

University of GA Coop Ext Service

Efficacy of Flazasulfuron as a Transition Aid for Bermudagrass Overseeded with Perennial Ryegrass

Trial ID: Turf19-03

Study Dir.: Bill Nutt

Location: UNIV. OF GEORGIA

Investigator: Tim R Murphy

GENERAL TRIAL INFORMATION

Study Director: Bill Nutt

Title: ARC I

Affiliation: UGA-CAES

Investigator: Tim R Murphy

Title: Weed Scientist

Affiliation: UGA-CAES

TRIAL LOCATION

City: Griffin

Trial Status: ONE-YEAR/FINAL

State/Prov.: GA

Initiation Date: 4-16-2003

Planned Completion Date: 8-15-2003

COOPERATOR/LANDOWNER

Cooperator: Mel Grove

Org: ISK BioSciences

City: Houston

State/Prov: TX

Postal Code: 77015

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Objective: Evaluate several rates of flazasulfuron 25DG to determine the lowest effective rate for removal of overseeded cool-season grasses from established bermudagrass turf.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	DIGIS	Crabgrass, smooth	<i>Digitaria ischaemum</i>
2.	POAAN	Bluegrass, annual	<i>Poa annua</i>

Crop 1: CYNDA Bermudagrass/*Cynodon dactylon* Variety: Tifway Perennial Age: 20 YRS

Crop 2: LOLPE Ryegrass, Perennial

Variety: Sunrise Primo Blend* 39.27% 'Jet', 39.07% 'Sonata', 19.08% 'Wind Star'

Planting Date: 9-30-2002 Planting Method: Broadcast Rate: 8.0 LB/1000FT2

SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 10 FT Reps: 4

Site Type: simulated golf course fairway Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance: Site mowed at 0.625 inch. Irrigated site.

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APPLICATION DESCRIPTION

	A
Application Date:	4-16-2003
Time of Day:	11:00 AM
Application Method:	Broadcast
Application Timing:	Post
Applic. Placement:	Foliar
Air Temp., Unit:	71 F
% Relative Humidity:	65
Wind Velocity, Unit:	4.5 mph
Dew Presence (Y/N):	N
Soil Temp., Unit:	67 F
Soil Moisture:	Good
% Cloud Cover:	30

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CYNDA 50-60%
Height, Unit:	.625 IN
Crop 2 Code, Stage:	LOLPE
Height, Unit:	.625 IN

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	DIGIS

APPLICATION EQUIPMENT

	A
Appl. Equipment:	Backpack
Operating Pressure:	26 psi
Nozzle Type:	flat fan
Nozzle Size:	8004
Nozzle Spacing, Unit:	20 in
Boom Length, Unit:	5 ft
Boom Height, Unit:	18 in
Ground Speed, Unit:	3 mph
Carrier:	water
Spray Volume, Unit:	25 gpa
Propellant:	CO2
Tank Mix (Y/N):	n

WEED DENSITY RATINGS FOR UNTREATED CONTROL CHECK

	<u>101</u>	<u>203</u>	<u>309</u>	<u>406</u>
POAAN,4-21-03	25	30	20	15
DIGIS,5-20-03	15	15	10	10
DIGIS,6-18-03	15	25	15	10

University of GA Coop Ext Service

**Efficacy of Flazasulfuron as a Transition Aid for Bermudagrass Overseeded
with Perennial Ryegrass**

Trial ID: Turf19-03

Study Dir. : Bill Nutt

Location: UNIV. OF GEORGIA

Investigator: Tim R Murphy

Weed Code								CYNDA	CYNDA	CYNDA
Crop Code								Injury	Injury	Injury
Rating Data Type								0-100	0-100	0-100
Rating Unit								4-21-2003	4-28-2003	5-12-2003
Rating Date								5 DA-A	12 DA-A	26 DA-A
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	Untreated							0 a	0 a	0 a
2	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	0.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	0 a
3	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	0 a
4	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	0 a
5	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	0 a
6	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	0 a
7	Revolver	0.19	SC	8.8 fl oz/a		75% grup	A	0 a	0 a	0 a
8	Manor Chem-Nut 80/20 NIS	60	DG	0.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	0 a
9	Monument Chem-Nut 80/20 NIS	75	DG	0.1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	0 a
LSD (P=.05)								0.0	0.0	0.0
Standard Deviation								0.0	0.0	0.0
CV								0.0	0.0	0.0

