

DATA EVALUATION RECORD

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CASE: GS0333

FENAMIPHOS

CONT-CAT: 01 GUIDELINES: 71-5

MRID: 114008

Lamb, D.; Nelson, D. (1971) Toxicity of NemaCur 3 Lb/gal S.C. to Pheasants and Rice Birds under Simulated Field Conditions for Pineapples: Report No. 29053. (Unpublished study received May 1, 1973 under unknown admin. no.; submitted by Mobay Chemical Corp., Kansas City, MO; CDL:120301-P).

REVIEW RESULTS:

VALID _____ INVALID X INCOMPLETE _____

GUIDELINE: SATISFIED _____ PARTIALLY SATISFIED _____ NOT SATISFIED X

DIRECT RVW TIME = _____ START DATE: _____ END DATE: _____

REVIEWED BY: Richard W. Felthousen

TITLE: Wildlife Biologist

ORG: EEB/HED

LOC/TEL: 557-1392

SIGNATURE: 

DATE: 12/06/86

APPROVED BY: O. Gutenson

TITLE: Acting Registration Standard Coordinator

ORG: EEB/HED

LOC/TEL:

SIGNATURE: 

DATE: 12/21/87

Discrepancies with study design invalidates test results. As such, the study is inadequate to fulfill data requirements for an avian field study.

103.5.0 Field Toxicity

DATA REVIEW NUMBER: ES CC1

TEST: Simulated Field Study

SPECIES: Rice Bird (Lonchura punctulata)
Pheasant (Phasianus colchicus)

RESULTS: Pheasants and rice birds were exposed to pine-apples sprayed with Nemacur. The birds were held in cages positioned over a treated area to give 0, 50 and 100 percent exposure for a 14-day period. Some mortalities occurred among rice birds in the 100 percent exposure area. No behavioral differences, toxic symptoms or deaths resulted from 50 percent exposure for rice birds. Pheasants caged in the 50 and 100 percent exposure areas demonstrated no behavioral difference, weight decrease, cholinergic symptoms or deaths throughout the study.

CHEMICAL: Nemacur 3lbs/gal (35% A.I.) Sprayed at 5 lbs. A.I./acre.

TITLE: Toxicity of Nemacur 3 lbs/gal S.C. to Pheasants and Rice Birds Under Simulated Field Conditions for Pineapples.

ACCESSION NO: 120301 Report No. 29053

STUDY DATE: January 4, 1971

RESEARCHER: Lamb, D. W. and D.L. Nelson
Chemagro Corporation, Research Department

REGISTRANT: Chemagro Chemical Corporation

VALIDATION CATEGORY: Supplemental (regardless of use pattern)

CATEGORY REPAIRABILITY: No - Test birds were supplemented in their diet in such a manner that they would probably not have any reason to be exposed to chemical. Pheasants from a game farm fed cracked corn daily will eat cracked corn.

Other discrepancies noted were that only 10 birds were challenged, the pens were not moved daily, birds were positioned on test area after application,

not prior to it. The rice birds that died were not necropsied to determine cause of death. Only one test level was used and this study does not indicate hazard for higher application rates requested, up to 40 lbs. A.I./acre on some crops.

ADDITIONAL INFORMATION: Twenty rice birds and twenty pheasants were used in the study.

Pheasants were caged in pens within one hour of application - birds were penned, 4 pheasants, (2 pair) 8' x 5' cages exposed to 50% treated area. One pair of pheasants were put into three 4' x 5' cages with 100% of the cage area exposed. Food was provided during the study by spreading cracked corn or bird seed on the ground, and the food supply was replenished every day. The birds were not identified as to sex used in the cage, and exposure period was 14 days.

The test procedure for the rice birds was identical. The control plot contained the same number of birds and cages. Therefore, only 10 birds (pheasant and rice birds) were tested. Two mortalities occurred among the rice birds in the 100 percent exposure area. The birds were from different cages and died within 2-3 days of exposure.

Location: Pineapple Research Institute Field Station
Wahiaha, Hawaii

Nemacur was applied at the rate of 5 lbs. A.I. per 250 gallons of water per acre. The 327 sq. ft. experimental area received 47.3 ml of the formulation or 17 g A.I. in 1.9 gallons of water by means of a hand spray boom. This is approximately 0.052 grams/square foot (52 mg/Ft²).

TABLE OF STATUS BY TRI TRI

STATISTICS FOR 2-WAY TABLES	23.03	24.78	100.00
χ^2	3.319	DF=	3
$\frac{\chi^2}{df}$		PROB=	0.3449

LIKELIHOOD RATIO CHISQUARE

from sign 15

Fenarimphos bobwhite reproduction study

Treatments Data (# Alive / # Dead at 14 days)

TABLE OF STATUS BY TRI

STATUS	TRI				
FREQUENCY					
CELL CHI2					
PERCENT					
ROW PCT					
COL PCT	CON	TRI1	TRI2	TRI3	TOTAL
ALIVE	574	601	606	375	2156
	9.4	4.5	1.2	40.6	
	10.98	11.49	11.59	7.17	41.23
	26.62	27.88	28.11	17.39	
	46.86	44.95	43.13	29.71	
DEAD	651	736	799	887	3073
	6.6	3.1	0.9	28.5	
	12.45	14.08	15.28	16.96	58.77
	21.18	23.95	26.00	28.86	
	53.14	55.05	56.87	70.29	
TOTAL	1225	1337	1405	1262	5229
	23.43	25.57	26.87	24.13	100.00
STATISTICS FOR 2-WAY TABLES					
CHI-SQUARE	94.807	DF=	3	PROB=0.0001	
PHI	0.135				
CONTINGENCY COEFFICIENT	0.133				
CRAIG'S V	0.135				
LIKELIHOOD RATIO CHISQUARE	97.278	DF=	3	PROB=0.0001	

contribution to
X² suggest chemical
(8 ppm) effects chick
survival

significant

Trt 706 Alive/Dead Chicks

egg set - 14 day son = dead

Control	<u>tot 1</u>	<u>tot 2</u>	<u>tot 3</u>
1225	1337	1405	1262

live → 14 day -

loop Dead

574	<u>601</u>	<u>606</u>	<u>375</u>
651	736	799	887

Alive