Emerging Pesticide Technologies and the Endangered Species Act

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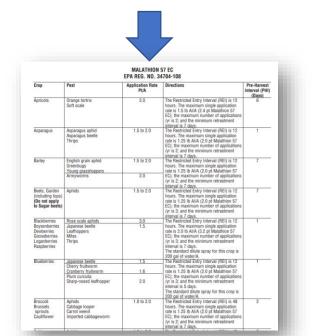




Challenges that Create Opportunities

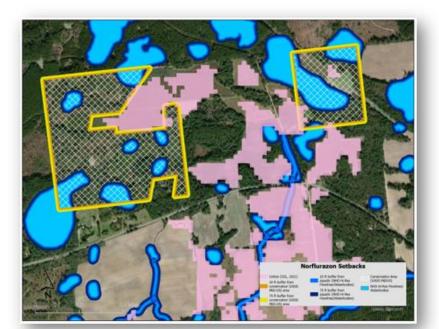
Registration decisions happen at national scale

- 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



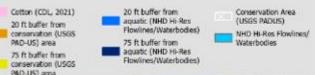
Houston Toad in TX

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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