

# Creating Incentives for IPM Adoption in California Schools and Child Care Centers

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*Leadership is getting people to do what you want them to do because they want to do it.*

—Dwight Eisenhower

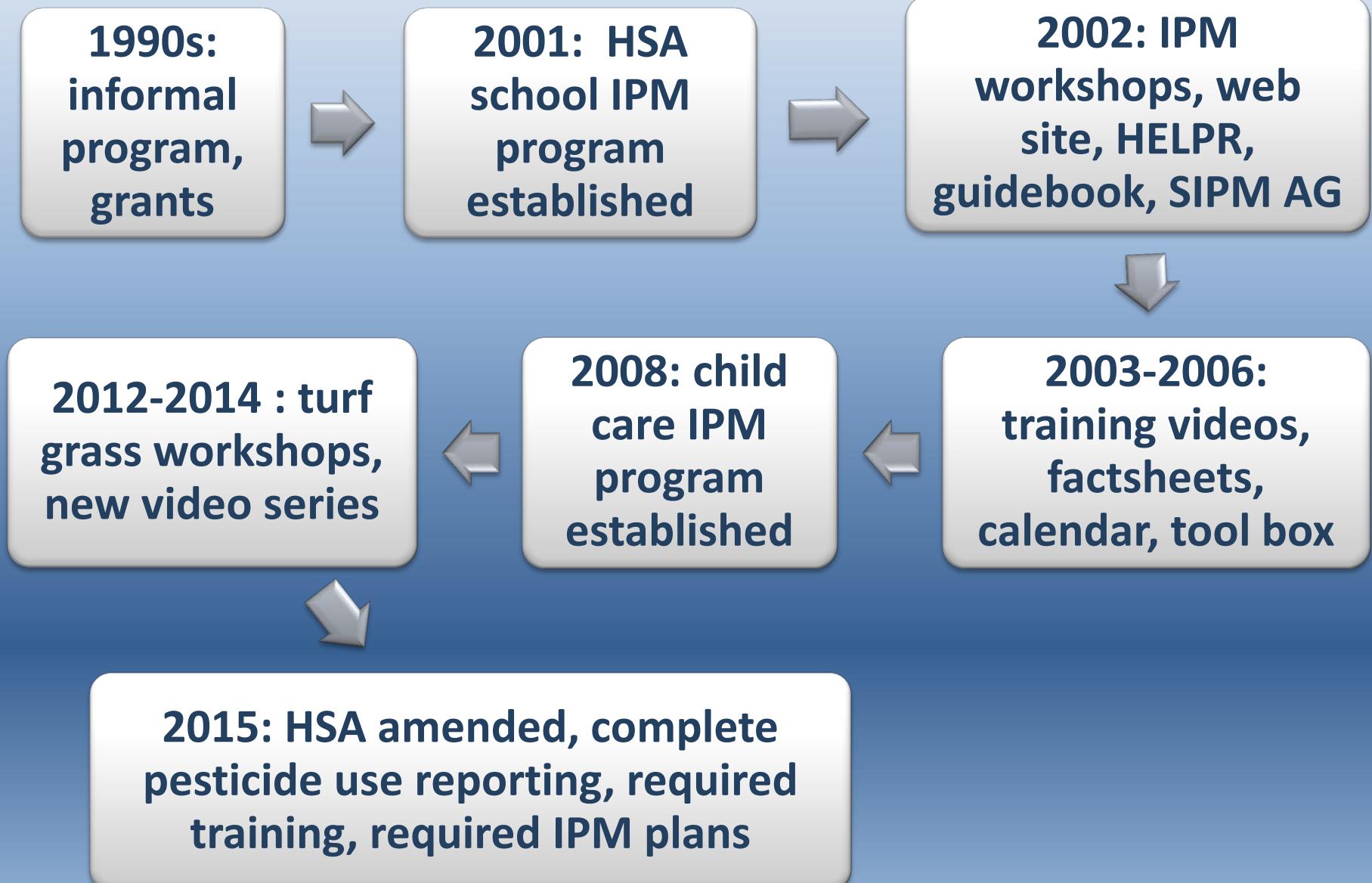
# Outline

- Overview
- DPR's Schoolsite IPM training and resources
- Information gathering
- New Healthy Schools Act (2015)
- Future efforts
- Summary

