - **Asked to retain material until ID can be established**
- ID over the phone?

# 2,4-Dinitrophenol

- CAS # 25550-58-7
- Properties:
  - yellow crystals, slightly soluble in water, maintain wet
- Uses:
  - lumber preservation, dyes, insecticide, picric acid
- Hazard:
  - severe explosion hazard when dry
  - absorbed thru skin
  - dust inhalation may be fatal

# We Will Do Whatever Is Necessary To Assist You

- J. Derrick Bell, LG, CHMM
- Pesticide Disposal Assistance Program
- Phone: 919-733-3556
- Email: [Derrick.Bell@ncagr.gov](mailto:Derrick.Bell@ncagr.gov)