

(GIVEN)

Section 1 Mites and Sap Sucking Insects

CANEBERRY: MARION BLACKBERRY  
Conspere Stink Bug

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**Stink Bug Control in Mechanically Harvested Marion Blackberries, Washington County, Oregon, 1986:** On 8/5/86 seven insecticide treatments and an untreated check were applied post harvest to Marion berries as "clean up sprays" for various arthropods that have resulted in contamination of berries when mechanically harvested. Treatments were applied in a CR design using three 1 row (10 ft center) x 450 ft plots. Insecticides were applied in the equivalent of from 88 to 104 GPA of water using the growers sprayer which straddled a row and provided an inverted U shaped boom that wrapped over the row. A mist blower propelled the toxicants @ ca 25 PSI while operating at 2700 RPM. The sprayer traveled at from 3.5 to 3.9 MPH during the trial.

All insecticide rates and GPA of water given were arrived at by determining the amount of spray solution left in the tank after each treatment was sprayed. Treatments were evaluated 3 and 7 days post application. The growers modified BEI blueberry harvester was run down 120 row ft of ea plot (different sections for 3 and 7 day evaluation). All insects (of which 95% were the consperse stinkbug) were collected from the berry belt, transferred to a killing jar and then to an icebox for later identification and quantification.

The two synthetic pyrethroids provided the best suppression of this stinkbug at 3 and 7 days post spray. However, they were not statistically different from the other insecticides at three days (except low rate of Lorsban) and mevinphos, Lorsban (high rate) and Malathion (illegally high rate) at 7 days.

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Grouping of Ranked Means With FPLSD

Treatment and lb(ai)/acre	<u>wanted</u>	<u>actual</u> <sup>1/</sup>	$\bar{x}$ No. stinkbugs per plot (120 row ft)	
			3 day	7 day
1. Lorsban 50W	0.5	0.375 (97)	58a <sup>3/</sup>	54ab
2. UTC			53ab	75a
3. Lorsban 50W	1.0	1.0 (104)	29 bc	36 bc
4. Mevinphos 4E	0.67	0.87 (104)	29 bc	36 bc
5. Nudrin 1.8S	0.9	0.86 (97)	26 c	55ab
6. Malathion 50W	2.0	5.5 <sup>2/</sup> (88)	25 c <sup>1/</sup>	15 c
7. Baythroid 2E	0.06	0.08 (104)	9 c	16 c
8. Pounce 3.2E	0.4	0.47 (93)	8 c	14 c

<sup>1/</sup> # in parentheses indicates equivalent GPA water applied with each treatment.

<sup>2/</sup> Gross miscalculation was by Fisher.

<sup>3/</sup> Means designated by the same letter are not significantly different at the 5% level.