Truth or Myth? Neonicotinoids and Their Impact on Pollinators. What is the Science-Based Research?





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California is Made Up of Diverse Landscapes and Cultures









Most Populous State in the Nation Large Urban Footprint

Rich Habitat

Biological Desert





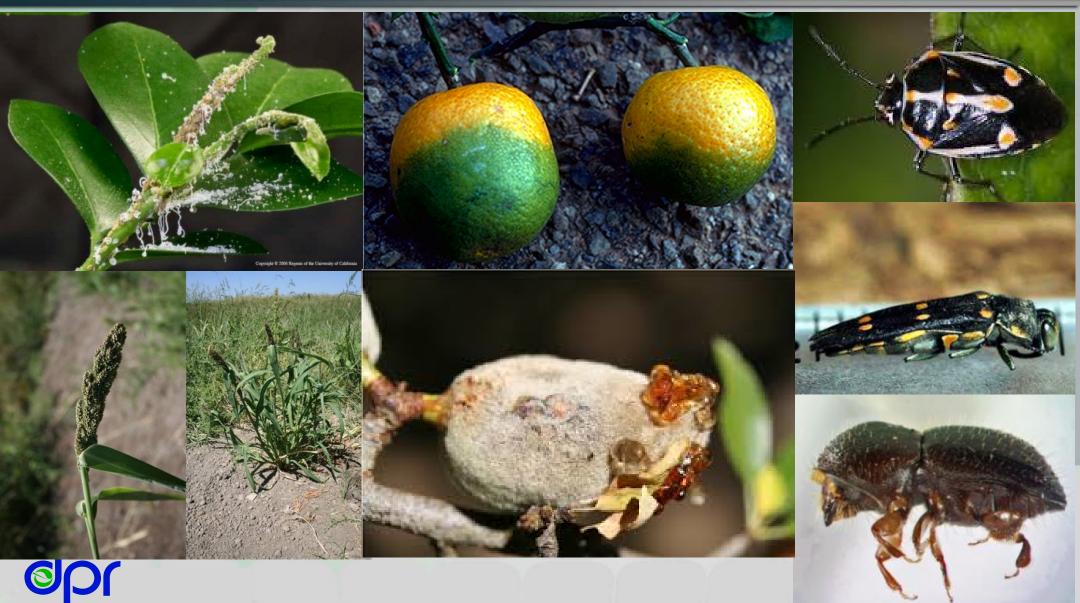


California is the Largest Agricultural State in the Nation





Many Crops with Challenges that Rely Upon Pesticides



DPR Regulates Pesticide Use in California Science Based Regulatory Organization



DPR scientists collect runoff from Alfalfa fields in Davis



DPR scientists monitor pesticides in air in Salinas



DPR based at Cal EPA in Sacramento

California County Agricultural Commissioners



- Local Enforcement by County Agricultural Commissioners and their 280 biologists in the field.
- DPR gives approximately \$27 million per year to CAC for pesticide enforcement and training.
- They conduct around 17,000 inspections per year.

Protection of Human Health e.g Farmworkers and Residents





Protection of the Environment



Foster Reduced-Risk Pest Management IPM-Integrated Pest Management





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Licensed, Trained Professional Pesticide Applicators



PCAs and Kern County Agricultural Commissioner at Valpredo Farms, Kern County Use of Technology-Keep Pesticides on Target Away From Humans and the Environment





Enforcement

Enforcement protects all

Consistent, fair, meaningful

County Agricultural Commissioners are enforcement partners



Pesticide Residue Monitoring Program

Samples collected from:

- Wholesale and retail outlets
- Distribution centers of chain supermarkets
- Farmers' markets etc.





