



Pesticide Program Performance Measurement

****Presentation at Collaborative Food Safety Forum****

*Bill Jordan, Deputy Director
Office of Pesticide Programs (OPP)
U.S. Environmental Protection Agency (EPA)
June 22, 2015*



Office of Pesticide Programs

Protect Public Health and the Environment

- Regulate large pesticide market & use of pesticides
- Assess pesticides to evaluate and manage risks
- License/Re-license Pesticides
 - 1200/year Registration Decisions
- Establish maximum levels for pesticide residues on food
- Set regulatory controls on the manufacture/use of pesticides
- Promote environmental stewardship
- Implement multiple statutes while doing the above



Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)

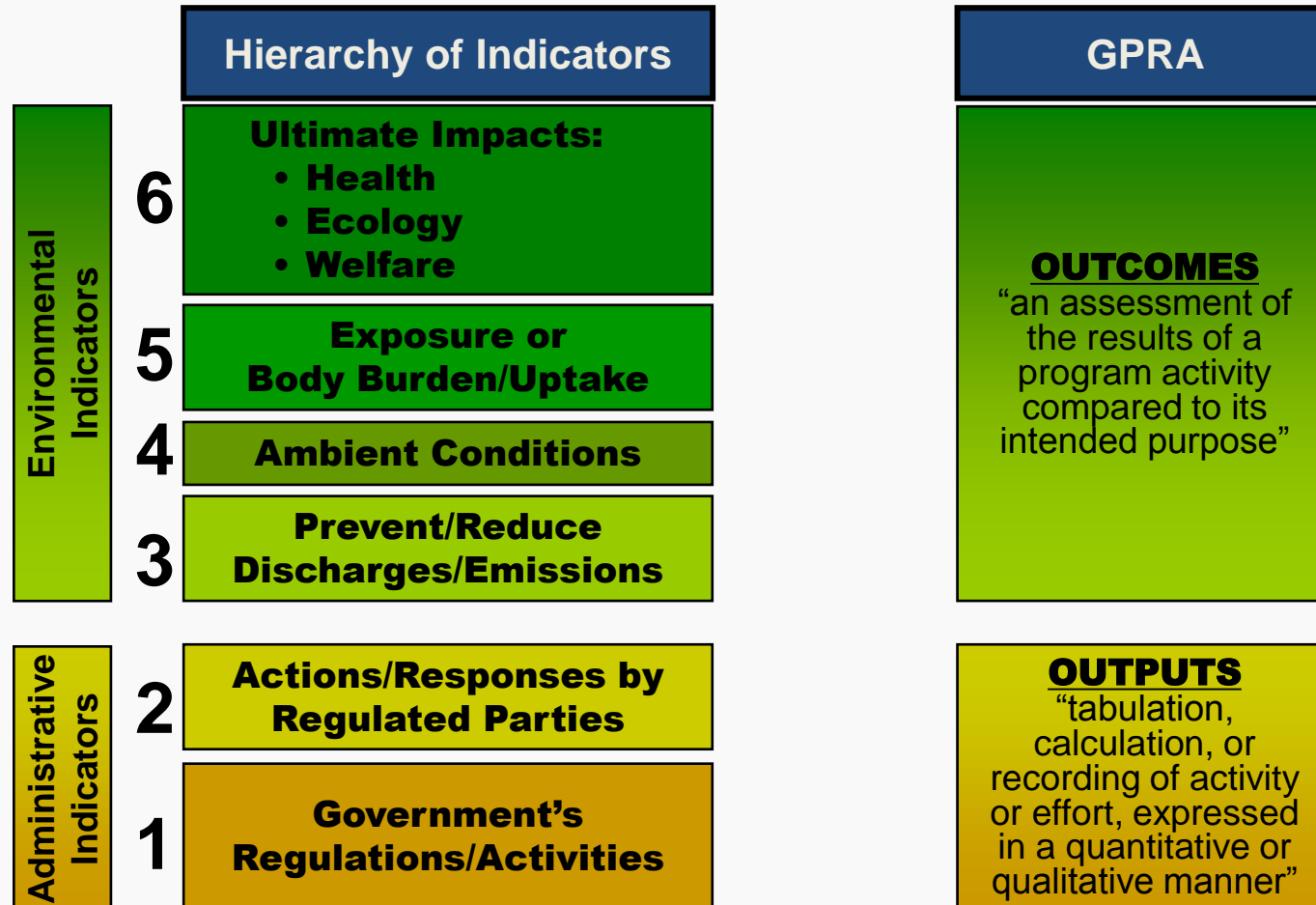
- FIFRA regulates pesticide distribution, sale and use
- All pesticides distributed or sold in the U.S. must be registered (licensed) by EPA
 - The FIFRA standard for registration and continued registration is that the **pesticide will not cause unreasonable risk** to man or the environment
 - The unreasonable risk standard allows, in some instances, for the consideration of the benefits from the use of the pesticide



