Control of Codling Moth in Large Plot Apple Trials with Diamond™ 7.5 WG

Ron Britt¹ and Don Joy²

¹Ron Britt and Associates, Yakima, WA
²Uniroyal Chemical/Crompton Corporation, Yakima, WA

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Abstract: Trials were conducted in the lower Yakima Valley of Washington to evaluate Diamond 7.5 WG for control of codling moth in apple. Large plots, 0.75 acre, were used and sub-sampled four times. The first trial was an evaluation of Diamond 7.5 WG at 0.125, 0.1875 and 0.25 lb a.i./A compared to Imidan 70W at 3.15 lb a.i./A for season-long codling moth control. Damage was assessed after first generation and at harvest with the harvest data presented here. Diamond at 0.125, 0.1875 lb a.i./A and 0.25 lb a.i./A provided 78, 94 and 96% control, respectively. Imidan gave 88% control and the check had 85% codling moth damaged fruit. The two highest rates of Diamond and Imidan provided significantly better codling moth control than did the low rate of Diamond when compared to the untreated check. Codling moth pressure was very high in this trial.

In a separate trial, Diamond 7.5 WG was used with and without Imidan for second generation codling moth control. Codling moth damage was assessed at harvest. Diamond at 0.125 and 0.25 lb a.i./A provided 90 and 95% control, respectively. Diamond at 0.125 lb a.i./A plus Imidan at 3.5 lb a.i./A and Diamond at 0.25 lb a.i./A plus Imidan at 3.75 lb a.i./A as a tank mix gave 98.5% and 98.2% control, respectively. Imidan alone gave 97.2% control and the check had 28.5% codling moth infested fruit. All treatments provided significantly better codling moth control when used alone or in combination with Imidan, compared to the untreated check. The low rate of Diamond had significantly less codling moth control compared to all other chemical treatments.