

University of GA Coop Ext Service

Phytotoxicity of Flazasulfuron Applied At Spring Transition to Bermudagrass.

Trial ID: TURF7-03

Study Dir.: Bill Nutt

Location: Griffin, GA

Investigator: Tim R Murphy

GENERAL TRIAL INFORMATION

Investigator: Tim R Murphy

Title: Weed Scientist

Affiliation: UGA-CAES

Study Director: Bill Nutt

Title: ARC I

Affiliation: UGA-CAES

TRIAL LOCATION

City: Griffin

Trial Status: ONE-YEAR/FINAL

State/Prov.: GA

Initiation Date: 2-11-2003

Planned Completion Date: 7-30-2002

COOPERATOR/LANDOWNER

Cooperator: Mel Grove

Org: ISK BioSciences

City: Houston

State/Prov: TX

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Objective: Evaluate several rates of Flazasulfuron 25DG applied at 3 timings to Tiftway Bermudagrass for safety to the turf grass. Evaluate control of any early season weeds in the turf.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	STEME	Common chickweed	Stellaria media
2.	LAMAM	Henbit	Lamium amplexicaule
3.	APHAR	Parsley-piert	Aphanes microcarpa
4.	VERAR	Corn speedwell	Veronica arvensis
5.	BROSS	Bromegrass	Bromus sp.
6.	MODCA	Mallow, bristly	Modiola caroliniana
7.	GERCA	Geranium, Carolina	Geranium carolinianum
8.	TRFRE	White clover	Trifolium repens
9.	TRFAU	Hop clover	Trifolium aureum

Crop 1: CYNDA BERMUDAGRASS, HYBRID Variety: Tifway Perennial Age: 12 yrs

SITE AND DESIGN

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

Site Type: simulated home lawn

Study Design: SPLIT-PLOT

MAINTENANCE

Field Prep./Maintenance: Site mowed at 2.0 inches.

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APPLICATION DESCRIPTION

	A	B	C
Application Date:	2-11-2003	3-24-2003	5-8-2003
Time of Day:	11:15 am	4:00 pm	2:30 pm
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	Post	Post	Post
Applic. Placement:	Foliar	Foliar	Foliar
Air Temp., Unit:	59 F	74 F	82 F
% Relative Humidity:	60	34	70
Wind Velocity, Unit:	2 mph	0.4 mph	1.4 mph
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	44 F	66 F	75 F
Soil Moisture:	High	Good	High
% Cloud Cover:	0	0	70

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	CYNDA Dormant	CYNDA Green	CYNDA Early
Stage Scale:	100%	40%	100%Green
Height, Unit:		2 inch	2 inch

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	STEME Early Flower	STEME Late Flower	STEME Late Flower
Stage Scale:	6-8"Dia	2.5"-3"Hgt	2"Hgt
Density, Unit:	20 %	20 %	10 %
Weed 2 Code, Stage:	LAMAM Early Flower	LAMAM	LAMAM None
Stage Scale:	4"Hght	2.5"-3"Hgt	
Density, Unit:	20 %	20 %	
Weed 3 Code, Stage:	APHAR	APHAR	APHAR Flowers
Stage Scale:	.5"Hght	1.5"Hght	2"hght
Stage Scale:	1"Dia	2-3"Dia	
Density, Unit:	15 %	15 %	15 %
Weed 4 Code, Stage:	VERAR	VERAR	VERAR Bloom
Stage Scale:	.5"-1.75"Hght	2"Hght	2"Hght
Stage Scale:	3"Dia	3" Dia	
Density, Unit:	15 %	15 %	10 %
Weed 5 Code, Stage:	BROSS Tiller	BROSS	BROSS
Stage Scale:	2"Hght	2-3"Hght	3"Hght
Stage Scale:	2-4" Dia	2-4"Dia	4-6"Dia
Density, Unit:	15 %	15 %	15 %
Weed 6 Code, Stage:	MODCA	MODCA	MODCA Bloom
Stage Scale:			2"Hght
Density, Unit:			15 %
Weed 7 Code, Stage:	GERCA	GERCA	GERCA Bloom
Stage Scale:			2"Hght
Density, Unit:			10 %
Weed 8 Code, Stage:	TRFRE	TRFRE	TRFRE Flower
Stage Scale:			3"Hght
Density, Unit:			30 %

