

North Carolina State University

QUICKSILVER FOR PURPLE NUTSEDGE CONTROL IN A BERMUDAGRASS FAIRWAY

Trial ID: 04-D33
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
Application Date:	4-28-04	6-8-04
Time of Day:	9-12 NOON	9-10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	APRIL 28	JUNE 8
Application Placement:	FOLIAR	FOLIAR
Applied By:	T GANNON	T GANNON
Air Temperature, Unit:	60.9 F	76.6 F
% Relative Humidity:	48	97
Wind Velocity, Unit:	1.9 MPH	1.2 MPH
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	64 F	72 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	5	95

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	CYNDA BGRM	CYNDA BGRM
Stage Scale Used:	MOWED	MOWED
Height, Unit:	0.5 IN	0.5 IN
Height Minimum, Maximum:	0.5 0.5	0.5 0.5

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	CYPRO W	CYPRO W
Stage Majority, Percent:	4 LEAF 80	5 LEAF 80
Stage Minimum, Percent:	3 LEAF 10	5 LEAF 80
Stage Maximum, Percent:	4 LEAF 80	6 LEAF 10
Height, Unit:	0.5 IN	0.5 IN
Height Minimum, Maximum:	0.5 0.5	0.5 0.5
Density, Unit:	3 FT2	4 FT2
Coverage, Unit:	35 %	40 %

