

North Carolina State University

COMMON BERMUDAGRASS REMOVAL FROM MEYER ZOYSIAGRASS (YEAR #2)

Trial ID: 04-T9
Location: WINSLOW TURF FARM

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

General Trial Information

Study Director: L.S. WARREN	Title: RESEARCH ASSOCIATE
Affiliation: NORTH CAROLINA STATE UNIVERSITY	
Postal Code: 27695	E-mail: leon_warren@ncsu.edu
Investigator: Fred Yelverton	Title: PROFESSOR
Affiliation: NORTH CAROLINA STATE UNIVERSITY	
Postal Code: 27695	E-mail: fred_yelverton@ncsu.edu

Trial Location

City: SCOTLAND NECK	Trial Status: COMPLETED
State/Prov.: NC	
	Initiation Date: 6-19-03

Country: USA

Directions:

Objectives:
TO REMOVE COMMON BERMUDAGRASS FROM MEYER ZOYSIAGRASS

Conclusions:

Cooperator/Landowner

Cooperator: HERB WINSLOW	Country: USA
Organization: WINSLOW TURF FARMS	Phone No: 252/903-8734
City: SCOTLAND NECK	
State/Prov: NC	

Crop Description

ZOYSIAGRASS

Variety: MEYER

Pest Description

Pest 1 Type: W **Code:** CYNDA Cynodon dactylon
Common Name: COMMON BERMUDAGRASS

Site and Design

Plot Width, Unit: 5 FT	Site Type: TURF - SODFARM
Plot Length, Unit: 10 FT	Tillage Type: NA
Replications: 4	Study Design: Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% OM: 0.66	
pH: 6.3	
CEC: 8.7	Fert. Level: EXCELLENT

Moisture Conditions

Overall Moisture Conditions: TEST AREA IRRIGATED AS NEEDED

Application Description

	A	B	C	D
Application Date:	6-7-04	7-1-04	7-30-04	8-24-04
Time of Day:	1:00 PM	11:30 AM	10:15 AM	12:30 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	JUN 7	JUL 1	JUL 30	AUG 24
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	L.S. WARREN	L.S. WARREN	L.S. WARREN	L.S. WARREN
Air Temperature, Unit:	78 F	82 F	84 F	83 F
% Relative Humidity:	83	72	87	62
Wind Velocity, Unit:	3.4 MPH	3.3 MPH	4.5 MPH	2.3 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temperature, Unit:	74 F	79 F	80 F	78 F
Soil Moisture:	MOIST	MOIST	MOIST	MOIST
% Cloud Cover:	100	80	75	20

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Crop Stage At Each Application

	A	B	C	D
Stage Scale Used:	DESC	DESC	DESC	DESC
Stage Majority, Percent:	MOWED 100	MOWED 100	MOWED 100	MOWED 100
Height, Unit:	1.5 IN	2.5 IN	2.0 IN	2.0 IN

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Disc., Scale:	CYNDA W DESC	CYNDA W DESC	CYNDA W DESC	CYNDA W DESC
Stage Majority, Percent:	MOWED 100	MOWED 100	MOWED 100	MOWED 100
Height, Unit:	2.0 IN	3.0 IN	2.0 IN	2.5 IN

Application Equipment

	A	B	C	D
Appl. Equipment:	BACSPR	BACSPR	BACSPR	BACSPR
Operating Pressure:	28	28	28	28
Pressure Unit:	PSI	PSI	PSI	PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	XR 8002VS	XR 8002VS	XR 8002VS	XR 8002VS
Nozzle Spacing, Unit:	10 IN	10 IN	10 IN	10 IN
Band Width, Unit:	40 IN	40 IN	40 IN	40 IN
Boom Length, Unit:	40 IN	40 IN	40 IN	40 IN
Boom Height, Unit:	10 IN	10 IN	10 IN	10 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume:	32.5	32.5	32.5	32.5
Volume Unit:	GPA	GPA	GPA	GPA
Propellant:	COMCO2	COMCO2	COMCO2	COMCO2
Tank Mix (Y/N):	Y	Y	Y	Y

