

CONTROL OF EPHESTIA CAUTELLA INFESTING STORED PEANUTS
WITH INSECT GROWTH REGULATORS

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ABSTRACT

A four-year test to determine the usefulness of insect growth regulators as protectants of stored peanuts from almond moth infestation was just completed. Both Methoprene and the Maag Agrochemical IGR RO-13-5223 were effective in preventing adult emergence in 1,200-pound bin tests when used at 10 ppm and 1 ppm, respectively. Larval lifespan was prolonged for IGR treated larvae compared to control larvae at all concentrations of Methoprene tested and at concentrations exceeding 10 ppm of RO-13-5223. In a field trial involving the treatment of 30 tons of farmer's stock peanuts, RO-13-5223 gave insect control equal to or better than the customary treatment with fumigants.

PEANUTS, PESTICIDES, AND PESTS

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ABSTRACT

Malathion resistance in insects collected from peanut warehouses in the southeastern United States continues to increase. In most cases, the resistance is malathion-specific. Because of control failures with malathion, the frequency of phosphine fumigation has increased and resistance to this chemical is emerging.