

US EPA ARCHIVE DOCUMENT



# Stop School Pests and *i School* Pest Manager



EPA Center of Expertise for School IPM

May 10<sup>th</sup> 2016



# Protecting Children in Schools from the Health Risks associated with Pests and Pesticides



## Pesticide Safety, Integrated Pest Management and Your School

# Presenters



## Dawn Gouge, Ph.D., B.Sc.

- Associate Professor and Associate Specialist – Urban Entomologist
- Entomologist and IPM specialist since 1995.
- Extension efforts include IPM implementation programs in public schools, and public disabled and elderly housing.
- Translational research studies focus on pest ecology and reduced-hazard management of public health pests.



## Janet Hurley, MPA

- Extension Program Specialist III - School IPM, Texas A&M AgriLife Extension Service
- B.S. in Community Health from Texas Woman's Univ.; M.A. Public Affairs from the Univ. of Texas at Dallas.
- AgriLife Extension since 2001.
- Extension efforts include overseeing the Texas School IPM program, coordinator training, and the annual statewide conference.





# Stop School Pests and *i School* Pest Manager



**Dawn H. Gouge, University of Arizona**

**Janet Hurley, Texas A&M AgriLife Extension**



Both programs are a part of a national,  
multiagency collaboration

Goal: to reduce risks associated with  
pests and pest management practices in  
schools

# School Community Stakeholders

3

- Why?
- What?
- How?
- Who?
- When?
- Where?





# Why is School IPM Important?

4

- Children spend a major part of their day in school
- Children are particularly vulnerable to pests and chemical exposures because of their habits and developing bodies
- Schools face pest problems that affect their day-to-day operations
- Districts are under constant pressure to improve scholastic achievement



# What is Integrated Pest Management (IPM)?

9

- ❑ Common sense, science-based, risk-reduction strategy
  - Focuses on long-term prevention of pests
  - Least-hazardous tools and methods selected
  - Most effective approach
  - Sustainability and pollution prevention considerations involved
  - Cost-effective
- ❑ IPM is a team effort!



# How to Begin?

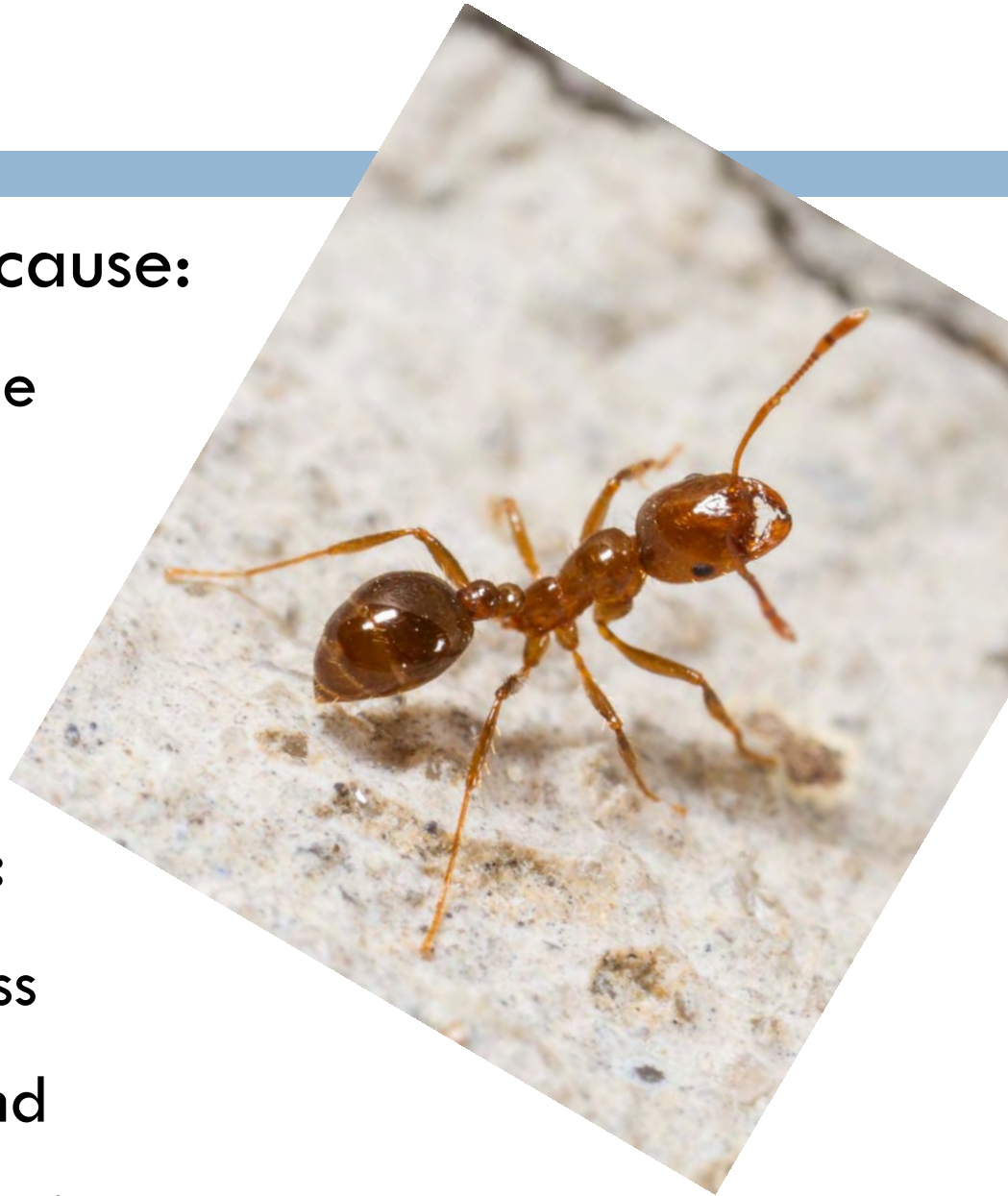
10

## ❑ Programs begin because:

- An unfortunate incident
- A champion
- Legislation
- Influence of peers

## ❑ Programs begin by:

- Increasing awareness
- Improving understanding
- Engaging the community



# IPM First Steps

11

## ❑ Building a Foundation:

- Outreach and education
- Initial inspections
- Monitoring and reporting pest sightings
- IPM plan or policy
- IPM coordination/  
committee
- IPM coordinator







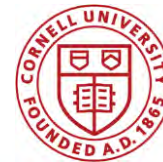
# STOP School PESTS



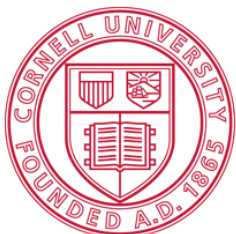
1) IPM Education  
Materials for School  
Community Members



2) IPM Certificate and  
proficiency certification



INDIANA UNIVERSITY





## **National collaboration team:**

2 federal agencies

11 state agencies

19 academic institutions

8 school districts

2 tribes

9 advocacy agencies

4 industry partners



# Objectives:

14

- 1) Increase adoption of IPM in K-12 schools
- 2) Reduce pest and pest management related risks