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							W Weed CYNDA	W Weed CYNDA	W Weed CYNDA	W Weed CYNDA	W Weed CYNDA	
Pest Type												
Pest Code												
Crop Code												
BBCH Scale												
Crop Name												
Rating Date							6-7-04	6-21-04	7-1-04	7-15-04	7-30-04	
Rating Data Type							COVERAGE	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Assessed By							L.S. WARREN	L.S. WARREN	L.S. WARREN	L.S. WARREN	L.S. WARREN	
Days After Last Applic.							0	14	0	14	0	
Trt-Eval Interval							0 DA-A	14 DA-A	24 DA-A	14 DA-B	29 DA-B	
ARM Action Codes							P	P	P	P	P	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage	Appl Code					
1	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7 A	A	12.8 a	86.0 abc	83.8 ab	72.5 a-d	88.3 ab
	X-77 SPREADER	L		0.25 % v/v		JUN 7 A	A					
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1 B	B					
	X-77 SPREADER	L		0.25 % v/v		JUL 1 B	B					
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30 C	C					
	X-77 SPREADER	L		0.25 % v/v		JUL 30 C	C					
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24 D	D					
	X-77 SPREADER	L		0.25 % v/v		AUG 24 D	D					
2	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7 A	A	18.0 a	85.0 abc	73.8 abc	18.8 efg	88.3 ab
	X-77 SPREADER	L		0.25 % v/v		JUN 7 A	A					
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30 C	C					
	X-77 SPREADER	L		0.25 % v/v		JUL 30 C	C					
3	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7 A	A	16.8 a	86.3 abc	44.8 cd	43.8 cde	50.8 bcd
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1 B	B					
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30 C	C					
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24 D	D					
4	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7 A	A	12.5 a	85.8 abc	15.0 de	48.5 cde	45.0 d
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30 C	C					
5	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7 A	A	22.5 a	97.8 a	22.5 de	81.3 abc	91.5 a
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1 B	B					
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30 C	C					
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24 D	D					
6	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7 A	A	18.8 a	86.8 abc	62.3 bc	15.0 efg	58.8 a-d
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30 C	C					
7	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7 A	A	5.0 a	97.0 ab	86.0 ab	92.3 a	96.5 a
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7 A	A					
	X-77 SPREADER	L		0.25 % v/v		JUN 7 A	A					
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1 B	B					
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1 B	B					
	X-77 SPREADER	L		0.25 % v/v		JUL 1 B	B					
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30 C	C					
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30 C	C					
	X-77 SPREADER	L		0.25 % v/v		JUL 30 C	C					
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24 D	D					
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24 D	D					
	X-77 SPREADER	L		0.25 % v/v		AUG 24 D	D					
8	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7 A	A	15.3 a	77.5 c	80.0 ab	52.5 b-e	68.8 a-d
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7 A	A					
	X-77 SPREADER	L		0.25 % v/v		JUN 7 A	A					
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30 C	C					
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30 C	C					
	X-77 SPREADER	L		0.25 % v/v		JUL 30 C	C					
9	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7 A	A	6.8 a	98.5 a	94.8 a	91.3 ab	97.3 a
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7 A	A					
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1 B	B					
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1 B	B					
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30 C	C					
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30 C	C					
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24 D	D					
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24 D	D					
10	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7 A	A	10.8 a	89.0 abc	83.8 ab	39.8 def	69.0 a-d
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7 A	A					
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30 C	C					
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30 C	C					

