

Chemical Control/New Products

Field Efficacy of Neonicotinoids and Spinosad for Control of Western Cherry Fruit Fly in Tart Cherry

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*Abstract:* Neonicotinoid and spinosad insecticides were efficacious in controlling western cherry fruit fly in six tart cherry orchard trials conducted from 2000-2004. The neonicotinoids were effective when applied at 14-day intervals while the spinosad products required 7-day application intervals to maintain fruit fly control. The neonicotinoids, Calypso and Provado, only moderately suppressed adult densities, but prevented larval infestation of fruit equal to Guthion. Spinosad performed similarly to Guthion in killing adults and preventing fruit injury. GF-120 NF Naturalyte bait suppressed adult populations up to one month postharvest. Multiple applications of neonicotinoids stimulated phytophagous mite densities in some trials.