

Overview of Surveys of Residential Pesticide Use and Sales in Orange and Sacramento Counties, California

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History

TMDLS

FINGER
POINTING

DPR ASKS
UC FOR
SURVEY

SURVEY
IN OC

REPORT
TO DPR

SURVEYS IN SAC/OC/SD

BACKGROUND

✍ Central Orange County

- Mixed use of agriculture, industry, residential
- Nurseries and agriculture have discharge permits

✍ San Diego Creek Watershed



Telephone, Sales, and Shelf Survey

Telephone

- Conducted between August 29 and October 3, 2000
- Samples were proportional to number of households in each city

Sales

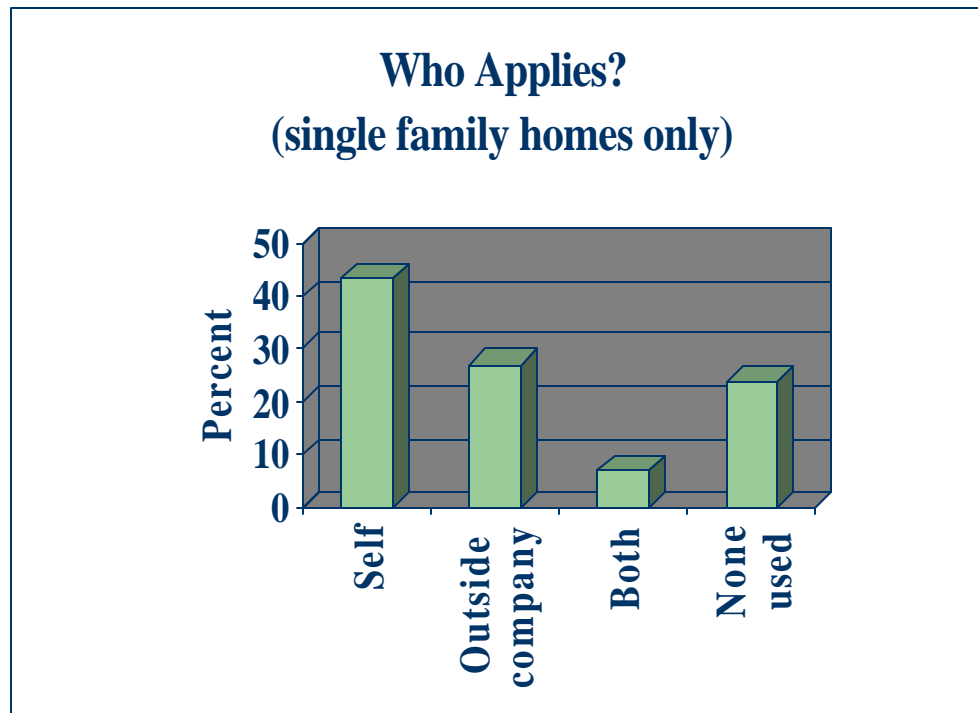
- Data volunteered from a local hardware chain and a retail nursery