*“It’s so easy!”*

*— Tom Babb, 2015*

# Overview



# Challenges

- IPM is voluntary
- Training is voluntary
- No enforcement provisions (for IPM)
- Large numbers - schools and child care
- Diversity in size and setting

# Schoolsite IPM Resources

**Making IPM adoption easy (so they want to do it):**

- **Train-the-trainer workshops**
- **In-person specialized training**
- **Outreach & education resources**
- **School and Child Care IPM web sites**
- **Training videos**

# School & Child Care IPM Programs

## Train-the-Trainer Workshops:

In-person, hands-on, interactive, entertaining, training workshops at schoolsites with a nice lunch and snacks!



Weed Evaluation



Gopher Trapping

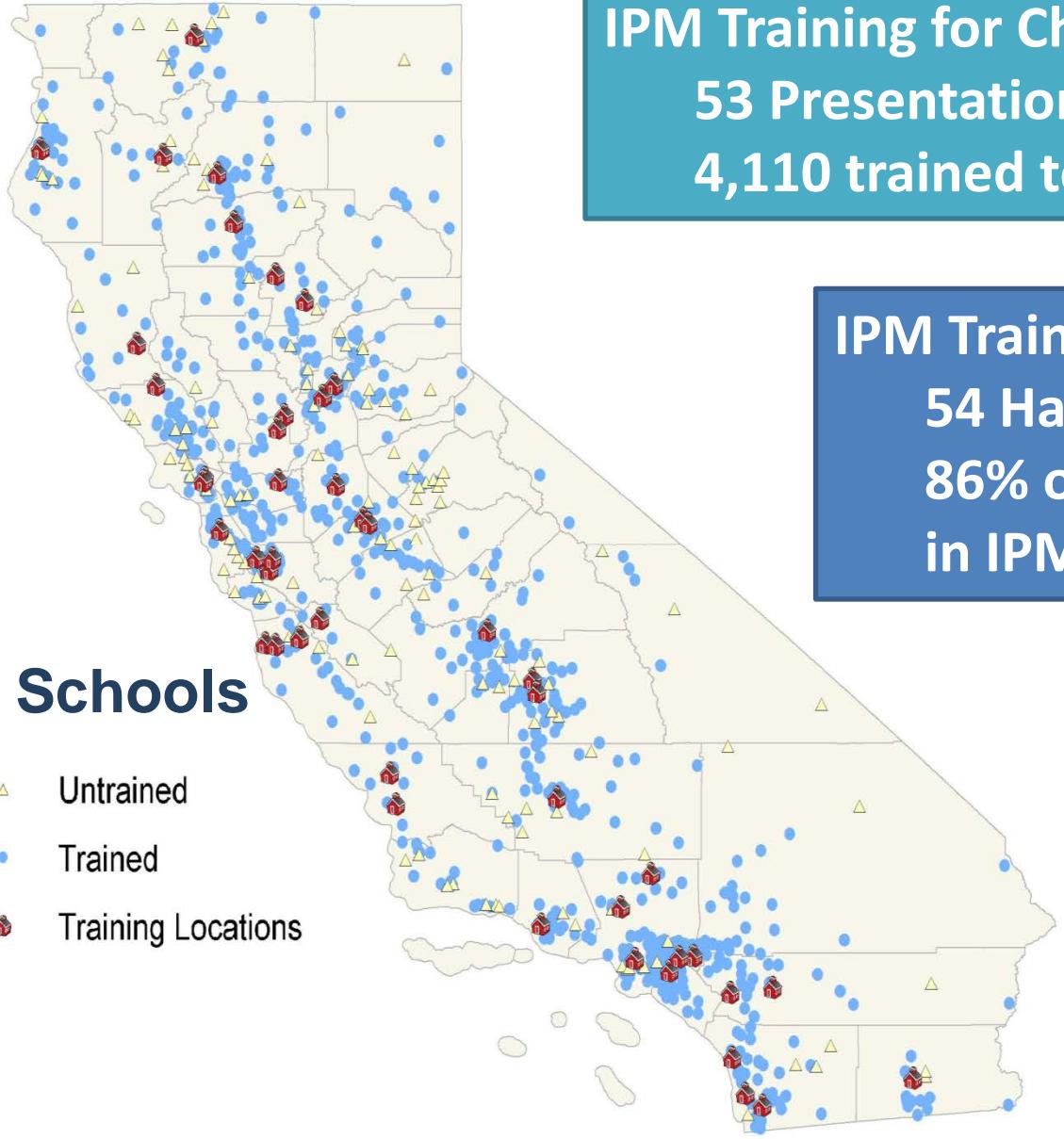


Child care center  
Kitchen Inspection



School Kitchen Inspection

# Hands-on Train the Trainer Workshops



**IPM Training for Child Care Providers**  
**53 Presentations**  
**4,110 trained to date**

**IPM Training for School Districts**  
**54 Hands-on Workshops**  
**86% of School Districts trained in IPM, to date**

# In-Person Specialized Workshops

- **½ day, focused on single subject**
  - Turfgrass
  - Other subjects planned
- For advanced IPM practitioners
- University of California presenters



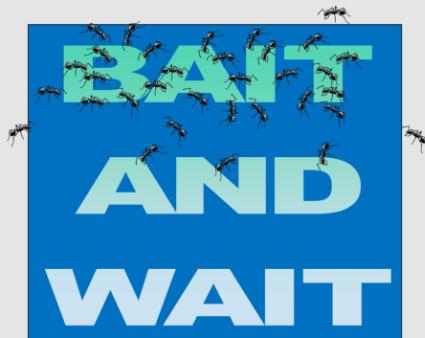
# Outreach and Education: Train-the-Trainer Tools

SIPM  
Resource  
Starter  
Kit  
AKA  
“Toolbox”



