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John Bantle* (jjbantle@buffalo.edu), 244 Mathematics Bldg, University at Buffalo, Buffalo, NY 14260, and **Aaron Festinger, Hee-Joon Jo** and **Ryan Klafehn**. *Prolonging the effectiveness of transgenic insecticidal crops.*

We use a detailed stochastic population model of the agricultural pest pink bollworm in fields of genetically modified pesticidal cotton to evaluate unconventional strategies for staving off the development of widespread resistance to the poison in the pest population. (Received September 22, 2009)