Other Statutes regulating Pesticides

- In addition to FIFRA, other laws impact pesticide regulation:
 - **FFDCA: Federal Food, Drug and Cosmetic Act**
 - Governs establishment of tolerances (maximum pesticide residue limits on food)
 - **FQPA: Food Quality Protection Act**
 - Imposed stricter standards for tolerance setting
 - Required reevaluation of pesticides every 15 years (registration review)
 - **PRIA: Pesticide Registration Improvement Act**
 - Authorized pesticide registration service fees
 - **ESA: Endangered Species Act**
 - Protects endangered species from harm resulting from use of pesticides

Hierarchy of Measures





EPA Pesticide Measures

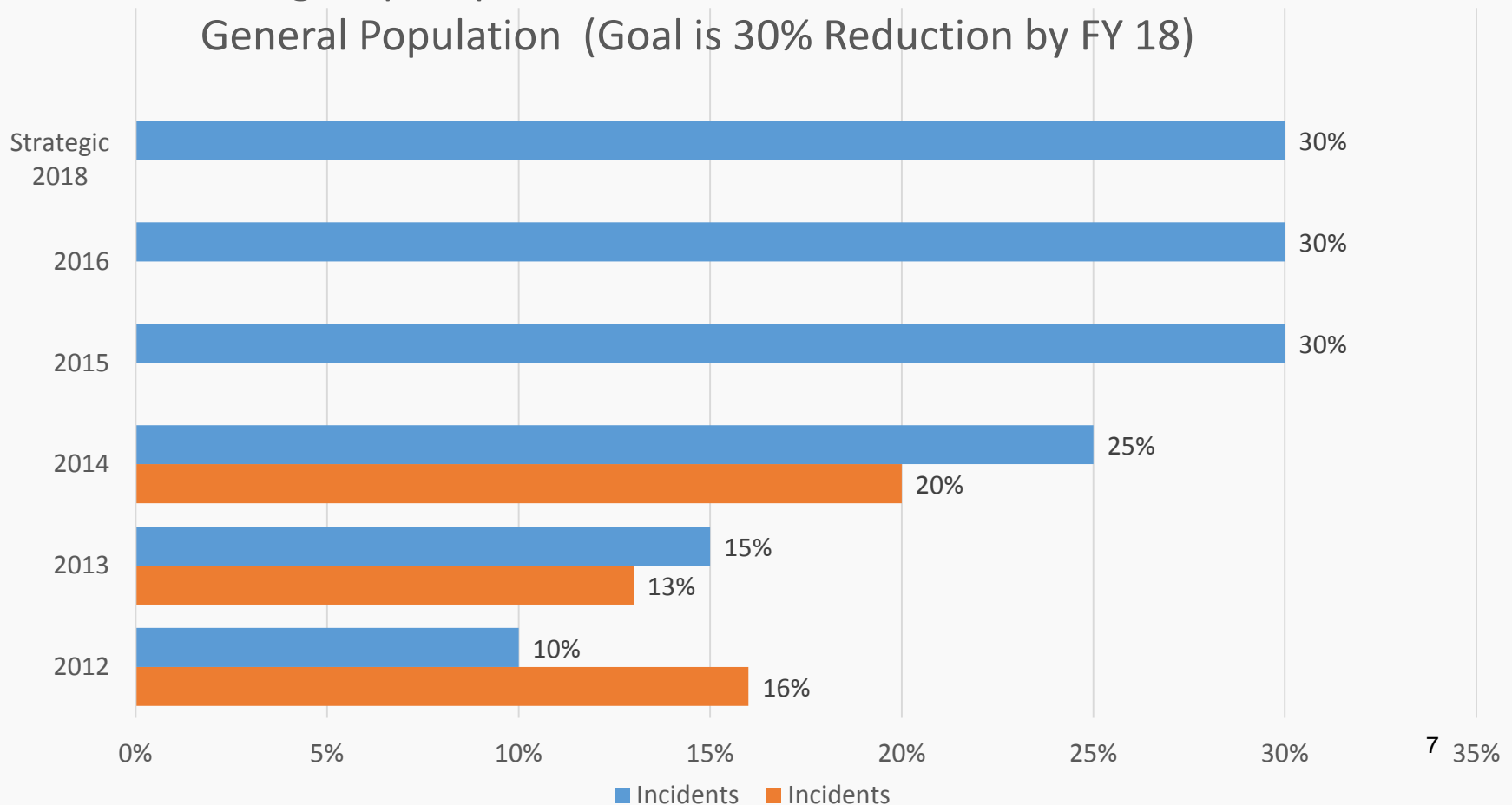
EPA's pesticides measures address a range of topics, including but not limited to:

