DATA EVALUATION RECORD

- 1. CHEMICAL: Acetochlor
- 2. FORMULATION: Mon-097 94.5% A.I.
- 3. CITATION: Acute Oral LD₅₀-Bobwhite Quail-Mon 097 (WL-80-003)
 Wildlife International Ltd. for Monsanto Co., April 9, 1980.
- 4. REVIEWED BY: Russel Farringer, III

Wildlife Biologist

Ecological Effects Branch, HED

- 5. DATE REVIEWED: 1/26/80
- 6. TEST TYPE:
 - A. Test Species: Bobwhite Quail
- 7. REPORTED RESULTS:

LD₅₀ is 1560 mg/kg, confidence limits (95%) 1044 mg/kg to 2329 mg/kg.

8. REVIEWER'S CONCLUSIONS: This study was not scientifically sound.

The study will not fulfilled guideline requirements.

CONC.	NUMBER	NUMBER	PERCENT	SINOMI AL
	EXPOSED	DEAD	DEAD	PROB. (PERCENT)
2510	10	10	100	9.76563E-2
1590	10	3	30.	17.1875
1.000	1.0	1	10.	1.07422
. 631	10	ā	ā .	9.76563E-2
398	10	3	30	17 1975

THE BINOMIAL TEST SHOWS THAT 0 AND 2510 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS SINCE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 1764.65

Materials/Methods Test Procedure

The methods cited in this study conform to EPA guidelines, with the exception of the statistical analysis discussed below. The study had 5 dose levels ranging from 398 mg/kg to 2510 mg/kg. The birds were aproximately 5 months of age. All other criteria for the birds was reported and found acceptable as per our guidelines.

Statistical Analysis

The report states that probit analysis was utilized in analyzing the data. The reported results gave an LD^{50} value of 1560 mg/kg (C.L. 95% 1044 mg/kg to 2329 mg/kg).

Reviewers Conclusions

Test Procedure and Statistical Analysis

The test procedure complies with the recommended USEPA 1978 protocol. However, the erratic mortality patterns does not lend itself to good statistical analysis. Our probit analysis shows that the goodness of fit for this data was zero and gave confidence limits between zero and positive infinity.

Conclusions

Category: Invalid

Rationale: mortality pattern to erratic for sound statistical

analysis.

Repairability: Not repairable