



# North Carolina State University

## SEEDHEAD SUPPRESSION OF BAHIA GRASS WITH MAINTAIN CF 125 1EC

Trial ID: 03-T6  
Location: MONTGOMERY COUNTY

Study Dir.: L.S. WARREN  
Investigator: Leon Warren

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	PASNO MOWED
Stage Scale:	PRESEED
Height, Unit:	6 IN

### WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	NA .
Stage Scale:	.
Density, Unit:	. .

### APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACSPR
Operating Pressure:	16 PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	XR11004VS
Nozzle Spacing, Unit:	15 IN
Band Width, Unit:	60 IN
Boom Length, Unit:	60 IN
Boom Height, Unit:	10 IN
Ground Speed, Unit:	3 MPH
Carrier:	WATER
Spray Volume, Unit:	32.5 GPA
Propellant:	COMCO2
Tank Mix (Y/N):	Y

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										PASNO	PASNO	PASNO	
										PHYTO PERCENT	PHYTO PERCENT	REDUCTION PERCENT	
										6-10-03	6-23-03	7-8-03	
										L.S. WARREN	L.S. WARREN	L.S. WARREN	
										13 DA-A	26 DA-A	41 DA-A	
										P	P	P	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code	Spray Volume			
1	MAINTAIN CF 125	1	EC	0.063	lb ai/a			MAY 28	A		0.0 c	0.0 c	0.0 b
2	MAINTAIN CF 125	1	EC	0.125	lb ai/a			MAY 28	A		0.0 c	0.0 c	0.0 b
3	MAINTAIN CF 125	1	EC	0.25	lb ai/a			MAY 28	A		0.0 c	0.0 c	0.0 b
4	MAINTAIN CF 125	1	EC	0.5	lb ai/a			MAY 28	A		0.0 c	0.0 c	0.0 b
5	MAINTAIN CF 125	1	EC	0.75	lb ai/a			MAY 28	A		0.0 c	0.0 c	0.0 b
6	MAINTAIN CF 125	1	EC	1.0	lb ai/a			MAY 28	A		0.0 c	0.0 c	0.0 b
7	MAINTAIN CF 125	1	EC	0.063	lb ai/a			MAY 28	A		10.0 a	70.0 a	47.5 a
	PLATEAU	2	AS	2.0	fl oz/a			MAY 28	A				
	DYNE-AMIC	L		2.0	pt/a			MAY 28	A				
8	MAINTAIN CF 125	1	EC	0.125	lb ai/a			MAY 28	A		8.8 ab	67.5 b	45.0 a
	PLATEAU	2	AS	2.0	fl oz/a			MAY 28	A				
	DYNE-AMIC	L		2.0	pt/a			MAY 28	A				
9	PLATEAU	2	AS	2.0	fl oz/a			MAY 28	A		7.5 b	70.0 a	43.8 a
	DYNE-AMIC	L		2.0	pt/a			MAY 28	A				
10	CHECK										0.0 c	0.0 c	0.0 b
LSD (P=.05)										2.45	2.29	15.44	
Standard Deviation										1.69	1.58	10.64	
CV										64.28	7.62	78.09	
Grand Mean										2.63	20.75	13.63	
Bartlett's X2										0.725	0.0	0.032	
P(Bartlett's X2)										0.395	.	0.984	
Replicate F										1.976	1.000	3.494	
Replicate Prob(F)										0.1414	0.4079	0.0291	
Treatment F										25.585	1786.778	17.033	
Treatment Prob(F)										0.0001	0.0001	0.0001	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



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Trial ID: 03-T6  
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 Investigator: Leon Warren