Through comprehensive, national education and certificate program for key groups in the school community



# How?

<http://StopSchoolPests.Org>

11

1) In-class

2) On-line





# Education: One of the Earliest Steps in the Implementation Process

12

- Increases awareness
- Improves knowledge and understanding
- Leverages community involvement and investment
- Forges connections between subject experts and practitioners
- Maximizes potential for cooperation



# Who?

13

- Relevant learning objectives for key roles
  - Weighted based on job responsibilities
- Certificate and certification



# Who?



14

## ■ Introduction to IPM (all hands)

1. Facility Manager
2. Maintenance Staff
3. Administrative Staff
4. Teacher
5. Food Service Staff
6. Custodial Staff
7. Landscape and Grounds
8. School Nurse
9. Technician/PMP



# Who?

19

## 10. Parents and Guardians





# Who Wants to Know More About IPM?

## Who Thinks Education is Necessary?

16

1. Facility Manager	94 92%
2. Maintenance Staff	78 78%
3. Administrative Staff	85 89%
4. Teaching/Coaching Staff	66 29%
5. Food Service Staff	60 72%
6. Custodial Staff	82 76%
7. Landscape and Grounds Staff	92 80%
8. School Nurse	?85 36%?
9. Technician/PMP	92 94%

# You Don't Know What You Don't Know

17

- On-line survey responses differ from feedback received after teaching
- Stakeholders think they know what they need
- Stakeholders will need to trial the education materials before understanding some relevancies



# Pilot Testing of In-class Modules

18

School nurse module piloted in Arizona: Feb 2015



“I have been a school nurse for 25 years and I cannot believe I learned so much helpful information in just 1 hour”  
Nurse Mary Griffin,  
Apache Junction Unified  
School District, AZ

# Real-world Pest Challenges

19

Teaching and coaching faculty



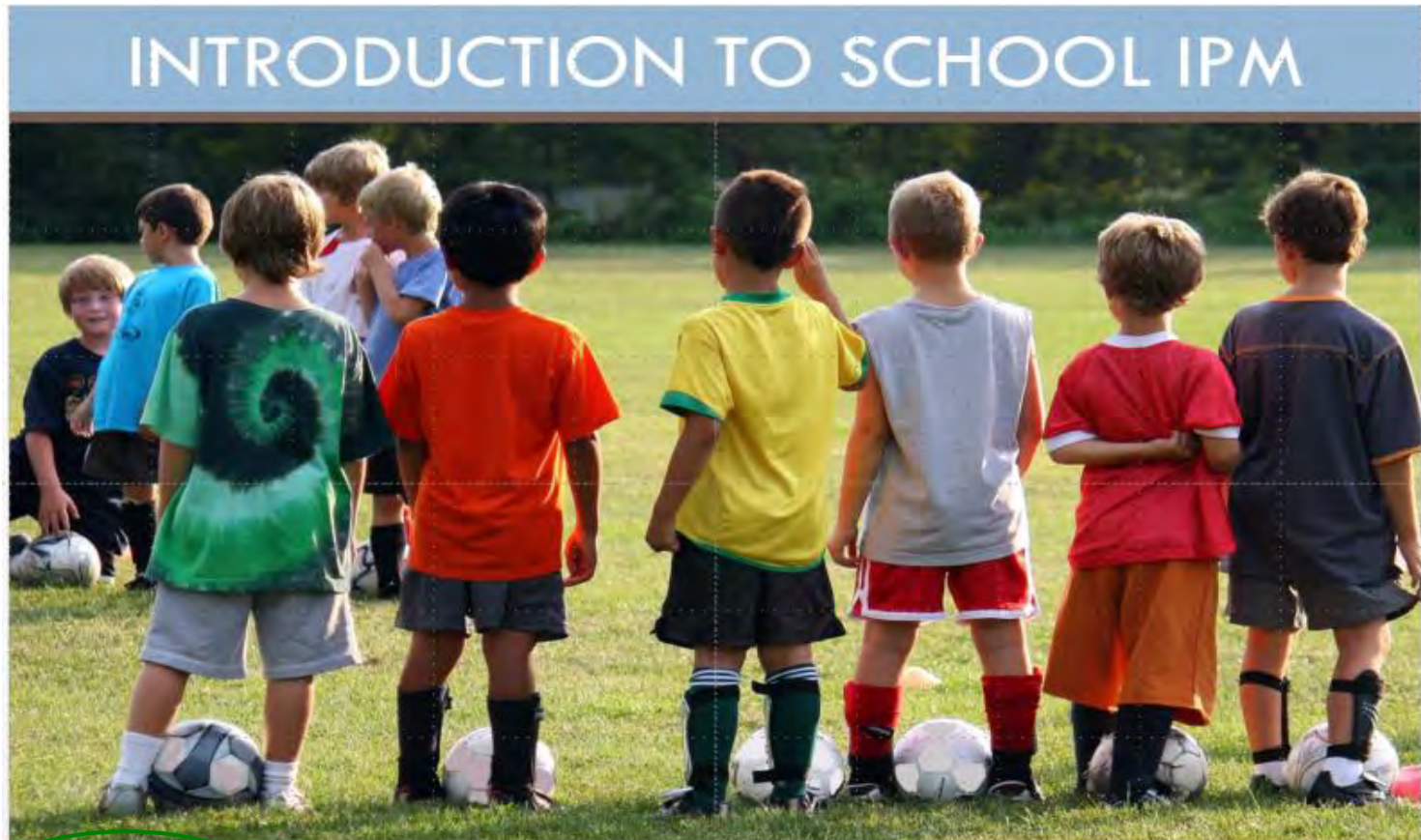
“I had no idea what I was doing was illegal or could be dangerous to my athletes” Coach



