UC IPM

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Center for Environmental Research & Children's Health

Providing Integrated Pest Management Services in Schools and Child Care Settings

Pest Control Operators of California

California Department of Pesticide Regulation

pestec

California Department of Public Health

CDPH

UC San Francisco PEHSU Pediatric Environmental Health Specialty Units

Alameda County Department of Healthy Homes

University of California Agriculture and Natural Resources

Los Angeles County Office of Education
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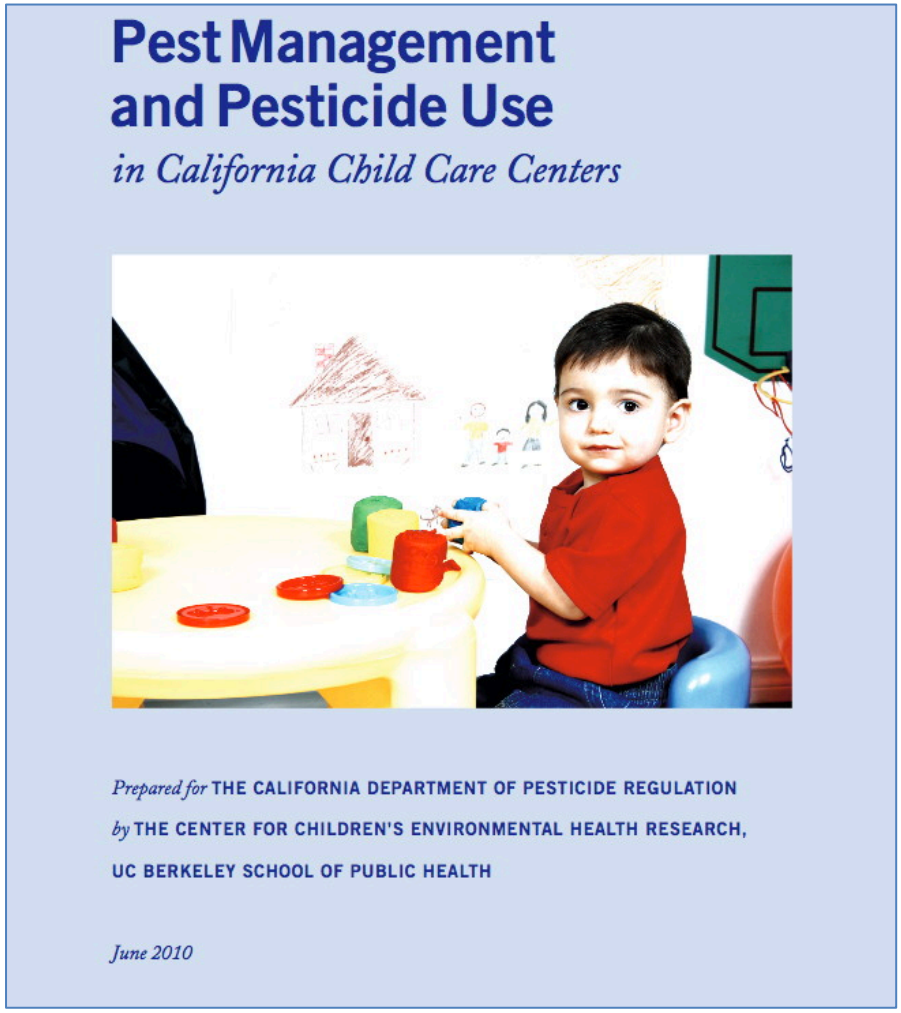
Today's Presentation

- Background
- Project Goals and Deliverables
- Formative information
- CEU course
  - Overview
  - Evaluations
- Challenges
- Next Steps

Pest problems in California child care centers



Pest Management and Pesticide Use

in California Child Care Centers

Prepared for THE CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION

by THE CENTER FOR CHILDREN'S ENVIRONMENTAL HEALTH RESEARCH, UC BERKELEY SCHOOL OF PUBLIC HEALTH

June 2010

INTEGRATED PEST MANAGEMENT TOOLKIT FOR EARLY CARE & EDUCATION PROGRAMS

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Project Goals and Deliverables

1. Develop in-person CEU course addressing IPM in schools and child care.*
2. Adapt course to an online format.
3. Complete 8 in-person trainings.
4. Reach 200 PMPs through online course.
5. Establish web-based directory of course participants.
6. Ensure long-term sustainability of program.

