

# North Carolina State University

## MONUMENT FOR SPRING TRANSITION FROM OVERSEEDED PERENNIAL RYEGRASS TO BERMUDAGRASS

Trial ID: 04-D22  
Location: NCSU TURF FIELD LAB

Study Director: TRAVIS GANNON  
Investigator: Fred Yelverton

### General Trial Information

**Study Director:** TRAVIS GANNON **Title:** RESEARCH ASSOCIATE  
**Affiliation:** NORTH CAROLINA STATE UNIVERSITY  
**Postal Code:** 27695 **E-mail:** TRAVIS\_GANNON@NCSU.EDU  
**Investigator:** FRED YELVERTON **Title:** PROFESSOR  
**Affiliation:** NORTH CAROLINA STATE UNIVERSITY  
**Postal Code:** 27695 **E-mail:** FRED\_YELVERTON@NCSU.EDU

### Trial Location

**City:** RALEIGH **Trial Status:** COMPLETED  
**State/Prov.:** NC  
**Postal Code:** 27695 **Initiation Date:** 4-15-04  
**Country:** USA  
**Directions:**

**Objectives:**

**Conclusions:**

### Cooperator/Landowner

**Cooperator:** BILL WHALEY **Country:** USA  
**Organization:** NORTH CAROLINA STATE UNIVERSITY **Phone No:** 919.515.3509  
**Address 1:** 4200 HILLSBOROUGH ST  
**City:** RALEIGH  
**State/Prov:** NC  
**Postal Code:** 27695

### Crop Description

**Crop 1:** CYNDA Cynodon dactylon BERMUDAGRASS  
**Variety:** TIFWAY 419  
**BBCH Scale:** BGRM

### Pest Description

**Pest 1 Type:** W **Code:** LOLPE Lolium perenne  
**Common Name:** PERENNIAL RYEGRASS

### Site and Design

**Plot Width, Unit:** 5 FT **Site Type:** GOLF COURSE FAIRWAY  
**Plot Length, Unit:** 5 FT  
**Replications:** 4 **Study Design:** Randomized Complete Block

**Trial Initiation Comments:**

**Field Prep./Maintenance:**

### Soil Description

**% OM:** 1.02 **Texture:** MINERAL  
**pH:** 5.4  
**CEC:** 6.8 **Fert. Level:** EXCELLENT

### Moisture Conditions

**Overall Moisture Conditions:** IRRIGATED AS NEEDED

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### Application Description

	A	B	C
Application Date:	4-15-04	4-27-04	5-12-04
Time of Day:	2-3 PM	5-7 PM	3-4 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	APRIL 15	APRIL 27	MAY 12
Application Placement:	FOLIAR	FOLIAR	FOLIAR
Applied By:	T GANNON	T GANNON	T GANNON
Air Temperature, Unit:	65.7 F	62.9 F	83.8 F
% Relative Humidity:	21	64	58
Wind Velocity, Unit:	4.3 MPH	1.8 MPH	1.2 MPH
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	61 F	61 F	80 F
Soil Moisture:	ADEQUATE	GOOD	GOOD
% Cloud Cover:	10	20	35

### Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	CYNDA BGRM	CYNDA BGRM	CYNDA BGRM
Stage Scale Used:	60% GREEN	80% GREEN	95% GREEN
Stage Majority, Percent:	60% GREEN 60	80% GREEN 80	95% GREEN 90
Stage Minimum, Percent:	50% GREEN 25	70% GREEN 10	75% 25
Stage Maximum, Percent:	70% GREEN 25	90% GREEN 10	95% 25
Height, Unit:	0.5 IN	0.5 IN	0.5 IN
Height Minimum, Maximum:	0.5 0.5	0.5 0.5	0.5 0.5

### Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	LOLPE W	LOLPE W	LOLPE W
Height, Unit:	0.5 IN	0.5 IN	0.5 IN
Height Minimum, Maximum:	0.5 0.5	0.5 0.5	0.5 0.5
Coverage, Unit:	90 %	80 %	80 %

