

North Carolina State University

**BARRICADE 4F COMPATABILITY WITH STANDARD BROADLEAF HERBICIDES FOR SMOOTH
CRABGRASS CONTROL IN TALL FESCUE**

Trial ID: 03-T11
Location: WESLEYAN COLLEGE

Study Dir.: L.S. WARREN
Investigator: Fred Yelverton

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	FESAR MOWED	FESAR MOWED
Stage Scale:	NA	NA
Height, Unit:	2.5 IN	2.5 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	DIGIS PRE	DIGIS PRE
Stage Scale:	NA	NA
Density, Unit:	0 FT2	0 FT2

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACSPR	BACSPR
Operating Pressure:	35 PSI	35 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	XR 8002VS	XR 8002VS
Nozzle Spacing, Unit:	10 IN	10 IN
Band Width, Unit:	40 IN	40 IN
Boom Length, Unit:	40 IN	40 IN
Boom Height, Unit:	10 IN	10 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	32.5 GPA	32.5 GPA
Propellant:	COMCO2	COMCO2
Tank Mix (Y/N):	Y	Y

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Trial ID: 03-T11
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Weed Code										OXAST	DIGIS	DIGIS	
Rating Data Type										CONTROL	CONTROL	CONTROL	
Rating Unit										PERCENT	PERCENT	PERCENT	
Rating Date										5-9-03	6-5-03	7-1-03	
Assessed By										L.S. WARREN	L.S. WARREN	L.S. WARREN	
Trt-Eval Interval										59 DA-A	86 DA-A	112 DA-A	
ARM Action Codes										P	P	P	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume			
1	BARRICADE	480	F	730	g ai/ha			MAR 11	A		67.5 b	100.0 a	100.0 a
2	BARRICADE TRIMEC CLASSIC	480 326	F SL	730 1630	g ai/ha g ai/ha			MAR 11 MAR 11	A A		100.0 a	99.5 ab	100.0 a
3	BARRICADE SPEED ZONE	480 264	F EC	730 1240	g ai/ha g ai/ha			MAR 12 MAR 12	B B		100.0 a	100.0 a	100.0 a
4	BARRICADE COOL POWER	480 431	F EC	730 1500	g ai/ha g ai/ha			MAR 12 MAR 12	B B		99.5 a	97.5 b	98.8 bc
5	BARRICADE THREE-WAY ESTER	480 431	F EC	730 1520	g ai/ha g ae/ha			MAR 11 MAR 11	A A		100.0 a	100.0 a	99.8 ab
6	BARRICADE HORSEPOWER	480 547	F SL	730 1600	g ai/ha g ai/ha			MAR 11 MAR 11	A A		98.8 a	98.5 ab	100.0 a
7	BARRICADE TRIMEC CLASSIC X-77 SPREADER	480 326	F SL	730 1630	g ai/ha g ai/ha			MAR 11 MAR 11 MAR 11	A A A		99.5 a	99.8 a	100.0 a
8	BARRICADE SPEED ZONE X-77 SPREADER	480 264	F EC	730 1230	g ai/ha g ai/ha			MAR 12 MAR 12 MAR 12	B B B		98.3 a	99.8 a	99.8 ab
9	BARRICADE COOL POWER X-77 SPREADER	480 431	F EC	730 1510	g ai/ha g ai/ha			MAR 12 MAR 12 MAR 12	B B B		100.0 a	100.0 a	100.0 a
10	BARRICADE THREE-WAY ESTER X-77 SPREADER	480 431	F EC	730 1520	g ai/ha g ae/ha			MAR 11 MAR 11 MAR 11	A A A		100.0 a	100.0 a	100.0 a
11	BARRICADE HORSEPOWER X-77 SPREADER	480 547	F SL	730 1600	g ai/ha g ai/ha			MAR 11 MAR 11 MAR 11	A A A		99.5 a	100.0 a	100.0 a
12	BARRICADE TRIMEC CLASSIC INDUCE	480 326	F SL	730 1630	g ai/ha g ai/ha			MAR 11 MAR 11 MAR 11	A A A		99.5 a	100.0 a	100.0 a
13	BARRICADE SPEED ZONE INDUCE	480 264	F EC	730 1230	g ai/ha g ai/ha			MAR 12 MAR 12 MAR 12	B B B		98.8 a	100.0 a	100.0 a
14	BARRICADE COOL POWER INDUCE	480 431	F EC	730 1510	g ai/ha g ai/ha			MAR 12 MAR 12 MAR 12	B B B		100.0 a	99.5 ab	100.0 a
15	BARRICADE THREE-WAY ESTER INDUCE	480 431	F EC	730 1520	g ai/ha g ae/ha			MAR 11 MAR 11 MAR 11	A A A		100.0 a	99.8 a	98.5 c
16	BARRICADE HORSEPOWER INDUCE	480 547	F SL	730 1600	g ai/ha g ai/ha			MAR 11 MAR 11 MAR 11	A A A		100.0 a	98.8 ab	100.0 a
17	CHECK										0.0 c	0.0 c	0.0 d
LSD (P=.05)											15.63	2.12	1.21
Standard Deviation											10.94	1.48	0.84
CV											11.91	1.58	0.9
Grand Mean											91.84	93.71	93.93
Bartlett's X2											89.473	34.538	10.941
P(Bartlett's X2)											0.001*	0.001*	0.012*
Replicate F											1.110	1.746	1.723
Replicate Prob(F)											0.3542	0.1705	0.1751
Treatment F											20.752	1060.331	3283.129
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-T11
Location: WESLEYAN COLLEGE

