Section VII
Foliage and Seed Feeding Pests

SEED TREATMENT WITH ENTRUST® INSECTICIDE FOR SEEDCORN MAGGOT CONTROL IN ORGANIC VEGETABLE AND VEGETABLE SEED CROPS

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Seedcorn maggot *(Delia platura*, is a serious pest of vegetable crops in the Columbia Basin. Infestations can reduce germination and stand establishment of winter- and spring-planted vegetables. Crops susceptible to seedcorn maggot damage include carrots, onions, beans, peas, and corn. Conventional vegetable producers have relied on post-plant applications of organophosphate, carbamate, or pyrethroid insecticides. For the past several years seed treatments of cloronicotinyl insecticides including imidacloprid, thiamethoxam, and clothianidin have provided effective control of maggots but, to date, there are no effective treatments available for seedcorn maggot control in organic vegetable production. Seed treatment trials conducted in 2007 and 2008 resulted in significantly greater stand establishment of several vegetable crops treated with Entrust® insecticide as compared with untreated seed. Additionally, stand establishment of Entrust treated seeds was equivalent to conventional post-plant insecticide treatments for stand establishment.