Shelf

- In store inventory

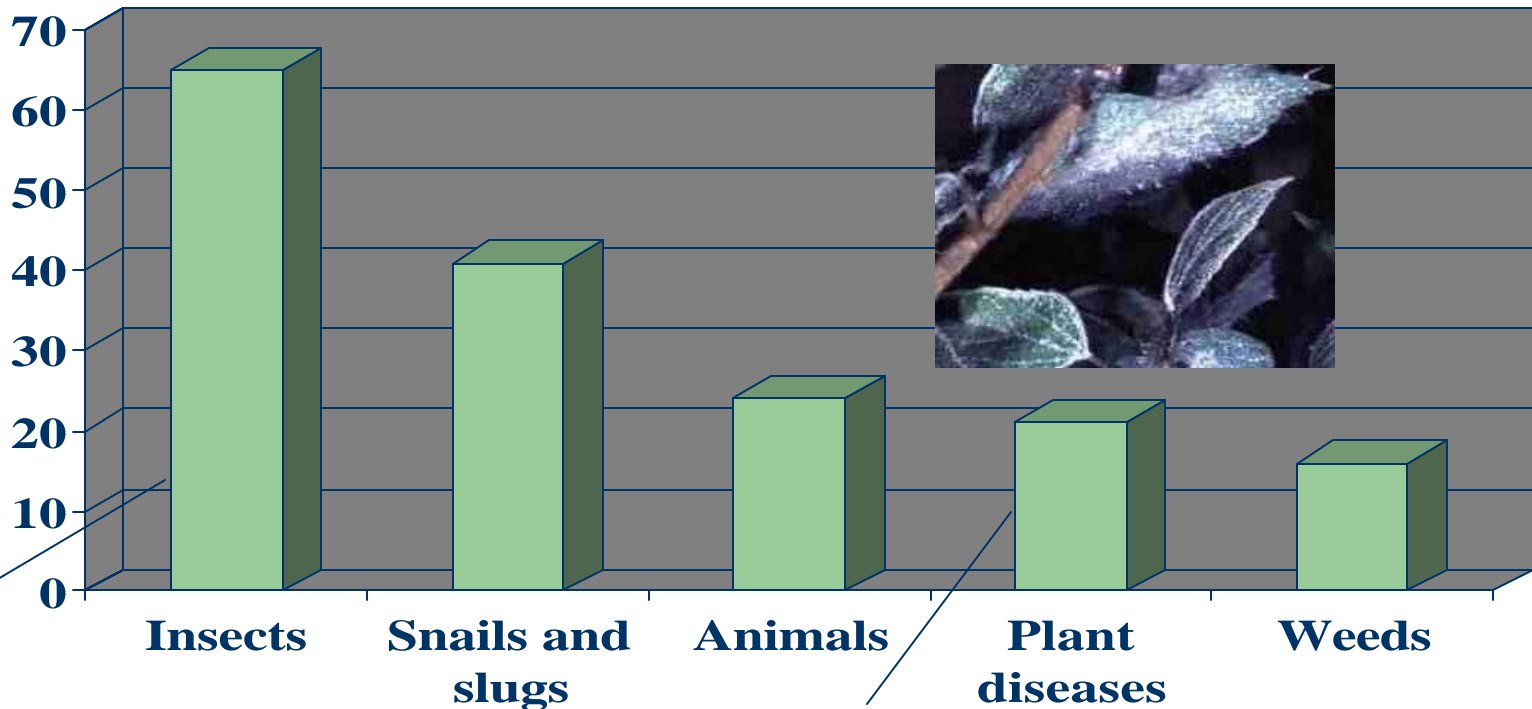
Housing

- ✍ Major predictor of who applies is whether the resident owns or rents and if it is a single family home.