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								W Weed	W Weed	W Weed	W Weed	W Weed
								CYNDA	CYNDA	CYNDA	CYNDA	CYNDA
								6-7-04	6-21-04	7-1-04	7-15-04	7-30-04
								COVER	CONTROL	CONTROL	CONTROL	CONTROL
								PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
								L.S. WARREN	L.S. WARREN	L.S. WARREN	L.S. WARREN	L.S. WARREN
								0	14	0	14	0
								0 DA-A	14 DA-A	24 DA-A	14 DA-B	29 DA-B
								P	P	P	P	P
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage	Appl Code					
11	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	11.8 a	96.5 ab	88.5 ab	94.8 a	92.0 a
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A					
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A					
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1	B					
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 1	B					
	X-77 SPREADER	L		0.25 % v/v		JUL 1	B					
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C					
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C					
	X-77 SPREAER	L		0.25 % v/v		JUL 30	C					
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24	D					
	TURFLON ESTER	4.0	EC	1.0 pt/a		AUG 24	D					
	X-77 SPREADER	L		0.25 % v/v		AUG 24	D					
12	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	15.3 a	82.5 bc	65.0 abc	3.8 fg	41.3 d
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A					
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A					
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C					
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C					
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C					
13	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	24.3 a	92.5 ab	93.5 ab	81.3 abc	87.0 abc
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A					
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1	B					
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 1	B					
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C					
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C					
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24	D					
	TURFLON ESTER	4.0	EC	1.0 pt/a		AUG 24	D					
14	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	17.8 a	97.5 a	61.3 bc	15.0 efg	48.3 cd
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A					
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C					
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C					
15	CHECK							18.8 a	0.0 d	0.0 e	0.0 g	0.0 e
LSD (P=.05)								18.12	14.80	32.50	39.54	38.85
Standard Deviation								12.68	10.36	22.74	27.67	27.18
CV								83.88	12.34	35.73	55.32	39.88
Grand Mean								15.12	83.9	63.65	50.02	68.17
Bartlett's X2								12.358	47.339	39.406	44.322	56.284
P(Bartlett's X2)								0.578	0.001*	0.001*	0.001*	0.001*
Friedman's X2								12.319	32.463	33.806	34.231	26.769
P(Friedman's X2)								0.581	0.003	0.002	0.002	0.021
Replicate F								5.514	0.674	0.136	0.962	4.169
Replicate Prob(F)								0.0028	0.5730	0.9379	0.4194	0.0113
Treatment F								0.706	21.646	6.979	6.034	4.106
Treatment Prob(F)								0.7555	0.0001	0.0001	0.0001	0.0002

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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							W Weed CYNDA	W Weed CYNDA	W Weed CYNDA	W Weed CYNDA	
Pest Type											
Pest Code											
Crop Code											
BBCH Scale											
Crop Name											
Rating Date							8-10-04	8-24-04	9-16-04	9-28-04	
Rating Data Type							CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	
Assessed By							L.S. WARREN	L.S. WARREN	L.S. WARREN	L.S. WARREN	
Days After Last Applic.							11	0	23	35	
Trt-Eval Interval							11 DA-C	25 DA-C	23 DA-D	35 DA-D	
ARM Action Codes							P	P	P	P	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate Unit	Growth Stage	Appl Code				
1	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	88.8 a-d	83.8 abc	98.0 a	75.0 abc
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A				
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1	B				
	X-77 SPREADER	L		0.25 % v/v		JUL 1	B				
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C				
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C				
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24	D				
	X-77 SPREADER	L		0.25 % v/v		AUG 24	D				
2	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	71.3 ef	76.3 c	45.0 d	28.8 de
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A				
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C				
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C				
3	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	80.0 cde	30.0 d	61.3 cd	41.3 cd
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1	B				
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C				
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24	D				
4	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	76.3 def	22.5 d	10.0 e	2.5 e
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C				
5	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A	95.3 abc	99.0 a	99.0 a	99.0 a
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1	B				
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C				
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24	D				
6	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A	81.3 b-e	93.5 abc	71.3 bc	57.5 bcd
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C				
7	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	98.0 a	99.0 a	99.0 a	99.0 a
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A				
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A				
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1	B				
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1	B				
	X-77 SPREADER	L		0.25 % v/v		JUL 1	B				
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C				
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C				
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C				
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24	D				
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24	D				
	X-77 SPREADER	L		0.25 % v/v		AUG 24	D				
8	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	83.8 a-e	89.8 abc	89.5 ab	77.3 ab
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A				
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A				
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C				
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C				
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C				
9	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	97.3 a	99.0 a	99.0 a	99.0 a
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A				
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1	B				
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1	B				
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C				
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C				
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24	D				
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24	D				
10	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	86.3 a-e	93.3 abc	93.3 ab	83.5 ab
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A				
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C				
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C				

