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An avian reproduction study historical control database: A tool for data interpretation

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1 TITLE

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3 RUNNING HEAD

4 Avian reproduction historical control database

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13 ABSTRACT

14 Avian reproduction studies are a regulatory requirement for pesticides in many regions. The
15 data often require careful interpretation due to the nature of the study design. Here we present
16 the historical control dataset for bobwhite quail and mallard duck reproduction studies
17 performed at the Evans Analytical Group LLC avian toxicology laboratory over the period
18 1985 - 2016. The analysis demonstrates the stability of reproductive parameters over time and
19 good agreement to normal control ranges as required by the regulatory test guidelines. The
20 major source of variation is shown to be within study variation. Power analyses confirm the
21 generally good power properties of the test design. Recommendations for the use of historical
22 control data for the interpretation of avian reproduction studies are made. We believe the

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