Study Dir.: L.S. WARREN
Investigator: Fred Yelverton

Weed Code										DIGIS	DIGIS	
Rating Data Type										CONTROL	CONTROL	
Rating Unit										PERCENT	PERCENT	
Rating Date										8-4-03	9-2-03	
Assessed By										L.S. WARREN	L.S. WARREN	
Trt-Eval Interval										146 DA-A	175 DA-A	
ARM Action Codes										P	P	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume		
1	BARRICADE	480	F	730	g ai/ha			MAR 11	A		100.0 a	98.0 a
2	BARRICADE	480	F	730	g ai/ha			MAR 11	A		96.3 ab	93.3 ab
	TRIMEC CLASSIC	326	SL	1630	g ai/ha			MAR 11	A			
3	BARRICADE	480	F	730	g ai/ha			MAR 12	B		97.0 ab	93.0 ab
	SPEED ZONE	264	EC	1240	g ai/ha			MAR 12	B			
4	BARRICADE	480	F	730	g ai/ha			MAR 12	B		88.3 b	75.8 bc
	COOL POWER	431	EC	1500	g ai/ha			MAR 12	B			
5	BARRICADE	480	F	730	g ai/ha			MAR 11	A		95.0 ab	94.5 ab
	THREE-WAY ESTER	431	EC	1520	g ae/ha			MAR 11	A			
6	BARRICADE	480	F	730	g ai/ha			MAR 11	A		93.8 ab	89.3 abc
	HORSEPOWER	547	SL	1600	g ai/ha			MAR 11	A			
7	BARRICADE	480	F	730	g ai/ha			MAR 11	A		99.5 a	93.3 ab
	TRIMEC CLASSIC	326	SL	1630	g ai/ha			MAR 11	A			
	X-77 SPREADER		L	0.25	% v/v			MAR 11	A			
8	BARRICADE	480	F	730	g ai/ha			MAR 12	B		96.5 ab	87.0 abc
	SPEED ZONE	264	EC	1230	g ai/ha			MAR 12	B			
	X-77 SPREADER		L	0.25	% v/v			MAR 12	B			
9	BARRICADE	480	F	730	g ai/ha			MAR 12	B		100.0 a	96.5 ab
	COOL POWER	431	EC	1510	g ai/ha			MAR 12	B			
	X-77 SPREADER		L	0.25	% v/v			MAR 12	B			
10	BARRICADE	480	F	730	g ai/ha			MAR 11	A		99.5 a	98.8 a
	THREE-WAY ESTER	431	EC	1520	g ae/ha			MAR 11	A			
	X-77 SPREADER		L	0.25	% v/v			MAR 11	A			
11	BARRICADE	480	F	730	g ai/ha			MAR 11	A		97.0 ab	93.3 ab
	HORSEPOWER	547	SL	1600	g ai/ha			MAR 11	A			
	X-77 SPREADER		L	0.25	% v/v			MAR 11	A			
12	BARRICADE	480	F	730	g ai/ha			MAR 11	A		98.8 ab	95.5 ab
	TRIMEC CLASSIC	326	SL	1630	g ai/ha			MAR 11	A			
	INDUCE		L	0.25	% v/v			MAR 11	A			
13	BARRICADE	480	F	730	g ai/ha			MAR 12	B		92.5 ab	86.0 abc
	SPEED ZONE	264	EC	1230	g ai/ha			MAR 12	B			
	INDUCE		L	0.25	% v/v			MAR 12	B			
14	BARRICADE	480	F	730	g ai/ha			MAR 12	B		90.8 ab	88.3 abc
	COOL POWER	431	EC	1510	g ai/ha			MAR 12	B			
	INDUCE		L	0.25	% v/v			MAR 12	B			
15	BARRICADE	480	F	730	g ai/ha			MAR 11	A		88.3 b	71.0 c
	THREE-WAY ESTER	431	EC	1520	g ae/ha			MAR 11	A			
	INDUCE		L	0.25	% v/v			MAR 11	A			
16	BARRICADE	480	F	730	g ai/ha			MAR 11	A		95.8 ab	95.5 ab
	HORSEPOWER	547	SL	1600	g ai/ha			MAR 11	A			
	INDUCE		L	0.25	% v/v			MAR 11	A			
17	CHECK										0.0 c	0.0 d
LSD (P=.05)											10.54	21.19
Standard Deviation											7.38	14.83
CV											8.2	17.4
Grand Mean											89.93	85.22
Bartlett's X2											34.33	53.473
P(Bartlett's X2)											0.001*	0.001*
Replicate F											1.046	0.691
Replicate Prob(F)											0.3812	0.5624
Treatment F											40.512	9.792
Treatment Prob(F)											0.0001	0.0001

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

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Location: WESLEYAN COLLEGE

Investigator: Fred Yelverton

Trial Comments

04-11-03: DIGIS IN OPEN AREAS BEGINNING TO GERMINATE AND IN THE VERY EARLY 1 LEAF STAGE AT 0.25 INCHES

05-09-03: DIGIS WAS TOO SMALL AND HARD TO SEE DUE TO THE TALL FESCUE CANOPY TO ACCURATELY RATE AT THIS TIME