# Learning Objectives – Introduction to School IPM

20

- Integrated Pest Management in risk reduction terms



Lesson 1 of 4

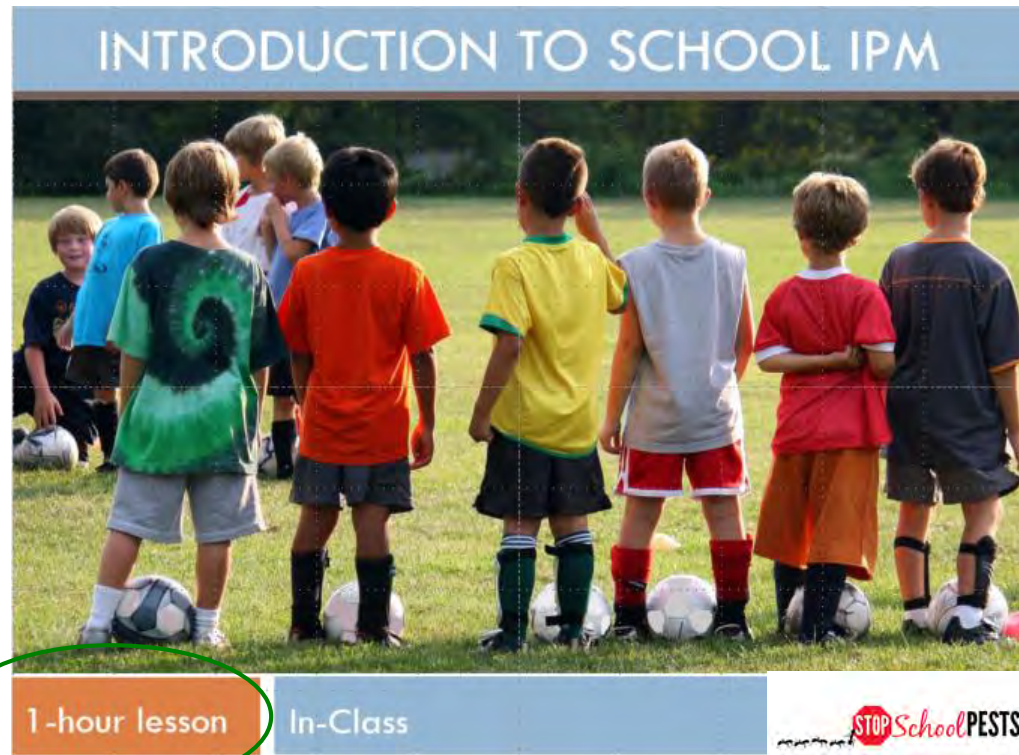
In-Person Module  
Introduction to IPM

 **STOP School PESTS**

# Learning Objectives – Introduction to School IPM

21

- Integrated Pest Management in risk reduction terms
- Benefits of IPM in sensitive environments - health, environmental and economic risks associated with pests and pesticides
- Roles and responsibilities
- Key elements of IPM





# Teaching Materials

22



1-hour

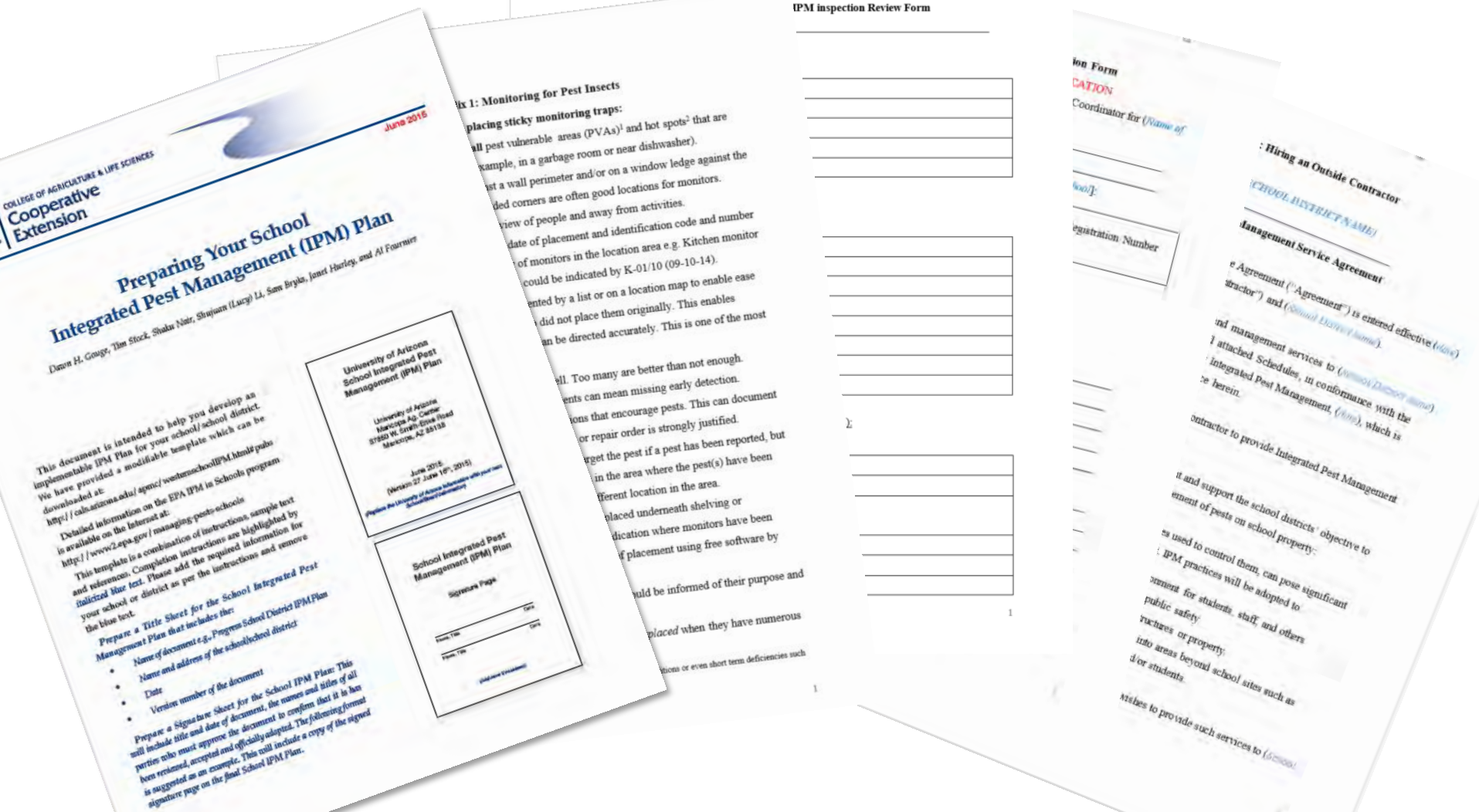


2-hours



4-hours

## 23





# Certificate or Certification?

24

***Advanced IPM certification for individuals who practice high-level IPM in schools***

Certification options will be available for

- ✓ IPM Technician/PMP
- ✓ Facility Manager
- ✓ Or anyone who reviews and passes the relevant exam



