Pome Fruits—Chemical Control

Evaluation of Agri-Mek Dilute and Concentrate, 1992

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The orchard block consisted of mature 'Bosc' pears tree planted on a 25 by 25 ft spacing. Treatments were applied: 11 Jun (2nd cover) by using an air carrier sprayer set to deliver 250 gal/acre (dilute) or 100 gal/acre (concentrate). Plots consisted of 4 X 5 tree rectangles replicated 3 times in a randomized block design. Additional sprays applied to the entire orchard during the trial were Imidan 50% WP 5 lb/acre applied 2 July. Treatments were evaluated at 1-wk intervals. Samples consisted of 20 leaves from the tree centers and 20 leaves from the middle of 20 terminal shoots selected at random. Arthropods were removed from leaves using a mite brushing machine, and PP eggs and nymphs and TSM eggs and post-egg stages were counted with the aid of a dissecting microscope.

There were no significant differences between any of the four treatments. However, TSM levels were generally lower with Agri-Mek and oil as compared to Agri-Mek and Kinetic whether the materials were applied in a dilute or a concentrate spray.

	Rate form/	TSM/leaf				PP/leaf			
Treatment	acre	8 Jun	18 Jun	25 Jun	8 Jul	8 Jun	18 Jun	25 Jun	8 Jul
Agri-Mek Orchex 796 .25% (dilute)	20 oz 80 oz	22.13a	9.34a	1.07a	3.33a	1.12a	0.43a	0.57a	0.60a
Agri-Mek Orchex 796 .25% (concentrate)	20 oz 32 oz	33.00a	15.43a	3.03a	3.40a	0.70a	0.50a	0.17a	0.23a
Agri-Mek Kinetic (dilute)	20 oz 12 oz	10.50a	7.40a	8.86a	19.27a	0.93a	0.47a	0.40a	1.00a
Agri-Mek Kinetic (concentrate)	20 oz 12 oz	37.56a	14.20a	4.13a	24.83a	0.77a	0.13a	0.20a	0.43a

Means within a column followed by the same letter are not significantly different (P=0.05 Fisher's Protected LSD). Data were subjected to $\sqrt{x+0.5}$ transformation for statistical analysis. Nontransformed means are presented for comparison.