### Application Equipment

	A	B	C
Appl. Equipment:	CO2 SPRAY	CO2 SPRAY	CO2 SPRAY
Operating Pressure:	25	25	25
Pressure Unit:	PSI	PSI	PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	VS8002XR	VS8002XR	VS8002XR
Nozzle Spacing, Unit:	10 INCH	10 INCH	10 INCH
Nozzles/Row:	4	4	4
Boom Length, Unit:	40 INCH	40 INCH	40 INCH
Boom Height, Unit:	10 INCH	10 INCH	10 INCH
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume:	32.5	32.5	32.5
Volume Unit:	GPA	GPA	GPA
Propellant:	COMP CO2	COMP CO2	COMP CO2

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Investigator: Fred Yelverton

					LOLPE	LOLPE	LOLPE	LOLPE	LOLPE	LOLPE	
					4-20-04	4-27-04	5-5-04	5-11-04	5-19-04	5-24-04	
					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
					%	%	%	%	%	%	
					5	0	8	14	7	12	
					5 DA-A	12 DA-A	20 DA-A	26 DA-A	34 DA-A	39 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code		
1	MONUMENT X-77	75 L	WG	0.1 oz/a 0.25 % v/v	5.25 g ai/ha		APRIL 15 A			0.0 a	0.0 a
2	MONUMENT X-77	75 L	WG	0.3 oz/a 0.25 % v/v	15.8 g ai/ha		APRIL 15 A			0.0 a	0.0 a
3	A14350 X-77	0.91 L	L	0.665 oz/a 0.25 % v/v	5.3 g ai/ha		APRIL 15 A			0.0 a	0.0 a
4	A14350 X-77	0.91 L	L	1.98 oz/a 0.25 % v/v	15.8 g ai/ha		APRIL 15 A			0.0 a	0.0 a
5	MANOR X-77	60 L	WG	0.5 oz/a 0.25 % v/v			APRIL 15 A			0.0 a	0.0 a
6	REVOLVER	0.19 SC	SC	0.4 oz/1000 ft2			APRIL 15 A			0.0 a	0.0 a
7	KERB	50 WP	WP	1 lb ai/a			APRIL 15 A			0.0 a	0.0 a
8	MONUMENT X-77	75 L	WG	0.1 oz/a 0.25 % v/v	5.25 g ai/ha		APRIL 27 B			0.0 a	0.0 a
9	MONUMENT X-77	75 L	WG	0.3 oz/a 0.25 % v/v	15.8 g ai/ha		APRIL 27 B			0.0 a	0.0 a
10	A14350 X-77	0.91 L	L	0.665 oz/a 0.25 % v/v	5.3 g ai/ha		APRIL 27 B			0.0 a	0.0 a
11	A14350 X-77	0.91 L	L	1.98 oz/a 0.25 % v/v	15.8 g ai/ha		APRIL 27 B			0.0 a	0.0 a
12	MANOR X-77	60 L	WG	0.5 oz/a 0.25 % v/v			APRIL 27 B			0.0 a	0.0 a
13	REVOLVER	0.19 SC	SC	0.4 oz/1000 ft2			APRIL 27 B			0.0 a	0.0 a
14	KERB	50 WP	WP	1 lb ai/a			APRIL 27 B			0.0 a	0.0 a
15	MONUMENT X-77	75 L	WG	0.1 oz/a 0.25 % v/v	5.25 g ai/ha		MAY 12 C			0.0 a	0.0 a
16	MONUMENT X-77	75 L	WG	0.3 oz/a 0.25 % v/v	15.8 g ai/ha		MAY 12 C			0.0 a	0.0 a
17	A14350 X-77	0.91 L	L	0.665 oz/a 0.25 % v/v	5.3 g ai/ha		MAY 12 C			0.0 a	0.0 a
18	A14350 X-77	0.91 L	L	1.98 oz/a 0.25 % v/v	15.8 g ai/ha		MAY 12 C			0.0 a	0.0 a
19	MANOR X-77	60 L	WG	0.5 oz/a 0.25 % v/v			MAY 12 C			0.0 a	0.0 a
20	REVOLVER	0.19 SC	SC	0.4 oz/1000 ft2			MAY 12 C			0.0 a	0.0 a
21	KERB	50 WP	WP	1 lb ai/a			MAY 12 C			0.0 a	0.0 a
22	NONTREATED									0.0 a	0.0 a
LSD (P=.05)					0.00	0.00	2.89	9.17	29.64	17.87	
Standard Deviation					0.00	0.00	2.04	6.48	20.96	12.63	
CV					0.0	0.0	46.63	89.16	41.82	29.57	
Grand Mean					0.0	0.0	4.38	7.27	50.11	42.73	
Bartlett's X2					0.0	0.0	3.427	7.421	23.563	23.153	
P(Bartlett's X2)					.	.	0.97	0.829	0.262	0.281	
Friedman's X2					0.0	0.0	66.8	51.448	55.438	67.989	
P(Friedman's X2)					1.00	1.00	0.001	0.001	0.001	0.001	
Replicate F					0.000	0.000	3.527	1.099	5.804	1.343	
Replicate Prob(F)					1.0000	1.0000	0.0198	0.3562	0.0014	0.2684	
Treatment F					0.000	0.000	17.555	4.936	5.664	19.493	
Treatment Prob(F)					1.0000	1.0000	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.

