

US EPA ARCHIVE DOCUMENT

# Agricultural Handlers Exposure Task Force (AHETF)

## Membership Incentives and Benefits

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Presented at EPA Stats Review  
October 17, 2007

# Incentives for Membership

- Uniformity among study designs and methods
- Uniformity among risk assessments
- Acceptability among regulatory authorities
- Development of a generic database
- Members address current and expanded regulatory needs
- Increased utility of data
- Cost
- Reduce the number of studies conducted and MUs monitored

# Liquid fungicide used in field and orchard crops

Open pour M/L



Closed loading M/L



# Liquid fungicide used in field and orchard crops

## Open cab ground boom

Closed cab ground boom

Fixed wing aircraft

## Rotary wing aircraft (open cockpit)

Rotary wing aircraft (closed cockpit)

## Open cab airblast

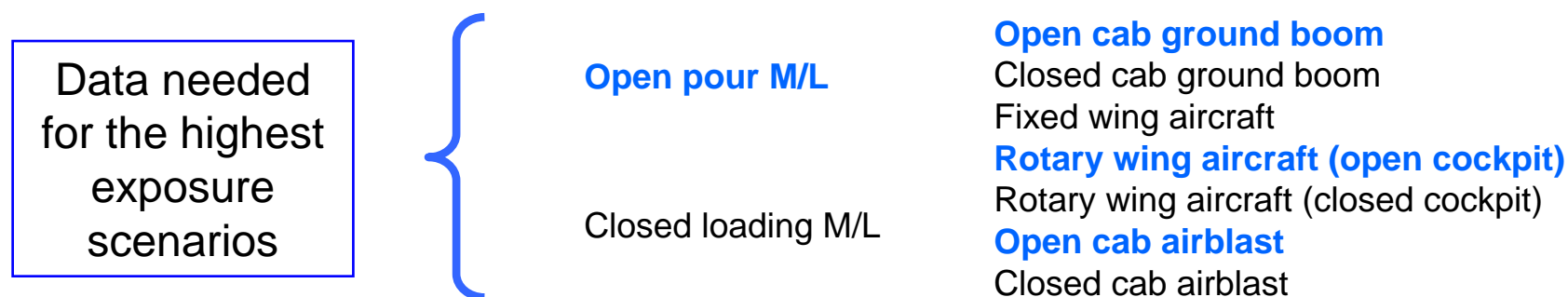
Closed cab airblast





# Liquid fungicide used in field and orchard crops

Total of 9 exposure scenarios (2 M/L and 7 applicator)



