

North Carolina State University

SULFONYLUREA HERBICIDES FOR POST EMERGENT CONTROL OF PURPLE NUTSEDGE IN A BERMUDAGRASS FAIRWAY

Trial ID: 04-D09
Location: PLYMOUTH CC

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@NCSSU.EDU
Investigator: FRED YELVERTON **Title:** PROFESSOR
Affiliation: NORTH CAROLINA STATE UNIVERSITY
Postal Code: 27695 **E-mail:** FRED_YELVERTON@NCSSU.EDU

Trial Location

City: PLYMOUTH **Trial Status:** COMPLETED
State/Prov.: NC
Postal Code: 27962 **Initiation Date:** 4-28-04
Country: US
Directions:

Objectives:

Conclusions:

Cooperator/Landowner

Cooperator: CHRIS KELLY **Country:** USA
Organization: PLYMOUTH COUNTRY CLUB **Phone No:** 252.793.4519
Address 1: 301 GOLF RD
City: PLYMOUTH
State/Prov: NC
Postal Code: 27962

Crop Description

Crop 1: CYNDA Cynodon dactylon Bermuda grass
Variety: COMMON
BBCH Scale: BGRM

Pest Description

Pest 1 Type: W **Code:** CYPRO Cyperus rotundus
Common Name: Purple nutsedge

Site and Design

Plot Width, Unit: 5 FT **Site Type:** GOLF COURSE FAIRWAY
Plot Length, Unit: 10 FT
Replications: 4 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% OM: 0.76 **Texture:** MINERAL
pH: 5.9
CEC: 4.3 **Fert. Level:** GOOD

Moisture Conditions

Overall Moisture Conditions: IRRIGATED AS NEEDED

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Application Description

	A	B	C
Application Date:	4-28-04	5-12-04	6-8-04
Time of Day:	9-12 NOON	9-11 AM	9-10 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	APRIL 28	MAY 12	JUNE 8
Application Placement:	FOLIAR	FOLIAR	FOLIAR
Applied By:	T GANNON	T GANNON	T GANNON
Air Temperature, Unit:	60.9 F	81.1 F	76.6 F
% Relative Humidity:	48	57	97
Wind Velocity, Unit:	1.9 MPH	0.8 MPH	1.2 MPH
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	64 F	80 F	72 F
Soil Moisture:	GOOD	GOOD	GOOD
% Cloud Cover:	5	10	95

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	CYNDA BGRM	CYNDA BGRM	CYNDA BGRM
Stage Scale Used:	MOWED	MOWED	MOWED
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:	CYPRO W	CYPRO W	CYPRO W
Stage Majority, Percent:	4 LEAF 80	4 LEAF 80	5 LEAF 80
Stage Minimum, Percent:	3 LEAF 10	4 LEAF 80	5 LEAF 80
Stage Maximum, Percent:	4 LEAF 80	5 LEAF 10	6 LEAF 10
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
Density, Unit:	3 FT2	4 FT2	4 FT2
Coverage, Unit:	35 %	40 %	40 %

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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Trial ID: 04-D09
Location: PLYMOUTH CC

