

COMPARING WETCIT AND PETROLEUM SPRAY OIL AS ADJUVANTS WITH LORSBAN™ 4E (CHLORPIRIFOS) FOR THE CONTROL OF SAN JOSE SCALE ON APPLES



WETCIT



BASIC INFORMATION

TARGET	San Jose Scale (<i>Quadraspidiotus perniciosus</i>)
CROP	Apples Variety: Fuji
SPRAY WATER VOLUME	935.4 l/ha
LOCATION	Ephrata, Washington State • USA
TRIAL DATE	April - July 2012
RESEARCHER	Mick Qualls, Qualls Agricultural Laboratory

FIELD SITUATION

To determine the effect of **WETCIT** versus petroleum spray oil as adjuvants with chlorpyrifos for the control of San Jose Scale on apples, an application of Lorsban™ 4E (chlorpyrifos) and Nu-Cop® 50 WP (copper), combined with **WETCIT** at 0.25% concentration and petroleum spray oil at 5% concentration respectively, was made at the greentip stage of Fuji apple trees on 19 April 2012 using a commercial airblast orchard sprayer delivering approximately 935 l/ha.

DISCUSSION AND CONCLUSION

When fruit were evaluated at harvest on 6 September 2012 for scale infestation, 100% of fruit in the Untreated treatment were infested with San Jose Scale. It was clear that the petroleum spray oil could successfully be replaced with **WETCIT** at 0.25% concentration.



CROP Apples Variety: Fuji



PEST San Jose Scale

TREATMENT TABLE

1	Untreated
2	Standard* + WETCIT 2.3 l/ha
3	Standard + Petroleum spray oil 18.7 l/ha + WETCIT 4.7 l/ha
4	Standard + Petroleum spray oil 46.8 l/ha

*Standard = Lorsban™ 4E (chlorpyrifos) 4.7 l/ha + Nu-Cop® 50WP (copper) 5.6 kg



TREATMENT Lorsban™ 4E + Nu-Cop® 50WP + **WETCIT** 0.25%



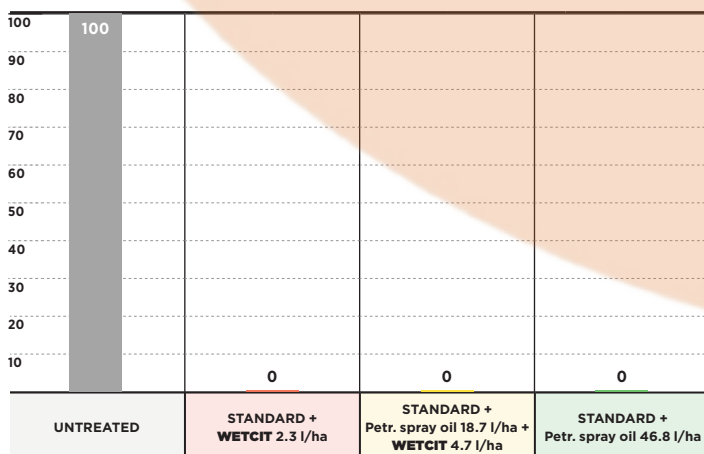
TREATMENT Lorsban™ 4E + Nu-Cop® 50WP + petroleum spray oil 5%

GRAPH 02

PERCENTAGE FRUIT INFESTED

BY SAN JOSE SCALE AT HARVEST

Fruit
invested (%)

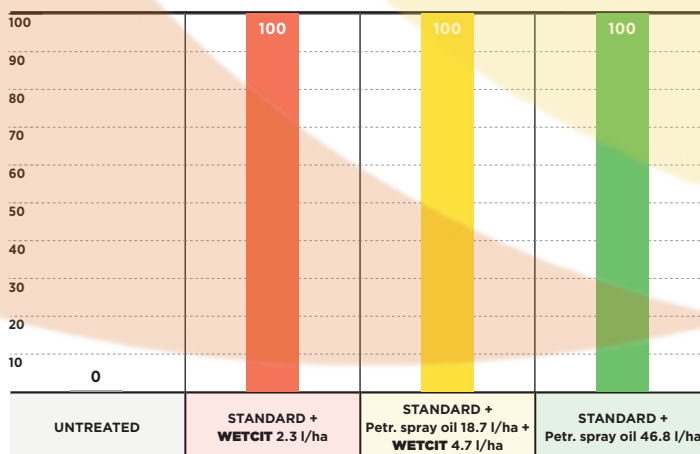


GRAPH 02

PERCENTAGE CONTROL

OF SAN JOSE SCALE

Control (%)



Nu-Cop® is registered trademark of Micro Flow Company. Lorsban™ is a trademark of Dow AgroSciences LLC.