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							W Weed	W Weed	W Weed	W Weed	
							CYNDA	CYNDA	CYNDA	CYNDA	
Pest Type											
Pest Code											
Crop Code											
BBCH Scale											
Crop Name											
Rating Date							8-10-04	8-24-04	9-16-04	9-28-04	
Rating Data Type							CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	
Assessed By							L.S. WARREN	L.S. WARREN	L.S. WARREN	L.S. WARREN	
Days After Last Applic.							11	0	23	35	
Trt-Eval Interval							11 DA-C	25 DA-C	23 DA-D	35 DA-D	
ARM Action Codes							P	P	P	P	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage	Appl Code				
11	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	96.0 ab	91.8 abc	99.0 a	99.0 a
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A				
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A				
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1	B				
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 1	B				
	X-77 SPREADER	L		0.25 % v/v		JUL 1	B				
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C				
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C				
	X-77 SPREAER	L		0.25 % v/v		JUL 30	C				
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24	D				
	TURFLON ESTER	4.0	EC	1.0 pt/a		AUG 24	D				
	X-77 SPREADER	L		0.25 % v/v		AUG 24	D				
12	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	62.5 f	77.5 bc	56.3 cd	28.8 de
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A				
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A				
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C				
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C				
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C				
13	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	86.3 a-e	96.8 ab	99.0 a	98.0 a
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A				
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1	B				
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 1	B				
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C				
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C				
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24	D				
	TURFLON ESTER	4.0	EC	1.0 pt/a		AUG 24	D				
14	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	76.3 def	83.8 abc	73.3 abc	39.8 d
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A				
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C				
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C				
15	CHECK							0.0 g	0.0 e	0.0 e	0.0 e
LSD (P=.05)							15.46	20.28	25.95	34.55	
Standard Deviation							10.82	14.19	18.16	24.18	
CV							13.76	18.74	24.93	39.07	
Grand Mean							78.6	75.72	72.85	61.88	
Bartlett's X2							33.439	24.553	24.815	25.538	
P(Bartlett's X2)							0.001*	0.006*	0.001*	0.002*	
Friedman's X2							39.231	41.731	42.794	42.313	
P(Friedman's X2)							0.001	0.001	0.001	0.001	
Replicate F							1.165	0.198	2.310	1.518	
Replicate Prob(F)							0.3344	0.8970	0.0901	0.2239	
Treatment F							19.689	19.763	13.159	8.883	
Treatment Prob(F)							0.0001	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.

North Carolina State University

COMMON BERMUDAGRASS REMOVAL FROM MEYER ZOYSIAGRASS (YEAR #2)