- Reduction in moderate to severe exposure incidents associated with organophosphates and carbamate insecticides
- Reduction in kids' exposure to rodenticides
- Watersheds not exceeding EPA aquatic life benchmarks for targeted pesticides
- Chemicals with identified endangered species concerns for which EPA mitigates risk
- Percentage of agricultural acres treated with reduced-risk pesticides
- Number of draft risk assessments issued for public comment
- Number and timeliness of pesticide re-registrations
- Timeliness of emergency exemptions



Pesticides: Progress Toward Key Strategic Targets

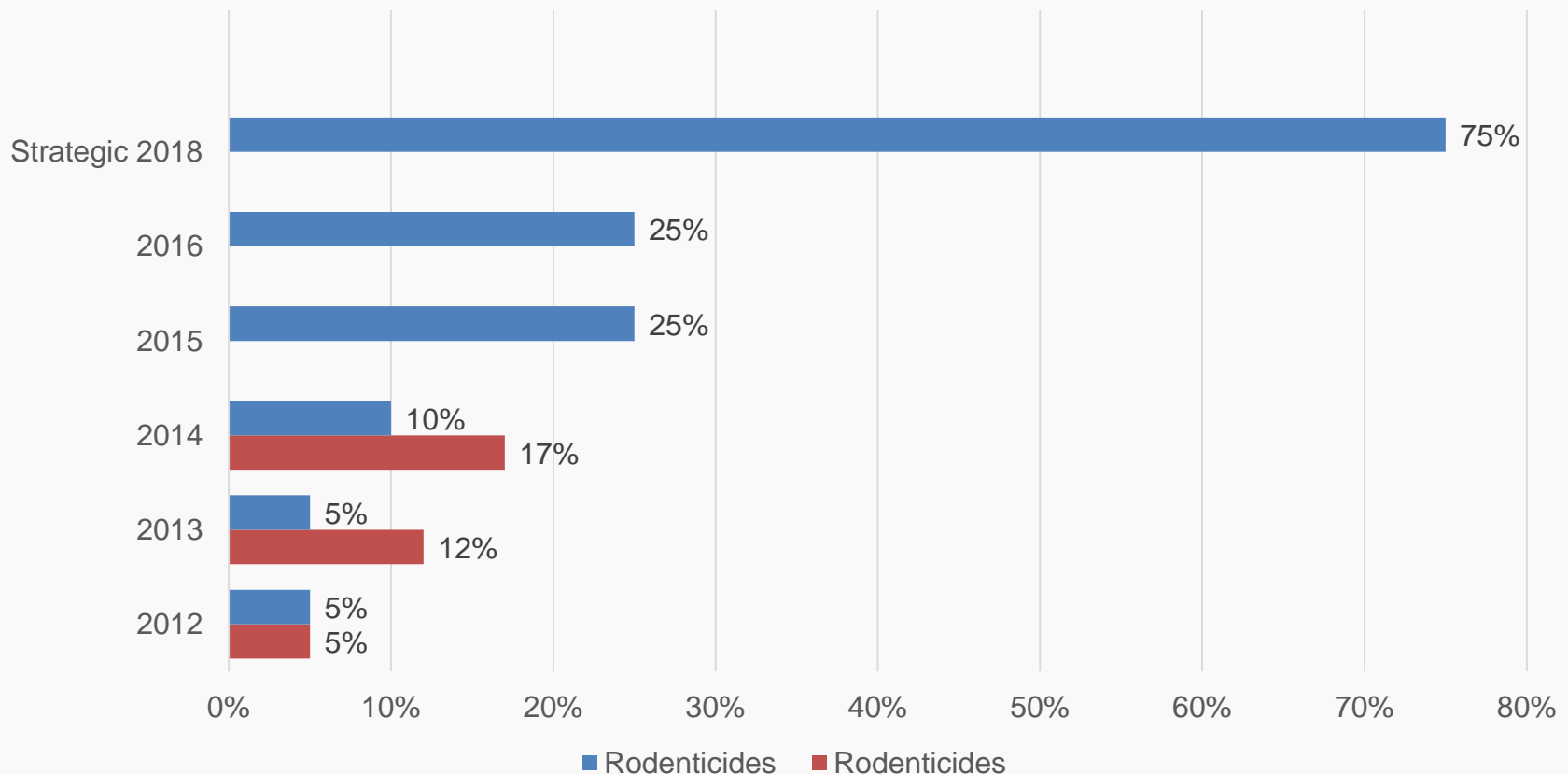
Reduction of Moderate To Severe Exposure Incidents Associated with Organophosphates and Carbamate Insecticides in the General Population (Goal is 30% Reduction by FY 18)