Study Director: TRAVIS GANNON
Investigator: Fred Yelverton

Pest Code				CYPRO	CYPRO	CYPRO	CYPRO	CYPRO	CYPRO					
Crop Code				5-3-04	5-12-04	5-20-04	5-26-04	6-3-04	6-8-04					
Rating Date				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL					
Rating Data Type				%	%	%	%	%	%					
Rating Unit				5	0	8	14	22	0					
Days After Last Applic.				5 DA-A	14 DA-A	22 DA-A	28 DA-A	36 DA-A	41 DA-A					
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code						
1	DPX-F5384 X-77	60 DF	L	1.67 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		7.5 bc	67.5 ab	17.5 e	0.0 e	0.0 d	0.0 d
2	DPX-F6025 X-77	25 WDG	L	1 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		8.8 abc	37.5 cde	43.8 c	0.0 e	0.0 d	0.0 d
3	DPX-T5648 X-77	75 WDG	L	1 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		12.5 a	26.3 def	71.3 ab	77.5 a	48.8 b	37.5 c
4	DPX-747 DPX-M6316 X-77	75 WDG 75 DF	L	0.75 oz/a 0.375 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A		8.8 abc	23.8 def	65.0 b	52.5 b	6.3 cd	0.0 d
5	DPX-747 X-77	75 WDG	L	0.75 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		8.8 abc	12.5 ef	18.8 de	16.3 cd	0.0 d	0.0 d
6	DPX-KU253 X-77	42 WDG	L	0.5 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		10.0 ab	46.3 a-d	30.0 cde	3.8 de	0.0 d	0.0 d
7	DPX-T6376 DPX-F6025 X-77	60 DF 25 WDG	L	0.104 oz/a 0.64 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A		10.0 ab	26.3 def	31.3 cde	0.0 e	0.0 d	0.0 d
8	DPX-F5384 DPX-T6376 X-77	60 DF 60 DF	L	1.33 oz/a 0.104 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A		5.0 c	43.3 bcd	33.3 cd	10.0 cde	0.0 d	0.0 d
9	MONUMENT X-77	75 WG	L	0.56 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		8.8 abc	48.8 a-d	76.3 ab	86.3 a	91.3 a	90.0 a
10	MONUMENT X-77 MONUMENT X-77	75 WG 75 WG	L L	0.33 oz/a 0.25 % v/v 0.33 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A JUNE 8 C JUNE 8 C		10.0 ab	52.5 a-d	82.5 a	86.3 a	88.8 a	92.5 a
11	MANAGE X-77	75 WG	L	1.33 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		8.8 abc	75.0 a	72.5 ab	71.3 a	57.5 b	66.3 b
12	MANAGE X-77 MANAGE X-77	75 WG 75 WG	L L	1.33 oz/a 0.25 % v/v 1.33 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A JUNE 8 C JUNE 8 C		10.0 ab	62.5 abc	77.5 ab	73.8 a	53.8 b	57.5 b
13	MSMA X-77 MSMA X-77	6.6 L 6.6 L	L L	2 lb ai/a 0.25 % v/v 2 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A MAY 12 B MAY 12 B		6.3 bc	10.0 ef	27.5 de	20.0 c	20.0 c	0.0 d
14	NONTREATED								0.0 d	0.0 f	0.0 f	0.0 e	0.0 d	0.0 d
LSD (P=.05)				4.21	29.39	15.14	15.43	14.18	8.88					
Standard Deviation				2.95	20.57	10.60	10.80	9.92	6.21					
CV				35.89	54.11	22.92	30.39	37.93	25.31					
Grand Mean				8.21	38.01	46.22	35.54	26.16	24.55					
Bartlett's X2				7.066	16.473	27.564	12.627	12.329	9.495					
P(Bartlett's X2)				0.529	0.171	0.006*	0.18	0.055	0.05*					
Friedman's X2				17.564	34.793	43.857	44.114	40.279	38.029					
P(Friedman's X2)				0.175	0.001	0.001	0.001	0.001	0.001					
Replicate F				3.150	1.034	2.581	4.517	3.643	1.522					
Replicate Prob(F)				0.0360	0.3885	0.0677	0.0083	0.0210	0.2244					
