

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

1990s:
informal
program,
grants



2001: HSA
school IPM
program
established



2002: IPM
workshops, web
site, HELPR,
guidebook, SIPM AG



2012-2014 : turf
grass workshops,
new video series



2008: child
care IPM
program
established



2003-2006:
training videos,
factsheets,
calendar, tool box



2015: HSA amended, complete
pesticide use reporting, required
training, required IPM plans

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

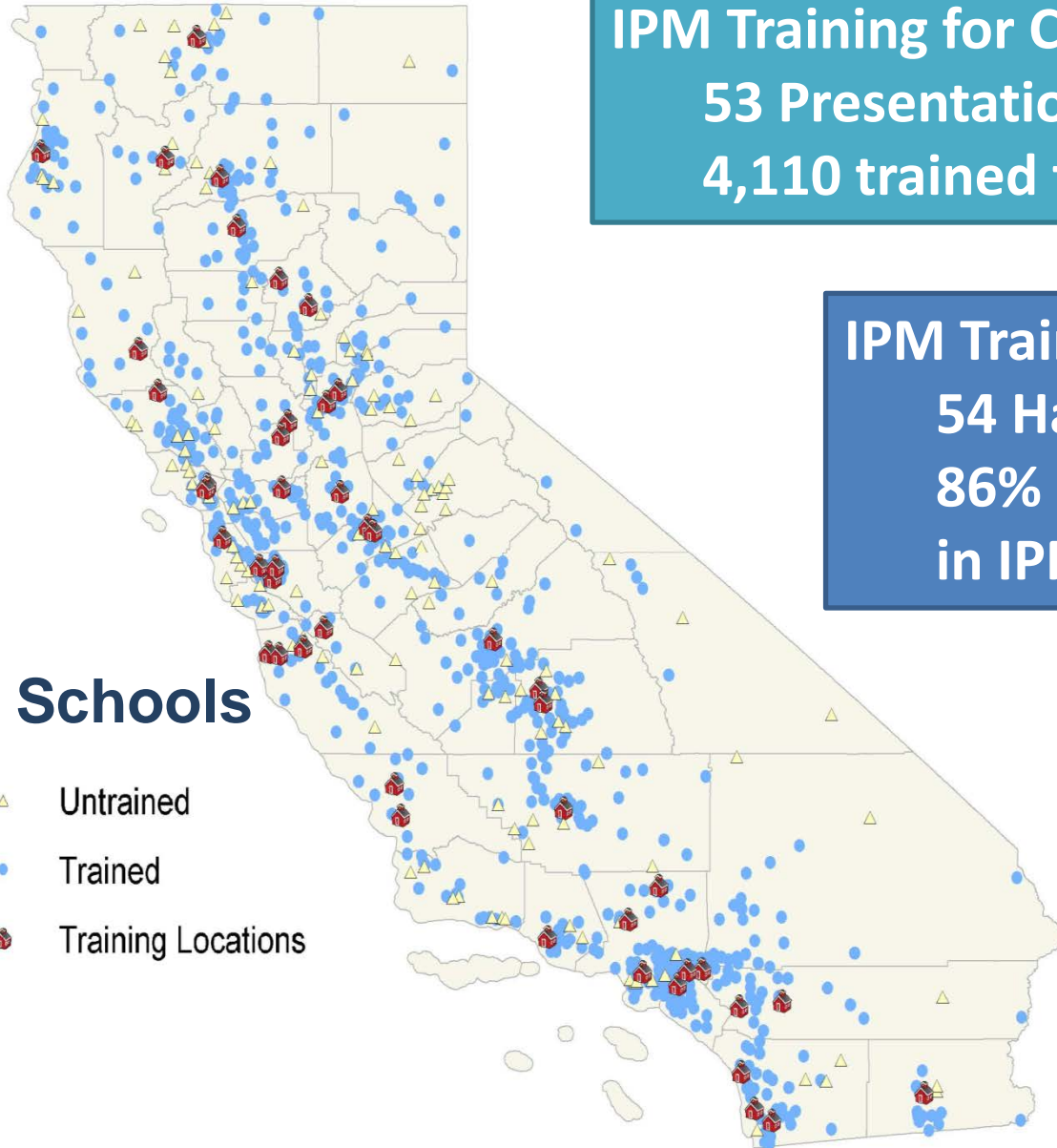
Hands-on Train the Trainer Workshops

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

Schools

- △ Untrained
- Trained
- 🏠 Training Locations



In-Person Specialized Workshops

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



SIPM Resource Starter Kit AKA “Toolbox”



