



THE SAFETY OF VINTRE® ADJUVANT WHEN USED IN A SEASON-LONG PESTICIDE PROGRAM

TARGET	Crop Safety	CROP	Apple, Golden Delicious variety	LOCATION	Wapato, Washington, USA
TRIAL DATE	May – Sept. 2013	RESEARCHER	D. Dunbar & R. Britt, Ron Britt & Associates		

FIELD SITUATION

The objective of this study was to determine the potential for phytotoxic symptoms on foliage or fruit when applying VINTRE® in tank mixtures with standard pesticides on Golden Delicious apples. The trial was located in a 50 year old Golden Delicious orchard producing high quality fruit on the Yakama Indian Reservation near Wapato, Washington, with trees spaced twenty feet between rows and eight feet within rows. The orchard was irrigated with over-tree solid set sprinklers. Each plot consisted of six adjacent trees in a row with foliage and fruit evaluated on the four middle trees of the plot.

Applications were made with a Rears miniblast sprayer calibrated to deliver 200 gal./acre for the thinning spray and 100 gal./acre for the six cover sprays. Prior to each application, fruit and foliage on the middle four trees of each plot were inspected for phytotoxicity symptoms. Fruit were left on the trees for future ratings. At normal harvest time on September 10, 2013 fruit were harvested from the middle four trees of each plot.

On the evaluation date, 24 days after the last application, one hundred fruit were randomly taken out of each sample box and inspected for phytotoxicity symptoms. The total weight of each sample was also recorded.

SPRAY MIX

APP 1 MAY 8	APP 2 MAY 18	APP 3 JUNE 6	APP 4 JUNE 22	APP 5 JULY 11	APP 6 JULY 28	APP 7 AUGUST 17
Amidthin Rubigan Regulaid	Ultor Rimon Imidan Procure Buffer VINTRE 0.25%	Assail Diazinon VINTRE 0.25%	Delegate VINTRE 0.25%	AgriMek Imidan Buffer VINTRE 0.25%	Altacor Provado VINTRE 0.25%	Altacor VINTRE 0.25%

CONCLUSION

“The use of VINTRE at 1 quart per 100 gallons (0.25 % concentration) with all sprays applied, including the thinning sprays, was shown to be safe on Golden Delicious apples. This study indicated that the one quart per acre rate was the safest and **NON IONIC SURFACTANTS SHOULD NOT BE TANK MIXED WITH VINTRE.** The combination of VINTRE at one quart per acre with several pest control programs throughout the season did not cause any phytotoxicity problems to the fruit or foliage.” - Ron Britt

WARNING: DO NOT COMBINE VINTRE WITH OTHER OILS OR SURFACTANTS IN SEASON.