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APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	Backpack	Backpack	Backpack
Operating Pressure:	27 psi	27 psi	27 psi
Nozzle Type:	Flat fan	Flat fan	Flat fan
Nozzle Size:	8004	8004	8004
Nozzle Spacing, Unit:	20 inch	20 inch	20 inch
Boom Length, Unit:	5 feet	5 feet	5 feet
Boom Height, Unit:	19 inch	19 inch	19 inch
Ground Speed, Unit:	3 mph	3 mph	3 mph
Carrier:	Water	Water	Water
Spray Volume, Unit:	25 gpa	25 gpa	25 gpa
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	Y	N	N

Trial Comments

2-18-03; Bermudagrass, CYNDA, 100% dormant. No injury ratings.

2-25-03; Ratings recorded.

4-7-03; Henbit, LAMAM, had died out in untreated checks, so control ratings were not recorded.

WEED DENSITY RATINGS FOR UNTREATED CONTROL PLOTS

	113	206	310	412				
STEME, 2-18-03	3	10	10	10				
LAMAM	10	10	25	10				
APHAR	10	15	10	10				
VERAR	15	5	10	10				
BROZZ	15	.	.	.				
	113	114	205	206	310	311	410	412
STEME, 4-7-03	25	25	25	25	25	25	25	25
APHAR	25	25	20	20	20	20	20	25
VERAR	25	25	25	20	25	25	20	20
MODCA	10	10	10	10	10	10	10	10
GERCA	10	10	10	10	5	5	5	5
STEME, 4-24-03	25	25	10	10	15	15	15	15
APHAR	30	30	25	25	20	20	20	20
VERAR	25	25	25	25	30	30	20	30
MODCA	5	5	10	10	5	5	15	5
GERCA	5	5	15	15	5	5	5	5
BROZZ	15	15	10	10	10	10	20	20

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Phytotoxicity of Flazasulfuron Applied At Spring Transition to Bermudagrass.

								STEME	STEME	STEME	STEME	STEME	
								Control	Control	Control	Control	Control	
								0-100	0-100	0-100	0-100	0-100	
								2-18-2003	2-25-2003	3-11-2003	4-7-2003	4-24-2003	
								7 DA-A	14 DA-A	28 DA-A	55 DA-A	72 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Product Unit	Product Rate	Product Unit	Appl Code					
1	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	1.5 0.25	oz wt/a % v/v	1.5	oz wt/a	A	18 b	45 b	100 a	100 a	100 a
2	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	1.5 0.25	oz wt/a % v/v	1.5	oz wt/a	B				98 ab	100 a
3	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	1.5 0.25	oz wt/a % v/v	1.5	oz wt/a	C					
4	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	2.25 0.25	oz wt/a % v/v	2.25	oz wt/a	A	24 a	50 ab	100 a	100 a	100 a
5	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	2.25 0.25	oz wt/a % v/v	2.25	oz wt/a	B				95 ab	100 a
6	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	2.25 0.25	oz wt/a % v/v	2.25	oz wt/a	C					
7	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	3.0 0.25	oz wt/a % v/v	3	oz wt/a	A	21 ab	53 ab	100 a	100 a	100 a
8	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	3.0 0.25	oz wt/a % v/v	3	oz wt/a	B				93 b	100 a
9	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	3.0 0.25	oz wt/a % v/v	3	oz wt/a	C					
10	Manor Chem-Nut 80/20 NIS Prior to Greenup	60	WG	0.5 0.25	oz wt/a % v/v			A	20 ab	55 a	100 a	100 a	98 a
11	Manor Chem-Nut 80/20 NIS 50% Greenup	60	WG	0.5 0.25	oz wt/a % v/v			B				93 b	98 a
12	Manor Chem-Nut 80/20 NIS Early 100% greenup	60	WG	0.5 0.25	oz wt/a % v/v			C					
13	Untreated Prior to Greenup							A	0 c	0 c	0 b	0 c	0 b
14	Untreated 50% Greenup							B				0 c	0 b
15	Untreated Early 100% greenup							C					
LSD (P=.05)								5.2	8.2	0.0	6.4	3.3	
Standard Deviation								3.4	5.3	0.0	4.4	2.3	
CV								20.52	13.14	0.0	5.63	2.86	