Major Outdoor Pest Problems

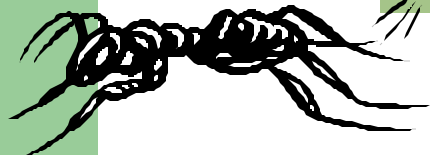


79% ants

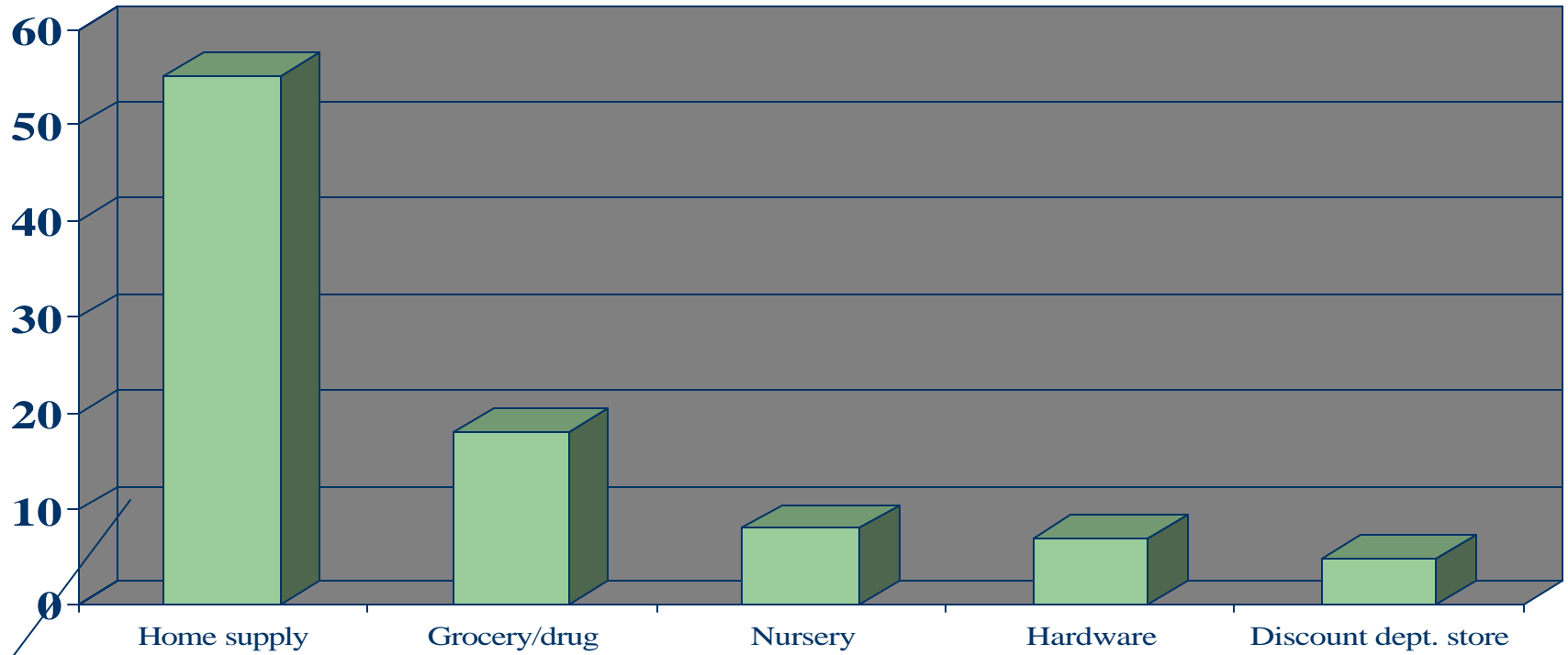
31% misidentified GWF as a disease

Use and Formulation

- ✎ Ants were the problem where people were most likely to use a pesticide (48%) followed by snails/slugs (13%)
- ✎ 50% of pesticides used in previous 6 months were ready to use sprays (aerosol)



Where Purchased?



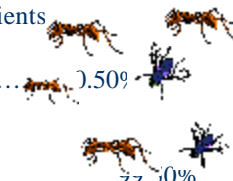
Home Depot 49%

Choice of Product and Pesticide Label

- ✍ Primarily read what the product controls
- ✍ Active ingredient was the item least likely to influence choice of product
- ✍ Many choose product based on convenience (coupon, RTU, etc.)

**KILLS BUGS FAST!
KEEPS ON WORKING FOR 8
WEEKS!**

Active Ingredients
Piperonyl
butoxide 0.50%



Inert
ingredients 99.50%

KEEP OUT OF REACH OF
CHILDREN

CAUTION

NET WT. 1 LB.

DIRECTIONS FOR USE

STORAGE AND DISPOSAL

PRECAUTIONARY
STATEMENTS

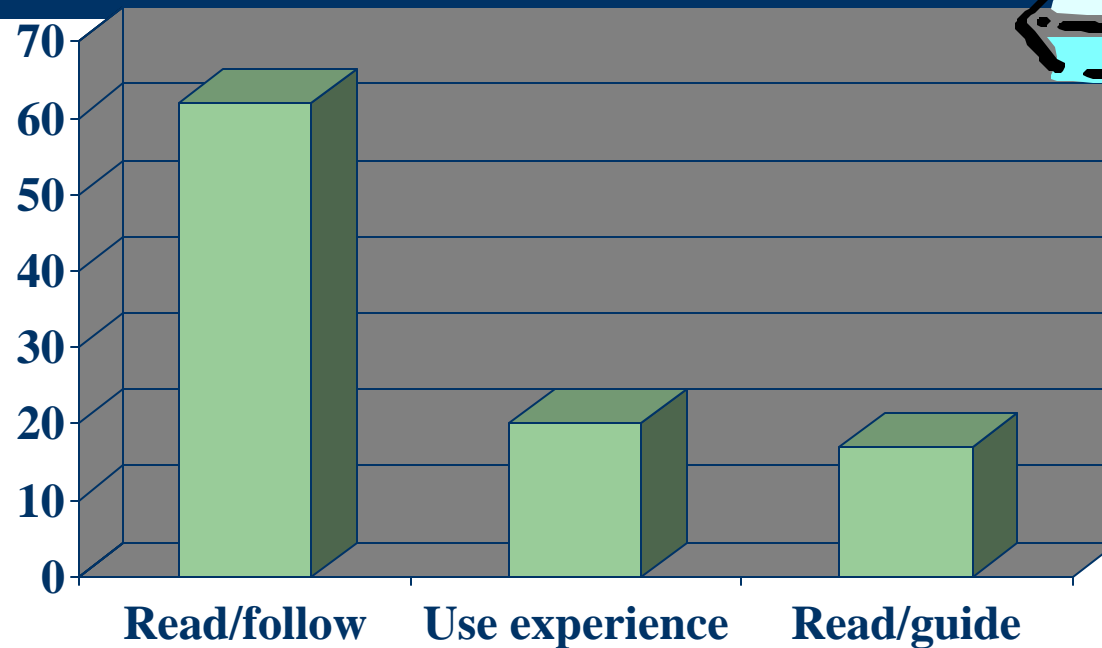
Made for Green City Chemicals,
P.O. Box 11234, Anytown USA
01010

