

Chemical Control/New Products

Chemical Control of Navel Orangeworm in Almonds

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Abstract: This trial was conducted in the lower San Joaquin Valley, near Bakersfield, CA, to compare the efficacy of a conventional treatment (Imidan/permethrin), an IGR (Intrepid), and a navel orangeworm (NOW) oviposition disruptant (Stealth) to control plots receiving no treatment. Plot size was 10 or 20 acres and treatments were replicated four times in a semi-RCB. Intrepid applied in late April (400 dd), at 1% hullsplit (July 6), and 2 weeks after hullsplit had significantly less NOW and leafroller damage at harvest compared to control, Stealth, and Imidan/permethrin treatments, and reduced NOW damage 70 to 75% compared to control plots. The Imidan/permethrin treatment resulted in a 50% reduction in damage relative to control plots. The Intrepid and Imidan/permethrin treatments both significantly reduced damage from oriental fruit moth compared to control plots.