								STEME	LAMAM	LAMAM	LAMAM	APHAR	
								Control	Control	Control	Control	Control	
								0-100	0-100	0-100	0-100	0-100	
								5-20-2003	2-18-2003	2-25-2003	3-11-2003	2-18-2003	
								98 DA-A	7 DA-A	14 DA-A	28 DA-A	7 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Appl Code					
1	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	1.5	oz wt/a	1.5	oz wt/a	A	100 a	15 a	40 a	100 a	10 c
				0.25	% v/v								
2	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	1.5	oz wt/a	1.5	oz wt/a	B	100 a				
				0.25	% v/v								
3	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	1.5	oz wt/a	1.5	oz wt/a	C	100 a				
				0.25	% v/v								
4	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	2.25	oz wt/a	2.25	oz wt/a	A	100 a	18 a	46 a	93 ab	15 b
				0.25	% v/v								
5	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	2.25	oz wt/a	2.25	oz wt/a	B	100 a				
				0.25	% v/v								
6	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	2.25	oz wt/a	2.25	oz wt/a	C	100 a				
				0.25	% v/v								
7	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	3.0	oz wt/a	3	oz wt/a	A	100 a	20 a	48 a	92 b	20 a
				0.25	% v/v								
8	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	3.0	oz wt/a	3	oz wt/a	B	100 a				
				0.25	% v/v								
9	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	3.0	oz wt/a	3	oz wt/a	C	100 a				
				0.25	% v/v								
10	Manor Chem-Nut 80/20 NIS Prior to Greenup	60	WG	0.5	oz wt/a			A	100 a	18 a	41 a	98 ab	16 ^a _b
				0.25	% v/v								
11	Manor Chem-Nut 80/20 NIS 50% Greenup	60	WG	0.5	oz wt/a			B	100 a				
				0.25	% v/v								
12	Manor Chem-Nut 80/20 NIS Early 100% greenup	60	WG	0.5	oz wt/a			C	100 a				
				0.25	% v/v								
13	Untreated Prior to Greenup							A	0 b	0 b	0 b	0 c	0 d
14	Untreated 50% Greenup							B	0 b				
15	Untreated Early 100% greenup							C	0 b				
LSD (P=.05)								0.0	5.5	9.7	7.3	4.6	
Standard Deviation								0.0	3.5	6.2	4.7	3.0	
CV								0.0	25.18	17.77	6.16	24.15	

Weed Code								APHAR Control	APHAR Control	APHAR Control	APHAR Control	VERAR Control
Rating Data Type								0-100	0-100	0-100	0-100	0-100
Rating Unit								2-25-2003	3-11-2003	4-7-2003	4-24-2003	2-18-2003
Rating Date								14 DA-A	28 DA-A	55 DA-A	72 DA-A	7 DA-A
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Appl Code				
1	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	1.5	oz wt/a 0.25 % v/v	1.5	oz wt/a	A	20 b	28 b	100 a	100 a 10 b
2	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	1.5	oz wt/a 0.25 % v/v	1.5	oz wt/a	B			49 c	100 a
3	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	1.5	oz wt/a 0.25 % v/v	1.5	oz wt/a	C				
4	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	2.25	oz wt/a 0.25 % v/v	2.25	oz wt/a	A	23 ab	48 ab	100 a	100 a 11 b
5	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	2.25	oz wt/a 0.25 % v/v	2.25	oz wt/a	B			55 b	99 a
6	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	2.25	oz wt/a 0.25 % v/v	2.25	oz wt/a	C				
7	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	3.0	oz wt/a 0.25 % v/v	3	oz wt/a	A	25 a	54 a	100 a	100 a 18 a
8	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	3.0	oz wt/a 0.25 % v/v	3	oz wt/a	B			55 b	98 a
9	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	3.0	oz wt/a 0.25 % v/v	3	oz wt/a	C				
10	Manor Chem-Nut 80/20 NIS Prior to Greenup	60	WG	0.5	oz wt/a 0.25 % v/v			A	24 ab	53 ab	100 a	100 a 16 a
11	Manor Chem-Nut 80/20 NIS 50% Greenup	60	WG	0.5	oz wt/a 0.25 % v/v			B			54 bc	100 a
12	Manor Chem-Nut 80/20 NIS Early 100% greenup	60	WG	0.5	oz wt/a 0.25 % v/v			C				
13	Untreated Prior to Greenup							A	0 c	0 c	0 d	0 b 0 c
14	Untreated 50% Greenup							B			0 d	0 b
15	Untreated Early 100% greenup							C				
LSD (P=.05)									4.4	24.4	5.5	1.6 4.3
Standard Deviation									2.9	15.8	3.8	1.1 2.8
CV									15.82	43.69	6.24	1.38 25.24

