Integrating Assail™ into Sierra Foothill Apple Pest Management Programs for Codling Moth and Leafhopper Control

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Abstract: Assail, acetamiprid, was compared to azinphosmethyl when applied for control of the 1b codling moth flight in two commercial apple orchards. One orchard was under mating disruption and had a relatively low codling moth population. The other orchard was without mating disruption, had been treated with azinphosmethyl for the 1a flight but still had a high codling moth population as well as a rose and white apple leafhopper infestation. Codling moth populations in each orchard were monitored using traps loaded with the L2 pheromone lure and with the DA kairomone lure, and the sex of the moths in the DA traps was identified. Assail was applied at 3.4 oz. in 100 gal/acre with 0.5% oil using the grower’s airblast sprayer onto four 1-acre replicated plots in each orchard and compared to the grower standard of 2-3 lb. azinphosmethyl in 100 gal/acre. Codling moth damage on fruit and presence/absence of leafhoppers on leaves were assessed before and after treatment. In both orchards, the codling moth damage observed on fruit was not different in those plots treated with Assail compared to those treated with azinphosmethyl. The percent of leaves infested with leafhoppers was lower in the plots treated with the Assail as compared to those treated with azinphosmethyl.