										PASNO	PASNO	PASNO	
										HEIGHT	HEIGHT	SEEDHEAD	
										INCHES	INCHES	75F5SQ	
										7-8-03	7-28-03	7-8-03	
										L.S. WARREN	L.S. WARREN	L.S. WARREN	
										41 DA-A	61 DA-A	41 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Product Unit	Product Rate	Product Unit	Grow Stg	Appl Code	Spray Volume			
1	MAINTAIN CF 125	1	EC	0.063	lb ai/a			MAY 28	A		12.0 a	14.5 a	9.8 a
2	MAINTAIN CF 125	1	EC	0.125	lb ai/a			MAY 28	A		12.5 a	15.3 a	7.8 a
3	MAINTAIN CF 125	1	EC	0.25	lb ai/a			MAY 28	A		11.0 a-d	13.8 a	5.8 ab
4	MAINTAIN CF 125	1	EC	0.5	lb ai/a			MAY 28	A		11.5 abc	14.5 a	5.3 ab
5	MAINTAIN CF 125	1	EC	0.75	lb ai/a			MAY 28	A		11.8 ab	14.8 a	8.3 a
6	MAINTAIN CF 125	1	EC	1.0	lb ai/a			MAY 28	A		11.5 abc	13.8 a	11.8 a
7	MAINTAIN CF 125	1	EC	0.063	lb ai/a			MAY 28	A		9.3 cd	13.5 a	0.0 b
	PLATEAU	2	AS	2.0	fl oz/a			MAY 28	A				
	DYNE-AMIC	L		2.0	pt/a			MAY 28	A				
8	MAINTAIN CF 125	1	EC	0.125	lb ai/a			MAY 28	A		9.5 bcd	14.0 a	0.0 b
	PLATEAU	2	AS	2.0	fl oz/a			MAY 28	A				
	DYNE-AMIC	L		2.0	pt/a			MAY 28	A				
9	PLATEAU	2	AS	2.0	fl oz/a			MAY 28	A		8.8 d	13.8 a	0.0 b
	DYNE-AMIC	L		2.0	pt/a			MAY 28	A				
10	CHECK										12.0 a	14.8 a	5.5 ab
LSD (P=.05)										2.33	1.89	7.15	
Standard Deviation										1.61	1.30	4.93	
CV										14.65	9.12	91.31	
Grand Mean										10.98	14.25	5.4	
Bartlett's X2										10.176	9.971	5.921	
P(Bartlett's X2)										0.336	0.353	0.432	
Replicate F										1.093	2.743	5.799	
Replicate Prob(F)										0.3689	0.0626	0.0034	
Treatment F										2.697	0.789	2.934	
Treatment Prob(F)										0.0222	0.6283	0.0146	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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										PASNO	PASNO	PASNO	
										SEEDHEAD	SEEDHE	SEEDHE	
										75FSTSQ	CONTROL	CONTROL	
										7-28-03	PERCENT	PERCENT	
										L.S. WARREN	L.S. WARREN	L.S. WARREN	
										61 DA-A	41 DA-A	61 DA-A	
											T1	T3	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Product Unit	Product Rate	Product Unit	Grow Stg	Appl Code	Spray Volume			
1	MAINTAIN CF 125	1	EC	0.063	lb ai/a			MAY 28	A		87.0 a	25.0 b	5.3 c
2	MAINTAIN CF 125	1	EC	0.125	lb ai/a			MAY 28	A		76.8 ab	25.0 b	13.7 c
3	MAINTAIN CF 125	1	EC	0.25	lb ai/a			MAY 28	A		71.8 ab	41.5 b	16.6 c
4	MAINTAIN CF 125	1	EC	0.5	lb ai/a			MAY 28	A		56.3 b	45.5 b	40.8 b
5	MAINTAIN CF 125	1	EC	0.75	lb ai/a			MAY 28	A		80.8 ab	28.6 b	11.0 c
6	MAINTAIN CF 125	1	EC	1.0	lb ai/a			MAY 28	A		81.3 ab	25.0 b	8.8 c
7	MAINTAIN CF 125	1	EC	0.063	lb ai/a			MAY 28	A		2.3 c	100.0 a	97.6 a
	PLATEAU	2	AS	2.0	fl oz/a			MAY 28	A				
	DYNE-AMIC	L		2.0	pt/a			MAY 28	A				
8	MAINTAIN CF 125	1	EC	0.125	lb ai/a			MAY 28	A		0.5 c	100.0 a	98.9 a
	PLATEAU	2	AS	2.0	fl oz/a			MAY 28	A				
	DYNE-AMIC	L		2.0	pt/a			MAY 28	A				
9	PLATEAU	2	AS	2.0	fl oz/a			MAY 28	A		0.0 c	100.0 a	100.0 a
	DYNE-AMIC	L		2.0	pt/a			MAY 28	A				
10	CHECK										80.0 ab	0.0 b	0.0 c
LSD (P=.05)											28.37	49.17	20.58
Standard Deviation											19.55	33.89	14.19
CV											36.44	69.07	36.13
Grand Mean											53.65	49.06	39.27
Bartlett's X2											28.411	0.169	23.598
P(Bartlett's X2)											0.001*	0.999	0.001*
Replicate F											12.786	2.715	3.047
Replicate Prob(F)											0.0001	0.0644	0.0457
Treatment F											14.555	4.806	35.858
Treatment Prob(F)											0.0001	0.0007	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)  
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Column 11: T1 = 100\*(1-((C9)/[C9T10]))  
Column 12: T3 = 100\*(1-((C10)/[C10T10]))

### Trial Comments

06-03-03: (1 WAT) PASNO INJURY SYMPTOMS WERE NOT OBSERVED IN ANY OF THE PLOTS

06-10-03: (2 WAT) PASNO INJURY SYMPTOMS IN PLATEAU 2AS TREATED PLOTS CONSISTED OF SLIGHT YELLOWING AND SLIGHT TO MODERATE STUNTING

06-23-03: (4 WAT) PASNO INJURY SYMPTOMS IN PLATEAU 2AS TREATED PLOTS CONSISTED OF MODERATE PURPLING OF OLDER LEAVES AND LEAF TIPS AND ALSO MODERATE STUNTING  
THERE WAS NO SEEDHEAD FORMATION AT THIS TIME IN ANY OF THE PLOTS