*Expanded to include schools after SB 1405 signed

Modification

- Dr. Andrew Sutherland (UC IPM) shifted from Alliance Team to Management Team

- UC IPM participated directly in development of course and online format.

- Online course to be hosted by UC IPM instead of CERCH.

➢ Ensures long-term sustainability.

Quick Progress Report

- In-person CEU course complete and delivered 4 times to date.
- Online course complete and awaiting assignment of activity identification and outreach
- Template for social media component in place

Formative Information

To identify knowledge deficits and training interests of PMPs working in child care settings.

- Survey
- Focus Groups

Survey | Qualtrics Survey Software - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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PEST MANAGEMENT PRACTICES IN CHILD CARE
BY PEST MANAGEMENT PROFESSIONALS

The Center for Environmental Research and Children's Health (CERCH), the University of California Integrated Pest Management Program (UC IPM), the California Department of Pesticide Regulation (DPR), Pestec, and the Pest Control Operators of California (PCOC) are working together to bring more integrated pest management (IPM) information to pest control operators (PCOs) working in child care.

The goal of this survey is to collect information about current pest management practices and identify education and outreach needs regarding IPM in child care environments. All information will be kept confidential.

Your work controlling pests reduces many health risks to children. Thank you for your ongoing contribution to making children's environments safer and for participating in this survey.

Survey Completion

0% 100%

Survey Powered By Qualtrics

>>

2:00 PM
7/29/2013

PMP Survey

- 200 paper surveys disseminated
- Information with link sent out to PCOC membership