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Location: NCSU TURF FIELD LAB

Investigator: Fred Yelverton

Pest Code				LOLPE	LOLPE	LOLPE	TURF	TURF	TURF								
Crop Code				6-2-04	6-9-04	6-16-04	4-20-04	4-27-04	5-5-04								
Rating Date				CONTROL	CONTROL	CONTROL	QUALITY	QUALITY	QUALITY								
Rating Data Type				%	%	%	1-9	1-9	1-9								
Rating Unit				21	28	35	5	0	8								
Days After Last Applic.				48 DA-A	55 DA-A	62 DA-A	5 DA-A	12 DA-A	20 DA-A								
Trt-Eval Interval																	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code								
1	MONUMENT X-77	75 WG L		0.1 oz/a 0.25 % v/v	5.25 g ai/ha		APRIL 15 A		APRIL 15 A	5.0 h	0.0 g	0.0 f	7.0 a	7.0 a	7.0 a		
2	MONUMENT X-77	75 WG L		0.3 oz/a 0.25 % v/v	15.8 g ai/ha		APRIL 15 A		APRIL 15 A	30.0 d-g	21.3 de	22.5 def	7.0 a	7.0 a	7.0 a		
3	A14350 X-77	0.91 L		0.665 oz/a 0.25 % v/v	5.3 g ai/ha		APRIL 15 A		APRIL 15 A	10.0 gh	11.3 efg	10.0 f	7.0 a	7.0 a	7.0 a		
4	A14350 X-77	0.91 L		1.98 oz/a 0.25 % v/v	15.8 g ai/ha		APRIL 15 A		APRIL 15 A	5.0 h	18.8 ef	25.0 def	7.0 a	7.0 a	7.0 a		
5	MANOR X-77	60 WG L		0.5 oz/a 0.25 % v/v			APRIL 15 A		APRIL 15 A	10.0 gh	13.8 efg	51.3 bc	7.0 a	7.0 a	7.0 a		
6	REVOLVER	0.19 SC		0.4 oz/1000 ft2			APRIL 15 A			15.0 e-h	37.5 c	41.3 cd	7.0 a	7.0 a	7.0 a		
7	KERB	50 WP		1 lb ai/a			APRIL 15 A			11.3 fgh	6.3 fg	25.0 def	7.0 a	7.0 a	7.0 a		
8	MONUMENT X-77	75 WG L		0.1 oz/a 0.25 % v/v	5.25 g ai/ha		APRIL 27 B		APRIL 27 B	5.0 h	13.8 efg	17.5 def	7.0 a	7.0 a	7.0 a		
9	MONUMENT X-77	75 WG L		0.3 oz/a 0.25 % v/v	15.8 g ai/ha		APRIL 27 B		APRIL 27 B	46.3 cd	35.0 cd	36.3 cde	7.0 a	7.0 a	7.0 a		
10	A14350 X-77	0.91 L		0.665 oz/a 0.25 % v/v	5.3 g ai/ha		APRIL 27 B		APRIL 27 B	10.0 gh	3.8 g	15.0 ef	7.0 a	7.0 a	7.0 a		
11	A14350 X-77	0.91 L		1.98 oz/a 0.25 % v/v	15.8 g ai/ha		APRIL 27 B		APRIL 27 B	58.8 bc	61.3 b	37.5 cde	7.0 a	7.0 a	7.0 a		