# Outreach Materials

- Posters
- Recordkeeping calendars
- IPM curricula
- Pest fact sheets
- IPM guidebook



Ant baits provide long-term control – sprays don't.

#### How do ant baits work?

- Insecticides mixed with bait are placed inside bait stations.
- Foraging ants take the bait back to the nest to feed other ants.
- Don't get impatient. It can take weeks to kill the entire colony.

#### How can you help?

- Keep food in sealed containers.
- Clean up crumbs and spills.
- Don't spray insecticides near bait stations.



## Integrated Pest Management

SCHOOL RECORDKEEPING CALENDAR 2014–2015



# Video Series

- Focus on IPM training
- Extension of train-the-trainer
- Very similar to T2 workshops
- Audience-specific
  - Child Care IPM, series of seven
  - School IPM, series of ten
- Play short demo clip

[http://apps.cdpr.ca.gov/schoolipm/managing\\_pests/video\\_series.cfm](http://apps.cdpr.ca.gov/schoolipm/managing_pests/video_series.cfm)

# Video Series Outreach

- The most ambitious and complex video project DPR has been involved in.
- More than 7,000 persons have viewed (more than 21,000 minutes or an average of 3 minutes / viewer).
- The average "view" is getting longer which suggests we are reaching the correct target audience.
- Demographics -- 63% male vs 37% female. This is different from DPR's overall YouTube stats (approx. 60% female vs. 40% male). Ages 24-44.

