

PHOSPHINE RESISTANCE OF *RHIZOPERTHA DOMINICA* F. IN THE
PHILIPPINES

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Field strains of *Rhizopertha dominica* were collected from areas where phosphine fumigation is commonly practiced, These strains were tested for resistance at a range of phosphine concentrations recommended by the FAO.

Insects were exposed to phosphine for 20 hours inside gas-tight dessiccators. Then they were transferred to culture media and mortality was assessed after 14 days. Insect mortality was then subjected to probit analysis.

High level of resistance (> 500x) was obtained in strains collected from Metro Manila and Cebu. This can be partly attributed to the insects' exposure to poor fumigation practices. Widespread resistance of *R. dominica* to phosphine is suspected.