

US EPA ARCHIVE DOCUMENT

Agricultural Handlers Exposure Task Force (AHETF)

Membership Incentives and Benefits

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Presented at EPA Stats Review
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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)

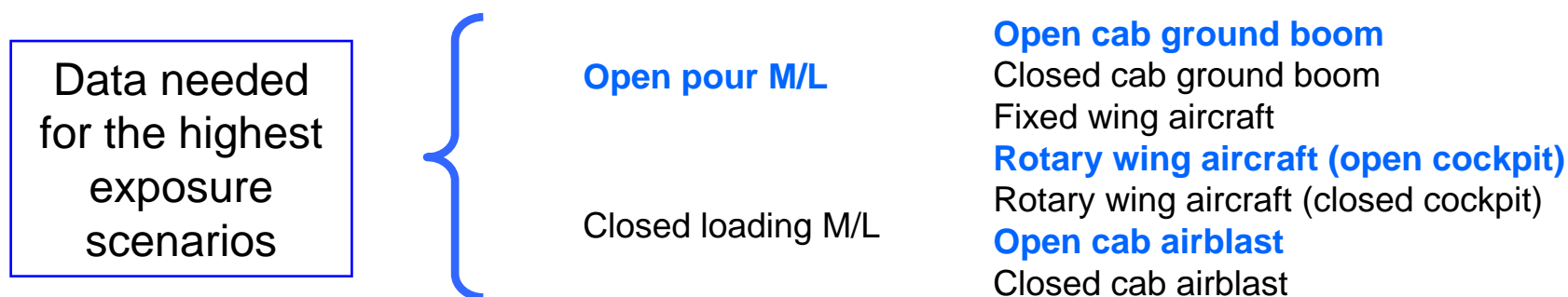
Open cab airblast

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

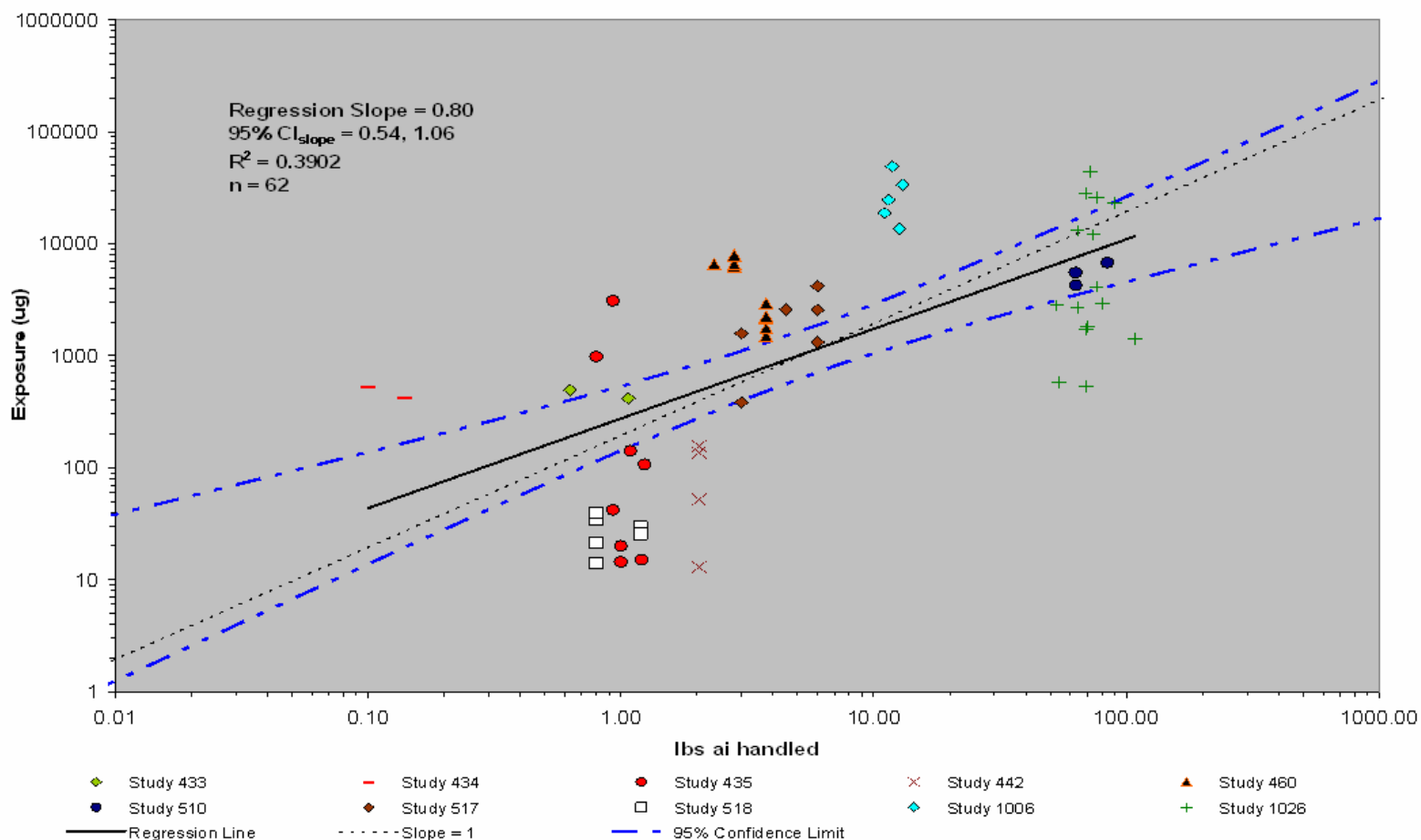
Designed to demonstrate the safety of a specific product and use-pattern