In collaboration with the  
National Pest Management  
Association

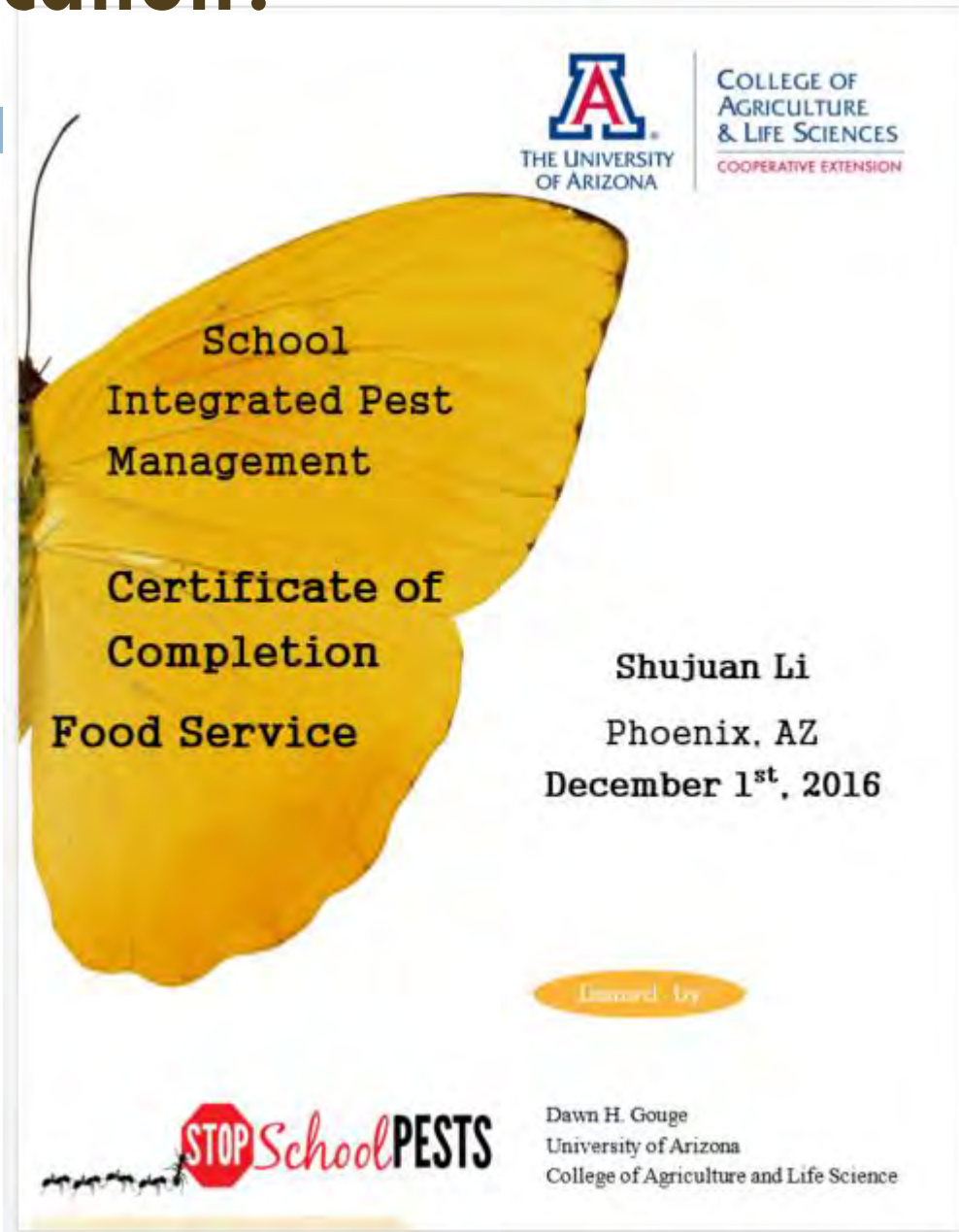


# Certificate or Certification?

25

- Administrators, grounds staff, custodians, maintenance, nurses, food service and teachers can earn a certificate

Final Exam



# Sustainability and Growth

26

- Content consensus
- Rigorous review
- Adaptable by instructors for in-class teaching allows tailoring
- Incentives for school districts
  - Continuing education credits (CEs), recognition & award programs both internal to districts and external




# When and Where?

27

- In-class teaching files are available now and will continue to be updated through the end of this year
- Online modules will be available in the fall

*iSchool* **PEST MANAGER** 

[Home](#) [What's New?](#) [File Types](#) [Regulations](#) [Training Modules](#) [Document Toolbox](#) [Pests](#) [Help](#) [Contact Us](#) [Show Me Everything](#) 

**About iSchool Pest Manager**





# Outreach and Marketing

28

- National School IPM Working Group
- Advisory Committee

We take our schools for granted, not everyone can. Invest in every brick as if it holds our very future, because it does.

“I dreamt of  
a country  
where  
Education  
would  
prevail”  
MALALA  
YOUSAHZAI



# *iSchool* PEST MANAGER



33

<http://ischoolpestmanager.org/>

TEXAS A&M  
**AGRILIFE**  
EXTENSION

**OSU**  
Oregon State  
UNIVERSITY



Colorado  
State  
University

# *iSchool* PEST MANAGER

- The iSchool Pest Manager will use the national school IPM implementation team and EPA Center of Expertise to develop a central hub for IPM materials for use by school districts in order to implement and practice verifiable IPM.
- We aim to make school IPM more understandable, efficient, effective and easy. The overall goal is to increase the number of schools conducting verifiable IPM programs.

# *iSchool* PEST MANAGER

- This proposal is designed to collect all school IPM resources, place them in one location, and disseminate them back in a user-friendly format.
- In addition, this proposal aims to partner with all school IPM educators in academia, government, and non-governmental organizations to ensure the high quality of information presented.
- The payoff:
  - ▣ A comprehensive website, similar to NPIC website
  - ▣ A mobile web application (“app”) for tablets and smart phones



