

## Section VIII Mites & Sap-Sucking Pests

Leafhopper Virginia creeper *Erythroneura ziczac* Walsh, and the western grape leafhopper, *Erythroneura elegantula* Osborn Control in Wine Grapes var. 'Muscat Canelli'

Waters, T. D., H. J. Ferguson, R. P. Wight, and D. B. Walsh  
Washington State University, IAREC  
24106 N. Bunn Rd.  
Prosser, WA 99350

Insecticides were screened for their ability to control leafhopper nymphs in wine grapes. On August 19, 2004, field plots were established near Horsethief Point, Washington State, USA. Plots were 10 ft. wide and 40 ft. long and were replicated four times in a complete random block design. Insecticides were applied on August 19, 2004 using a hand gun on an ATV mounted sprayer. Ten leaves per plot were collected weekly and transported to the laboratory where leafhopper nymphs were counted under a stereoscope.

The first week after insecticide applications all compounds tested reduced leafhopper nymph abundance better than the untreated check, with the exception of the Applaud treatment of 0.525 lb. a.i./acre. The second week after insecticide application all compounds tested provided better leafhopper nymph control compared to the untreated check, with the exception of the Avaunt treatment of 0.11 lb. a.i./acre.



Trade name	Active Ingredient	Rate	Mean nymphs per leaf		
			19 August	23 August	31 August
Untreated check			3.950a	16.850a	18.600a
Actara	thiamethoxam	0.043 lb ai/A	5.350a	0.900b	1.200b
Applaud 70 WP	buprofezin	0.394 lb ai/A	1.650a	1.850b	2.800b
Applaud 70 WP	buprofezin	0.525 lb ai/A	2.000a	10.100a	2.525b
Assail	acetimiprid	0.02 lb ai/A	0.300a	0.733b	0.350b
Avaunt	indoxacarb	0.09 lb ai/A	2.900a	1.725b	1.788b
Avaunt	indoxacarb	0.11 lb ai/A	3.175a	5.475b	7.800a
Danitol 2.4 EC	fenpropathrin	0.4 lb ai/A	0.250a	4.300b	0.667b
Fujimite 5%	fenpyroximate	2 pt/A	1.600a	4.150b	2.367b
NNI-750C	buprofezin &	0.5 lb ai/A	1.333a	2.350b	5.950b
	chlorpyrifos				
Provado	imidacloprid	0.033 lb ai/A	1.400a	1.200b	1.067b