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code								CYND	CYND	CYND	CYND
Crop Code								Injury	Injury	Density	Density
Rating Data Type								0-100	0-100	0-100	0-100
Rating Unit								5-20-2003	6-9-2003	5-12-2003	5-20-2003
Rating Date								34 DA-A	54 DA-A	26 DA-A	34 DA-A
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	Untreated							0 a	0 a	60 b	34 c
2	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	0.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	76 a	78 a
3	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	73 ab	81 a
4	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	78 a	80 a
5	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	71 ab	81 a
6	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	74 a	80 a
7	Revolver	0.19	SC	8.8 fl oz/a		75% grup	A	0 a	0 a	69 ab	59 b
8	Manor Chem-Nut 80/20 NIS	60	DG	0.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	69 ab	53 b
9	Monument Chem-Nut 80/20 NIS	75	DG	0.1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 a	0 a	75 a	54 b
LSD (P=.05)								0.0	0.0	11.5	8.3
Standard Deviation								0.0	0.0	7.9	5.7
CV								0.0	0.0	11.02	8.51

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code								CYNDA	CYNDA	CYNDA	CYNDA	
Crop Code								Density	Density	Density	Density	
Rating Data Type								0-100	0-100	0-100	0-100	
Rating Unit								5-27-2003	6-9-2003	6-18-2003	7-3-2003	
Rating Date								41 DA-A	54 DA-A	63 DA-A	78 DA-A	
Trt-Eval Interval												
Trt	Treatment	Form	Form	Product	Product	Grow	Appl					
No.	Name	Conc	Type	Rate	Rate	Unit	Stg	Code				
1	Untreated								43 c	61 b	69 c	70 c
2	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	0.5 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			79 a	91 a	93 a	83 ab
3	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			83 a	89 a	95 a	85 a
4	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			80 a	89 a	94 a	90 a
5	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			81 a	89 a	95 a	92 a
6	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			81 a	89 a	97 a	90 a
7	Revolver	0.19	SC	8.8 fl oz/a	75% grup	A			66 b	66 b	75 bc	74 bc
8	Manor Chem-Nut 80/20 NIS	60	DG	0.25 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			63 b	65 b	70 c	70 c
9	Monument Chem-Nut 80/20 NIS	75	DG	0.1 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			63 b	71 b	80 b	85 a
LSD (P=.05)								8.8	9.8	7.7	9.7	
Standard Deviation								6.0	6.7	5.3	6.7	
CV								8.54	8.52	6.18	8.13	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code								Turf	Turf	Turf
Crop Code								Quality	Quality	Quality
Rating Data Type								0-10	0-10	0-10
Rating Unit								4-21-2003	4-28-2003	5-12-2003
Rating Date								5 DA-A	12 DA-A	26 DA-A
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	Untreated							8.8 a	7.5 a	9.0 a
2	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	0.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	7.8 b	7.0 a	6.3 c
3	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	8.0 b	7.0 a	6.5 c
4	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	8.0 b	7.0 a	6.5 c
5	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	7.8 b	7.0 a	6.5 c
6	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	8.0 b	7.0 a	6.3 c
7	Revolver	0.19	SC	8.8 fl oz/a		75% grup	A	8.0 b	7.0 a	6.8 c
8	Manor Chem-Nut 80/20 NIS	60	DG	0.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	8.0 b	7.0 a	7.8 b
9	Monument Chem-Nut 80/20 NIS	75	DG	0.1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	7.8 b	7.5 a	7.8 b
LSD (P=.05)								0.65	0.49	0.91
Standard Deviation								0.45	0.33	0.62
CV								5.58	4.69	8.85