Trial ID: 04-T9
Location: WINSLOW TURF FARM

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

							ZOYJA BGRM Lawngress, Japanese	ZOYJA BGRM Lawngress, Japanese	ZOYJA BGRM Lawngress, Japanese	
							6-21-04 PHYTO PERCENT L.S. WARREN 14 14 DA-A P	7-1-04 PHYTO PERCENT L.S. WARREN 0 24 DA-A P	7-15-04 PHYTO PERCENT L.S. WARREN 14 14 DA-B P	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate Unit	Growth Stage	Appl Code			
1	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	13.8 ab	8.8 a	15.0 a
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1	B			
	X-77 SPREADER	L		0.25 % v/v		JUL 1	B			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C			
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C			
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24	D			
	X-77 SPREADER	L		0.25 % v/v		AUG 24	D			
2	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	15.0 a	8.8 a	0.0 d
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C			
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C			
3	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	13.8 ab	0.0 b	6.3 b
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1	B			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24	D			
4	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	12.5 abc	0.0 b	0.0 d
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C			
5	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A	5.0 de	0.0 b	3.8 bcd
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1	B			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C			
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24	D			
6	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A	3.8 ef	0.0 b	0.0 d
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C			
7	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	5.0 de	2.5 b	3.8 bcd
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A			
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1	B			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1	B			
	X-77 SPREADER	L		0.25 % v/v		JUL 1	B			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C			
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C			
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24	D			
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24	D			
	X-77 SPREADER	L		0.25 % v/v		AUG 24	D			
8	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	5.0 de	3.8 b	1.3 cd
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A			
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C			
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C			
9	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	10.0 bc	1.3 b	5.0 bc
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1	B			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1	B			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24	D			
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24	D			
10	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	10.0 bc	0.0 b	0.0 d
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C			

North Carolina State University

COMMON BERMUDAGRASS REMOVAL FROM MEYER ZOYSIAGRASS (YEAR #2)

Trial ID: 04-T9

Study Director: L.S. WARREN

Location: WINSLOW TURF FARM

Investigator: Fred Yelverton

								ZOYJA	ZOYJA	ZOYJA
								BGRM	BGRM	BGRM
								Lawngress, Japanese	Lawngress, Japanese	Lawngress, Japanese
								6-21-04	7-1-04	7-15-04
								PHYTO	PHYTO	PHYTO
								PERCENT	PERCENT	PERCENT
								L.S. WARREN	L.S. WARREN	L.S. WARREN
								14	0	14
								14 DA-A	24 DA-A	14 DA-B
								P	P	P
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate Unit	Growth Stage	Appl Code			
11	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	5.0 de	3.8 b	5.0 bc
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A			
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1	B			
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 1	B			
	X-77 SPREADER	L		0.25 % v/v		JUL 1	B			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C			
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C			
	X-77 SPREAER	L		0.25 % v/v		JUL 30	C			
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24	D			
	TURFLON ESTER	4.0	EC	1.0 pt/a		AUG 24	D			
	X-77 SPREADER	L		0.25 % v/v		AUG 24	D			
12	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	3.8 ef	3.8 b	0.0 d
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A			
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C			
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C			
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C			
13	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	12.5 abc	0.0 b	6.3 b
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1	B			
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 1	B			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C			
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24	D			
	TURFLON ESTER	4.0	EC	1.0 pt/a		AUG 24	D			
14	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	8.8 cd	1.3 b	0.0 d
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C			
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C			
15	CHECK							0.0 f	0.0 b	0.0 d
LSD (P=.05)								4.62	4.76	4.04
Standard Deviation								3.23	3.33	2.83
CV								39.2	147.88	91.71
Grand Mean								8.25	2.25	3.08
Bartlett's X2								6.158	7.942	3.248
P(Bartlett's X2)								0.863	0.338	0.777
Friedman's X2								38.281	18.144	25.894
P(Friedman's X2)								0.001	0.20	0.027
Replicate F								6.522	1.242	2.414
Replicate Prob(F)								0.0010	0.3066	0.0800
Treatment F								8.180	3.323	8.583
Treatment Prob(F)								0.0001	0.0013	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.

