Contamination of grazing ducks by chlordecone in Martinique

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Context

long-term soil pollution in the French West-Indies by CLD, and subsequent contamination of food resources.
Alarming preliminary results on grazing hens with eggs contaminated up to 50 times over the MRL (20 µg/ kg FM).

Hypothesis: poultry is exposed to CLD through involuntary ingestion of polluted soil

Experiment: long term outdoor exposure of grazing ducks followed or not by indoor confinement

Objective

to assess: (1) CLD accumulation in grazing duck tissues and eggs
(2) Possible decontamination through confinement
- rapid contamination of duck tissues by CLD
- indoor confinement allowed to decontaminate leg tissues below the MRL after a period of 6 weeks but liver and eggs stayed over the limit even after 9 weeks of decontamination.

The consumption of products from grazing ducks should be avoided, unless grazing and decontamination practices are improved.