# Information Gathering

- Post-workshop phone survey
- Statewide school district surveys
  - 2001, 2002, 2004, 2007, 2010
- Statewide child care center surveys
  - 2008, 2013
- Pesticide use reporting

# Use of school workshop training resources

	Looked at	Used
<b>Toolbox</b>	<b>97%</b>	<b>91%</b>
<b>Guidebook</b>	<b>83%</b>	<b>48%</b>
<b>Ant fact sheet</b>	<b>78%</b>	<b>49%</b>
<b>Ant DVD</b>	<b>47%</b>	<b>22%</b>
<b>Weeds of the West textbook</b>	<b>81%</b>	<b>65%</b>
<b>Consumable Tools (yellow jacket trap)</b>	<b>84%</b>	<b>57%</b>
<b>Durable Tools (Flashlight)</b>	<b>84%</b>	<b>72%</b>

**Is what we are doing working . . .  
survey says . . .**

- Schools
- Child Care Centers

# 2010: Reported Barriers to Using IPM Practices in Schools

**Understaffing/staff turnover**

**Budget restrictions**

**Age and condition of school facilities**

**\*Inadequate staff training**

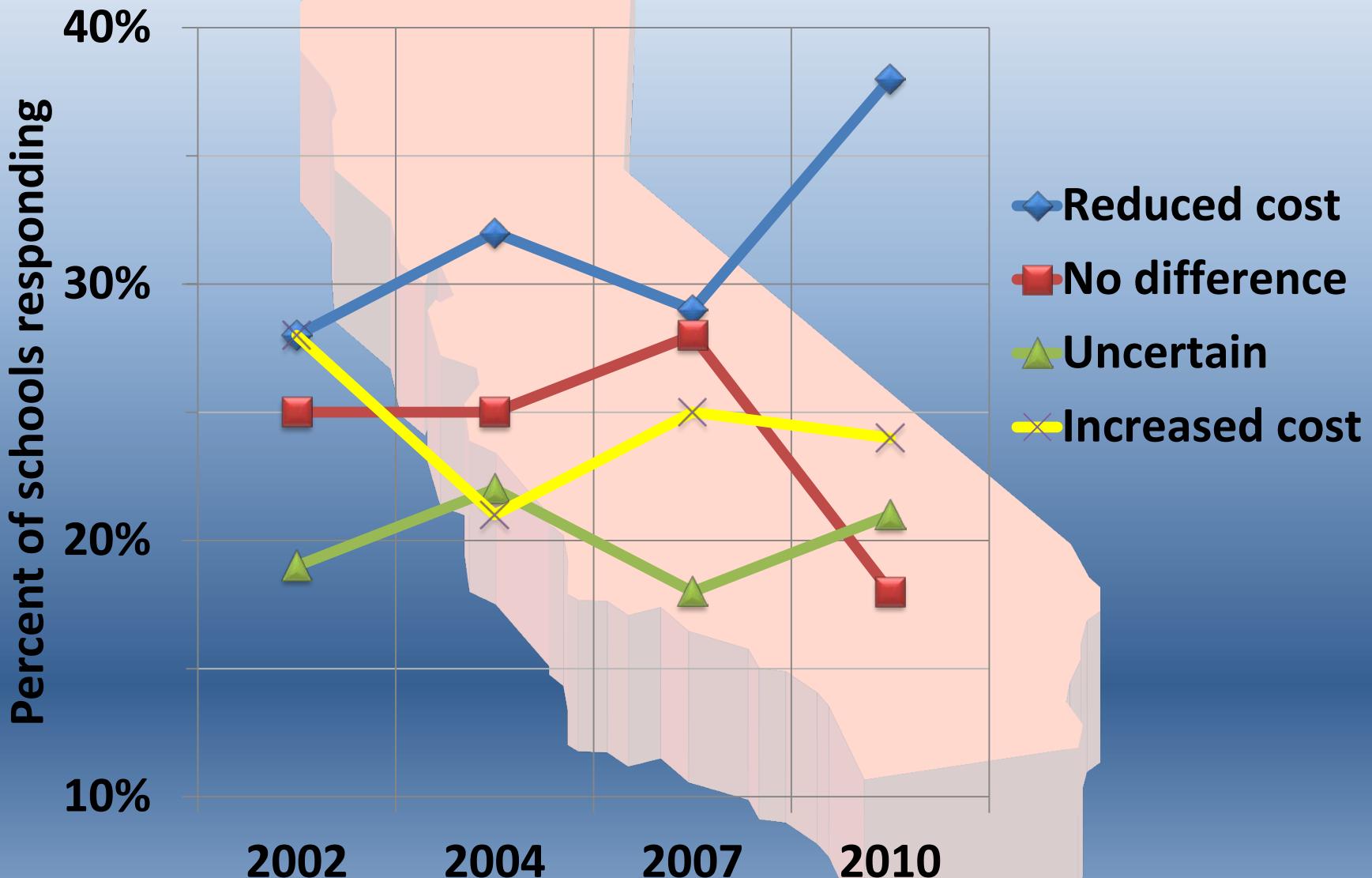
**\*Insufficient tool/equipment inventory**