Treatment F				4.061	4.815	26.288	45.521	48.841	137.986					
Treatment Prob(F)				0.0004	0.0001	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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Trial ID: 04-D09
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Pest Code		CYPRO		CYPRO		CYPRO		CYPRO		TURF		TURF			
Crop Code		6-21-04		7-7-04		7-21-04		9-29-04		5-3-04		5-12-04			
Rating Date		CONTROL		CONTROL		CONTROL		CONTROL		QUALITY		QUALITY			
Rating Data Type		%		%		%		%		1-9		1-9			
Rating Unit		13		29		43		113		5		0			
Days After Last Applic.		54 DA-A		70 DA-A		84 DA-A		154 DA-A		5 DA-A		14 DA-A			
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	DPX-F5384 X-77	60 L	DF	1.67 oz/a 0.25 % v/v				APRIL 28 A APRIL 28 A		0.0 d	0.0 d	0.0 e	0.0 c	6.5 a	7.0 a
2	DPX-F6025 X-77	25 L	WDG	1 oz/a 0.25 % v/v				APRIL 28 A APRIL 28 A		0.0 d	0.0 d	8.8 d	0.0 c	6.5 a	7.0 a
3	DPX-T5648 X-77	75 L	WDG	1 oz/a 0.25 % v/v				APRIL 28 A APRIL 28 A		40.0 c	46.3 b	15.0 cd	15.0 b	6.5 a	4.6 c
4	DPX-747 DPX-M6316 X-77	75 L	WDG	0.75 oz/a 0.375 oz/a 0.25 % v/v				APRIL 28 A APRIL 28 A APRIL 28 A		0.0 d	0.0 d	0.0 e	0.0 c	6.5 a	6.0 b
5	DPX-747 X-77	75 L	WDG	0.75 oz/a 0.25 % v/v				APRIL 28 A APRIL 28 A		0.0 d	0.0 d	0.0 e	0.0 c	6.5 a	6.4 b
6	DPX-KU253 X-77	42 L	WDG	0.5 oz/a 0.25 % v/v				APRIL 28 A APRIL 28 A		0.0 d	0.0 d	0.0 e	0.0 c	6.5 a	7.0 a
7	DPX-T6376 DPX-F6025 X-77	60 L	DF	0.104 oz/a 0.64 oz/a 0.25 % v/v				APRIL 28 A APRIL 28 A APRIL 28 A		0.0 d	0.0 d	0.0 e	0.0 c	6.5 a	7.0 a
8	DPX-F5384 DPX-T6376 X-77	60 L	DF	1.33 oz/a 0.104 oz/a 0.25 % v/v				APRIL 28 A APRIL 28 A APRIL 28 A		0.0 d	0.0 d	0.0 e	0.0 c	6.5 a	6.8 a
9	MONUMENT X-77	75 L	WG	0.56 oz/a 0.25 % v/v				APRIL 28 A APRIL 28 A		95.0 a	93.8 a	88.8 a	81.3 a	6.5 a	6.9 a
10	MONUMENT X-77 MONUMENT X-77	75 L	WG	0.33 oz/a 0.25 % v/v 0.33 oz/a 0.25 % v/v				APRIL 28 A APRIL 28 A JUNE 8 C JUNE 8 C		92.5 a	97.5 a	95.0 a	81.3 a	6.5 a	7.0 a
11	MANAGE X-77	75 L	WG	1.33 oz/a 0.25 % v/v				APRIL 28 A APRIL 28 A		33.8 c	30.0 c	22.5 c	0.0 c	6.5 a	7.0 a
12	MANAGE X-77 MANAGE X-77	75 L	WG	1.33 oz/a 0.25 % v/v 1.33 oz/a 0.25 % v/v				APRIL 28 A APRIL 28 A JUNE 8 C JUNE 8 C		63.8 b	56.3 b	56.3 b	0.0 c	6.5 a	7.1 a
13	MSMA X-77 MSMA X-77	6.6 L		2 lb ai/a 0.25 % v/v 2 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A MAY 12 B MAY 12 B		0.0 d	0.0 d	0.0 e	0.0 c	6.5 a	7.0 a
14	NONTREATED									0.0 d	0.0 d	0.0 e	0.0 c	6.5 a	7.0 a
LSD (P=.05)										9.24	11.28	8.05	4.42	0.00	0.41
Standard Deviation										6.46	7.90	5.63	3.10	0.00	0.29
CV										27.84	34.14	27.54	24.42	0.0	4.27
Grand Mean										23.21	23.13	20.45	12.68	6.5	6.7
Bartlett's X2										7.777	12.029	11.187	5.047	0.0	7.886
P(Bartlett's X2)										0.051	0.017*	0.025*	0.08	.	0.163
Friedman's X2										38.093	38.0	36.093	23.443	0.0	22.279
P(Friedman's X2)										0.001	0.001	0.001	0.037	1.00	0.051
Replicate F										1.795	0.866	0.803	0.807	0.000	1.208
Replicate Prob(F)										0.1645	0.4669	0.5003	0.4978	1.0000	0.3199
Treatment F										124.029	83.955	145.759	358.765	0.000	21.930
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