Weed Code	MODCA Control	MODCA Control	MODCA Control	MODCA Control	BROZZ Control													
Rating Data Type	0-100	0-100	0-100	0-100	0-100													
Rating Unit	4-7-2003	4-24-2003	4-24-2003	6-17-2003	4-7-2003													
Rating Date	55 DA-A	72 DA-A	72 DA-A	126 DA-A	55 DA-A													
Trt-Eval Interval																		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Product Unit	Product Rate	Product Unit	Appl Code										
1	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	1.5 0.25	oz wt/a % v/v	1.5	oz wt/a	A	84	b	43	c	36	d	33	d	5	abc
2	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	1.5 0.25	oz wt/a % v/v	1.5	oz wt/a	B	50	c	89	ab	85	ab	84	ab	13	ab
3	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	1.5 0.25	oz wt/a % v/v	1.5	oz wt/a	C					53	bcd	100	a		
4	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	2.25 0.25	oz wt/a % v/v	2.25	oz wt/a	A	100	a	70	b	45	cd	73	bc	10	ab c
5	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	2.25 0.25	oz wt/a % v/v	2.25	oz wt/a	B	49	c	90	ab	76	abc	84	ab	15	a
6	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	2.25 0.25	oz wt/a % v/v	2.25	oz wt/a	C					50	bcd	100	a		
7	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	3.0 0.25	oz wt/a % v/v	3	oz wt/a	A	100	a	83	ab	53	bcd	56	c	8	ab c
8	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	3.0 0.25	oz wt/a % v/v	3	oz wt/a	B	48	c	85	ab	95	a	78	abc	13	ab
9	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	3.0 0.25	oz wt/a % v/v	3	oz wt/a	C					53	bcd	100	a		
10	Manor Chem-Nut 80/20 NIS Prior to Greenup	60	WG	0.5 0.25	oz wt/a % v/v			A	100	a	100	a	96	a	91	ab	3	bc
11	Manor Chem-Nut 80/20 NIS 50% Greenup	60	WG	0.5 0.25	oz wt/a % v/v			B	48	c	80	ab	100	a	99	a	8	ab c
12	Manor Chem-Nut 80/20 NIS Early 100% greenup	60	WG	0.5 0.25	oz wt/a % v/v			C					50	bcd	100	a		
13	Untreated Prior to Greenup							A	0	d	0	d	0	e	0	e	0	c
14	Untreated 50% Greenup							B	0	d	0	d	0	e	0	e	0	c
15	Untreated Early 100% greenup							C					0	e	0	e		
LSD (P=.05)									12.4		25.7		30.9		22.1		10.2	
Standard Deviation									8.6		17.7		21.6		15.5		7.0	
CV									14.81		27.76		40.98		23.27		96.72	