Application Equipment

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

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Pest Code		CYPRO	CYPRO	CYPRO	CYPRO	CYPRO	CYPRO		
Crop Code									
Rating Date		5-3-04	5-12-04	5-20-04	5-26-04	6-3-04	6-8-04		
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit		%	%	%	%	%	%		
Days After Last Applic.		5	14	22	28	36	0		
Trt-Eval Interval		5 DA-A	14 DA-A	22 DA-A	28 DA-A	36 DA-A	41 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	
1	QUICKSILVER X-77	1.9 L	L	0.019 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A	0.0 e	
2	QUICKSILVER MANAGE X-77	1.9 L	L	0.019 lb ai/a 0.031 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A	55.0 a	
3	QUICKSILVER MANAGE X-77	1.9 L	L	0.019 lb ai/a 0.062 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A	35.0 abc	
4	QUICKSILVER MANOR X-77	1.9 L	L	0.019 lb ai/a 0.019 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A	30.0 bcd	
5	QUICKSILVER MONUMENT X-77	1.9 L	L	0.019 lb ai/a 0.015 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A	47.5 ab	
6	QUICKSILVER REVOLVER	1.9 L	0.19 SC	0.019 lb ai/a 17.7 oz/a			APRIL 28 A APRIL 28 A	52.5 a	
7	QUICKSILVER IMAGE X-77	1.9 L	L	0.019 lb ai/a 0.44 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A	45.0 ab	
8	MANAGE X-77	75 WG	L	0.031 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A	13.8 de	
9	MANAGE X-77 MANAGE X-77	75 WG	L	0.031 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A JUNE 8 B JUNE 8 B	12.5 de	
10	MANOR X-77	60 WG	L	0.019 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A	20.0 cde	
11	MONUMENT X-77	75 WG	L	0.015 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A	16.3 cde	
12	MONUMENT X-77 MONUMENT X-77	75 WG	L	0.015 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A JUNE 8 B JUNE 8 B	12.5 de	
13	IMAGE X-77	70 WG	L	0.44 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A	15.0 cde	
14	REVOLVER	0.19 SC		17.7 oz/a			APRIL 28 A	12.5 de	
15	NONTREATED							0.0 e	
LSD (P=.05)				20.26	16.60	21.74	12.33	14.14	15.26
Standard Deviation				14.18	11.61	15.22	8.63	9.90	10.68
CV				57.87	20.65	27.88	17.2	21.13	20.94
Grand Mean				24.5	56.25	54.58	50.17	46.83	51.0
Bartlett's X2				23.189	19.497	36.743	22.669	25.019	22.476
P(Bartlett's X2)				0.026*	0.053	0.001*	0.012*	0.003*	0.021*
Friedman's X2				37.725	44.4	44.113	47.606	48.188	48.938
P(Friedman's X2)				0.001	0.001	0.001	0.001	0.001	0.001
Replicate F				5.087	1.585	0.136	2.068	3.567	1.530
Replicate Prob(F)				0.0043	0.2073	0.9379	0.1190	0.0219	0.2208
Treatment F				6.723	28.160	20.731	79.957	64.268	46.622
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)
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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	14										
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	Other Rate	Other Rate	Growth Stage	Appl Code								
1	QUICKSILVER X-77	1.9 L	L	0.019 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		0.0 f	0.0 c	0.0 e	0.0 e	6.5 a	7.0 a		
2	QUICKSILVER MANAGE X-77	1.9 L	L	0.019 lb ai/a 0.031 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A		27.5 cde	31.3 b	21.3 c	0.0 e	6.5 a	7.0 a		
3	QUICKSILVER MANAGE X-77	1.9 L	L	0.019 lb ai/a 0.062 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A		22.5 def	37.5 b	15.0 cd	0.0 e	6.5 a	7.0 a		
4	QUICKSILVER MANOR X-77	1.9 L	L	0.019 lb ai/a 0.019 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A		0.0 f	0.0 c	5.0 de	0.0 e	6.5 a	7.0 a		
5	QUICKSILVER MONUMENT X-77	1.9 L	L	0.019 lb ai/a 0.015 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A		88.8 a	80.0 a	78.8 b	33.8 d	6.5 a	7.0 a		
6	QUICKSILVER REVOLVER	1.9 L	0.19 SC	0.019 lb ai/a 17.7 oz/a			APRIL 28 A APRIL 28 A		8.8 ef	12.5 c	13.8 cde	0.0 e	6.5 a	7.0 a		
7	QUICKSILVER IMAGE X-77	1.9 L	L	0.019 lb ai/a 0.44 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A		47.5 bc	12.5 c	5.0 de	0.0 e	5.5 b	5.5 b		
8	MANAGE X-77	75 WG	L	0.031 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		78.8 a	78.8 a	81.3 ab	68.8 bc	6.5 a	7.0 a		
9	MANAGE X-77 MANAGE X-77	75 WG	L	0.031 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		83.8 a	85.0 a	82.5 ab	62.5 c	6.5 a	7.0 a		
10	MANOR X-77	60 WG	L	0.019 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		43.8 cd	8.8 c	18.8 cd	5.0 e	6.5 a	7.0 a		
11	MONUMENT X-77	75 WG	L	0.015 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		88.8 a	91.3 a	83.8 ab	77.5 ab	6.5 a	7.0 a		
12	MONUMENT X-77 MONUMENT X-77	75 WG	L	0.015 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		91.3 a	88.8 a	93.3 a	85.0 a	6.5 a	7.0 a		
13	IMAGE X-77	70 WG	L	0.44 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		68.8 ab	30.0 b	11.3 cde	0.0 e	6.5 a	5.8 b		
14	REVOLVER	0.19 SC		17.7 oz/a			APRIL 28 A		6.3 ef	0.0 c	0.0 e	0.0 e	6.4 a	7.0 a		
15	NONTREATED								0.0 f	0.0 c	0.0 e	0.0 e	6.5 a	7.0 a		
LSD (P=.05)									24.44	13.51	14.40	9.69	0.27	0.38		
Standard Deviation									17.10	9.45	10.08	6.78	0.19	0.26		
CV									39.09	25.49	29.68	30.6	2.98	3.85		
Grand Mean									43.75	37.08	33.97	22.17	6.43	6.82		
Bartlett's X2									32.005	8.16	20.215	8.131	2.756	1.936		
P(Bartlett's X2)									0.001*	0.518	0.042*	0.087	0.097	0.164		
Friedman's X2									42.994	48.85	42.75	39.269	6.475	15.281		
P(Friedman's X2)									0.001	0.001	0.001	0.001	0.953	0.359		
Replicate F									1.096	0.614	0.937	1.123	1.324	1.690		
Replicate Prob(F)									0.3615	0.6099	0.4315	0.3507	0.2792	0.1838		
Treatment F									18.426	60.969	54.571	97.228	7.249	13.690		
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001	0.0001		