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Trial ID: 04-D09
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Pest Code					TURF	TURF	TURF	TURF	TURF	TURF	TURF	
Crop Code					5-20-04	5-26-04	6-3-04	6-8-04	6-21-04	7-7-04	7-21-04	
Rating Date					QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	
Rating Data Type					1-9	1-9	1-9	1-9	1-9	1-9	1-9	
Rating Unit					8	14	22	0	13	29	43	
Days After Last Applic.					22 DA-A	28 DA-A	36 DA-A	41 DA-A	54 DA-A	70 DA-A	84 DA-A	
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate	Growth Stage	Appl Code				
1	DPX-F5384 X-77	60 DF	L	1.67 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		7.0 a	7.0 a	7.0 a	7.0 a
2	DPX-F6025 X-77	25 WDG	L	1 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		7.0 a	7.0 a	7.0 a	6.9 a
3	DPX-T5648 X-77	75 WDG	L	1 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		1.9 c	4.5 c	6.6 b	6.1 b
4	DPX-747 DPX-M6316 X-77	75 WDG 75 DF	L	0.75 oz/a 0.375 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A		4.4 b	5.1 bc	6.9 a	6.9 a
5	DPX-747 X-77	75 WDG	L	0.75 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		5.6 ab	6.1 ab	6.9 a	6.9 a
6	DPX-KU253 X-77	42 WDG	L	0.5 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		7.0 a	7.0 a	7.0 a	7.0 a
7	DPX-T6376 DPX-F6025 X-77	60 DF 25 WDG	L	0.104 oz/a 0.64 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A		7.0 a	7.0 a	7.0 a	6.8 a
8	DPX-F5384 DPX-T6376 X-77	60 DF 60 DF	L	1.33 oz/a 0.104 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A		7.0 a	7.0 a	7.0 a	7.0 a
9	MONUMENT X-77	75 WG	L	0.56 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		6.9 a	6.8 a	7.0 a	6.8 a
10	MONUMENT X-77 MONUMENT X-77	75 WG 75 WG	L L	0.33 oz/a 0.25 % v/v 0.33 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A JUNE 8 C JUNE 8 C		7.0 a	6.9 a	7.0 a	6.8 a
11	MANAGE X-77	75 WG	L	1.33 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A		7.0 a	6.8 a	7.0 a	6.9 a
12	MANAGE X-77 MANAGE X-77	75 WG 75 WG	L L	1.33 oz/a 0.25 % v/v 1.33 oz/a 0.25 % v/v			APRIL 28 A APRIL 28 A JUNE 8 C JUNE 8 C		7.0 a	6.7 a	7.0 a	7.0 a
13	MSMA X-77 MSMA X-77	6.6 L 6.6 L	L L	2 lb ai/a 0.25 % v/v 2 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A MAY 12 B MAY 12 B		7.0 a	7.0 a	7.0 a	7.0 a
14	NONTREATED								7.0 a	7.0 a	7.0 a	7.0 a
LSD (P=.05)					1.47	1.09	0.18	0.37	0.16	0.00	0.00	0.00
Standard Deviation					1.03	0.76	0.13	0.26	0.12	0.00	0.00	0.00
CV					16.2	11.6	1.82	3.74	1.65	0.0	0.0	0.0
Grand Mean					6.34	6.56	6.95	6.85	6.96	7.0	7.0	7.0
Bartlett's X2					20.107	32.45	0.216	4.906	0.083	0.0	0.0	0.0
P(Bartlett's X2)					0.001*	0.001*	0.898	0.671	0.959	.	.	.
Friedman's X2					14.421	22.079	6.657	12.171	3.4	0.0	0.0	0.0
P(Friedman's X2)					0.345	0.054	0.919	0.514	0.996	1.00	1.00	1.00
Replicate F					1.789	2.929	1.376	6.050	2.690	0.000	0.000	0.000
Replicate Prob(F)					0.1658	0.0459	0.2647	0.0018	0.0595	1.0000	1.0000	1.0000
Treatment F					8.444	4.399	3.644	3.247	1.759	0.000	0.000	0.000
Treatment Prob(F)					0.0001	0.0002	0.0009	0.0023	0.0866	1.0000	1.0000	1.0000