**\*Lack of technical information resources**

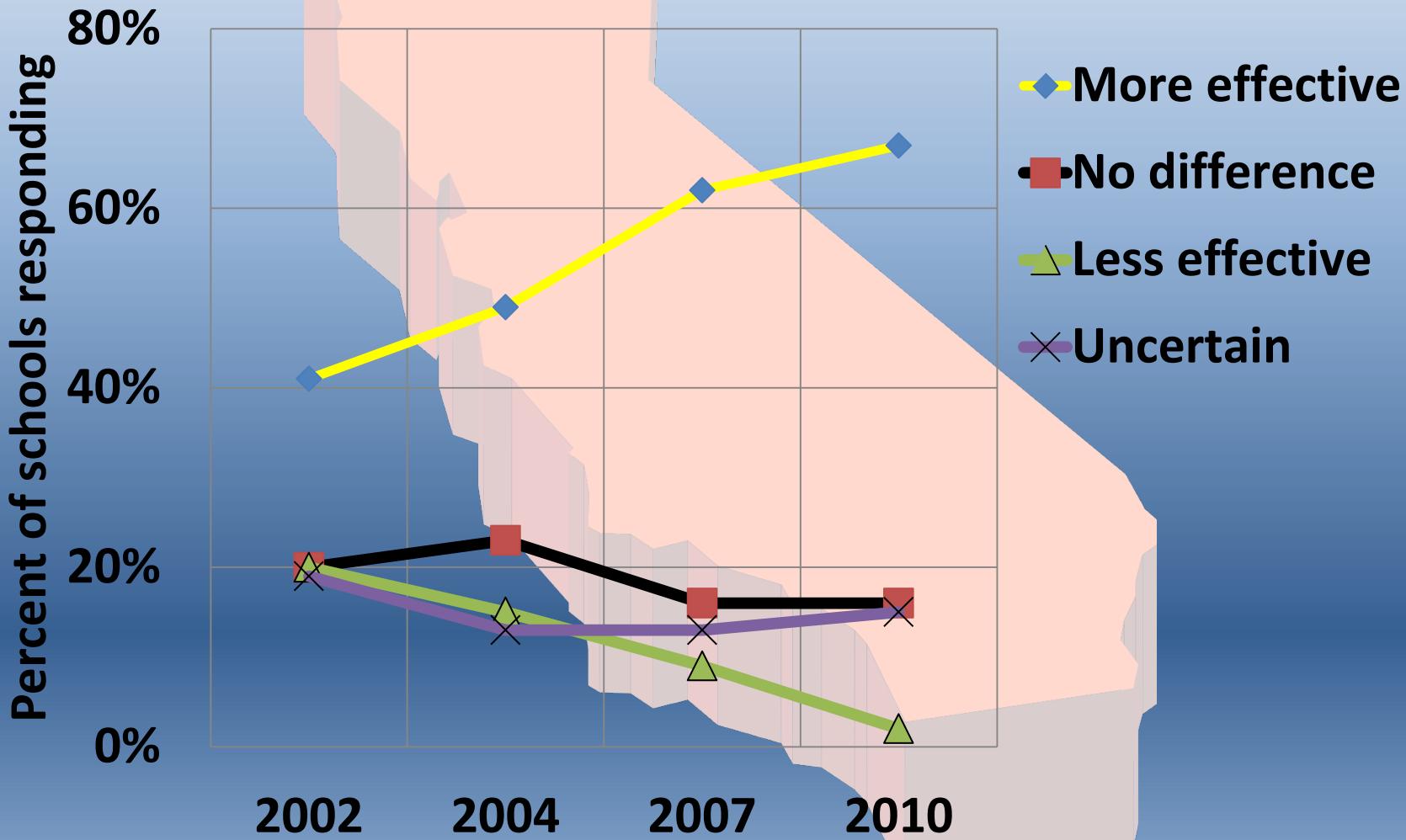
**Poor communication within district**

**\*Contracting problems**

# Cost of IPM In California Schools

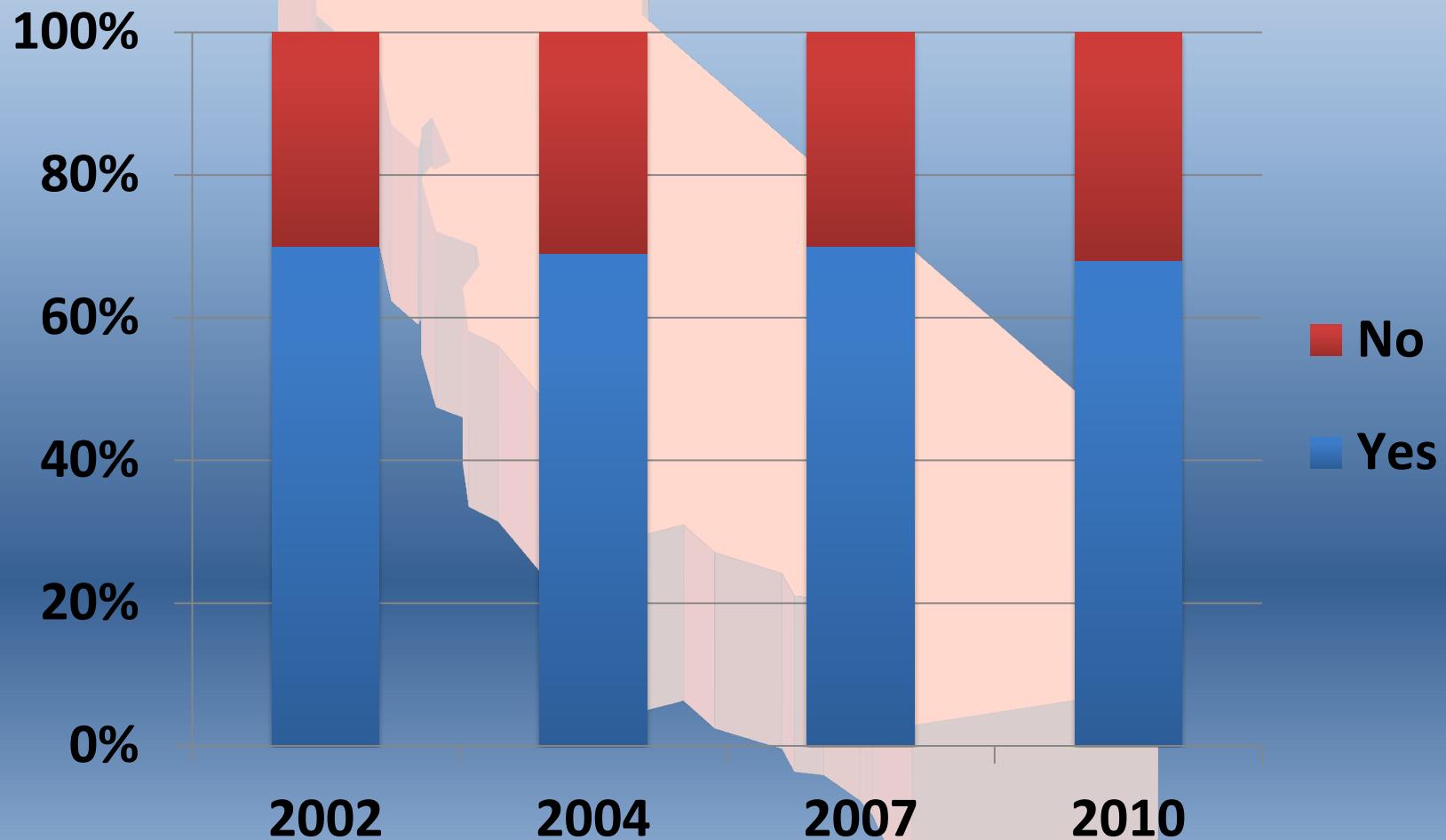


# Perceived Effectiveness of IPM in California Schools



**But still . . .**

# IPM Programs in California Public K-12 Schools



# —Ant Management—

	2001	2002	2004	2007	2010
Ant baits	37%	58%	69%	69%	80%
Soapy water sprays	14%	38%	45%	51%	64%
Caulking	19%	36%	50%	69%	79%
Improved sanitation	NA*	63%	80%	88%	93%

# —Weed Management—

	2001	2002	2004	2007	2010
Spot treatment with herbicides	68%	61%	82%	80%	92%
Mulches	25%	26%	55%	60%	70%
Physical controls	61%	69%	91%	94%	95%
Irrigation management	NA*	17%	41%	50%	73%