EPA Reg. No. 1234-123-1234
EPA Est. No. 1234-XX-1

12345 1234567 123456

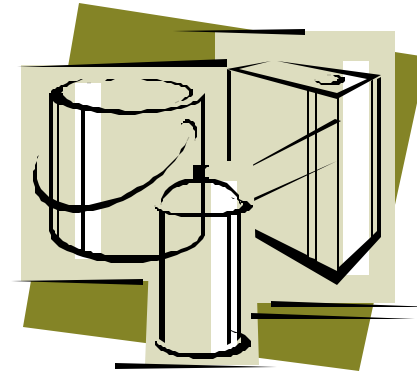
Measuring

How to decide how much to use?



BUT: only 38% actually measure out the correct amount to use

Storage



- ✍ 81% had 1-5 pesticides stored in/around house
- ✍ 10% had more than 6
- ✍ 71% had pesticides 1-3years old
- ✍ 24% had pesticides older than 3 years

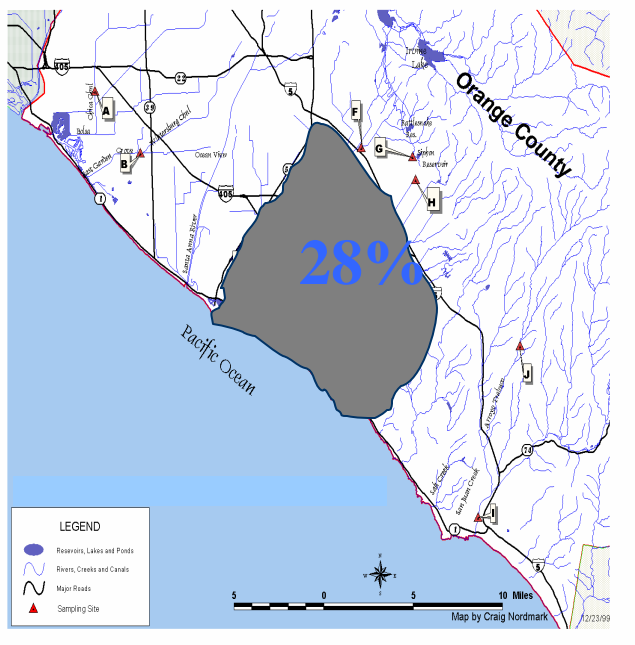


Indicates storage and disposal may be a problem

Also indicates that what is sold does not predict what is used

Unreported use in County

Assuming that all the unreported residential sales were used, then estimate of **total unreported use in OC:**



Blue=estimate of amt SOLD (from survey)

Green=amt APPLIED (from DPR)

chlorpyrifos 710/.28=2536 lb

2536+32503=35039

2536/35039*100=7.24%

of chlorpyrifos is unreported use

diazinon 10104/.28=36086 lb

36086+29895=65981

36086/65981*100=54.69% of

diazinon is unreported use

Key Findings



- ✍ **Non-commercial users that owned single-family home were the most likely to apply pesticides themselves**
- ✍ **Most pesticides are purchased at large home supply stores**
- ✍ **Most respondents stored pesticides 1-3 years**
- ✍ **Unused pesticides are thrown in trash rather than taken to HHWF**
- ✍ **diazinon > chlorpyrifos**