12	MANOR X-77	60 WG L		0.5 oz/a 0.25 % v/v			APRIL 27 B		APRIL 27 B	41.3 cd	60.0 b	71.3 ab	7.0 a	7.0 a	7.0 a		
13	REVOLVER	0.19 SC		0.4 oz/1000 ft2			APRIL 27 B			67.5 ab	68.8 b	58.8 bc	7.0 a	7.0 a	7.0 a		
14	KERB	50 WP		1 lb ai/a			APRIL 27 B			5.0 h	12.5 efg	12.5 ef	7.0 a	7.0 a	7.0 a		
15	MONUMENT X-77	75 WG L		0.1 oz/a 0.25 % v/v	5.25 g ai/ha		MAY 12 C		MAY 12 C	36.3 d	0.0 g	15.0 ef	7.0 a	7.0 a	7.0 a		
16	MONUMENT X-77	75 WG L		0.3 oz/a 0.25 % v/v	15.8 g ai/ha		MAY 12 C		MAY 12 C	71.3 ab	61.3 b	57.5 bc	7.0 a	7.0 a	7.0 a		
17	A14350 X-77	0.91 L		0.665 oz/a 0.25 % v/v	5.3 g ai/ha		MAY 12 C		MAY 12 C	31.3 def	3.8 g	18.8 def	7.0 a	7.0 a	7.0 a		
18	A14350 X-77	0.91 L		1.98 oz/a 0.25 % v/v	15.8 g ai/ha		MAY 12 C		MAY 12 C	76.3 ab	23.8 cde	52.5 bc	7.0 a	7.0 a	7.0 a		
19	MANOR X-77	60 WG L		0.5 oz/a 0.25 % v/v			MAY 12 C		MAY 12 C	35.0 de	25.0 cde	71.3 ab	7.0 a	7.0 a	7.0 a		
20	REVOLVER	0.19 SC		0.4 oz/1000 ft2			MAY 12 C			83.8 a	88.8 a	91.3 a	7.0 a	7.0 a	7.0 a		
21	KERB	50 WP		1 lb ai/a			MAY 12 C			5.0 h	11.3 efg	5.0 f	7.0 a	7.0 a	7.0 a		
22	NONTREATED									0.0 h	0.0 g	0.0 f	7.0 a	7.0 a	7.0 a		
LSD (P=.05)				21.10	14.29	25.13	0.00	0.00	0.00								
Standard Deviation				14.92	10.11	17.77	0.00	0.00	0.00								
CV				49.83	38.5	53.19	0.0	0.0	0.0								
Grand Mean				29.94	26.25	33.41	7.0	7.0	7.0								
Bartlett's X2				29.791	20.77	23.877	0.0	0.0	0.0								
P(Bartlett's X2)				0.073	0.291	0.201	.	.	.								
Friedman's X2				62.375	67.989	56.532	0.0	0.0	0.0								
P(Friedman's X2)				0.001	0.001	0.001	1.00	1.00	1.00								
Replicate F				0.777	2.541	0.847	0.000	0.000	0.000								
Replicate Prob(F)				0.5111	0.0643	0.4735	1.0000	1.0000	1.0000								
Treatment F				13.023	26.158	8.221	0.000	0.000	0.000								
Treatment Prob(F)				0.0001	0.0001	0.0001	1.0000	1.0000	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.

