

Section VII
Foliage and Seed Feeding Pests

THRIPS CONTROL ON DRY BULB ONIONS

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Onion thrips can severely stress onion bulb and seed crops. Additionally, onion thrips vector the devastating *Tospovirus* Iris Yellow Spot Virus.

On 13 July 2005 plots were established in a dry bulb onion field near Othello, Washington State in a complete random block design with four replicates. Plots were two double rows wide and ten feet long. Applications were made with a CO₂ backpack sprayer applying 10 gallons per acre water at 70 psi. Two weeks post application plots were evaluated for efficacy by counting the number of adult and immature thrips on the central onion leaf.

The Assail, Aza-direct+Warrior, CaNO₃, Clutch, MSR, NNI0101, Pencap, and S-182 provided a moderate level of control. The Carzol, Lannate, and Success treatments were the most effective treatments in the trial.

Treatment	Rate/A	Mean thrips ± SE
Agri-Mek 0.15	0.024 lb ai	39.500 ± 6.564
Assail	0.148 lb ai	35.250 ± 4.498*
Aza Direct + Warrior	2 pt F + 0.03 lb ai	33.000 ± 9.009*
Calcium Nitrate	10 lb	34.750 ± 7.983*
Calypso	0.250 lb ai	58.750 ± 3.902
Carzol SP	1.25 lb F	26.750 ± 6.762*
Clutch 50WDG	0.1 lb ai	37.250 ± 16.705*
Proprietary	Proprietary	23.750 ± 4.171*
Lannate SP	0.9 lb ai	28.500 ± 8.893*
MSR	2 pt F	33.000 ± 5.083*
NNI-0101 20% SC	12.7 fl oz F	37.250 ± 6.316*
Non-Treated Control	NA	59.750 ± 5.218
OMI-88 15% EC	14 fl oz F	46.000 ± 7.036
Pencap M	2 pt F	35.750 ± 6.019*
S-1812	0.25 lb ai + 0.125 v/v surfactant	34.000 ± 4.243*
Success	0.094 lb ai	21.500 ± 4.518*
Warrior	0.03 lb ai	58.500 ± 10.087

Means followed by * are significantly different from the untreated check (pairwise t-test, P < 0.05)