# Let's make a list.

<a href="http://www.ext.colostate.edu/pubs/natres/06520.html">http://www.ext.colostate.edu/pubs/natres/06520.html</a>	Deer	website	Fact Sheet	Wildlife	Other
<a href="http://www.ipm.ucdavis.edu/PDF/PESTNOTES/pndeerp.pdf">http://www.ipm.ucdavis.edu/PDF/PESTNOTES/pndeerp.pdf</a>	Deer	document (pdf)	Fact Sheet	Wildlife	Other
<a href="http://www.pestworld.org/media/399753/ngma-pest-flash-cards-15.pdf">http://www.pestworld.org/media/399753/ngma-pest-flash-cards-15.pdf</a>	Deer Mice	document (pdf)	Fact Sheet   Action Plan	Rodents	Mice
<a href="http://ccsipm.wordpress.com/pest-problem-solver/deer-mouse/">http://ccsipm.wordpress.com/pest-problem-solver/deer-mouse/</a>	Deer Mouse	website	Fact Sheet	Rodents	Mice
<a href="http://www.ipm.ucdavis.edu/PDF/PESTNOTES/pndeermouse.pdf">http://www.ipm.ucdavis.edu/PDF/PESTNOTES/pndeermouse.pdf</a>	Deer Mouse	document (pdf)	Fact Sheet	Rodents	Mice
<a href="http://schoolipm.illinois.edu/deermouse/">http://schoolipm.illinois.edu/deermouse/</a>	Deer Mouse	website	Fact Sheet	Rodents	Mice
<a href="http://schoolipm.tamu.edu/files/2012/08/DEET-Answers.pdf">http://schoolipm.tamu.edu/files/2012/08/DEET-Answers.pdf</a>	DEET Answers	document (pdf)	Fact Sheet	Insects	Mosquitoes   Stinging
<a href="http://apps.cdpr.ca.gov/schoolipm/overview/definition_ipm.cfm">http://apps.cdpr.ca.gov/schoolipm/overview/definition_ipm.cfm</a>	Definition of Integrated Pest Management (as stated in the Healthy Schools Act of 2000)	website	Legislation   Other		
<a href="http://www.ipm.ucdavis.edu/PDF/PESTNOTES/pndelusoryparasitosis.pdf">http://www.ipm.ucdavis.edu/PDF/PESTNOTES/pndelusoryparasitosis.pdf</a>	Delusory Parasitosis: What's Attacking Me?	document (pdf)	Fact Sheet	Insects	Nuisance: Other/all
<a href="http://www.dec.ny.gov/docs/materials_minerals_pdf/ch85deptdet.pdf">http://www.dec.ny.gov/docs/materials_minerals_pdf/ch85deptdet.pdf</a>	Department Determination for Emergency Pesticide Application	document (pdf)	Template/Sample - Form		
<a href="http://webdoc.agsci.colostate.edu/ipm/Fact%20Sheet%20Template%20New--Design&amp;Construction%20Fact%20sheet8.pdf">http://webdoc.agsci.colostate.edu/ipm/Fact%20Sheet%20Template%20New--Design&amp;Construction%20Fact%20sheet8.pdf</a>	Design and Construction Guidelines	document (pdf)	Fact Sheet   Guidelines		
<a href="http://njaes.rutgers.edu/pubs/fs1117/">http://njaes.rutgers.edu/pubs/fs1117/</a>	Detecting Bed Bugs Using Bed Bug Monitors	website	Action Plan	Insects	Bed Bugs
<a href="https://www.youtube.com/watch?v=FiyHkpXaHVo">https://www.youtube.com/watch?v=FiyHkpXaHVo</a>	Detecting spotted wing Drosophila larva in fruit using the salt water test	video	Guidelines   Action Plan	Insects	Flies
<a href="http://www.idph.state.il.us/envhealth/pdf/IPM_Guidelines.pdf">http://www.idph.state.il.us/envhealth/pdf/IPM_Guidelines.pdf</a>	Developing and implementing an Integrated Pest Management Program in Schools and Day Care Centers	document (pdf)	Guidelines   Action Plan	Rodents   Insects   Wildlife	
<a href="http://www.ipm.ucdavis.edu/PMG/vr785300711.html">http://www.ipm.ucdavis.edu/PMG/vr785300711.html</a>	Dichondra Flea Beetle	website	Fact Sheet	Insects	Beetles
<a href="http://www.ipminstitute.org/school_ipm_2015/PestWork068raband.ppt">http://www.ipminstitute.org/school_ipm_2015/PestWork068raband.ppt</a>	Do Yellowjacket Traps Reduce Stinging Risks?	document (ppt)	Presentation	Insects	Stinging
<a href="https://www.youtube.com/watch?v=2Tmc4hhSdH4&amp;list=SPgU4sABHrUrrheC4rNNgB1ou7JlnpKvP">https://www.youtube.com/watch?v=2Tmc4hhSdH4&amp;list=SPgU4sABHrUrrheC4rNNgB1ou7JlnpKvP</a>	Do You Have Pests in Your Child Care Center?	video	Presentation	Arachnids   Insects   Rodents	Cockroaches: Other/all   Ants: Other/all   Mice   Rats   Spiders
<a href="http://www.cdpr.ca.gov/docs/pestmgmt/pubs/cash_mosquitoes.pdf">http://www.cdpr.ca.gov/docs/pestmgmt/pubs/cash_mosquitoes.pdf</a>	Don't Grow Your Own Mosquitoes!	document (pdf)	Action Plan	Insects	Mosquitoes
<a href="http://ccsipm.wordpress.com/about-us/draft-ipm-policy/">http://ccsipm.wordpress.com/about-us/draft-ipm-policy/</a>	Draft IPM Policy	website	Template/Sample - Policy		
<a href="http://schoolipm.illinois.edu/drainflies/">http://schoolipm.illinois.edu/drainflies/</a>	Drain Flies	website	Fact Sheet	Insects	Flies
<a href="http://ohioline.osu.edu/ent-fact/pdf/0041.pdf">http://ohioline.osu.edu/ent-fact/pdf/0041.pdf</a>	Drain Flies (Moth Flies)	document (pdf)	Fact Sheet   Action Plan	Insects	Flies
<a href="http://my.extension.illinois.edu/documents/332091703090309/MF2869.pdf">http://my.extension.illinois.edu/documents/332091703090309/MF2869.pdf</a>	Droplet Size Calibration: A New Approach to Effective Spraying	document (pdf)	Guidelines		
<a href="http://schoolipm.illinois.edu/drugstorebeetles/">http://schoolipm.illinois.edu/drugstorebeetles/</a>	Drugstore & Cigarette Beetles	website	Fact Sheet	Insects	Beetles
<a href="http://www.ipm.ucdavis.edu/PDF/PESTNOTES/pndrywoodtermites.pdf">http://www.ipm.ucdavis.edu/PDF/PESTNOTES/pndrywoodtermites.pdf</a>	Drywood Termites	document (pdf)	Fact Sheet   Action Plan	Insects	Termites
<a href="http://njaes.rutgers.edu/pubs/publication.asp?pid=FS778">http://njaes.rutgers.edu/pubs/publication.asp?pid=FS778</a>	Early-Entry Work Situations	website	Fact Sheet		

# *iSchool* PEST MANAGER

- What did we find?
  - ▣ 1,315 resources, including:
    - ▣ 47 videos
    - ▣ 37 Power Point presentations
    - ▣ 699 pdf files
    - ▣ 121 modifiable doc files
    - ▣ 393 websites
    - ▣ 12 interactive games/apps

# *iSchool* PEST MANAGER

- What types of resources are they?
  - ▣ 36 Template/sample forms
  - ▣ 20 Template/sample IPM policies
  - ▣ 16 Template/sample IPM plans
  - ▣ 30 Other template/samples
  - ▣ 59 Pest Log/forms
  - ▣ 35 Posters or signs
  - ▣ 78 Checklists
  - ▣ 25 Sample Letters/notifications
  - ▣ 31 Training materials
  - ▣ 42 Regulations/legislation
  - ▣ 626 Fact sheets

# *iSchool* PEST MANAGER

## □ Pest-specific resources

- ▣ 53 resources about arachnids
- ▣ 16 resources about birds
- ▣ 7 resources about germs/microbes (cleaning)
- ▣ 422 resources about insects
- ▣ 73 resources about rodents
- ▣ 14 resources about weeds
- ▣ 52 resources about wildlife



# iSchool PEST MANAGER

- Insect-specific resources
- Only 11 insects have 15+ resources
  - 58 resources about [ants](#)
  - 36 resources about [bed bugs](#)
  - 20 resources about [beetles](#)
  - 30 resources about [cockroaches](#)
  - 34 resources about [flies](#)
  - 42 resources about [head lice](#)
  - 21 resources about [mosquitoes](#)
  - 42 resources about [stinging insects \(bees, wasps, etc.\)](#)
  - 30 resources about [spiders](#)
  - 38 resources about [mice](#)
  - 25 resources about [rats](#)