DPR Registration Process Data Review





Acute toxicology Phytotoxicity Environmental fate Product chemistry Chronic toxicology U.S.EPA approved label Volatile emissions Fish and wildlife Efficacy



Physical and Chemical Haza Do not puncture or incinerate not use this product in conduit because of possible shock haz

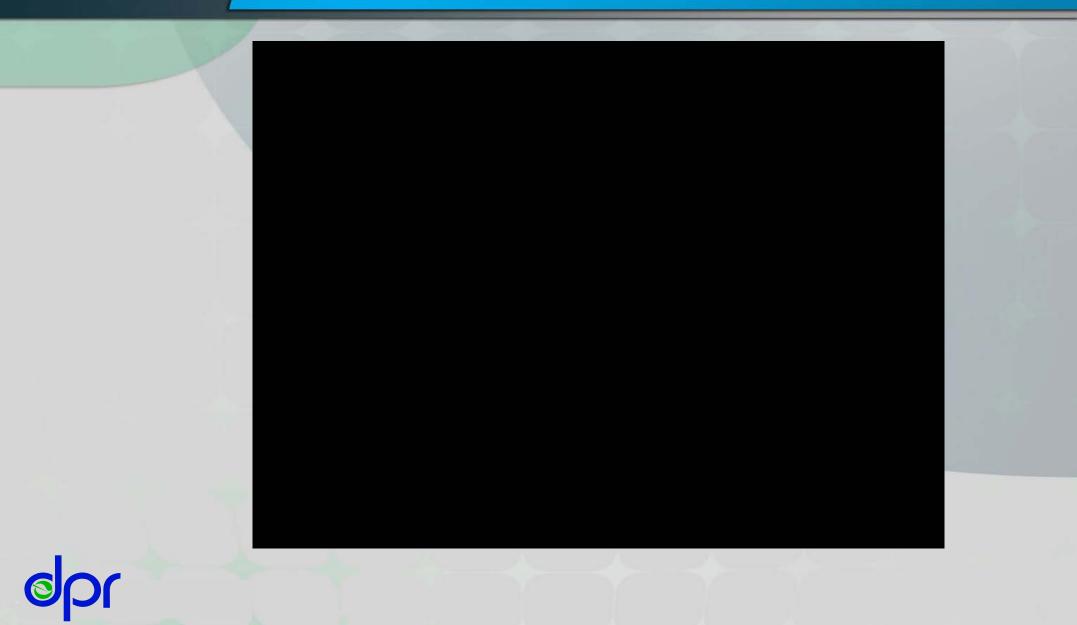
FIRST AID: IF ON SKIN OR CLOTH

Take off contaminated cloth Rinse skin immediately with Call a poison control center IF INHALED:

Move person to fresh air. If person is not breathing, o



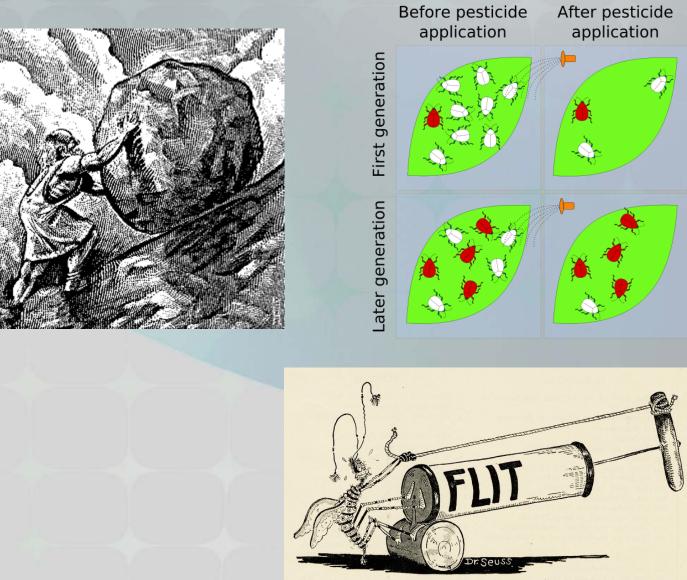
Evolution of Pesticides and Their Application



Pest Treadmill-Continuous Improvement in Meeting the Food and Public Health Protections that Pest Control Provides







The Suicide

-Advt.

IPM Innovator Awards







-Clockwise from top left: Dixon Ridge cover crop; Marin County IPM landscape; Gallo's Sonoma Vineyard; and Spring Mountain Vineyard bluebird box





Biopesticides-Perception vs. Reality

Biopesticides are considered "reduced risk." They have the capability to affect humans and need to be considered in making registration decisions.





Environmental Fate of Pesticides

Neonicotinoid Reevaluation



-DPR has 282 pesticide products under review



Education and Training



epr

Keys to Sucess



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Questions?

www.cdpr.ca.gov

Brian Leahy, Director CA. Department of Pesticide Regulation