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Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Days After Last Applic.	Trt-Eval Interval	TURF 5-20-04	TURF 5-26-04	TURF 6-3-04	TURF 6-8-04	TURF 6-21-04	TURF 7-7-04	TURF 7-21-04
							QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY
							1-9	1-9	1-9	1-9	1-9	1-9	1-9
							22	28	36	0	13	29	43
							22 DA-A	28 DA-A	36 DA-A	41 DA-A	54 DA-A	70 DA-A	84 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Unit	Growth Stage	Appl Code					
1	QUICKSILVER X-77	1.9 L	L	0.019 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
2	QUICKSILVER MANAGE X-77	1.9 L	L	0.019 lb ai/a 0.031 lb ai/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	7.0 a
3	QUICKSILVER MANAGE X-77	1.9 L	L	0.019 lb ai/a 0.062 lb ai/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	7.0 a
4	QUICKSILVER MANOR X-77	1.9 L	L	0.019 lb ai/a 0.019 lb ai/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	7.0 a
5	QUICKSILVER MONUMENT X-77	1.9 L	L	0.019 lb ai/a 0.015 lb ai/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	7.0 a
6	QUICKSILVER REVOLVER	1.9 L	0.19 SC	0.019 lb ai/a 17.7 oz/a			APRIL 28 A APRIL 28 A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
7	QUICKSILVER IMAGE X-77	1.9 L	L	0.019 lb ai/a 0.44 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A APRIL 28 A		5.9 b	6.6 b	6.8 a	6.6 a	7.0 a
8	MANAGE X-77	75 WG	L	0.031 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
9	MANAGE X-77 MANAGE X-77	75 WG	L	0.031 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
	MANAGE X-77	75 WG	L	0.031 lb ai/a 0.25 % v/v			JUNE 8 B JUNE 8 B						
10	MANOR X-77	60 WG	L	0.019 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
11	MONUMENT X-77	75 WG	L	0.015 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
12	MONUMENT X-77 MONUMENT X-77	75 WG	L	0.015 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
	MONUMENT X-77	75 WG	L	0.015 lb ai/a 0.25 % v/v			JUNE 8 B JUNE 8 B						
13	IMAGE X-77	70 WG	L	0.44 lb ai/a 0.25 % v/v			APRIL 28 A APRIL 28 A		6.0 b	6.6 b	7.0 a	6.8 a	7.0 a
14	REVOLVER	0.19 SC		17.7 oz/a			APRIL 28 A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
15	NONTREATED								7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
LSD (P=.05)								0.24	0.23	0.14	0.30	0.00	0.00
Standard Deviation								0.17	0.16	0.10	0.21	0.00	0.00
CV								2.44	2.32	1.39	3.02	0.0	0.0
Grand Mean								6.86	6.95	6.99	6.96	7.0	7.0
Bartlett's X2								0.075	0.628	0.0	2.372	0.0	0.0
P(Bartlett's X2)								0.784	0.428	.	0.124	.	.
Friedman's X2								19.506	7.881	0.656	3.094	0.0	0.0
P(Friedman's X2)								0.146	0.895	1.00	0.999	1.00	1.00
Replicate F								0.149	0.254	1.000	0.596	0.000	0.000
Replicate Prob(F)								0.9298	0.8578	0.4023	0.6209	1.0000	1.0000
Treatment F								20.064	3.172	1.000	1.143	0.000	0.000
Treatment Prob(F)								0.0001	0.0019	0.4708	0.3517	1.0000	1.0000

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit	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	QUICKSILVER X-77	1.9 L	L	0.019 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A	7.0 a
2	QUICKSILVER MANAGE X-77	1.9 L	L	0.019 lb ai/a 0.031 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A APRIL 28 A	7.0 a
3	QUICKSILVER MANAGE X-77	1.9 L	L	0.019 lb ai/a 0.062 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A APRIL 28 A	7.0 a
4	QUICKSILVER MANOR X-77	1.9 L	L	0.019 lb ai/a 0.019 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A APRIL 28 A	7.0 a
5	QUICKSILVER MONUMENT X-77	1.9 L	L	0.019 lb ai/a 0.015 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A APRIL 28 A	7.0 a
6	QUICKSILVER REVOLVER	1.9 L	0.19 SC	0.019 lb ai/a 17.7 oz/a				APRIL 28 A APRIL 28 A	7.0 a
7	QUICKSILVER IMAGE X-77	1.9 L	L	0.019 lb ai/a 0.44 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A APRIL 28 A	7.0 a
8	MANAGE X-77	75 WG	L	0.031 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A	7.0 a
9	MANAGE X-77 MANAGE X-77	75 WG	L	0.031 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A JUNE 8 B JUNE 8 B	7.0 a
10	MANOR X-77	60 WG	L	0.019 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A	7.0 a
11	MONUMENT X-77	75 WG	L	0.015 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A	7.0 a
12	MONUMENT X-77 MONUMENT X-77	75 WG	L	0.015 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A JUNE 8 B JUNE 8 B	7.0 a
13	IMAGE X-77	70 WG	L	0.44 lb ai/a 0.25 % v/v				APRIL 28 A APRIL 28 A	7.0 a
14	REVOLVER	0.19 SC		17.7 oz/a				APRIL 28 A	7.0 a
15	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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Trial Comments

5-3-04 - Trial evaluated for purple nutsedge control and turf quality. 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.