

**RESULTS OF TRACER\* NATURALYTE INSECT  
CONTROL SMALL PLOT AND LARGE  
EXPERIMENTAL USE PERMIT TRIALS  
IN TEXAS DURING 1995  
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**Abstract**

In June 1995, the Texas Department of Agriculture approved the release and distribution of Tracer\* for use on cotton under a limited crop destruct EUP. Both aerial and ground equipment were used. The number of aerial treatments ranged from one to five for control of lepidopterous larvae. The data suggests that Tracer\* at 0.062 lb. ai/A gave excellent control of cotton boll-worm, tobacco budworm, beet armyworm and cabbage looper without crop injury.

**Introduction**

Under a crop destruct Federal EUP, Tracer\* was applied to 120 acres of Texas cotton for control of the bollworm/budworm complex, beet armyworm and cabbage looper.

**Materials and Methods**

Multiple tests were conducted in South and Central Texas. Aerial plots were 5 - 10 acres in size, unreplicated and compared to the growers standard insect control program. All small replicated trials were sprayed by ground equipment delivering 10 gpa.

**Results and Discussions**

Tracer applied aerially at 3 - 5 gpa, or with ground equipment at 10 gpa provided excellent control of cotton bollworm, tobacco budworm, beet armyworm and cabbage looper at 0.062 lb. ai/A. No phytotoxicity to various cotton varieties was evident nor were any spray problems reported with the formulation.

Table 1. Evaluation of Tracer\* naturalyte insect control applied aerially to Texas cotton for control of the bollworm complex during 1995.

Location	Treatment	Rate (lb. ai/A)	Ave. %/Larvae in Terminals	Number of Treatments
Seminole, TX	Tracer	.062	1.0	1
	G. Std.		1.0	1
	Control		26.0	
Somerville, TX	Tracer	.062	10.6	5
	G. Std.		34.0	5
	Control		36.0	
McAllen, TX	Tracer	.062	0.0	3
	G. Std.		2.0	3
	Control		13.0	
Jarrell, TX	Tracer	.062	10.7	1
	G. Std.		18.7	1
	Control		28.0	
E. Bernard, TX	Tracer	.062	6.0	1
	G. Std.		10.0	1
	Control		23.0	

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