



Integrated Pest Management EPA's Role

***Pesticide Program Dialogue Committee
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Session I***

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Presentation Outline

- IPM
 - What it is
 - How it is done at EPA
- School IPM Update
- Public Health IPM Update
- Agricultural IPM Update

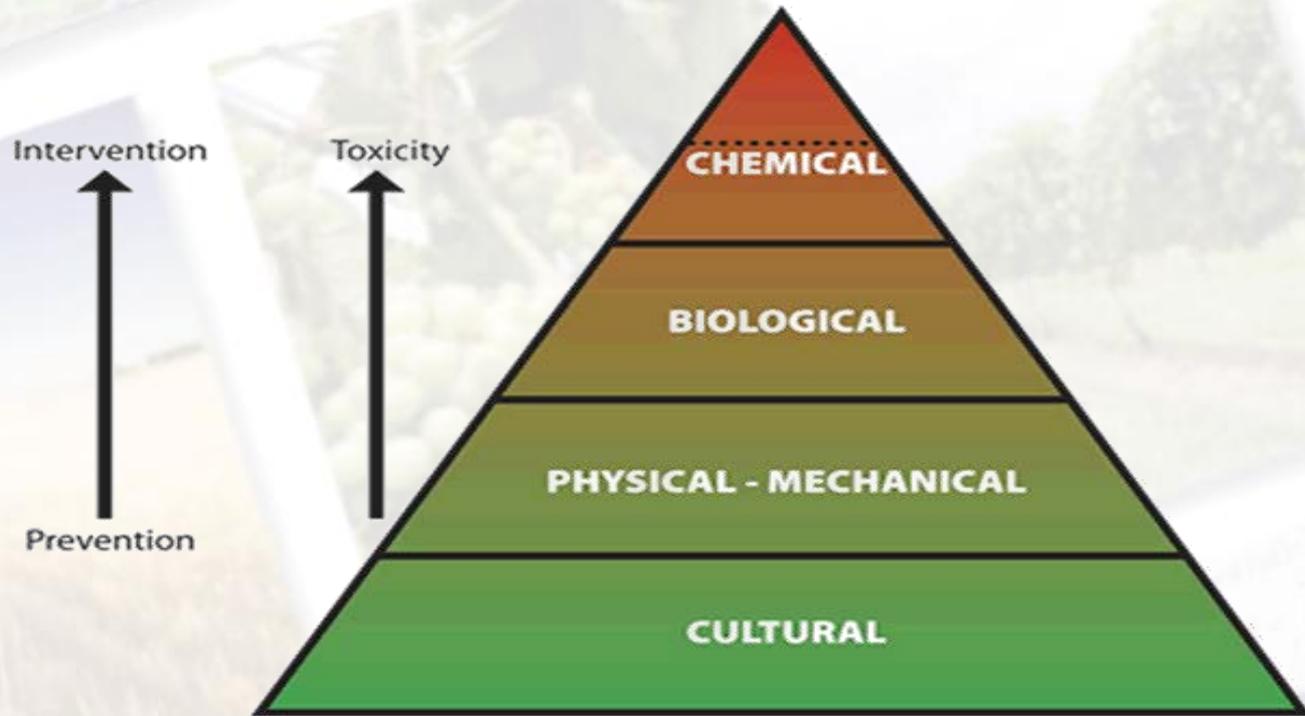


buyipm.org



What is IPM to EPA?

“...**Integrated Pest Management** is a sustainable approach to managing pests by combining biological, cultural, physical, and chemical tools in a way that minimizes economic, health, and environmental risks...” - Food Quality Protection Act (7 USC 136r-1) Sec. 303



Penn State University



Why EPA Promotes IPM



- Statutory Authority Directing EPA to Further IPM

- Federal Insecticide Fungicide and Rodenticide Act
- Food Quality Protection Act

- IPM is Beneficial

- Protects human health - controls pests while reducing potential exposure to pesticide
- Protects the environment - reduces reliance on pesticides for control of pests
- Provides for the appropriate use of pesticides