North Carolina State University

COMMON BERMUDAGRASS REMOVAL FROM MEYER ZOYSIAGRASS (YEAR #2)

Trial ID: 04-T9
Location: WINSLOW TURF FARM

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

							ZOYJA BGRM Lawngress, Japanese 7-30-04 PHYTO PERCENT L.S. WARREN 0 29 DA-B P	ZOYJA BGRM Lawngress, Japanese 8-10-04 PHYTO PERCENT L.S. WARREN 11 11 DA-C P	ZOYJA BGRM Lawngress, Japanese 8-24-04 PHYTO PERCENT L.S. WARREN 0 25 DA-C P	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage	Appl Code			
1	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7 A	A	0.0 a	37.5 a	0.0 a
	X-77 SPREADER	L		0.25 % v/v		JUN 7 A	A			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1 B	B			
	X-77 SPREADER	L		0.25 % v/v		JUL 1 B	B			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30 C	C			
	X-77 SPREADER	L		0.25 % v/v		JUL 30 C	C			
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24 D	D			
	X-77 SPREADER	L		0.25 % v/v		AUG 24 D	D			
2	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7 A	A	0.0 a	33.8 a	0.0 a
	X-77 SPREADER	L		0.25 % v/v		JUN 7 A	A			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30 C	C			
	X-77 SPREADER	L		0.25 % v/v		JUL 30 C	C			
3	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7 A	A	0.0 a	22.5 b	0.0 a
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1 B	B			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30 C	C			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24 D	D			
4	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7 A	A	0.0 a	18.8 b	0.0 a
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30 C	C			
5	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7 A	A	0.0 a	0.0 e	0.0 a
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1 B	B			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30 C	C			
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24 D	D			
6	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7 A	A	0.0 a	1.3 de	0.0 a
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30 C	C			
7	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7 A	A	0.0 a	0.0 e	0.0 a
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7 A	A			
	X-77 SPREADER	L		0.25 % v/v		JUN 7 A	A			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1 B	B			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1 B	B			
	X-77 SPREADER	L		0.25 % v/v		JUL 1 B	B			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30 C	C			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30 C	C			
	X-77 SPREADER	L		0.25 % v/v		JUL 30 C	C			
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24 D	D			
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24 D	D			
	X-77 SPREADER	L		0.25 % v/v		AUG 24 D	D			
8	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7 A	A	0.0 a	1.3 de	0.0 a
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7 A	A			
	X-77 SPREADER	L		0.25 % v/v		JUN 7 A	A			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30 C	C			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30 C	C			
	X-77 SPREADER	L		0.25 % v/v		JUL 30 C	C			
9	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7 A	A	0.0 a	3.8 cde	0.0 a
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7 A	A			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1 B	B			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1 B	B			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30 C	C			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30 C	C			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24 D	D			
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24 D	D			
10	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7 A	A	0.0 a	7.5 cd	0.0 a
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7 A	A			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30 C	C			
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30 C	C			

North Carolina State University

COMMON BERMUDAGRASS REMOVAL FROM MEYER ZOYSIAGRASS (YEAR #2)

Trial ID: 04-T9

Study Director: L.S. WARREN

Location: WINSLOW TURF FARM

Investigator: Fred Yelverton

								ZOYJA	ZOYJA	ZOYJA
								BGRM	BGRM	BGRM
								Lawngress, Japanese	Lawngress, Japanese	Lawngress, Japanese
								7-30-04	8-10-04	8-24-04
								PHYTO	PHYTO	PHYTO
								PERCENT	PERCENT	PERCENT
								L.S. WARREN	L.S. WARREN	L.S. WARREN
								0	11	0
								29 DA-B	11 DA-C	25 DA-C
								P	P	P
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage	Appl Code			
11	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	0.0 a	1.3 de	0.0 a
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A			
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1	B			
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 1	B			
	X-77 SPREADER	L		0.25 % v/v		JUL 1	B			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C			
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C			
	X-77 SPREAER	L		0.25 % v/v		JUL 30	C			
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24	D			
	TURFLON ESTER	4.0	EC	1.0 pt/a		AUG 24	D			
	X-77 SPREADER	L		0.25 % v/v		AUG 24	D			
12	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	0.0 a	2.5 cde	0.0 a
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A			
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A			
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C			
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C			
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C			
13	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	0.0 a	8.8 c	0.0 a
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1	B			
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 1	B			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C			
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24	D			
	TURFLON ESTER	4.0	EC	1.0 pt/a		AUG 24	D			
14	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	0.0 a	8.8 c	0.0 a
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUN 7	A			
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C			
	TURFLON ESTER	4.0	EC	1.0 pt/a		JUL 30	C			
15	CHECK							0.0 a	0.0 e	0.0 a
LSD (P=.05)								0.00	6.26	0.00
Standard Deviation								0.00	4.38	0.00
CV								0.0	44.52	0.0
Grand Mean								0.0	9.83	0.0
Bartlett's X2								0.0	8.412	0.0
P(Bartlett's X2)								.	0.676	.
Friedman's X2								0.0	42.931	0.0
P(Friedman's X2)								1.00	0.001	1.00
Replicate F								0.000	0.783	0.000
Replicate Prob(F)								1.0000	0.5103	1.0000
Treatment F								0.000	32.602	0.000
Treatment Prob(F)								1.0000	0.0001	1.0000