Increased Utility of Data Generated

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

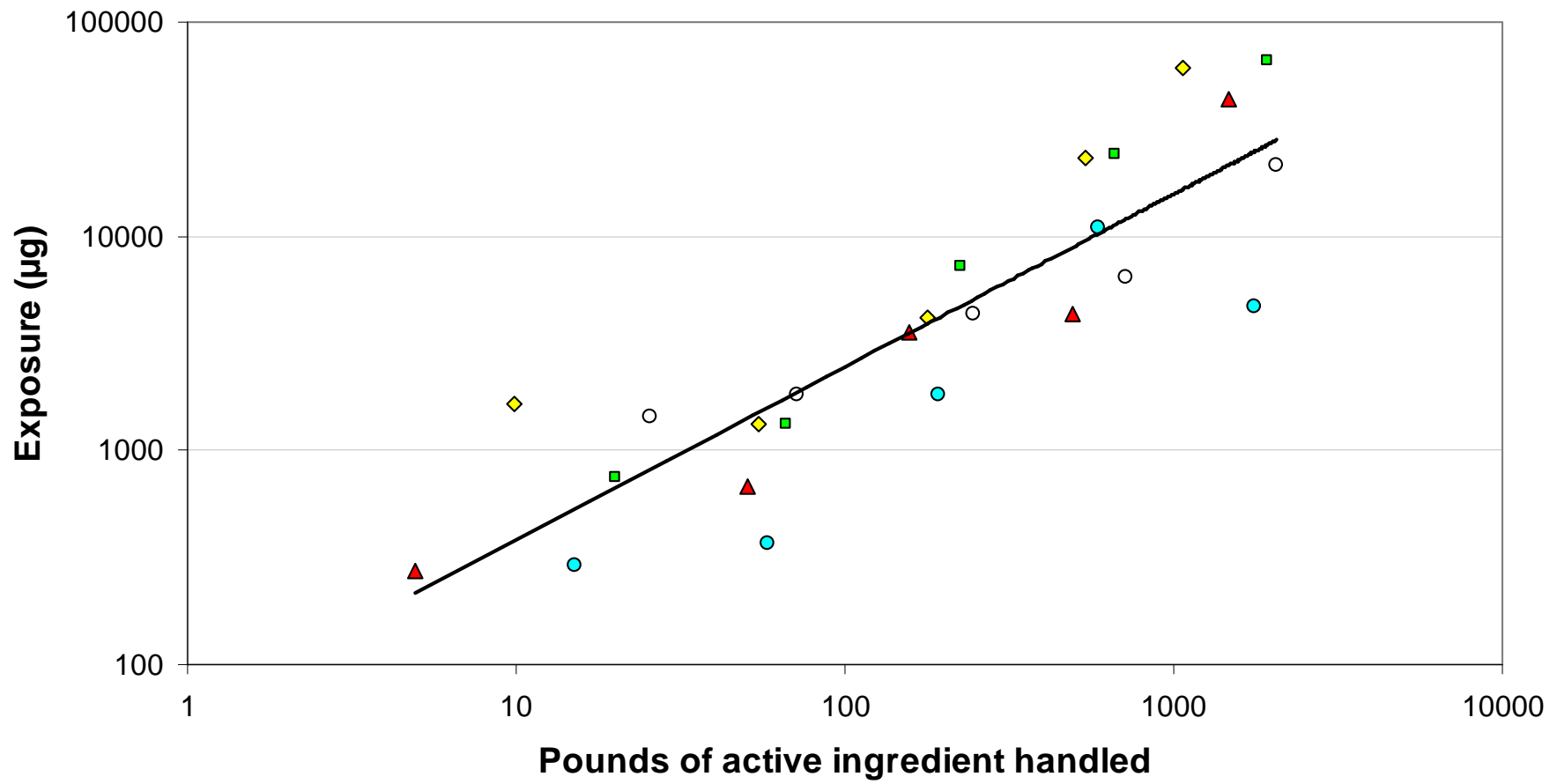
Unit Exposure: *Normalization of Exposure by AaiH* Case Study Scenario #11: *Open-cab Airblast Applications*

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