Outreach Materials

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



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

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

**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**

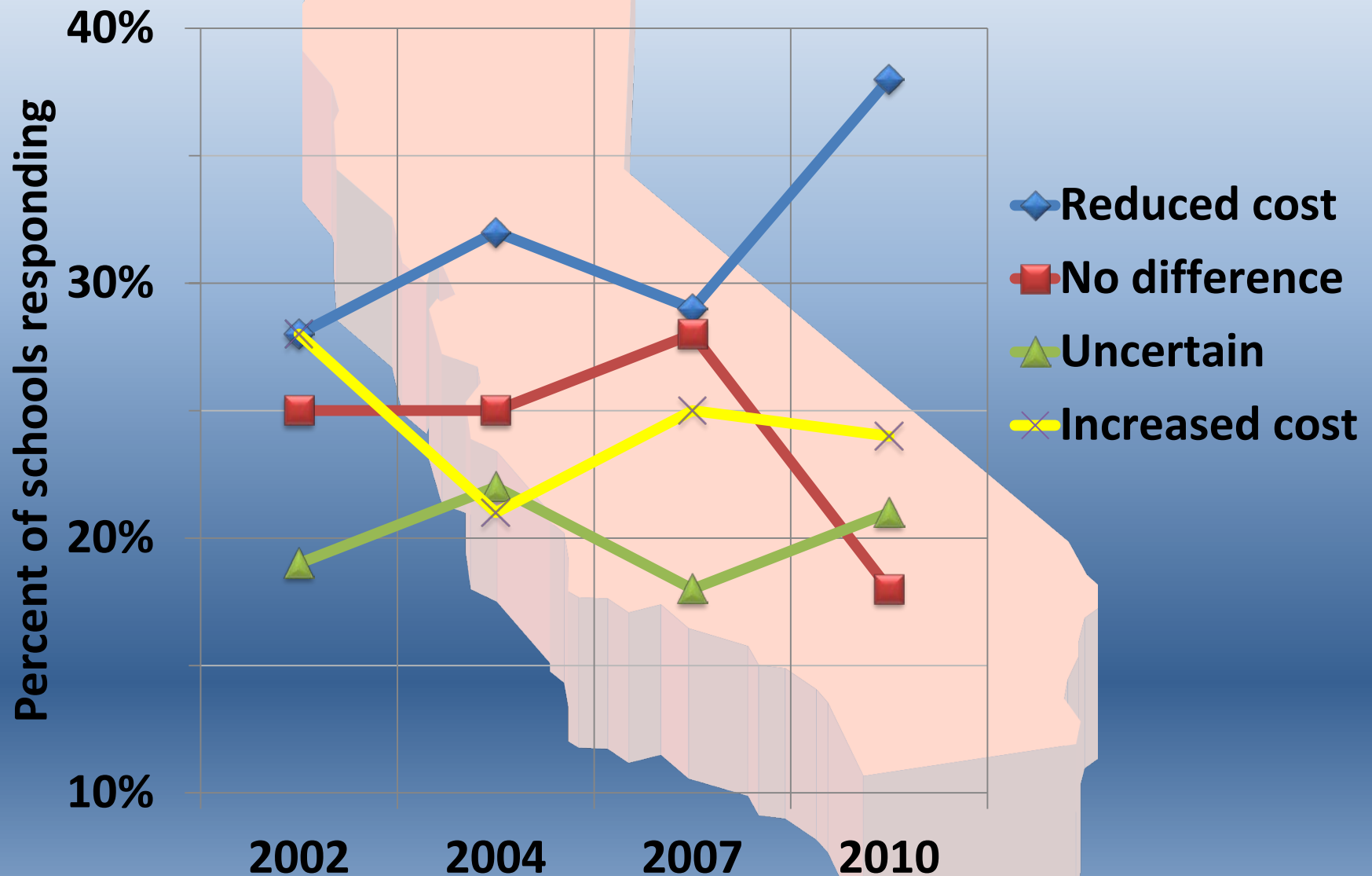
***Insufficient tool/equipment inventory**

