



Integrated Pest Management
A curriculum module for high school science classes
 from Toxic Free NC, www.ToxicFreeNC.org

Menu Design:

We present the module as a menu with the following courses:

- The appetizer is an introduction to Integrated Pest Management.
- Entrees focus on pest control practices in the students' own environments.
- Side Dishes provide content enrichment to complement the entrees.
- Desserts allow students to make action plans or conduct further research.

Menu of Activities and Resources

A P P E T I Z E R	Introduction to Integrated Pest Management (IPM) <ul style="list-style-type: none"> • For the teacher: Core Learning Questions • Introduction to IPM • <u>When Is a Pest?</u>: http://paipm.cas.psu.edu/schools/curriculum/eeipm.html#ipm • <u>IPM Pyramid of Tactics</u> http://paipm.cas.psu.edu/pdf/PyramidPDF1.pdf • <u>Videos "Putting Aside Pesticides" and "Kids and Chemicals"</u>: http://paipm.cas.psu.edu/videos.html#Pgen 		
E N T R E E S	Pests and Pest Control in Your School <ul style="list-style-type: none"> • School Tour and Pest Mapping Activities • CHEJ's <u>Green Flag Schools Program</u>: http://www.greenflagschools.org • NRDC's <u>Green Squad Interactive Web Site</u>: http://www.nrdc.org/greensquad/intro/intro_4.asp 	Pests and Pest Control in Your Home <ul style="list-style-type: none"> • Home Pest Mapping Activity • <u>IPM for Homes</u> http://www.nysipm.cornell.edu/publications/homesbro/index.htm 	Pests and Pest Control in Local Institutions <ul style="list-style-type: none"> • Local Institutions Pest Control Inquiry Activity

S I D E	<p>Pesticides and Human Health</p> <ul style="list-style-type: none"> • Drawing Pesticide Exposure Activity • Environmental Exposure Demonstration <p><i>Other ideas: Toxicology & Epidemiology - look for current research on pesticides & human health</i></p>	<p>Pesticides and our Ecosystem</p> <ul style="list-style-type: none"> * Louisiana Public Broadcasting: <u>The Aggravation of Accumulation:</u> http://www.lpb.org/education/classroom/itv/environmentalchallenge/teacherguide/module5/5accu.htm * National Geographic: <u>Alarming Frogs:</u> http://www.nationalgeographic.com/xpeditions/lessons/18/g912/hayes1.html 	<p>Biology of Pest Species</p> <p><i>Choose lessons on pest insect or plant anatomy and/or population ecology that are appropriate to curriculum goals and grade level.</i></p> <p><i>Ideas to focus on: Natural Selection & Resisitance, Population Biology.</i></p>	<p>Politics of Pests and Pest Control</p> <ul style="list-style-type: none"> • Who Makes Decisions about Pesticides? • Iowa State University: <u>IPM, Pesticides and Regulations, A Lesson Plan:</u> http://www.ipm.iasstate.edu/ipm/schoolipm/node/77
D E S S E R T S	<p style="text-align: center;">Take Action!</p> <ul style="list-style-type: none"> • Pest Problem Action Plan Activity, Global Pesticide Issue Inquiry Activity, Community Activism Action Plan Activity • Writing as an Advocate for Change 			

One Teacher’s Module:

Judy Jones created the following one-week module in her 9th grade biology class. (Note: There was a break to other curriculum activities for a week and a half between the introductory lesson and research assignments, and the rest of the module.)

- a. Appetizer: Guest speaker – Billie Karel from the Pesticide Education Project (www.pested.org) talked with students about Integrated Pest Management and how they could influence school system decision making about pest management.
- b. Entrée: Pests and Pest Control in Local Institutions – Each group of 3-4 students researched and presented a PowerPoint presentation on a pest, a pesticide, and an institution.
- c. Side Dishes: Environmental Health & Pesticides – The Food Coloring Environmental Exposure demonstration and information about cholinesterase inhibition by organophosphate pesticides were included in the introductory lesson by the guest speaker.

- d. Dessert: Community Activism – Students wrote letters to their district school board to share information about IPM and suggest adoption of an IPM policy.