

BERMUDAGRASS CONTROL IN COTTON  
 FLOYD DUNN FARM -- SOUTH GILA VALLEY, YUMA COUNTY

Stanley Heathman and Don Howell

Herbicides were applied over the top of weeds and cotton in 40 gpa water using a 2 nozzle boom, full coverage on May 21 and July 14, 1981. Plot size 4 rows, 40 ft. long replicated 4 times. The soil was a loamy sand.

	<u>May 21 1st application</u>	<u>July 14 2nd application</u>
Cotton	4 to 14 in.	Bloom, some bolls
bermuda	seed heads	few seed heads - some dead
cultivation	cultivated 1 week earlier	numerous cultivations
temperature	90 F	110 F

% bermudagrass infestation level at the time of 1st treatment and  
 % control at 4 dates following 1 or 2 applications of herbicide.

Treatment	lb/A	adjuvant	% Bermuda infestation May 21	% control			
				June 9	July 14	Aug. 24	Sept. 22
Poast	.5	1% crop oil	80	58	81	92	90
Poast	1.0	1% crop oil	83	58	90	98	99
RO 138895	.5	½% X 77	65	55	66	88	86
RO 138895	1.0	½% X 77	76	50	76	91	92
Fusaride	.5	1/10% X 77	78	50	45	92	91
Fusaride	1.0	1/10% X 77	90	55	55	95	97
CGA 82725	.5	½% X 77	80	45	20	34	61
CGA 82725	1.0	½% X 77	80	38	30	41	52
Check			95	0	2	0	5

In this test:

1. Poast, RO 138895 and Fusaride gave acceptable control of bermudagrass season long following 2 applications of herbicide.
2. Poast at .5 or 1.0 lb/A gave better weed control than other treatments following the May 21st application. There was little difference between Fusaride, Poast or RO 138895 following 2 treatments.
3. CGA 82725 was relatively ineffective. The cotton remained severely stunted throughout the season.
4. Crop injury from herbicide treatments could not be evaluated due to severe bermudagrass competition.