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.

North Carolina State University

COMMON BERMUDAGRASS REMOVAL FROM MEYER ZOYSIAGRASS (YEAR #2)

Trial ID: 04-T9
 Location: WINSLOW TURF FARM

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

Pest Type									
Pest Code									
Crop Code							ZOYJA	ZOYJA	
BBCH Scale							BGRM	BGRM	
Crop Name							Lawngrass, Japanese	Lawngrass, Japanese	
Rating Date							9-16-04	9-28-04	
Rating Data Type							STANDLOSS	STANDLOSS	
Rating Unit							PERCENT	PERCENT	
Assessed By							L.S. WARREN	L.S. WARREN	
Days After Last Applic.							23	35	
Trt-Eval Interval							23 DA-D	35 DA-D	
ARM Action Codes							P	P	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage	Appl Code		
1	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	17.5 a	15.0 a
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A		
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1	B		
	X-77 SPREADER	L		0.25 % v/v		JUL 1	B		
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C		
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C		
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24	D		
	X-77 SPREADER	L		0.25 % v/v		AUG 24	D		
2	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	0.0 c	0.0 b
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A		
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C		
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C		
3	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	12.5 b	2.5 b
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1	B		
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C		
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24	D		
4	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	0.0 c	0.0 b
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C		
5	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A	3.8 c	0.0 b
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1	B		
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C		
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24	D		
6	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A	0.0 c	0.0 b
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C		
7	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	1.3 c	0.0 b
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A		
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A		
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 1	B		
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1	B		
	X-77 SPREADER	L		0.25 % v/v		JUL 1	B		
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C		
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C		
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C		
	FUSILADE II	2.0	EC	4.0 fl oz/a		AUG 24	D		
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24	D		
	X-77 SPREADER	L		0.25 % v/v		AUG 24	D		
8	FUSILADE II	2.0	EC	3.5 fl oz/a		JUN 7	A	0.0 c	0.0 b
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A		
	X-77 SPREADER	L		0.25 % v/v		JUN 7	A		
	FUSILADE II	2.0	EC	4.0 fl oz/a		JUL 30	C		
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C		
	X-77 SPREADER	L		0.25 % v/v		JUL 30	C		
9	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	2.5 c	1.3 b
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A		
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 1	B		
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 1	B		
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C		
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C		
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		AUG 24	D		
	TURFLON ESTER	4.0	EC	1.0 qt/a		AUG 24	D		
10	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUN 7	A	0.0 c	0.0 b
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUN 7	A		
	ACCLAIM EXTRA	0.57	EC	1.25 pt/a		JUL 30	C		
	TURFLON ESTER	4.0	EC	1.0 qt/a		JUL 30	C		

North Carolina State University

COMMON BERMUDAGRASS REMOVAL FROM MEYER ZOYSIAGRASS (YEAR #2)

