## Chemical Control/New Products

In-orchard management of the consperse stink bug, *Euschistus conspersus*, and associated non-target effects

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Abstract: The consperse stink bug, Euschistus conspersus Uhler, has emerged as an important pest of pome fruit production in north central Washington in the past decade. Growers have struggled to manage this pest, with limited effective chemical control options near harvest. Application of the synthetic pyrethroid fenpropathrin (Danitol®) resulted in high mortality in laboratory tests. We assessed the field efficacy of Danitol as an in-orchard treatment for stink bug damage. To quantify some of the possible non-target effects of Danitol, we followed both pest and beneficial mite populations before and after insecticide application. We found a significant increase in the populations of pest mite species in treated areas relative to controls, with a concurrent depression in populations of beneficial mite species. In light of this information, we present data from field testing of border-only applications of Danitol as an in-orchard treatment.