

Section 2. Implementation

B.-D.A.M. (BREWSTER-DUAL AREAWIDE MANAGEMENT): AN AREAWIDE PROGRAM FOR BOTH CODLING MOTH AND OBLIQUEBANDED LEAFROLLER

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Twelve growers farming 400 acres of apples and pears within the 4,000 acre Brewster Areawide Management Project used 200 Isomate CM/LR dispensers to manage both codling moth and obliquebanded leafroller. Growers supplemented their control of leafrollers with several applications of *Bacillus thuringiensis*. Orchards were monitored with traps (one per 5 acre) baited with lures of both species. Fruit injury was assessed from bin samples at harvest. Moth catches and fruit injury of codling moth and obliquebanded leafroller for the B.-D.A.M. and B.A.M. sites for 1997 and 1998 are presented in Table 1. From 1997 to 1998 fruit injury from obliquebanded leafroller decreased 78% while injury from codling moth remained negligible in the B.D.A.M. orchards. In 1998, the B.D.A.M. orchards had 52% less injury from leafroller compared with the B.A. M. Orchards using only Isomate C+. From 1997 to 1998 growers in B.D.A.M. decreased their use of organophosphate insecticides and *Bacillus thuringiensis* while B.A.M. growers insecticide use increased for leafrollers and decreased for codling moth. In 1998 the B.D.A.M. growers used less *Bacillus thuringiensis* and more Success insecticide than the B.A.M. growers, while organophosphate insecticide use was similar.

Table 1. Comparison of the B.-D.A.M. orchards with the B.A.M. orchards for 1997 and 1998.

Study/Year	Treatment	Moth Catch Per Trap		Percent Fruit Injury	
		CM	OBLR	CM	OBLR
B.D.A.M., 1998	Isomate CM/LR	2.82	5.42	0.03	0.34
B.D.A.M., 1997	Isomate C+	1.38	21.13	0.07	1.24
B.A.M., 1998	Isomate C+	4.21	46.39	0.08	0.71
B.A.M., 1997	Isomate C+	3.00	46.03	0.09	1.15