- Link on Dr. Andrew Sutherland website

PMP Survey

- 29 paper surveys completed and mailed back
- 11 electronic surveys completed

TOTAL: 30 surveys

Small N

Information Very Useful

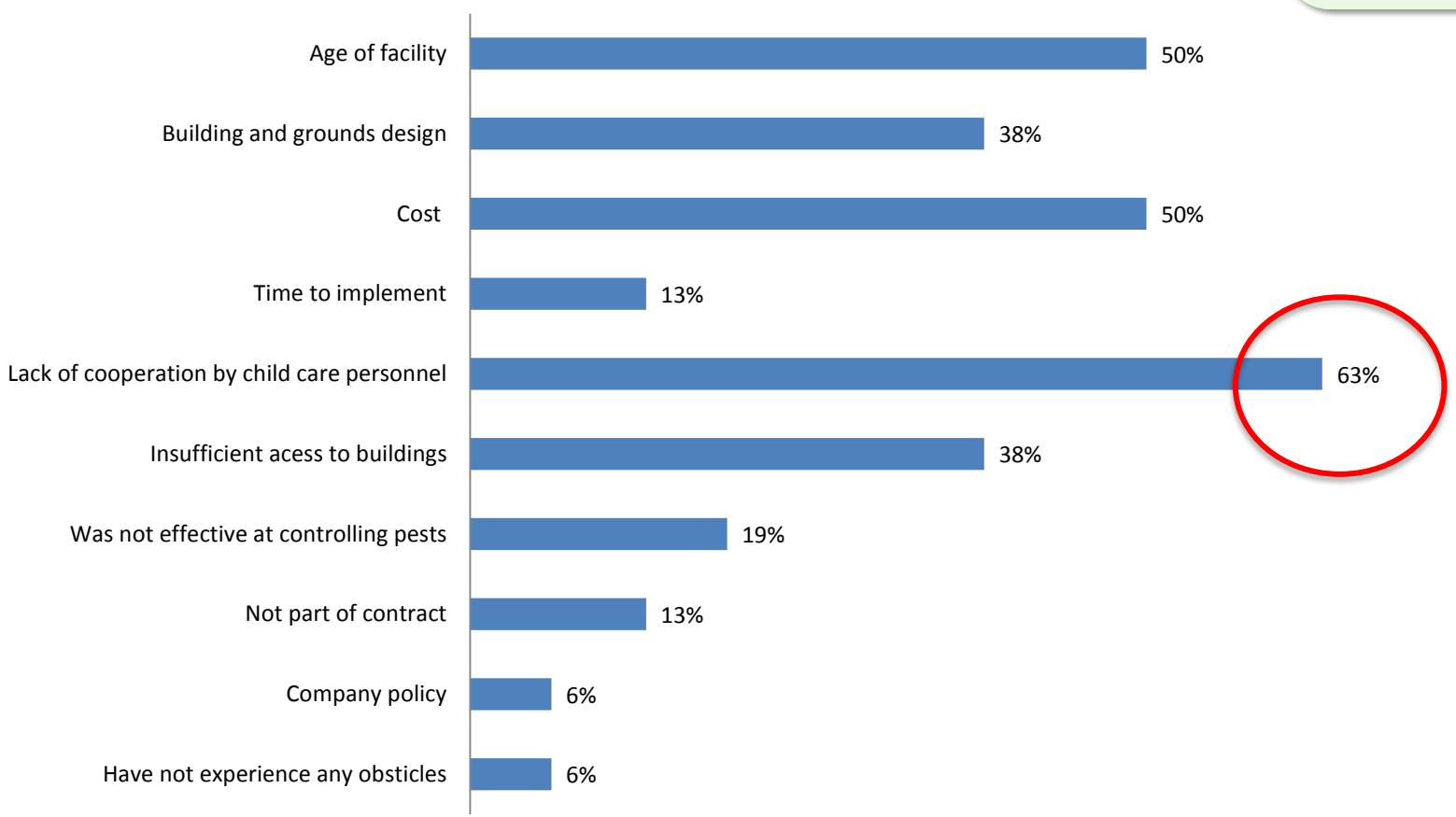
Results

Familiar with IPM:	87%
Would like more information on:	
IPM:	55%
Healthy Schools Act:	74%
Would attend in-person CEU course:	45%
Would like online course:	76%

Key Interests

Benefits of IPM certification:	71%
Bidding and contracting IPM services:	71%
Examples of sample contracts:	84%
Pesticide use reporting requirements under the HSA	68%
Pest control products and practices exempt from HSA	74%

Key Obstacles



Need better cooperation on food, garbage, and clutter: 92%

Written and Focus Group Comments

Many facilities choose to do nothing because of the extra work that it takes to comply with IPM recommendations.

Not appropriate to spray on routine basis. School would not cooperate.

[We are} fully compliant with HSA…. Not an obstacle to working in childcare. If follow the rules, no increased liability.

