Biopesticides Registration Workshop - Pheromones and Other Semiochemicals

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Risk Assessment and Decision Making - Pheromones

Three General Steps to Risk Assessment

- Assess potential for adverse effects or “hazard”
- Assess potential for “exposure”
- Risk = Hazard $\times$ Exposure
PMRA Approach


◆ framework developed mainly for chemicals, but also applies to pheromones

◆ framework divided sequentially into 4 identifiable decision steps and components
  - underlying process is highly iterative and interactive
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**Straight-chained lepidopteran pheromones (SCLPs)**
- no risk assessment of the technical grade active ingredient (TGAI)
- well characterized chemistry with non-toxic mode of action (behavioural modification)
- generally species specific
- use does not usually exceed background levels
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End-Use Products (Formulations)

- evaluation of formulants (inerts)
- no crop residue data required
- occupational exposure qualitative assessment
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Non-SCLPs

◆ may require risk assessment
◆ would use same basic process as microbials and chemicals
◆ case-by-case