Chemical Control/New Products

Timing of Chemical Application for Vine Mealybug Control in Grapes

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Abstract: Postharvest and bud swell spray timings were tested for control of vine mealybug in raisin grapes. Both buprofezin (Applaud®) and chlorpyrifos (Lorsban®) were tested. Because of the insidious behavior and the severity of damage by this pest, many grape growers are applying multiple sprays to control it. Five vine replicates were treated either postharvest, at bud swell or both postharvest and bud swell with either chlorpyrifos or buprofezin. Five replications were used. Number of mealybugs per leaf, number of infested clusters, and the severity of infestation measured efficacy. Results show the buprofezin is most effective when applied at bud swell. Chlorpyrifos shows good efficacy as either a postharvest or a bud swell treatment. The double application of chlorpyrifos was consistently more effective than the double application Applaud. Spring applications of the two materials were equally effective.