



# Soil Fumigants Cluster

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**Presentation for PPDC Meeting**  
**May 11, 2005**



## Scope: Human Health Risk Assessments for Soil Fumigants

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- Methyl Bromide
  - Chloropicrin
  - Metam sodium/potassium
  - Dazomet
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- 1,3-dichloropropene
  - Iodomethane



# Objectives:

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- **Ensure that soil fumigants essential to agriculture are available and safe**
- **Ensure a level playing field by evaluating alternatives concurrently and consistently**
- **Ensure that risk management decisions don't result in risk/benefit tradeoffs that neither improve safety nor help agriculture**



# Challenges:

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- **Prediction of Bystander Exposure – modeling vs. monitoring**
- **Geographical variability, e.g., wind conditions, soil types**
- **Region- and chemical-specific data**
- **Variability in toxic effects**
- **Practical risk management**



# Process

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- **6-Phase Public Participation**
  - **Error correction**
  - **2 Public comment periods**
  - **Decision in early 2006**



## Milestones/Schedule:

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*Complete:*

- October - November 2004
- *Registrant error-only and USDA review of individual preliminary risk assessments*



## Milestones/Schedule (continued):

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### *Complete:*

- November – January 2004/2005
  - *Agency consideration of registrant error and USDA comments*
  - *Agency consideration of SAP recommendations regarding distributional exposure modeling*
  - *Preliminary risk assessments revised to include distributional exposure modeling*



## Milestones/Schedule (continued):

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*Complete:*

- February - March 2005
  - *Registrant error-only and USDA review of Agency modifications based on SAP recommendations regarding distributional exposure modeling*



## Milestones/Schedule (continued):

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- **April - June 2005 - Phase 2**
  - ***Agency consideration of registrant error-only and USDA review of Agency preliminary assessments which include distributional exposure modeling***
  - ***Preliminary risk assessments revised***



## Milestones/Schedule (continued):

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### July - September 2005 – Phase 3

- *60-day public comment period on preliminary risk assessments*
- *Technical briefing*



## Milestones/Schedule (continued):

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### September - November 2005 – Phase 4

- *Agency consideration of public comments on preliminary risk assessments*
- *Agency revises risk assessments as needed*
- *Agency completion of preliminary benefit assessments and risk management options, with input from stakeholders*



## Milestones/Schedule (continued):

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### November - January 2005 – Phase 5

- *60-day public comment period on:*
  - *Revised risk assessments*
  - *Preliminary benefit assessments*
  - *Preliminary risk management options*
- *Stakeholder meetings*



## Milestones/Schedule (continued):

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### Early 2006 – Phase 6

- *Agency consideration of public comments on revised risk assessments, preliminary benefit assessments, and risk management options*
- *Agency development of risk management decision, in consultation with all stakeholders*