

Section VII. Foliage and plant feeding insects

INSECT CONTROL IN SPRING DRY PEAS, 2004 PEA:

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Pea weevil (PW): *Bruchus pisorum* (L.) on *Pisum sativum* L. "Columbia"

A trial consisting of a RCB of 4 foliar insecticide treatments and a UTC with 4 replicates of 6 x 20 feet each was established near Walla Walla, WA on Jun 17. Applications at 50% bloom using a CO2 back pack sprayer at 20 gpa/20 psi were made using GNW-1975, a new formulation of Imidan, plus Dimethoate and Zetacypermethrin, and Zetacypermethrin alone, as the standard in solutions buffered to pH 5.5. Pea harvest was completed on Jul 20. Evaluation of PW damage was assessed by counts of damaged peas per 100 pea sample per replicate after post-harvest diapause and emergence of adult weevils.

All insecticide treatments provided similar control of PW compared to the UTC, with the lower rate of Imidan + Dimethoate being slightly different than the other treatments.

<u>PW per 100 pea sample</u>		
<u>Treatment/formulation</u>	<u>Rate lb aia</u>	<u>Mean PW</u>
Zetacypermethrin 2E	0.025	0.00a
GWN-1975 + Zetacypermethrin	0.7/ 0.017	0.75a
GWN-1975 + Dimethoate	1.0/0.017	0.50a
GWN-1975 + Dimethoate	0.7/0.017	3.00b
<u>UTC</u>	<u>-----</u>	<u>19.25c</u>

ANOVA; LSD t Test $p = 0.05$.