***Lack of technical information resources**

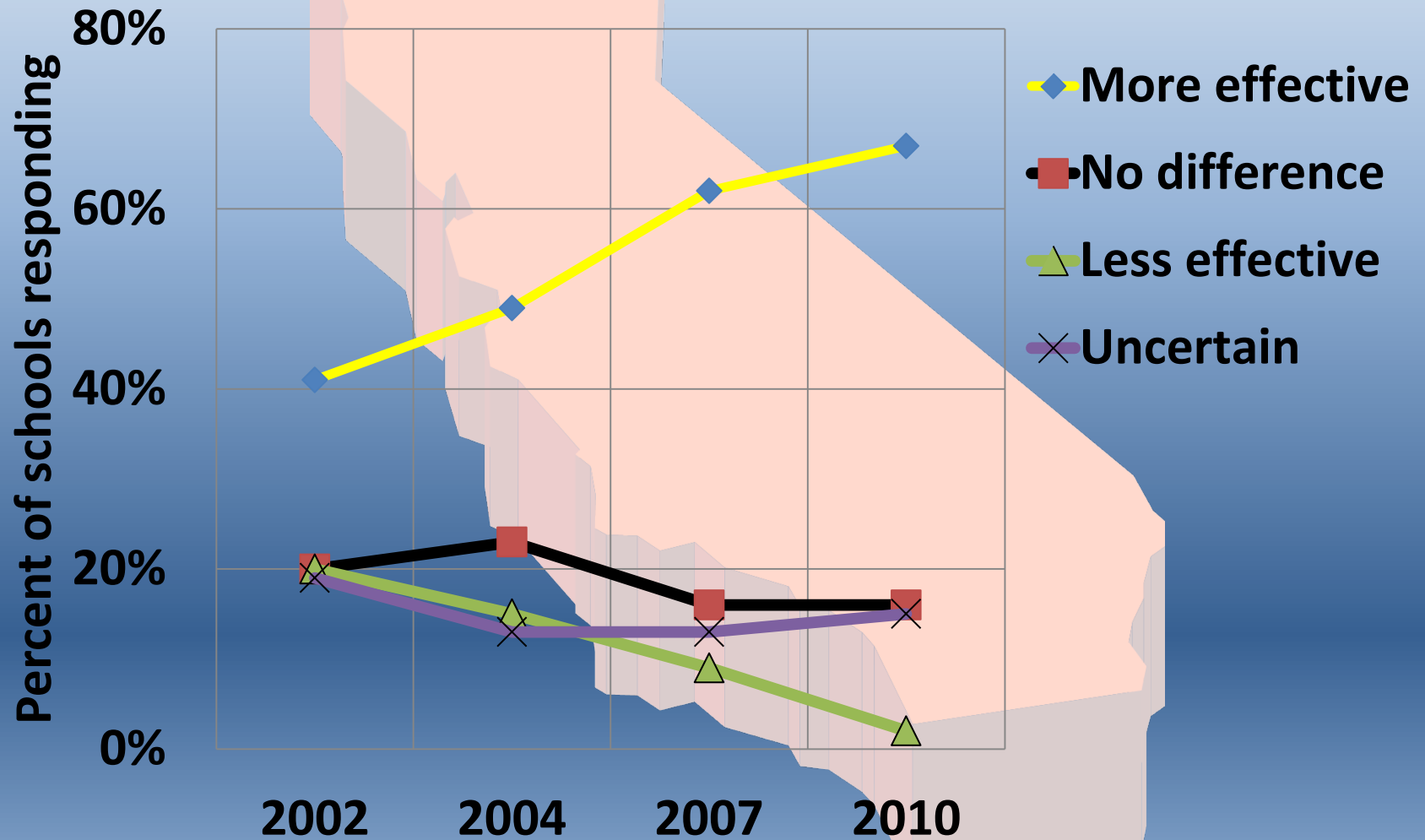
Poor communication within district

***Contracting problems**

Cost of IPM In California Schools

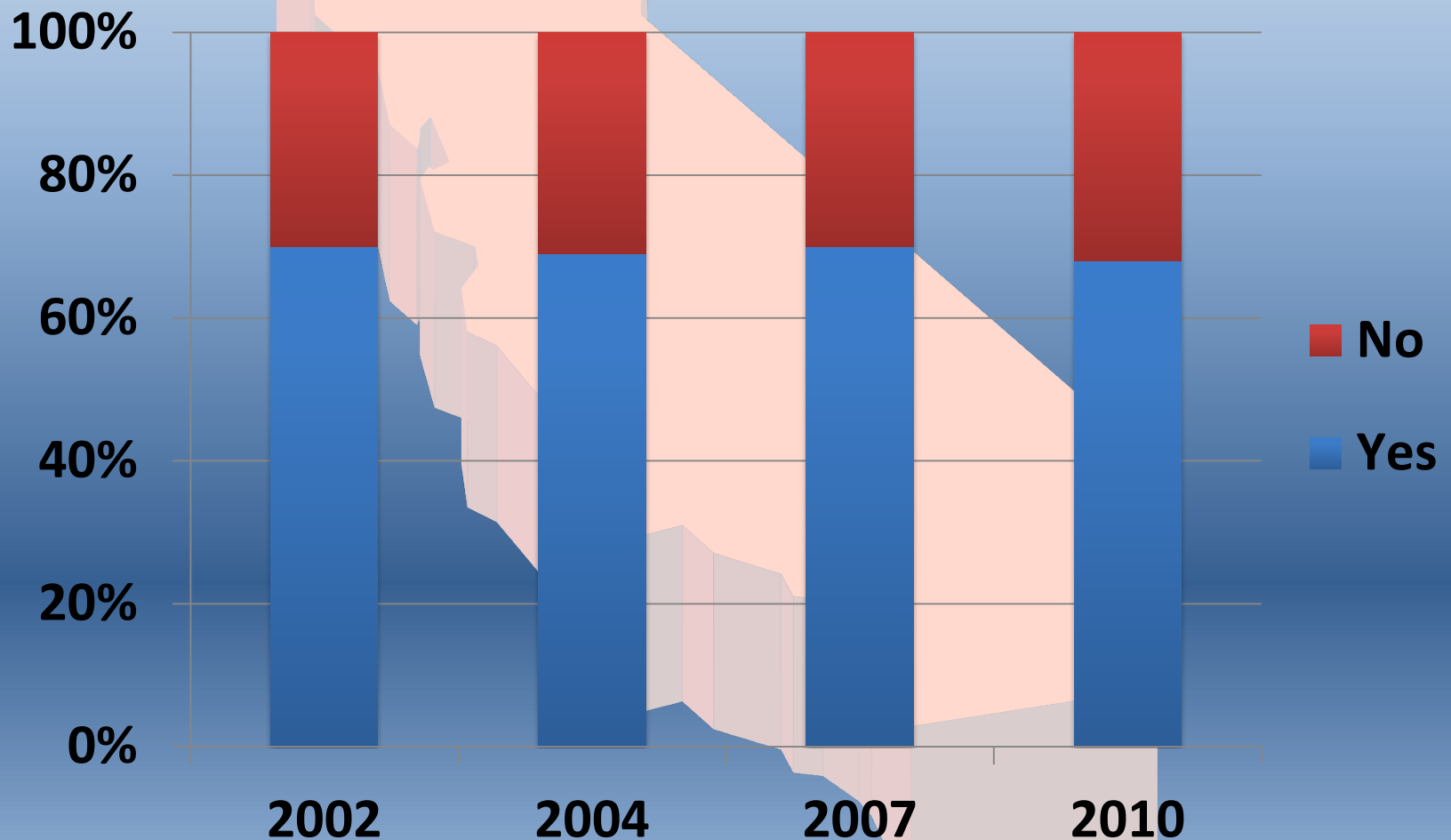


Perceived Effectiveness of IPM in California Schools



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.**

A close-up photograph of a butterfly with dark brown wings featuring bright orange bands and white spots. The butterfly is perched on a dense cluster of small, vibrant purple flowers. The background is filled with green foliage and more purple flowers, creating a lush, natural setting.

Thank You!