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### *Full Length Research Paper*

## An assessment of two plant product efficacy for the control of the maize weevil (*Sitophilus zeamais* Motschulsky) in stored maize

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### Abstract

Both *Chromolaena odorata* and *Citrus limon* are common in tropical areas as an important weed and fruit crop respectively. Dried and pulverized leaves of *C. odorata* and fruit peels of *C. limon* were evaluated at the rate of 15, 10 and 5 g per 100g of maize grain variety JZSR. *C. odorata* proved to be efficacious in the control of the maize weevil (*Sitophilus zeamais*) at the three concentrations with percentage mortalities of 75, 70 and 63.75, respectively, while *C. limon* was less effective providing insect mortalities of 60, 50 and 47.50%, respectively. Only *C. odorata* showed comparable results to that of *Actellic* dust (75.25%, used as a check conferring with *C. odorata* leaf powder at 15 and 10 g, as the *Actellic* dust, a better protection against *S. zeamais*. Although the rest of treatments were not that protective, they achieved better protection than the untreated control. On progeny emergence, there were no significant differences among treatments. The overall attractiveness of stored grains was affected by the greenish brown colour of *C. odorata* leaf powder.

**Key words:** Plant product powder, maize weevil (*Sitophilus zeamais* Motschulsky), maize.

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