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code								Turf	Turf	Turf	Turf	
Crop Code								Quality	Quality	Quality	Quality	
Rating Data Type								0-10	0-10	0-10	0-10	
Rating Unit								5-20-2003	5-27-2003	6-9-2003	6-18-2003	
Rating Date								34 DA-A	41 DA-A	54 DA-A	63 DA-A	
Trt-Eval Interval												
Trt	Treatment	Form	Form	Product	Product	Grow	Appl					
No.	Name	Conc	Type	Rate	Rate	Unit	Stg	Code				
1	Untreated								8.0 a	7.8 a	7.6 a	6.5 bc
2	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	0.5 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			6.6 abc	6.4 b	8.0 a	6.9 b
3	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			7.1 ab	7.1 ab	8.3 a	7.8 ab
4	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			6.6 abc	6.9 ab	8.0 a	8.4 a
5	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			7.1 ab	7.4 a	8.4 a	8.4 a
6	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			6.8 ab	7.0 ab	8.1 a	8.5 a
7	Revolver	0.19	SC	8.8 fl oz/a	75% grup	A			4.8 d	4.4 d	4.5 c	4.8 d
8	Manor Chem-Nut 80/20 NIS	60	DG	0.25 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			5.4 cd	5.5 c	5.5 b	5.5 cd
9	Monument Chem-Nut 80/20 NIS	75	DG	0.1 oz wt/a 0.25 % v/v	75% grup 75% grup	A A			6.3 bc	6.9 ab	5.8 b	6.9 b
LSD (P=.05)								1.21	0.82	0.91	1.20	
Standard Deviation								0.83	0.56	0.62	0.82	
CV								12.71	8.56	8.75	11.66	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code								Turf	LOLPE	LOLPE	LOLPE
Crop Code								Quality	Control	Control	Control
Rating Data Type								0-10	0-100	0-100	0-100
Rating Unit								7-3-2003	4-21-2003	4-28-2003	5-12-2003
Rating Date								78 DA-A	5 DA-A	12 DA-A	26 DA-A
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	Untreated							5.9 bc	0 b	0 b	0 c
2	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	0.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	5.6 c	65 a	75 a	93 a
3	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	6.0 bc	63 a	74 a	98 a
4	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	7.3 a	53 a	73 a	99 a
5	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	7.0 ab	64 a	75 a	100 a
6	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	7.0 ab	61 a	75 a	99 a
7	Revolver	0.19	SC	8.8 fl oz/a		75% grup	A	5.3 c	66 a	74 a	74 b
8	Manor Chem-Nut 80/20 NIS	60	DG	0.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	5.3 c	55 a	75 a	66 b
9	Monument Chem-Nut 80/20 NIS	75	DG	0.1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	6.4 abc	53 a	74 a	70 b
LSD (P=.05)								1.11	15.1	2.7	8.3
Standard Deviation								0.76	10.3	1.8	5.7
CV								12.27	19.4	2.75	7.31

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

University of GA Coop Ext Service

Weed Code								LOLPE	LOLPE	LOLPE	LOLPE
Crop Code								Control	Control	Control	Control
Rating Data Type								0-100	0-100	0-100	0-100
Rating Unit								5-20-2003	5-27-2003	6-9-2003	6-18-2003
Rating Date								34 DA-A	41 DA-A	54 DA-A	63 DA-A
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Unit	Grow Stg	Appl Code				
1	Untreated							0 e	0 d	0 c	0 d
2	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	0.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	94 b	97 a	100 a	99 a
3	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	100 a	100 a	100 a	100 a
4	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	100 a	100 a	100 a	100 a
5	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	100 a	100 a	100 a	100 a
6	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	100 a	100 a	100 a	100 a
7	Revolver	0.19	SC	8.8 fl oz/a		75% grup	A	59 c	60 b	53 b	69 b
8	Manor Chem-Nut 80/20 NIS	60	DG	0.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	46 d	56 bc	48 b	40 c
9	Monument Chem-Nut 80/20 NIS	75	DG	0.1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	45 d	53 c	45 b	74 b
LSD (P=.05)								4.6	4.2	7.9	10.4
Standard Deviation								3.1	2.8	5.4	7.1
CV								4.4	3.85	7.51	9.42