- IPM is Relevant

- Applicable where we Live, Work, Play and Farm



Scott Bauer, ARS Image Library



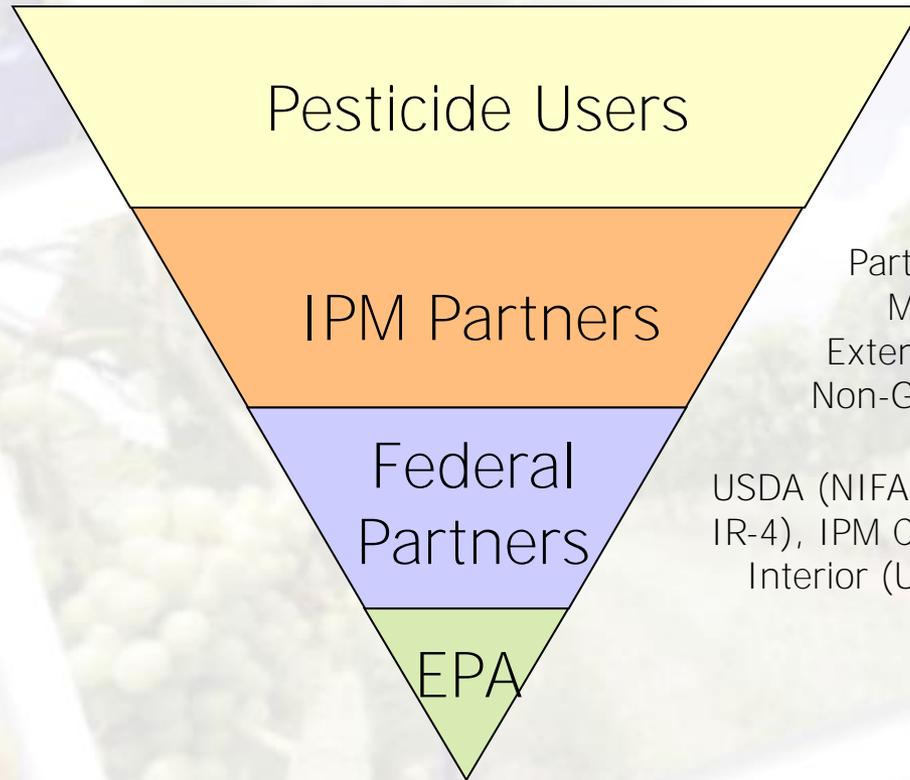
EPA's Role in IPM Promotion

- Offer grants and technology transfer initiatives to encourage IPM adoption
- Provide technical assistance for transitioning to IPM practices
- Increase public understanding of pests and pesticide risk and demand for sustainable approaches to pest control
- Coordinate IPM efforts within OPP and with other federal agencies
- Collaborate with IPM practitioners and growers at regional/state/local levels



IPM Moving Forward

**Leveraging
Our
Resources**



IPM Impacts Where We Live

Live - food we eat, water we drink,
where we live



Prominent impacts where we live:

- With 20,000 new cases annually, **Lyme Disease Association** is developing outreach network to reduce incidence rate
- 200,000 miles (321,870 km) of U.S. high-voltage transmission lines moving toward Integrated Vegetation Management through **Edison Electric Institute's** leadership
- Pollinators are critical for $\frac{1}{3}$ of human food and reproduction of >90% of flowering plants and the **North American Pollinator Protection Campaign** is facilitating pollinator awareness through extensive partner outreach



Implementing IPM in America – OPP Programs

- **Pesticide Environmental Stewardship Program**
 - Reducing risks of pests and pesticides through IPM and other innovations in a partnership challenge/commitment program
- **IPM in Schools**
 - Protecting children from unnecessary exposure to pests and pesticides by implementing IPM in schools
 - Grant program (beginning in FY11) focusing on implementation of school IPM
- **Regional Agricultural Grants (formerly PESP Regional Grants)**
 - Promoting IPM practices in the agricultural community
- **PRIA2 Partnership Grants**
 - Reducing pesticide risk by demonstrating innovative IPM practices and technologies and outreach/education
- **Biopesticide Demonstration Grants**
 - Collaboration with USDA and PMRA - Demonstrating use of biopesticides within IPM systems



School IPM

- EPA HQ and Regional School IPM management and technical contacts met March 22-23
- Issues discussed
 - Strategic planning and internal and external stakeholder collaboration
 - National Program Measures
 - Regional School IPM activities
 - School IPM grants and contracts
 - Verifiable School IPM - definition and elements
 - Current snap shot shows us at ~20% verifiable nationally