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Overview

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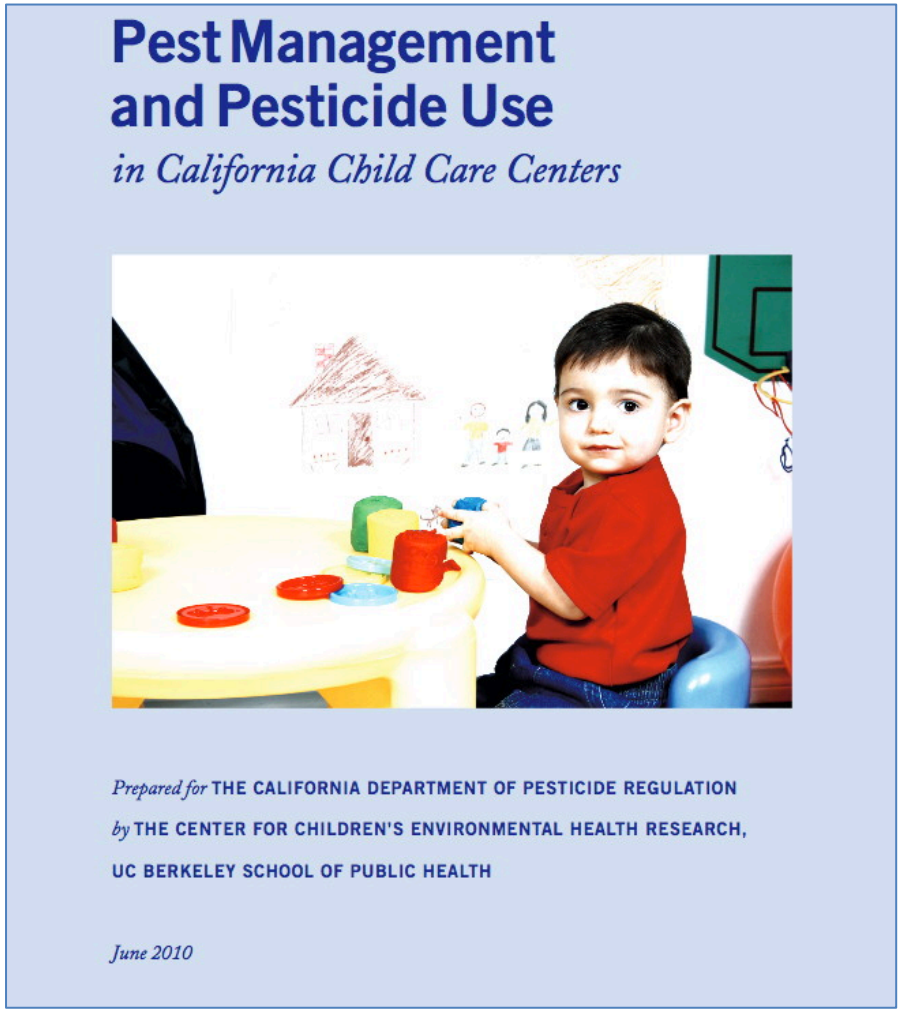
Introduction

In this course, you will learn about

- Health risks to children and staff
- The Healthy Schools Act
- IPM in schools/child care
- IPM as a business model

Pest problems in California child care centers



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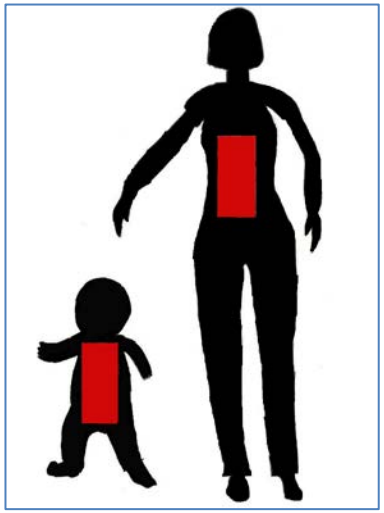
Why should we be concerned about children?

Children, especially young children, have higher exposure to environmental contaminants because they:

- Eat, drink, and breathe more per pound of body weight, compared with adults
- Have more skin surface relative to size; and their skin is more absorbent
- Spend most of their time indoors
- Have frequent contact with the ground or floor and put their hands in their mouths (infants eat a lot of dust)



Pests cause potentially serious health problems

Bacteria spread by cockroaches and rodents:

cause infections and other illness.

Allergens from cockroaches and rodents:

trigger allergies and asthma attacks.

Rodents and raccoons

carry diseases in their urine or feces.

IPM is a logical choice

The health risks of pests and the human health and environmental concerns about pesticides make IPM a logical approach to pest management in schools and child care settings

Healthy Schools Act

What are the key components of the HSA?