## Product specific study design parameters:

Maximum label rate

Maximum exposure potential equipment

Maximum acres treated per day

Product-specific PPE

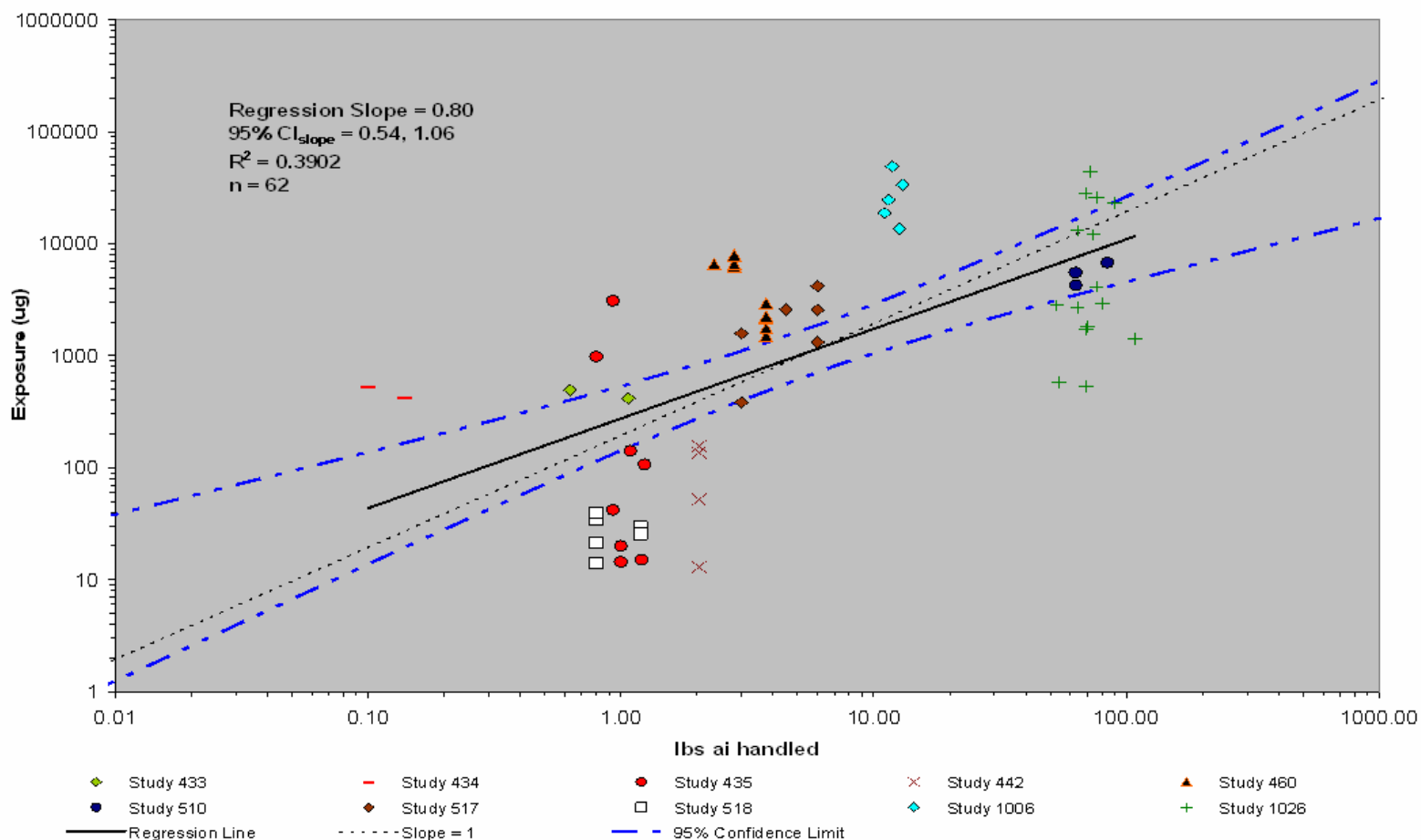
*Designed to demonstrate the safety of a specific product and use-pattern*

# Increased Utility of Data Generated

FIFRA SAP Meeting, U.S. EPA, CA DPR, Health Canada-PMRA, Matthew Crowley and David Miller, 1.11.07

