### Emerging Pesticide Technologies and the Endangered Species Act

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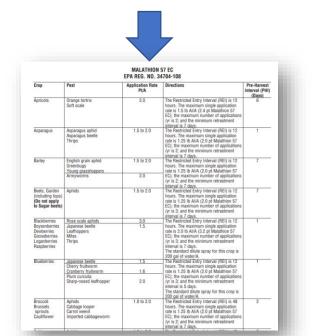




## Challenges that Create Opportunities

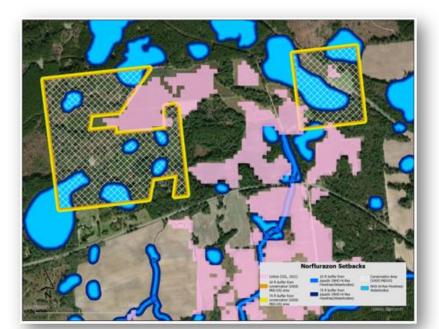
Registration decisions happen at national scale

- Risk evaluation
  - Ecological risk assessment
  - ESA risk assessment
- Impact
- Use directions including risk mitigation



Management and implementation happen at local scale

- Local land conditions
- Conservation practices
- Impact
- Application and risk mitigation
  - Non-target species, incl. ESA





Almonds in CA



Potatoes in WA



Corn in IA

Wheat in Kansas

Cotton in TX

Soybeans in OH

**Blueberries in M** 

Citrus in FL



Pocket Mouse in

**ESA-listed** species habitat and needs variability



**Endangered Species Information Management System** Supported by the FIFRA Endangered Species Task Force



ESA mollusk in Al



FWS Species Range Maps



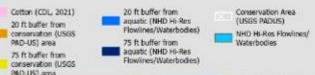
Houston Toad in TX

Lake Wales **ESA plant** 

Pest management needs, field and landscape factors (slope, soil, vegetation), location of non-target habitat, pesticide portfolio, crop rotations, existing conservation (riparian buffers, wind breaks) and resource concerns, weather, timing, etc., etc., etc.

Pest Management in a System Requires Adaptation and Information

#### **Norflurazon Setbacks**





Grassed waterways

## Harnessing the Power of Data

Pollinator habitat www.fs.usda.gov

# Thank you!

Contact me with any questions!

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