# *iSchool* PEST MANAGER

- What does website do?
  - ▣ Show me checklists for groundskeepers.
  - ▣ Show me a fact sheet about bats in my state.
  - ▣ I'm a turf manager, what do you have for me?
  - ▣ Do you have a calendar/flow-chart/database? Yes.
  - ▣ Feature: Online training modules by StopSchool Pests and other state required content.
  - ▣ Connect: Links to other resources for images, interactive monitoring capability, and key tools

# *iSchool* PEST MANAGER

- What will the mobile web app do?
  - ▣ Quick IPM tips for major pests
  - ▣ Calendar-driven reminders for maintenance & monitoring
  - ▣ Selected “best of the best” resources for easy browsing on mobile devices
  - ▣ Search for pesticide products
  - ▣ Training resources: videos, checklists
  - ▣ Spin the Wheel of Random thoughts

# Quick IPM tips in the web app:

- 200 words or less
- 8<sup>th</sup> grade reading level

## Boxelder Bugs

- [Confirm their identity](#). Boxelder bugs can be confused with other bugs that look similar.
- Vacuum or sweep up boxelder bugs. Discard the bag or vacuum bag promptly. You can also freeze the vacuum bag overnight to kill the bugs.
- Wash boxelder bugs from outside walls with water or soapy water.
- Caulk or seal cracks and crevices around your home. Boxelder bugs seek shelter wherever they can find it.
- Install door sweeps, garage door seals and screens on windows, soffits and dryer vents.
- Eliminate debris near your home that may provide shelter for boxelder bugs.
- Keep the ground below boxelder trees free of fallen seedpods.
- Remove female box elder trees. They can be replaced with males, which do not produce seedpods.
- If you choose to use a pesticide, try a [lower toxicity](#) product first, and be sure to [read the label](#) before you buy.

# School PEST MANAGER

[Home](#) [What's New?](#) [File Types](#) [Regulations](#) [Training Modules](#) [Document Toolbox](#) [Pests](#) [Help](#) [Contact Us](#) [Show Me Everything](#)

AA

## Go Local



- [State resources](#)
- [State IPM Programs](#)
- [Laws in each state](#)
- [State regulators](#)
- [University Extension](#)

## Just For You



- [IPM Coordinators](#)
- [Facility Managers](#)
- [Custodial Staff](#)
- [Grounds/Landscape](#)
- [School Nurses](#)
- [Kitchen Staff](#)
- [Teachers](#)
- [Administrators](#)
- [Pest Mgmt. Professionals](#)
- [All Hands](#)

## What's Bugging You?



- [Ants](#)
- [Bees & Wasps](#)
- [Cockroaches](#)
- [Pantry Pests/Stored Products](#)
- [Public Health](#)
- [Wood-Destroying Organisms](#)
- [Flies](#)
- [Occasional Invaders](#)
- [Spiders](#)
- [Rodents](#)
- [Weeds](#)
- [Wildlife](#)

## Document Toolbox



- [Templates](#)
- [Fact Sheets](#)
- [Action Plans](#)
- [Presentations](#)
- [Training](#)
- [Guidelines](#)
- [Checklists](#)
- [Regulations](#)
- [Posters/Signs](#)
- [Log/Forms](#)
- [Award/Certificate](#)

[Switch to Mobile site](#)



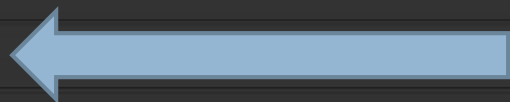
This project is a cooperative agreement (#X6-83559001) between the US Environmental Protection Agency (EPA) and Texas A&M AgriLife Extension, with cooperators at Auburn University, Oregon State University, Colorado State University and others. A national School IPM workgroup was assembled to ensure that the best possible information would be made available in a format that works for school employees.



Mobile iSchool Pest Manager



- Checklists >
- PEST Tips >
- Pest Action Plans >
- IPM Calendar >
- IPM Roles >
- Templates/Forms >
- IPM Resources >
- Videos >
- Ask An Expert >
- Pesticides >
- Spin "The Wheel Of Random Thoughts"! >



This project is a cooperative agreement (#X8-83559001) between the US Environmental Protection Agency (EPA) and Texas A&M AgriLife Extension, with cooperators at Auburn University, Oregon State University, Colorado State University and others.

[Switch to Desktop site](#)

# iSchool PEST MANAGER

IPM Resource

Document Toolbox

File types (i.e. video, sheet, Word document)

Just for You

For Specific Pests

Forms, signs, certificates, etc.

Show me everything

Training

SiriusXM Just For You

ischoolpestmanager.org/

Apps Facebook Twitter Other bookmarks

Just For You

- IPM Coordinators
- Facility Managers
- Custodial Staff
- Grounds/Landscape
- School Nurses
- Kitchen Staff
- Teachers
- Administrators
- Pest Mgmt. Professionals

Just For You: School Nurses

Showing 1 to 10 of 84 entries

Search:

Resources

- ¿Tiene Piojos?
- What Should I Do If My Child Has Lice? (Color)
- What Should I Do If My Child Has Lice? (B&W)
- What Are Lice? (Color)
- What are Lice? (Black and White)
- West Nile Virus School Fact Sheet
- West Nile Virus in North America
- West Nile Fite the Bite Flyer
- Wasp and Bee Management Around Schools
- TX DSHS West Nile Factsheet

Resource

Show 10 entries

Previous 1 2 3 4 5 ... 9 Next

# School PEST MANAGER

[Home](#) [What's New?](#) [File Types](#) [Regulations](#) [Training Modules](#) [Document Toolbox](#) [Pests](#) [Help](#) [Contact Us](#) [Show Me Everything](#)

AA

## Go Local



- [State resources](#)
- [State IPM Programs](#)
- [Laws in each state](#)
- [State regulators](#)
- [University Extension](#)

## Just For You



- [IPM Coordinators](#)
- [Facility Managers](#)
- [Custodial Staff](#)
- [Grounds/Landscape](#)
- [School Nurses](#)
- [Kitchen Staff](#)
- [Teachers](#)
- [Administrators](#)
- [Pest Mgmt. Professionals](#)
- [All Hands](#)

## What's Bugging You?



- [Ants](#)
- [Bees & Wasps](#)
- [Cockroaches](#)
- [Pantry Pests/Stored Products](#)
- [Public Health](#)
- [Wood-Destroying Organisms](#)
- [Flies](#)
- [Occasional Invaders](#)
- [Spiders](#)
- [Rodents](#)
- [Weeds](#)
- [Wildlife](#)

## Document Toolbox



- [Templates](#)
- [Fact Sheets](#)
- [Action Plans](#)
- [Presentations](#)
- [Training](#)
- [Guidelines](#)
- [Checklists](#)
- [Regulations](#)
- [Posters/Signs](#)
- [Log/Forms](#)
- [Award/Certificate](#)

[Switch to Mobile site](#)



## Show Me Everything

All resources are displayed below. You can sort the table by clicking column headings and further refine the list using the "Search" box.