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Trial ID: 04-D22

Study Director: TRAVIS GANNON

Location: NCSU TURF FIELD LAB

Investigator: Fred Yelverton

Pest Code				TURF	TURF	TURF	TURF	TURF	TURF						
Crop Code				5-11-04	5-19-04	5-24-04	6-2-04	6-9-04	6-16-04						
Rating Date				QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY						
Rating Data Type				1-9	1-9	1-9	1-9	1-9	1-9						
Rating Unit				14	7	12	21	28	35						
Days After Last Applic.				26 DA-A	34 DA-A	39 DA-A	48 DA-A	55 DA-A	62 DA-A						
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code						
1	MONUMENT X-77	75 L	WG	0.1 oz/a 0.25 % v/v	5.25 g ai/ha		APRIL 15 A	APRIL 15 A		7.0 a	6.8 abc	6.7 bcd	7.0 a	7.0 a	6.9 abc
2	MONUMENT X-77	75 L	WG	0.3 oz/a 0.25 % v/v	15.8 g ai/ha		APRIL 15 A	APRIL 15 A		7.0 a	6.6 bcd	6.5 cde	6.8 bcd	6.9 ab	6.9 ab
3	A14350 X-77	0.91 L	L	0.665 oz/a 0.25 % v/v	5.3 g ai/ha		APRIL 15 A	APRIL 15 A		7.0 a	6.6 bcd	6.4 e	6.9 abc	6.9 ab	6.9 ab
4	A14350 X-77	0.91 L	L	1.98 oz/a 0.25 % v/v	15.8 g ai/ha		APRIL 15 A	APRIL 15 A		7.0 a	6.4 d	6.5 cde	6.9 abc	6.9 abc	6.9 ab
5	MANOR X-77	60 L	WG	0.5 oz/a 0.25 % v/v			APRIL 15 A	APRIL 15 A		7.0 a	6.6 bcd	6.7 bcd	6.9 abc	7.0 a	6.9 abc
6	REVOLVER	0.19 SC	SC	0.4 oz/1000 ft2			APRIL 15 A			7.0 a	6.4 d	6.4 e	6.9 abc	6.8 abc	6.8 abc
7	KERB	50 WP	WP	1 lb ai/a			APRIL 15 A			7.0 a	6.8 abc	6.6 b-e	6.9 ab	6.9 ab	6.9 ab
8	MONUMENT X-77	75 L	WG	0.1 oz/a 0.25 % v/v	5.25 g ai/ha		APRIL 27 B	APRIL 27 B		7.0 a	6.6 bcd	6.4 de	7.0 a	7.0 a	6.9 ab
9	MONUMENT X-77	75 L	WG	0.3 oz/a 0.25 % v/v	15.8 g ai/ha		APRIL 27 B	APRIL 27 B		7.0 a	6.4 d	6.4 de	6.8 cde	6.8 bc	6.8 bcd
10	A14350 X-77	0.91 L	L	0.665 oz/a 0.25 % v/v	5.3 g ai/ha		APRIL 27 B	APRIL 27 B		7.0 a	6.6 bcd	6.4 e	6.9 ab	6.9 ab	6.9 abc
11	A14350 X-77	0.91 L	L	1.98 oz/a 0.25 % v/v	15.8 g ai/ha		APRIL 27 B	APRIL 27 B		7.0 a	6.5 cd	6.5 cde	6.7 de	6.8 abc	6.8 bcd
12	MANOR X-77	60 L	WG	0.5 oz/a 0.25 % v/v			APRIL 27 B	APRIL 27 B		7.0 a	6.6 bcd	6.4 de	6.8 bcd	6.8 abc	6.7 cd
13	REVOLVER	0.19 SC	SC	0.4 oz/1000 ft2			APRIL 27 B			7.0 a	6.4 d	6.4 de	6.6 e	6.8 bc	6.7 cd