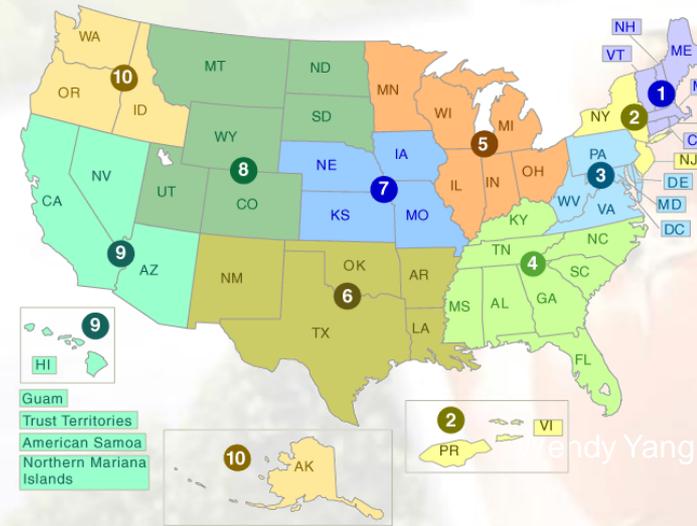
School IPM: National Program Measure

- EPA encourages the adoption of IPM practices to reduce exposure to, and risk from pests and pesticides in and around schools
- Focus
 - public schools grades K-12
- Goal
 - decrease exposure of children to pests and pesticides through increased adoption of verifiable and on-going IPM programs
- 2012 NPM Measure
 - Number of children in public schools (grades K-12) under a verifiable, ongoing school IPM program



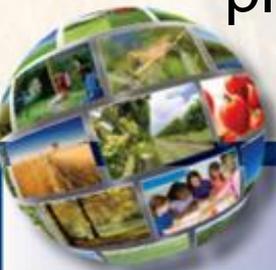
School IPM: Regional Office Activities

- Issue grants and contracts to develop and implement sustainable, verifiable school IPM programs
- Sponsor and/or support school IPM events
- Conduct/fund school IPM training, outreach, and technical assistance to increase implementation
- Provide IPM templates for school districts to encourage implementation
- Conduct outreach to pest management professionals who contract with schools on IPM techniques
- Coordinate with other regional programs that target schools
- Partner with stakeholders who implement school IPM



Verifiable School IPM

- An ongoing activity that includes these documented elements
 - Understanding your pests
 - Setting action thresholds for key pests
 - Monitoring for pests, their locations and populations
 - Removing conditions that allow pest infestation
 - Using one or more effective pest control methods including sanitation, structural maintenance, and nonchemical methods in place or in combination with pesticides



Tick IPM Conference Objectives

- Identify successful strategies for community IPM programs
- Identify research priorities and knowledge gaps
- Strengthen partnerships among participants



Susan Ellis, USDA APHIS PPQ, Bugwood.org 303



Agricultural IPM

- EPA's Support of Ag IPM Includes
 - Working closely with USDA
 - Voluntary programs
 - Grants for research and field demonstrations
 - Using IPM network to give feedback on regulatory initiatives
 - Crop tours for federal education opportunities



Agricultural IPM Activities

- Pesticide Environmental Stewardship Program
 - Diverse membership including agricultural partners
 - Member strategies include IPM measures
 - Bronze, Silver, and Gold status based on progress
 - PESP Awards for excellence
- OPP Grants Supporting IPM
 - Agriculture-specific Grants
 - PRIA2 Partnership Grants
 - Biopesticide Demonstration Grants and Outreach



Agricultural IPM & PRIA Grants



- Focus
 - OPP-identified areas of emphasis
 - Research, field demonstrations, education, outreach
- Agricultural IPM Grants
 - \$500k for State and Tribal Assistance Grants
 - Regional administration
 - \$50k per project
- PRIA2 Partnership Grants – Ag IPM Sector
 - \$500k program
 - Administered by OPP
 - \$250k per project



Implementing IPM in America - Coordination

- Interagency Coordination
 - Federal IPM Coordinating Committee
 - National IPM Evaluation Group
 - EPA Tools for Schools & Healthy Homes Programs
 - Interagency Agreement with USDA/NIFA
 - *www.ipm.gov* – federal IPM projects
 - IPM³, consortium of federal agencies and land-grant institutions delivering IPM training
- Regional and Local Coordination
 - USDA Regional IPM Centers
 - Regional IPM in Schools Working Groups
 - Regional USDA/SARE Panels
 - Regional Ag and School IPM Coordinators



Biopesticide Demonstration & Outreach

- Biopesticide Demonstration Grants
 - >85 projects (\$1.2 million) funded over seven years and matched by USDA/IR-4
 - Successful projects demonstrate effective use of biopesticides in IPM systems
 - Technology transfer projects funded for apple codling moth, lettuce leaf drop disease, and dollar spot on golf course turf
- Outreach Efforts with BPIA and Meister Media
 - Highlight successful demonstrations
 - increase visibility of biopesticides



Summary

- OPP's IPM and stewardship efforts complement its regulatory program
- IPM is a proven approach to reducing pesticide risk
- Through partnership, collaborations, initiatives, and competitive grants, OPP promotes IPM adoption
- Efforts address risks where we Live, Work, Play and Farm