Showing 1 to 10 of 1,045 entries

Search:

Resource	Resource Type & Format	Pest category & Specific pest	Pub. date & Last updated
<b>A Classroom InPEStigation</b>	Lesson Plans website		2014/01/1 [unknown]
<b>A Classroom InPEStigation, Life Science Curriculum for Grades 3-5</b>	Lesson Plans document (.pdf)		2014/01/1 [unknown]
<b>A Generation in Jeopardy: How pesticides are undermining our children's health &amp; intelligence</b>	Article document (pdf)		2012/10/1 [unknown]
<b>A Model Integrated Pest Management Policy for Michigan Schools</b>	Template/Sample - Policy document (.pdf)		1995/01/1 2011/07/15
<b>A Tour of Pest Problem Areas in Schools</b>	Presentation document (pdf)		1998/01/1 [unknown]
<b>A Tour of Pest Problem Areas in Schools</b>	Guidelines document (ppt)		1998/01/1 [unknown]
<b>ABCs of IPM DVD/Video Series An Introduction Module 1</b>	Training video		2010/11/3 [unknown]
<b>ABCs of IPM DVD/Video Series Bids and Contracts Module 4</b>	Training video		2010/11/3 [unknown]
<b>ABCs of IPM DVD/Video Series Food Handling Areas Module 3</b>	Training video		2010/11/3 [unknown]
<b>ABCs of IPM DVD/Video Series Landscape IPM Module 6</b>	Training video		2010/11/3 [unknown]

Resource	Resource	Pest category &	Pub. date &
----------	----------	-----------------	-------------

# School PEST MANAGER

What's

Training Modules Document Tools

Go Local



- State resources
- State IPM Programs
- Laws in each state
- State regulators
- University Extension

Just For You



- IPM Coordinators
- Facility Managers
- Custodial Staff
- Grounds/Landscape
- School Nurses
- Kitchen Staff
- Teachers
- Administrators
- Pest Mgmt. Professionals
- All Hands

What's



- Ants
- Bees &
- Cockro
- Pantry
- Public H
- Wood-t
- Flies
- Occasio
- Spiders
- Rodent
- Weeds
- Wildlife

Other Training Materials

Self Paced Learning Page for Urban IPM

IPM Coordinators

Facility Managers

Custodial Staff

Grounds/Landscape

School Nurses

Kitchen Staff

Teachers

Administrators

Pest Mgmt. Professionals

[Switch to Mobile site](#)



# iSchool PEST MANAGER



Home Resource

## Self Paced Learning Page

Pest Management in and Around  February 05

 Like  Tweet  



Welcome to the to Urban IPM Self-Paced Learning you to use to train yourself, or others about integ use our materials for your training purposes, but in front of a group.

### Stop School Pests

The Stop School Pests IPM training materials include on-line (View Power Point) and in-class training (Download) materials. These learning le groups including: school administrators, facility m

### Stop School Pests

The Stop School Pests IPM training materials include on-line (View Power Point) and in-class training (Download) materials. These learning lessons are for all school community stakeholder groups including: school administrators, facility managers, pest management professionals/school IPM coordinators, landscape and grounds staff, custodians, maintenance staff, nurses, food service staff and teachers. Proficiency exams are being developed to help instructor's measure knowledge after the presentation.

- Practices to Maintain Healthy Landscapes 1 of 4 ([View Powerpoint](#), [Download PowerPoint](#))
- IPM for Administrators 1 of 2 ([View Powerpoint](#), [Download PowerPoint](#))
- IPM for Food Service Staff 1 of 2 ([View Powerpoint](#), [Download PowerPoint](#))
- School IPM for Nurses 2 of 2 ([View Powerpoint](#), [Download PowerPoint](#))
- Cultural Turf Management Practices 2 of 4 ([View Powerpoint](#), [Download PowerPoint](#))
- Common Turfgrass Diseases 4 of 4 ([View Powerpoint](#), [Download PowerPoint](#))
- IPM for Maintenance Staff Lesson 1 ([View Powerpoint](#), [Download PowerPoint](#))
- Common Turfgrass Weeds and Insects 3 of 4 ([View Powerpoint](#), [Download PowerPoint](#))
- Teaching IPM (Using IPM as a Curriculum Element) Lesson 2 of 2 ([View Powerpoint](#), [Download PowerPoint](#))
- School IPM for Cleaning Professionals Lesson 1 of 1 ([View Powerpoint](#), [Download PowerPoint](#))
- Why do IPM? Lesson 2 of 4 ([View Powerpoint](#), [Download PowerPoint](#))
- What is IPM? Lesson 1 of 4 ([View Powerpoint](#), [Download PowerPoint](#))
- Who does IPM? Lesson 3 of 4 ([View Powerpoint](#), [Download PowerPoint](#))

This material is based upon work that is supported in part by the US Environmental Protection Agency (EPA) under the School Integrated Pest Management (IPM) Grants opportunity (#X8-93558901) awarded to the University of Arizona and partnering institutions; the National Institute of Food and Agriculture, U.S. Department of Agriculture (USDA NIFA) under the Crop Protection and Pest Management, Extension Implementation Program, award number 2014-70006-22488; and the University of Arizona - Arizona Pest Management Center (APMC). Any opinions or recommendations expressed in this material are those of the project partners and do not necessarily reflect the views of the USDA, the EPA or the University of Arizona.

### Maine Department of Agriculture

- Ants, Mice, Bed Bugs, and Other Critters Common and Challenging Pests ([Embeddable PowerPoint](#))
- Managing and Preventing Weeds and Other Outdoor Pests ([View Powerpoint](#), [Download PowerPoint](#))
- Got Pests? Maintenance Solutions to Pest Problems ([View Powerpoint](#), [Download PowerPoint](#))
- Pesticide Choice for Schools ([View Powerpoint](#), [Download PowerPoint](#))

May 0

2016 All Bugs Good and Bad Webinar Series: Managing Pests of Backyard Pecans

June 3

2016 All Bugs Good and Bad Webinar Series: Spotted Wing Drosophila

August 5

2016 All Bugs Good and Bad Webinar Series: Controlling Roaches Before They Control You

September 2

2016 All Bugs Good and Bad Webinar Series: Snake Identification

October 7

2016 All Bugs Good and Bad Webinar Series: Don't use too much pesticide or fertilizer – learn how to calibrate your home grounds and garden sprayers and spreaders

[SEE MORE](#)

### Resources

School Pest Management  
Residential Pest Management  
Kids Corner

### Recognition

Our Partners

## School IPM for Nurses



### Learning Objectives – Learning Lesson 1

#### 1. Identify health risks associated with common pests:

- |                         |                          |
|-------------------------|--------------------------|
| a. Bed bugs             | l. Stinging caterpillars |
| b. Head lice            | ll. Ringworm             |
| c. Scabies mites        | lll. Venomous snakes     |
| d. Fleas                | iv. Commensal rodents    |
| e. Honey bees           |                          |
| f. Stinging wasps       |                          |
| g. Fire ants            |                          |
| h. Spider and scorpions |                          |
| i. Mosquitoes           |                          |
| j. Bats and rabies      |                          |
| k. Ticks                |                          |



slide 2 / 61

Views: 272

## School IPM for Nurses

by Dawn Gouge on September 16, 2015

No Description



# iSchool PEST MANAGER

The University of Nebraska Pesticide Safety Team developed several power points on pest

Silverfish



Home

## Self Paced Learning

Pest Management in and Around Structures



Welcome to the to Urban IPM Self-Paced Learning materials. You can use these materials to train yourself, or others. You can also use our materials for your training presentation in front of a group.