# Reported Reasons for Pesticide Use in Child Care Centers

**Effective**

**Recommended/decided by pest control company**

**Safety**

**Cleanliness**

**Required**

**Convenient**

**Don't know/not sure**

**I didn't know what else to do**

**Inexpensive**



**Child care centers with a written policy for use  
of environmentally friendly pesticide methods**

# Pesticide Use Reporting

- Since 2001, Pest management professionals report use of all registered pesticides
- Starting in 2015, schools and child care center employees report use of most pesticides
  - Pesticides exempt from reporting are self-contained baits and traps, gels & pastes used in cracks & crevices, pesticides exempt from registration, and antimicrobials

# Top Ten Pesticides By Weight

Used by licensed pest management professionals in California schools, 2013

1. PERMETHRIN (insect)
2. PIPERONYL BUTOXIDE (insect)
3. BIFENTHRIN (insect)
4. IMIDACLOPRID (insect)
5. GLYPHOSATE (weed)
6. CYFLUTHRIN (insect)
7. PYRETHRINS (insect)
8. LAMBDA-CYHALOTHRIN (insect)
9. FIPRONIL (insect)
10. DIURON (weed)

# New HSA of 2015

- IPM Plan
- Pesticide use reporting (school site employees)
- Required IPM training for anyone applying any pesticide, even those pesticides exempt from the HSA

# Future Efforts

- **Peer-to-peer information transfer**
  - Sharing survey/pesticide use data between similar schools
  - Recognize the best, motivate the rest
  - School IPM Honor Roll
- **Online IPM training courses**
  - Basic, intermediate and advanced
- **More pest fact sheets . . .**
- **Still a few surveys . . .**

# Summary

- **Change is slow, despite incentives**
- **Required vs. mandated IPM adoption**
- **Stay tuned for post HSA 2015 updates: will IPM adoption in CA increase?**
- **It is really about giving people the knowledge and tools to do what they want to do – protect children's health.**



Thank You!