

US EPA ARCHIVE DOCUMENT

Estimated Data Costs

- Developed in response to questions from various sources for communication purposes
 - Not intended to be a detailed analysis
 - Does not account for the large variability in chemical properties or in registration applications
- More detailed analyses could be conducted if the information would be useful

Expected Data Generation Costs for Registration of a New Conventional Pesticide Active Ingredient

- Sum of the cost of data, given requirements in Part 158

$$E[\text{Data Cost}] = \sum \text{test cost}_i \times \text{prob}(i | \text{use})$$

- Test costs obtained from surveys of labs
- Data requirements specified by Use pattern
 - R = Required $\text{prob}(i) = 100\%$
 - NR = Not Required $\text{prob}(i) = 0\%$
 - CR = Conditionally Required $\text{prob}(i) = 50\%$

Expected Data Generation Costs for Registration of a New Conventional Pesticide Active Ingredient

Use Pattern		Data Cost
Terrestrial	Food or Feed	\$9,919,000
	Nonfood	\$7,983,000
Aquatic	Food	\$8,978,000
	Nonfood	\$6,890,000
Greenhouse	Food	\$6,422,000
	Nonfood	\$4,679,000
Forestry		\$7,441,000
Residential	Outdoor	\$7,095,000
	Indoor	\$4,287,000
Indoor	Food	\$6,016,000
	Nonfood	\$4,339,000

Points to Remember

- Estimate is for new chemical, single use
 - Residue Chemistry for additional uses will cost between \$450,000 to almost \$900,000
- Assumes new data generated for all requirements
 - Human Exposure data estimated to cost \$975,000
- For Terrestrial Food/Feed use, there are 85 required data needs and another 50 that are conditionally required