Trial ID: 04-T9
 Location: WINSLOW TURF FARM

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

Pest Type Pest Code Crop Code BBCH Scale Crop Name Rating Date Rating Data Type Rating Unit Assessed By Days After Last Applic. Trt-Eval Interval ARM Action Codes	ZOYJA BGRM Lawngrass, Japanese 9-16-04 STANDLOSS PERCENT L.S. WARREN 23 23 DA-D P	ZOYJA BGRM Lawngrass, Japanese 9-28-04 STANDLOSS PERCENT L.S. WARREN 35 35 DA-D P
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Trt No.	Treatment Name	Form	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code		
11	FUSILADE II	2.0	EC		3.5 fl oz/a				JUN 7	A	1.3 c	0.0 b
	TURFLON ESTER	4.0	EC		1.0 pt/a				JUN 7	A		
	X-77 SPREADER		L		0.25 % v/v				JUN 7	A		
	FUSILADE II	2.0	EC		4.0 fl oz/a				JUL 1	B		
	TURFLON ESTER	4.0	EC		1.0 pt/a				JUL 1	B		
	X-77 SPREADER		L		0.25 % v/v				JUL 1	B		
	FUSILADE II	2.0	EC		4.0 fl oz/a				JUL 30	C		
	TURFLON ESTER	4.0	EC		1.0 pt/a				JUL 30	C		
	X-77 SPREAER		L		0.25 % v/v				JUL 30	C		
	FUSILADE II	2.0	EC		4.0 fl oz/a				AUG 24	D		
	TURFLON ESTER	4.0	EC		1.0 pt/a				AUG 24	D		
	X-77 SPREADER		L		0.25 % v/v				AUG 24	D		
12	FUSILADE II	2.0	EC		3.5 fl oz/a				JUN 7	A	0.0 c	0.0 b
	TURFLON ESTER	4.0	EC		1.0 pt/a				JUN 7	A		
	X-77 SPREADER		L		0.25 % v/v				JUN 7	A		
	FUSILADE II	2.0	EC		4.0 fl oz/a				JUL 30	C		
	TURFLON ESTER	4.0	EC		1.0 pt/a				JUL 30	C		
	X-77 SPREADER		L		0.25 % v/v				JUL 30	C		
13	ACCLAIM EXTRA	0.57	EC		1.25 pt/a				JUN 7	A	1.3 c	0.0 b
	TURFLON ESTER	4.0	EC		1.0 pt/a				JUN 7	A		
	ACCLAIM EXTRA	0.57	EC		1.25 pt/a				JUL 1	B		
	TURFLON ESTER	4.0	EC		1.0 pt/a				JUL 1	B		
	ACCLAIM EXTRA	0.57	EC		1.25 pt/a				JUL 30	C		
	TURFLON ESTER	4.0	EC		1.0 pt/a				JUL 30	C		
	ACCLAIM EXTRA	0.57	EC		1.25 pt/a				AUG 24	D		
	TURFLON ESTER	4.0	EC		1.0 pt/a				AUG 24	D		
14	ACCLAIM EXTRA	0.57	EC		1.25 pt/a				JUN 7	A	0.0 c	0.0 b
	TURFLON ESTER	4.0	EC		1.0 pt/a				JUN 7	A		
	ACCLAIM EXTRA	0.57	EC		1.25 pt/a				JUL 30	C		
	TURFLON ESTER	4.0	EC		1.0 pt/a				JUL 30	C		
15	CHECK										0.0 c	0.0 b

LSD (P=.05)	4.20	3.86
Standard Deviation	2.94	2.70
CV	110.3	215.88
Grand Mean	2.67	1.25
Bartlett's X2	10.397	4.277
P(Bartlett's X2)	0.109	0.118
Friedman's X2	21.131	11.556
P(Friedman's X2)	0.098	0.642
Replicate F	1.413	1.736
Replicate Prob(F)	0.2524	0.1743
Treatment F	12.578	8.215
Treatment Prob(F)	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.

Trial Comments