The school or child care program must

- Designate an IPM coordinator
- Have an IPM plan
- Notify parents annually of intended pesticide use
- Maintain a registry of parents or staff who want notification each time a pesticide is used.
- Post warning signs when pesticides are used
- Keep written records of pesticide use for four years

The PMP must

- Work with the child care center to facilitate compliance
- Notify the child care center when pesticides are to be used
- Report pesticide use to the county agricultural commissioner **and** to DPR
- Avoid use of prohibited or canceled pesticides

Information related to SB 1405

Home

Senator Mark DeSaulnier

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DESAULNIER INTRODUCES BILL TO REQUIRE SAFER USE OF PESTICIDES IN SCHOOLS

February 25, 2014

Last week, Senator Mark DeSaulnier (D-Concord) introduced SB 1405 to provide more stringent guidelines on the use of harmful, toxic pesticides in schools.

"This bill will make California a national leader in protecting students from harmful pesticides at school," Senator DeSaulnier said. "Schools should be a safe place for students, and it is imperative that any pesticides on site be used safely. Having schools adopt integrated pest management plans will promote the usage of preventative measures that can lessen the need for toxic pesticides."

Under SB 1405 school sites will report all pesticide use to the California Department of Pesticide Regulation. Current law only requires professional applicators to report their use. This bill also requires anyone—including school staff and professional pest control applicators—using pesticides on school sites to undergo an annual training on integrated pest management and the safe usage of pesticides. An integrated pest management plan focuses on long-term preventative measures to solve pest problems with the least hazards to people and the environment. SB 1405 requires school sites to have a written integrated pest management plan in place. This practice has already been successfully implemented by the Los Angeles Unified School District and Santa Clara Unified School District, without significant cost burdens.

What pesticides are subject to the HSA?

All registered pesticides except antimicrobials are subject to the HSA. Application methods subject to all rules include:

- Liquid sprays
- Gels and pastes NOT applied in cracks and crevices
- Uncontained powder
- Pellets
- Pheromones
- Foggers

Some registered products are exempt from notification and posting requirements

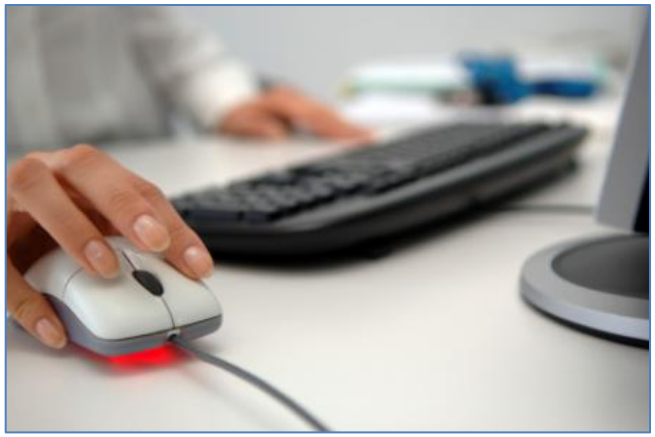
- Certain "exempt" pesticides do not require notification
  - Products used as self-contained baits or traps
  - Gels or pastes used as crack-and-crevice treatments

- Parents and staff do not have to be notified annually and registry participants do not have to be notified of individual applications

Records must be kept of all use of exempt products containing registered pesticides and use must be reported to DPR annually and to the county monthly.

What records do PMPs need to keep?

- Pesticide use reports must be submitted
  - **Monthly Summary Pesticide Use Report** (PUR) to the County Agricultural Commissioner (CAC)
  - **Annual School Site Pesticide Use Reporting Form** (PR-ENF-117) to DPR [California Code of Regulations 6624(a)(3). T*he form must be filed annually no later than January 31st the following year.*



- PMPs must keep records of pesticide applications for two years

Section 2: IPM in Schools and Child Care Settings

This section of the course will present:

- The overall goals of IPM
- The advantages of adopting an IPM program
- The primary components of an IPM program

What are the primary components of IPM?

- Education / identification
- Prevention
- Monitoring
- Treatment thresholds
- Multiple tactics
- Integration
- Evaluation

IPM Case Study: Ants

Education and identification

- Indoor resident or outdoor invader?