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

University of GA Coop Ext Service

Weed Code								LOLPE	LOLPE	LOLPE	LOLPE
Crop Code								Control	Density	Density	Density
Rating Data Type								0-100	0-100	0-100	0-100
Rating Unit								7-3-2003	5-12-2003	5-20-2003	5-27-2003
Rating Date								78 DA-A	26 DA-A	34 DA-A	41 DA-A
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Unit	Grow Stg	Appl Code				
1	Untreated							0 d	40 a	66 a	58 a
2	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	0.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	100 a	4 c	3 d	2 d
3	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	100 a	2 c	0 d	0 d
4	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	100 a	1 c	0 d	0 d
5	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	100 a	1 c	0 d	0 d
6	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	100 a	1 c	0 d	0 d
7	Revolver	0.19	SC	8.8 fl oz/a		75% grup	A	78 b	21 b	29 c	26 c
8	Manor Chem-Nut 80/20 NIS	60	DG	0.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	56 c	30 b	43 b	34 b
9	Monument Chem-Nut 80/20 NIS	75	DG	0.1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	84 b	24 b	33 c	35 b
LSD (P=.05)								13.2	8.5	9.8	6.8
Standard Deviation								9.0	5.8	6.7	4.7
CV								11.3	42.4	34.76	27.29

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

University of GA Coop Ext Service

Weed Code								LOLPE	LOLPE	LOLPE	POAAN
Crop Code								Density	Density	Density	Control
Rating Data Type								0-100	0-100	0-100	0-100
Rating Unit								6-9-2003	6-18-2003	7-3-2003	4-21-2003
Rating Date								54 DA-A	63 DA-A	78 DA-A	5 DA-A
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Unit	Grow Stg	Appl Code				
1	Untreated							39 a	31 a	14 ab	0 b
2	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	0.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 c	1 d	0 c	69 a
3	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 c	0 d	0 c	63 a
4	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 c	0 d	0 c	65 a
5	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 c	0 d	0 c	68 a
6	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	0 c	0 d	0 c	61 a
7	Revolver	0.19	SC	8.8 fl oz/a		75% grup	A	24 b	16 c	16 ab	58 a
8	Manor Chem-Nut 80/20 NIS	60	DG	0.25 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	29 b	24 b	21 a	58 a
9	Monument Chem-Nut 80/20 NIS	75	DG	0.1 oz wt/a 0.25 % v/v		75% grup 75% grup	A A	26 b	15 c	8 bc	60 a
LSD (P=.05)								7.0	6.3	9.4	12.3
Standard Deviation								4.8	4.3	6.4	8.4
CV								36.67	44.54	98.4	15.17

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

University of GA Coop Ext Service

Weed Code								DIGIS	DIGIS	DIGIS
Crop Code										
Rating Data Type								Control	Control	Control
Rating Unit								0-100	0-100	0-100
Rating Date								6-9-2003	6-18-2003	7-3-2003
Trt-Eval Interval								54 DA-A	63 DA-A	78 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Unit	Grow Stg	Appl Code			
1	Untreated							0 d	0 b	0 b
2	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	0.5 oz wt/a 0.25 % v/v		75% grup A	A	5 d	0 b	0 b
3	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1 oz wt/a 0.25 % v/v		75% grup A	A	28 bcd	23 ab	20 ab
4	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v		75% grup A	A	58 ab	48 a	49 a
5	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v		75% grup A	A	51 abc	38 ab	46 a
6	Flazasulfuron + Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v		75% grup A	A	71 a	45 a	43 a
7	Revolver	0.19	SC	8.8 fl oz/a		75% grup A	A	5 d	0 b	0 b
8	Manor Chem-Nut 80/20 NIS	60	DG	0.25 oz wt/a 0.25 % v/v		75% grup A	A	0 d	0 b	15 ab
9	Monument Chem-Nut 80/20 NIS	75	DG	0.1 oz wt/a 0.25 % v/v		75% grup A	A	24 cd	25 ab	41 a
LSD (P=.05)								30.7	37.0	34.7
Standard Deviation								21.1	25.3	23.8
CV								78.58	128.42	100.11

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)