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
	Pest Code									TURF
	Crop Code									9-29-04
	Rating Date									QUALITY
	Rating Data Type									1-9
	Rating Unit									113
	Days After Last Applic.									154 DA-A
	Trt-Eval Interval									
1	DPX-F5384 X-77	60 DF	L	1.67 oz/a				APRIL 28 A		7.0 a
2	DPX-F6025 X-77	25 WDG	L	1 oz/a				APRIL 28 A		7.0 a
3	DPX-T5648 X-77	75 WDG	L	1 oz/a				APRIL 28 A		7.0 a
4	DPX-747 DPX-M6316 X-77	75 WDG 75 DF	L	0.75 oz/a 0.375 oz/a				APRIL 28 A APRIL 28 A		7.0 a
5	DPX-747 X-77	75 WDG	L	0.75 oz/a				APRIL 28 A		7.0 a
6	DPX-KU253 X-77	42 WDG	L	0.5 oz/a				APRIL 28 A		7.0 a
7	DPX-T6376 DPX-F6025 X-77	60 DF 25 WDG	L	0.104 oz/a 0.64 oz/a				APRIL 28 A APRIL 28 A		7.0 a
8	DPX-F5384 DPX-T6376 X-77	60 DF 60 DF	L	1.33 oz/a 0.104 oz/a				APRIL 28 A APRIL 28 A		7.0 a
9	MONUMENT X-77	75 WG	L	0.56 oz/a				APRIL 28 A		7.0 a
10	MONUMENT X-77 MONUMENT X-77	75 WG 75 WG	L	0.33 oz/a 0.33 oz/a				APRIL 28 A APRIL 28 A JUNE 8 C JUNE 8 C		7.0 a
11	MANAGE X-77	75 WG	L	1.33 oz/a				APRIL 28 A		7.0 a
12	MANAGE X-77 MANAGE X-77	75 WG 75 WG	L	1.33 oz/a 0.25 % v/v 1.33 oz/a 0.25 % v/v				APRIL 28 A APRIL 28 A JUNE 8 C JUNE 8 C		7.0 a
13	MSMA X-77 MSMA X-77	6.6 L 6.6 L	L	2 lb ai/a 0.25 % v/v 2 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A MAY 12 B MAY 12 B		7.0 a
14	NONTREATED									7.0 a
	LSD (P=.05)									0.00
	Standard Deviation									0.00
	CV									0.0
	Grand Mean									7.0
	Bartlett's X2									0.0
	P(Bartlett's X2)									.
	Friedman's X2									0.0
	P(Friedman's X2)									1.00
	Replicate F									0.000
	Replicate Prob(F)									1.0000
	Treatment F									0.000
	Treatment Prob(F)									1.0000

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

North Carolina State University

**SULFONYLUREA HERBICIDES FOR POST EMERGENT CONTROL OF PURPLE NUTSEDGE IN A
BERMUDAGRASS FAIRWAY**

Trial ID: 04-D09
Location: PLYMOUTH CC

Study Director: TRAVIS GANNON
Investigator: Fred Yelverton

Trial Comments

5-3-04 - Trial evaluated for purple nutsedge control and turf quality. Currently under rain so not able to apply sequential application of MSMA, will delay application one week. Slight bermudagrass yellowing present in select plots.

6-21-04 - Entire trial area was treated with Illoxan (1 oz/M) + NIS (0.25% v/v) due to heavy goosegrass infestation.

7-7-04 - Entire trial area was treated with Illoxan (1 oz/M) + NIS (0.25% v/v) due to heavy goosegrass infestation.