

US EPA ARCHIVE DOCUMENT

UNDATED

DATA REVIEW NUMBER: ES-VII-W

TEST: Reproduction - Wild waterfowl

SPECIES: Mallard duck

RESULTS 11-day embryo viability in the 20 ppm group was statistically significantly less than the control. Hatchling survival was statistically significantly lower than the control for the 100 ppm group. Hazleton laboratories did not feel these differences to be treatment related.

Reviewer: Bob Hitch

CHEMICAL: RH - 2915 (71.4% active goal)

TITLE Final Report. One-Generation Reproduction study

in Mallard Ducks. Project No. 417-372.

ACCESSION NO. 097424

STUDY DATE: July 17, 1978

RESEARCHER: Hazleton Labs, Gabriel Najarian and Vincent J. Piccirilli

REGISTRANT: Rohm and Haas

VALIDATION CATEGORY: Invalid.

CATEGORY REPEATABILITY: Before this study can be reviewed in full, individual pen data must be submitted for: 1. body weight, 2. Food consumption. 3. eggs laid, 4. eggs cracked 5. Eggs set. 6. Fertility 7. Live 3-week embryos 8. Hatchability. 9. Normal chicks 10. 14 day old survivors per number of eggs hatched and per hen and 11. eggshell thickness.

1

Assignment of test birds was as follows:

<u>Group No.</u>	<u>No. of Birds</u>		<u>No. of Birds/Pen</u>		<u>Dietary Levels</u>
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	
1	5	25	1	5	Basal Diet Only
2	5	25	1	5	20 ppm RH - 2915
3	5	25	1	5	100 ppm RH - 2915

Deviations from Requirements stated in June 25, 1975 Guidelines:

1. Each of the 3 test groups (1 control group and 2 treatment groups) consisted of 5 pens each of which contained 1 male and 5 females rather than the minimum of 2 males and 5 females required in the June 25, 1975 guidelines
2. The vehicle (The '75 guidelines recommend corn oil or other appropriate vehicle) was not identified.
3. The average temperature where the pens were located was 49°F. The '75 guidelines recommend a temperature of approximately 21°C (~70°F).
4. Body weights of the birds were recorded at 0,4, 8 weeks and at termination of the study rather than the 0,2,4,6, and 8 weeks plus termination intervals suggested in the '75 guidelines.

5. The light intensity at "bird level" in the test environment was not stated.