Argentine ant, *Linepithema humile* – 1/8"-Usually nests in landscapes, primarily feeds on honeydew and other sugary liquids

Pharaoh ant, *Monomorium pharaonis* – 1/16"- Often nests indoors (walls, cabinet voids), primarily feeds on fats and proteins (such as pet food)

Spiders: What to do

Pest problem:
Cellar spiders creating webs on ceilings and wall corners

PMP

- Remove spiders and webs with vacuum or brush
- Visually inspect and deploy sticky traps to locate possible points of entry
- Install door sweeps
- Manage flies by improving exclusion and sanitation

Pesticide applications for spiders indoors are never warranted

School / child care center staff

- Manage flies by improving exclusion and sanitation
- Remove spiders and webs with vacuum or brush

Cockroaches: What to do

Pest problem: German cockroaches discovered on sticky trap in pantry

PMP

- Communicate with staff about sanitation measures
- Deploy more traps to locate breeding sites
- Use vacuum with HEPA filter to remove debris, insects, eggs from reproductive harborages
- Set out self-contained bait stations or apply gel baits to crevices

School / child care center staff

- Contain all food and water resources
- Eliminate cardboard boxes and clutter

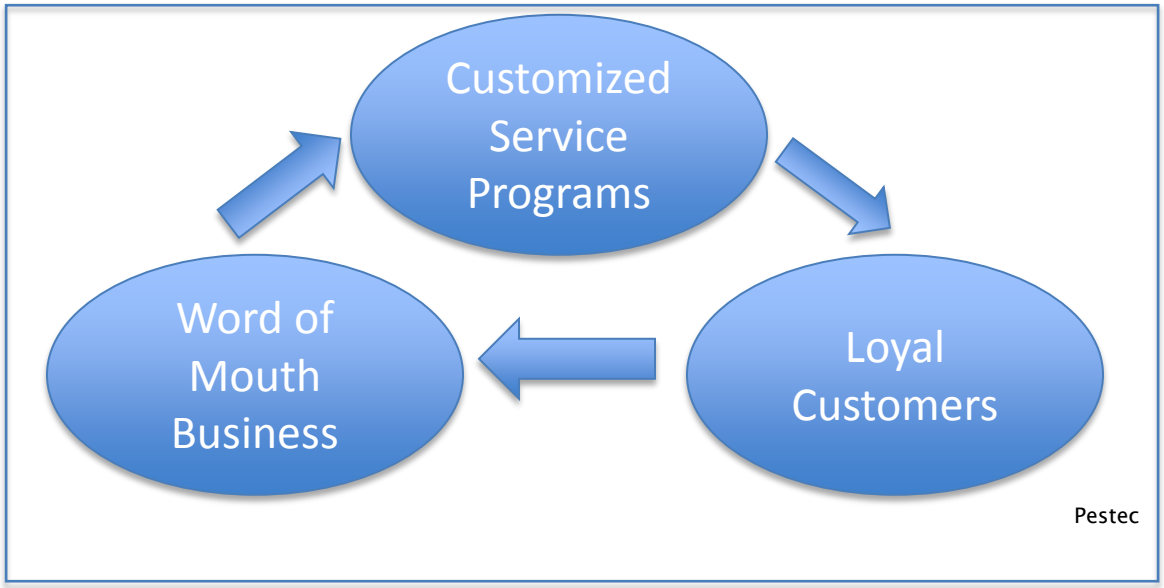
IPM as a business model

- A preventive program protects your client's business
- IPM addresses client concerns
  - Pest reduction
  - Minimal pesticide use
- Supports compliance with the Healthy Schools Act

Build your business!