Pesticides: Progress Toward Key Strategic Targets

Percent Reduction Of Rodenticide Exposure Incidents In Children Ages 1-6 (Goal is 75% reduction by FY 18)





Pesticides: Progress Toward Key Strategic Targets

Watersheds Exceeding Aquatic Life Benchmarks
For Targeted Pesticides.

Urban Watersheds		2012	2014	2016	2018
Chlorpyrifos	Target	5%	0%	0%	0%
	Result	0%	7%		
Carbaryl	Target	0%	0%	0%	0%
	Result	0%	0%		
Diazinon	Target	0%	0%	0%	0%
	Result	9%	0%		
Agricultural Watersheds		2012	2014	2016	2018
Azinphos-methyl	Target	0%	0%	0%	0%
	Result	7%	0%		
Chlorpyrifos	Target	10%	0%	0%	0%
	Result	7%	0%		



Message of these Pesticides Measures

We can articulate key successes through these 3 measures:

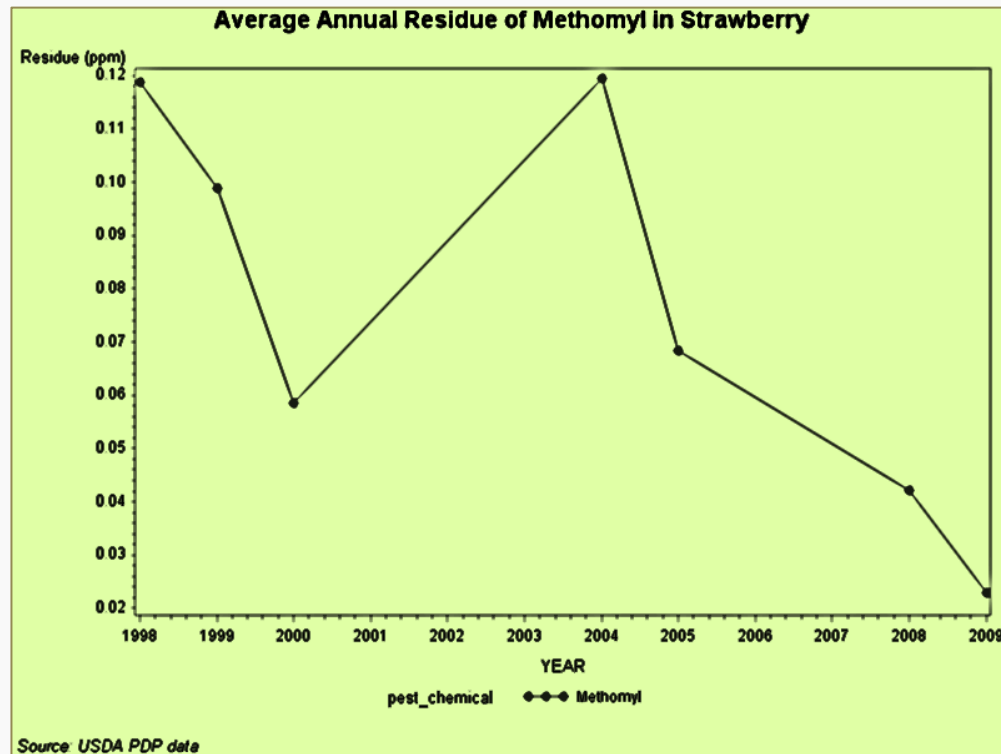
- Reduction of exposure incidents on track to meet the strategic target.
- EPA met urban and agricultural watershed goals and working to maintain them.
- Progress towards protecting children's health evident by 17% reduction (as of 2014) in rodenticide exposure incidents in kids ages 1-6/
 - As new packaging rules take effect, we intend to meet goal of 75% reduction by 2018.
- As a result of these efforts, folks are safer and watersheds cleaner.



Continual Use of Data beyond Formal Measures

OPP uses data to illustrate progress beyond formal measures.

- *Here's reduction of methomyl in strawberries following EPA action:*





Continual Use of Data beyond Formal Measures

Reduction of annual carbofuran residues in cantaloupe, watermelon and cucumbers following EPA action:

