



# ECOLOGICAL RISK ASSESSMENT

## Problem Formulation

Select assessment endpoints, define nature of the stressor, characterize use, prepare a conceptual model. Develop an analysis plan.

## Ecological Effects Analysis

Ecotoxicology evaluation, acute & chronic toxicity data acquisition and review, literature search for scientifically valid studies (registration data & open literature). Develop a stressor-response profile.

## Exposure Analysis

Estimate potential exposure from review of environmental fate and transport data, use information, monitoring data, and modeling information. Develop an exposure profile.

## Risk Characterization

Risk estimation and risk description, calculation of risk quotients by deterministic approach, probabilistic refined assessments. Address uncertainties, assumptions, strengths & limitations of the analysis. Prepare risk assessment report.

## Endangered Species Assessment

Endangered and threatened species screening-level and species-specific assessments. Determination of "no effect" or "may effect" following above risk assessment framework.

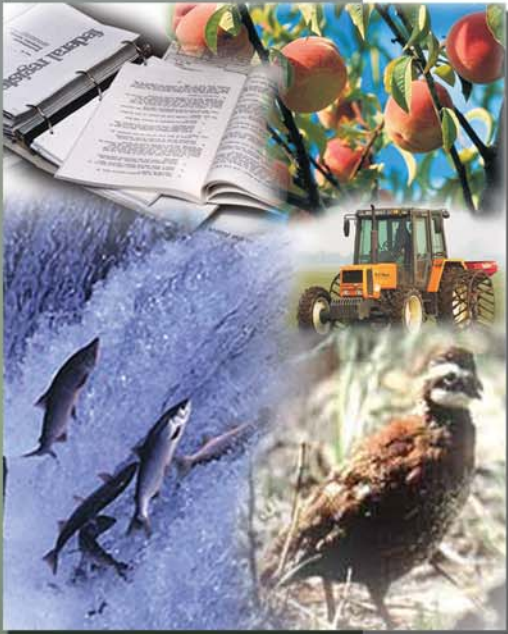
## Environmental Modeling

Employ various standard models to define pesticide fate and transport. Determine potential aquatic and terrestrial exposure routes. Design and develop customized models.

## Spatial Analysis

Utilize GIS technology to support the risk assessment process. Define potential use area, determine potential drift area including buffer analysis, identify runoff area by tracing flow directions. Design information management systems.

*Determining Risk to Wildlife and the Environment*



*Risk Assessment Framework for Product Registration & Registration Review*

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