IPM as a business model

- A well-designed IPM program creates a cycle of communication and add-on services that ensures effective IPM programs and long-term client relationships



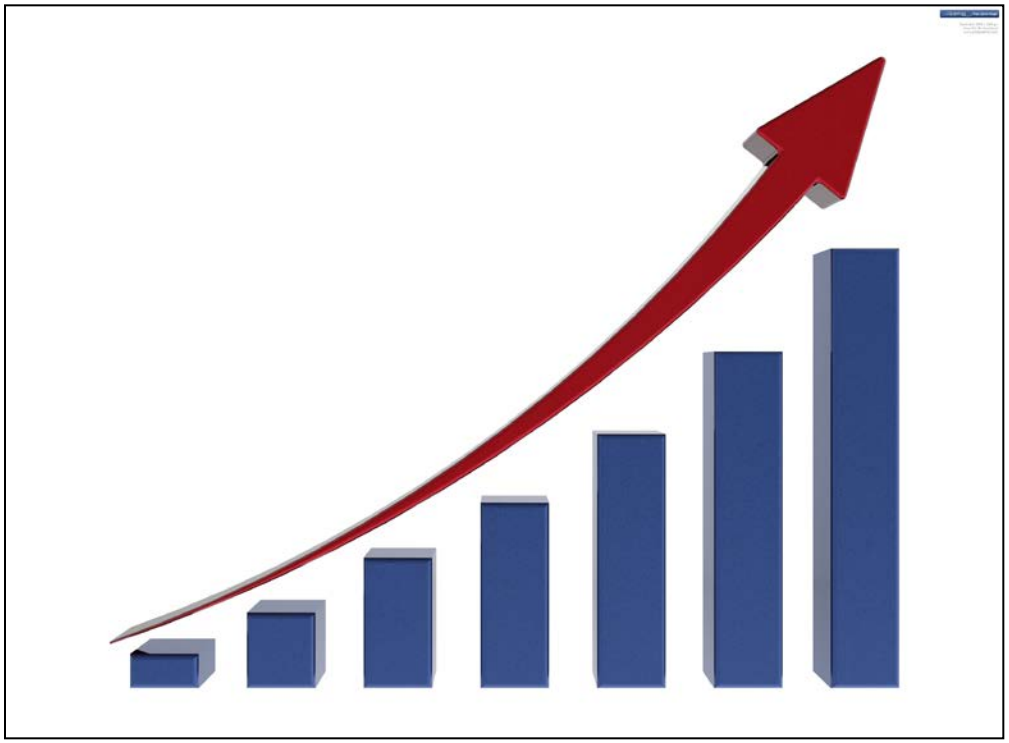
- New business opportunities
  - New (other) child care campuses
  - Entirely new clients

Key components for IPM business success in schools and child care settings

- Communication
- Scope of work
- Monitoring and prevention
- Accurate record keeping
- Program evaluation
- Assessment of time and costs
- Add-on services
- Marketing

Societal values are changing right now

Disruptive change is an opportunity for market growth!



Evaluation

Overall evaluation– first set:	3.4*
More recent evaluation score:	3.8*

*Scale=1-4, 4=Best

Feedback Very Positive

"I feel more prepared to explore it [serving child care] more"

"Great job"

"I thought it was excellent. The speakers were genuinely interested about the info they were presenting."

"Business-info is a great addition."

Suggestions

- Provide a full day, DPR sponsored IPM for Schools/Childcare course that PMP licensees can get certified in and acquire IPM CEUs.
- Have a hands-on, out in the field one day workshop.
- Extend course to 3 hours.

Suggestions

- Content on IPM for termites needed.
- Would like more content on methods that use botanicals or organics that do the same effects but do not require postings.
- More specifics on materials that are acceptable in schools.

Challenges

- Limited response to survey.
- Delays in getting review comments from some Alliance Team members.
- SB 1405.
- Several months behind schedule (but within budget).
- Expect to complete all objectives.

Next Steps

- Additional in-person training.
- Outreach blitz for online course. (http://class.ucanr.edu/course/view.php?id=27)
- Go live with web site and directory.
- Prepare final report by March, 2015.
- Consider expanding depth and breadth. Expect increasing demand given trends and SB 1405.
- Consider analysis and report on PUR data for schools and child care.

Questions/ Discussion