### Stop School Pests


The Stop School Pests IPM training materials include training (Download) materials. These materials are for groups including: school administrators, teachers, and students.

#### Events Index

Search

Filter Events ▾

☒ Slide Changes

▶  Sharing [0:00:00]

#### Birds



Droppings from a large roost in a building or in trees can cause walking hazards, be unsightly, and present the potential for disease exposure.



UNIVERSITY OF  
**Nebraska**  
Lincoln



0:04:11/0:32:20



## Go Local


Please choose your state to show only applicable resources, or **show all states** to reset the list.

Choose your state:

Alabama  
Alaska  
American Samoa  
Arkansas  
Arizona  
California  
Colorado  
Connecticut  
Delaware  
District Of Columbia

You can sort the table by clicking column headings and further refine the list using the "Search" box.

Showing 1 to 10 of 57 entries

Search: 

Resource	Resource Type & Format	Pest category & Specific pest	State(s)	Pub. date & Last updated
<b>Integrated Pest Management: A Curriculum for Early Care and Education Programs</b>	Action Plan document (pdf)		CA	2011/01/1 [unknown]
<b>Manejo Integrado de Plagas: Curr�culo para Programas de Cuidado y Educaci�n Temprana de Ni�os</b>	Guidelines document (pdf)		CA	2011/01/1 [unknown]
<b>CA Database of Tools and Templates for IPM</b>	Database   Template/Sample website		CA	2013/01/1 [unknown]
<b>CA School pesticide use reporting regulations</b>	Fact Sheet document (pdf)		CA	
<b>California Department of Pesticide Regulation Databases</b>	Database website		CA	2013/01/1 [unknown]
<b>Integrated Pest Management: A Toolkit for Early Care and Education Programs</b>	Guidelines website		CA	2/1/2010 12/27/2015

## Contact Us

This website, the iSchool Pest Manager, is a central hub for IPM materials use in verifiable IPM. The overall goal is to increase the numbers of school verifiable school programs, improving human health, the environment, and community.

This project is a cooperative agreement between the US Environmental Protection Agency (EPA) and Texas A&M Agricultural Extension, with cooperators at Auburn University, and others. A national School IPM workgroup was assembled to make possible information would be made available in a format that works for school employees.

- To submit new School IPM resources, **use this form.**
- To contact the project leader, contact **Janet Hurley**

[Switch to Mobile site](#)

This project is a cooperative agreement (#X8-83559001) between the US Environmental Protection Agency, Oregon State University, Colorado State University and others. A national School IPM workgroup was assembled to make possible information would be made available in a format that works for school employees.

## iSchool Pest Manager: Additions & Corrections

Thank you for your help improving and maintaining the national inventory of school IPM resources. Please fill out this form for each addition/correction you suggest. The website will be updated every few weeks.

\* Required

### Are you suggesting a correction?

If not, skip this question. If so, please enter the record number (ID) for the existing record. The information you enter will \*replace\* the existing record.

### web address (url) \*

This inventory only includes resources that are available online. The url should begin with 'http'.

### Title of Resource \*

Capitalize the major words, please. For example, "Putting IPM into Practice".

### File type \*

### Type of Resource \*

If more than one applies, please select the second 'type of resource' in the next question. If only one of these applies, please skip the following question.



# iSchool PEST MANAGER

[About](#) [What's New?](#) [File Types](#) [Regulations](#) [Training Modules](#) [Document Toolbox](#) [Pests](#) [Help](#) [Contact Us](#) [Show Me Everything](#)

AAA

## Go Local



- State resources
- State IPM Programs
- Laws in each state
- State regulators
- University Extension

## Just For You



- IPM Coordinators
- Facility Managers
- Custodial Staff
- Grounds/Landscape
- School Nurses
- Kitchen Staff
- Teachers
- Administrators
- Pest Mgmt. Professionals
- All Hands

## What's Bugging You?



- Ants
- Bees & Wasps
- Cockroaches
- Pantry Pests/Stored Products
- Public Health
- Wood-Destroying Organisms
- Flies
- Occasional Invaders
- Spiders
- Rodents
- Weeds
- Wildlife

## Document Toolbox



- Templates
- Fact Sheets
- Action Plans
- Presentations
- Training
- Guidelines
- Checklists
- Regulations
- Posters/Signs
- Log/Forms
- Award/Certificate

[Switch to Mobile site](#)

This project is a cooperative agreement (#X8-B3559001) between the US Environmental Protection Agency (EPA) and Texas A&M AgriLife Extension, with cooperators at Auburn University, Oregon State University, Colorado State University and others. A national School IPM workgroup was assembled to ensure that the best possible information would be made available in a format that works for school employees.

# *EPA meets the need for easily accessible information on school IPM and education*

## **iSchool Pest Manager**

- ▣ *School IPM Enhancement Program centralizing resources to foster nationwide School IPM implementation - \$248,218*

## **Building Sustainable School IPM Inside and Out**

- ▣ *Developing and Implementing Standardized Training Materials and IPM Proficiency Exams for certification - \$250,000*

## **To Learn More**

- ▣ *Visit <https://www.epa.gov/managing-pests-schools/school-integrated-pest-management-ipm-grants>*

# Upcoming School IPM Webinars

- May 17 - Ants, The #1 Pest in Schools
- June 7 - Termite Mitigation in Schools

**[epa.gov/managing-pests-schools](http://epa.gov/managing-pests-schools)**

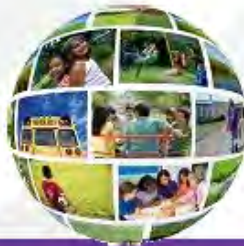


# Certificates of Attendance

## CERTIFICATE *Of* PARTICIPATION

This is to certify the above participant attended the 90-minute webinar entitled

### STOP SCHOOL PESTS AND IPESTMANAGER – SCHOOL IPM EDUCATIONAL PROGRAMS



PRESENTED BY: EPA's Center of Expertise for School IPM

ON THIS DAY: May 10, 2016

# *Sign up for* EPA's School IPM Listserv

## Subscribers will Receive

- ▣ Webinar invitations
- ▣ IPM-related highlights and articles
- ▣ Updates on EPA school IPM activities

## How to Subscribe

- ▣ Visit [epa.gov/managing-pests-schools](https://epa.gov/managing-pests-schools)
- ▣ E-mail us: [school.ipm@epa.gov](mailto:school.ipm@epa.gov)



# Questions?



## **Center of Expertise for School IPM**

**[school.ipm@epa.gov](mailto:school.ipm@epa.gov)**

**844-EPA-SIPM**

**[epa.gov/managing-pests-schools](http://epa.gov/managing-pests-schools)**