

U.S. EPA
Endocrine Disruptor
Screening Program (EDSP)
Update
for the PPDC

April 22, 2009



EPA's Statutory Authority

- **Food Quality Protection Act (FQPA)**

Requires EPA to: Develop a screening program using validated assays to identify pesticides that may have estrogenic effects in humans.

Authorizes EPA to include:

Other endocrine effects, as designated by the EPA Administrator (e.g., androgen and thyroid; endocrine effects in species other than humans).

Other non-pesticide chemicals that:

- Have “an effect cumulative to that of a pesticide,” and
- To which a substantial human population may be exposed.

- **Safe Drinking Water Act (SDWA) Amendments**

Allows EPA to require testing of chemical substances found in sources of drinking water, if a substantial human population may be exposed.



EDSP Activities

1. **Assay Validation** -- Developing and validating assays (Tier 1 screening & Tier 2 testing)
2. **Priority Setting** -- Selecting chemicals to be screened
3. **Procedures** -- Developing procedures for requiring testing



Assay Validation

Tier I Assays*

- ER binding peer review to be completed this month

Completed:

Uterotrophic
Hershberger
ER Transcriptional Activation
Female Pubertal
Male Pubertal
AR Binding
Aromatase
Amphibian Metamorphosis
Fish Screen
Steroidogenesis

Tier II Assays

- Completed:
Mammalian 2-generation
- To be Completed in 2010:
Avian 2-generation
Amphibian Growth/Reproduction
Fish 2-generation
Mysid 2-generation

* FIFRA SAP reviewed the proposed EDSP Tier 1 Battery on March 25-27, 2008 (SAP Report, June 11, 2008)

Priority Setting and Procedures

The following Federal Register notices were issued April 15:

- The final list of initial pesticide active ingredients and pesticide inert ingredients to be screened under FFDCA
- Policies and procedures for initial screening under EDSP
- Information Collection Request (ICR), as required under the Paper Reduction Act, for 30-days of public comment

Agency responses to public comments on the list and policies and procedures are available in the docket.

Next steps:

- Publish Federal Register notice announcing the Tier 1 Screening Battery (est. May 2009)
- Complete formal OMB review of ICR (est. mid June 2009)
- Issue first EDSP associated orders (est. July 2009)

More information:
www.epa.gov/endo