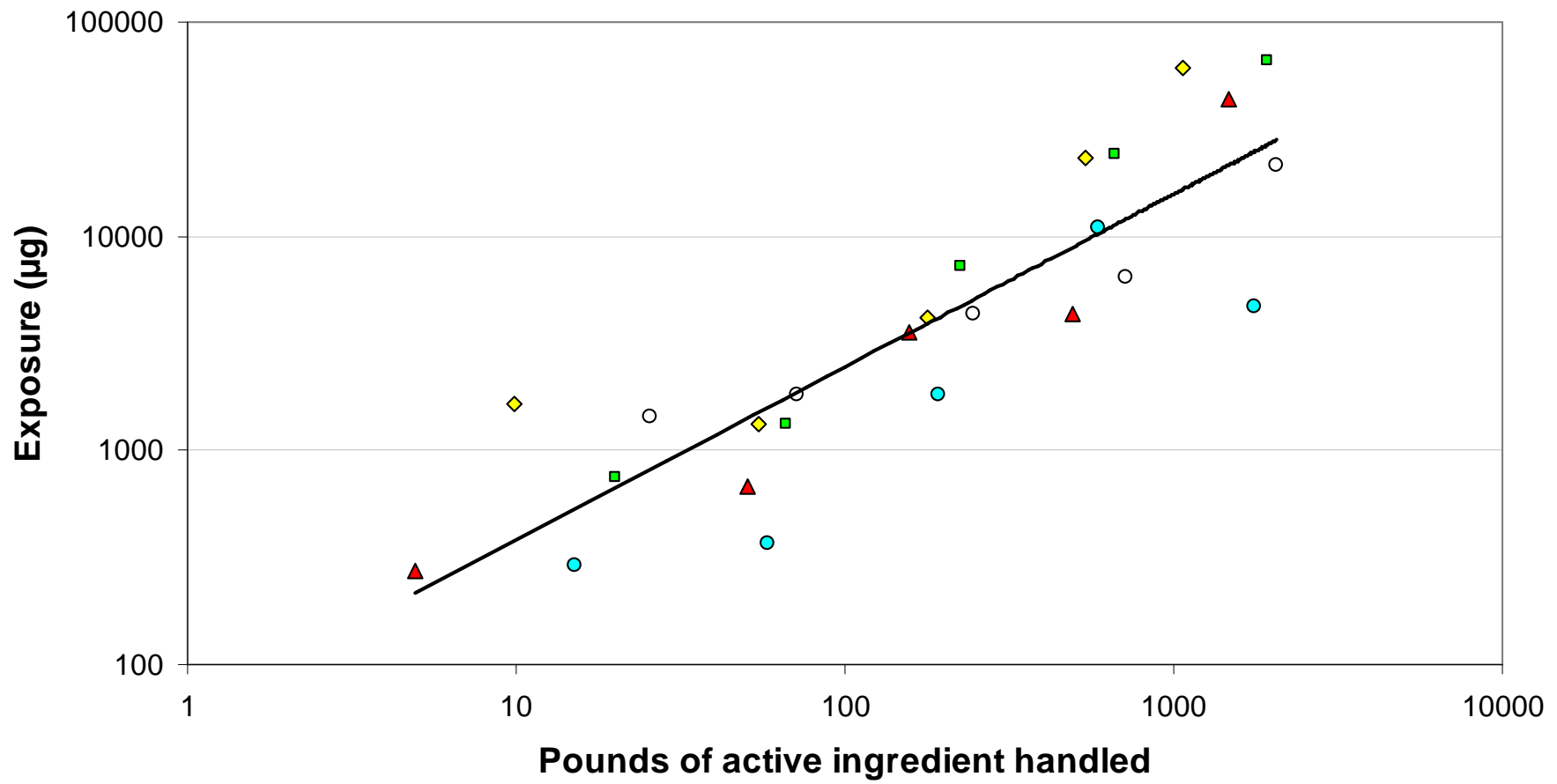
## Unit Exposure: *Normalization of Exposure by AaiH* Case Study Scenario #11: *Open-cab Airblast Applications*

Outer Dosimetry - Head Exposure vs. lb ai handled  
[PHED Grades A-D]



# Increased Utility of Data Generated

## Dry Flowable Mixing/Loading Studies





# Study Costs

- The approximate cost of conducting a study implementing new HSRB requirements and using PDS has increased from \$18,000 to \$35,000 per MU. This cost will increase if random sampling is required.
- For a product-specific assessment, EPA guidelines require 15 MU's monitored at 3 different sites.
- Therefore, the cost to conduct 3 product-specific studies to address the 4 highest exposure scenarios (45 MUs) would be approximately \$1.6 M.

# Reduced Number of Studies and Workers Monitored

## Individual Companies

33 scenarios

19 AHETF members

15 MUs per product-specific study

Total of **9405** MUs

- Other TFs have up to 30 members

## AHETF

33 scenarios

25-35 MUs per scenario

Total of **825 – 1155** MUs