14	KERB	50 WP	WP	1 lb ai/a			APRIL 27 B			7.0 a	6.6 bcd	6.8 abc	6.9 ab	6.9 abc	6.9 abc
15	MONUMENT X-77	75 L	WG	0.1 oz/a 0.25 % v/v	5.25 g ai/ha		MAY 12 C	MAY 12 C		7.0 a	6.8 ab	6.8 abc	6.8 cde	7.0 a	6.8 abc
16	MONUMENT X-77	75 L	WG	0.3 oz/a 0.25 % v/v	15.8 g ai/ha		MAY 12 C	MAY 12 C		7.0 a	6.9 a	6.8 ab	6.7 de	6.7 c	6.7 cd
17	A14350 X-77	0.91 L	L	0.665 oz/a 0.25 % v/v	5.3 g ai/ha		MAY 12 C	MAY 12 C		7.0 a	7.0 a	6.7 bcd	6.8 bcd	6.9 ab	6.9 abc
18	A14350 X-77	0.91 L	L	1.98 oz/a 0.25 % v/v	15.8 g ai/ha		MAY 12 C	MAY 12 C		7.0 a	6.8 abc	6.8 abc	6.7 de	6.8 bc	6.8 bcd
19	MANOR X-77	60 L	WG	0.5 oz/a 0.25 % v/v			MAY 12 C	MAY 12 C		7.0 a	6.8 ab	6.8 abc	6.8 bcd	6.9 abc	6.6 d
20	REVOLVER	0.19 SC	SC	0.4 oz/1000 ft2			MAY 12 C			7.0 a	7.0 a	6.7 bcd	6.7 de	6.4 d	6.3 e
21	KERB	50 WP	WP	1 lb ai/a			MAY 12 C			7.0 a	6.9 a	6.6 b-e	7.0 a	7.0 a	6.9 abc
22	NONTREATED									7.0 a	7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
LSD (P=.05)				0.00	0.26	0.29	0.16	0.20	0.20						
Standard Deviation				0.00	0.18	0.20	0.11	0.14	0.14						
CV				0.0	2.76	3.07	1.6	2.02	2.09						
Grand Mean				7.0	6.69	6.6	6.84	6.87	6.8						
Bartlett's X2				0.0	15.217	12.423	1.726	7.034	8.577						
P(Bartlett's X2)				.	0.647	0.774	1.00	0.933	0.98						
Friedman's X2				0.0	43.272	36.806	40.66	32.17	34.74						
P(Friedman's X2)				1.00	0.003	0.018	0.006	0.056	0.03						
Replicate F				0.000	6.429	0.202	5.412	3.530	3.966						
Replicate Prob(F)				1.0000	0.0007	0.8946	0.0022	0.0198	0.0118						
Treatment F				0.000	4.662	2.853	4.659	3.924	5.390						
Treatment Prob(F)				1.0000	0.0001	0.0007	0.0001	0.0001	0.0001						

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# North Carolina State University

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BERMUDAGRASS**

Trial ID: 04-D22

Study Director: TRAVIS GANNON

Location: NCSU TURF FIELD LAB

Investigator: Fred Yelverton

Trial Comments

4-15-04 - Trial was initiated on Quick Trans perennial ryegrass which was overseeded the previous fall (12 lb per 1000ft<sup>2</sup>).