

Advances in the Evaluation of Pollinator Safety for Pesticides

Joseph D. Wisk, Ph.D., DABT
BASF Corporation
Chair, CLA Ecotoxicology Work Group



Pollinators and Agriculture

- Honey bees and other pollinators are critical to the success of production agriculture
- Pollinators have a role in the production of 1/3 of all food*
- To meet global food demands, it is critical to have both crop pollinators and effective crop protection technology



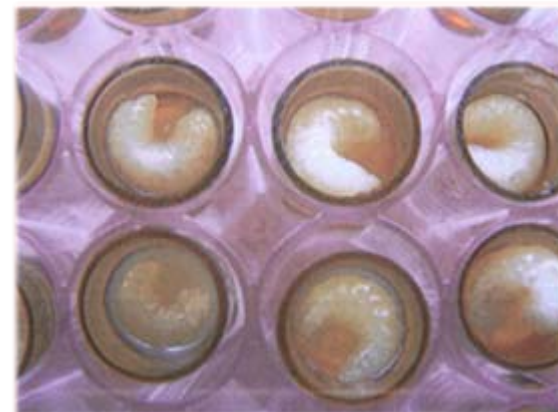
Global Approach to Data Generation and Submission

- Member companies take a global approach to assessing the risk of crop protection products to pollinators
- Acute studies
- Additional data generated on different:
 - ❖ routes of exposure
 - ❖ species
- Higher-tier studies to address uncertainties: Semi-field or field tests



Advancing the Science on Pesticides and Pollinators

- Member companies have conducted or sponsored research to evaluate new test methodologies
 - Larval honey bee toxicity tests
 - Improved hive health studies
 - Sampling techniques for residue analysis in nectar and pollen
- Member companies lead scientific exchanges regarding alternative routes of exposure for bees
 - Seed treatment dust
 - Guttation



Funding Basic Research and Public Outreach

- French Bee Biodiversity Network
- Deutsche Bhan – Flowers for Bees Project
- U.S. Healthy Hives Initiative
 - Evaluating the importance of colony microbes to colony health
- Operation Pollinator
 - Program to establish habitat for native pollinators in agricultural landscapes
- Contributed presentations and helped sponsor the Penn State Conference on Pollinator Biology, Health and Policy
- Distributed brochures regarding pollinators and pesticide stewardship to state agencies

Working to Modernize Data Requirements and Risk Assessment Paradigms

- American Chemical Society Meeting – March 2010
 - Organized and sponsored a symposium on field studies to evaluate the exposure of pollinators to systemic pesticides
- SETAC Pellston Workshop – January 2011
 - Participation and sponsorship of the Workshop on Estimating the Potential Risks of Plant Protection Products to Pollinators
 - Approximately 40% of the committed funding is from CLA member companies

Future Goals

- Have a thorough, pragmatic and scientifically sound risk assessment process for evaluating the risk of crop protection products to pollinators
- Ensure that crop protection products can continue to be used safely without adverse effects on honey bees and other pollinators





*Thank you for your
attention!*