Weed Code							BROZZ	GERCA	GERCA	TRFRE	TRFRE		
Rating Data Type							Control	Control	Control	Density	Control		
Rating Unit							0-100	0-100	0-100	0-100	0-100		
Rating Date							4-24-2003	4-7-2003	4-24-2003	5-8-2003	5-8-2003		
Trt-Eval Interval							72 DA-A	55 DA-A	72 DA-A	86 DA-A	86 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Product Unit	Product Rate	Product Unit	Appl Code					
1	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	1.5 oz wt/a 0.25 % v/v	1.5 oz wt/a	1.5 oz wt/a		A	25 ab	100 a	80 a	3 b	96 b
2	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	1.5 oz wt/a 0.25 % v/v	1.5 oz wt/a	1.5 oz wt/a		B	0 b	80 b	95 a	0 b	100 a
3	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	1.5 oz wt/a 0.25 % v/v	1.5 oz wt/a	1.5 oz wt/a		C				25 a	0 c
4	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	2.25 oz wt/a 0.25 % v/v	2.25 oz wt/a	2.25 oz wt/a		A	33 a	100 a	83 a	4 b	95 b
5	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	2.25 oz wt/a 0.25 % v/v	2.25 oz wt/a	2.25 oz wt/a		B	3 b	80 b	100 a	0 b	100 a
6	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	2.25 oz wt/a 0.25 % v/v	2.25 oz wt/a	2.25 oz wt/a		C				23 a	0 c
7	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	3.0 oz wt/a 0.25 % v/v	3 oz wt/a	3 oz wt/a		A	40 a	100 a	98 a	1 b	100 a
8	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	3.0 oz wt/a 0.25 % v/v	3 oz wt/a	3 oz wt/a		B	4 b	80 b	100 a	0 b	100 a
9	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	3.0 oz wt/a 0.25 % v/v	3 oz wt/a	3 oz wt/a		C				28 a	0 c
10	Manor Chem-Nut 80/20 NIS Prior to Greenup	60	WG	0.5 oz wt/a 0.25 % v/v				A	0 b	100 a	95 a	0 b	100 a
11	Manor Chem-Nut 80/20 NIS 50% Greenup	60	WG	0.5 oz wt/a 0.25 % v/v				B	0 b	79 c	95 a	0 b	100 a
12	Manor Chem-Nut 80/20 NIS Early 100% greenup	60	WG	0.5 oz wt/a 0.25 % v/v				C				23 a	0 c
13	Untreated Prior to Greenup							A	0 b	0 d	0 b	26 a	0 c
14	Untreated 50% Greenup							B	0 b	0 d	0 b	26 a	0 c
15	Untreated Early 100% greenup							C				24 a	0 c
LSD (P=.05)							27.1	1.1	20.3	9.1	2.7		
Standard Deviation							18.7	0.8	14.0	6.3	1.9		
CV							180.05	1.1	18.77	52.5	3.58		

								TRFRE	TRFRE	CYNDA	CYNDA	CYNDA	
Weed Code								Control	Control	Green up	Green up	Injury	
Crop Code								0-100	0-100	0-100	0-100	0-100	
Rating Data Type													
Rating Unit													
Rating Date								5-8-2003	6-17-2003	4-7-2003	4-24-2003	5-20-2003	
Trt-Eval Interval								86 DA-A	126 DA-A	55 DA-A	72 DA-A	98 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Product Rate	Product Rate Unit	Appl Code					
1	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	1.5 0.25	oz wt/a % v/v	1.5 oz wt/a		A	94 a	74 b	34 a	53 ab	0 b
2	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	1.5 0.25	oz wt/a % v/v	1.5 oz wt/a		B	100 a	99 a	24 b	53 ab	1 b
3	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	1.5 0.25	oz wt/a % v/v	1.5 oz wt/a		C	55 b	100 a			8 a
4	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	2.25 0.25	oz wt/a % v/v	2.25 oz wt/a		A	94 a	83 b	38 a	59 a	0 b
5	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	2.25 0.25	oz wt/a % v/v	2.25 oz wt/a		B	100 a	96 a	24 b	49 ab	0 b
6	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	2.25 0.25	oz wt/a % v/v	2.25 oz wt/a		C	60 b	100 a			6 a
7	Flazasulfuron Chem-Nut 80/20 NIS Prior to Greenup	25	WG	3.0 0.25	oz wt/a % v/v	3 oz wt/a		A	99 a	99 a	36 a	58 ab	0 b
8	Flazasulfuron Chem-Nut 80/20 NIS 50% Greenup	25	WG	3.0 0.25	oz wt/a % v/v	3 oz wt/a		B	100 a	100 a	25 b	48 ab	0 b
9	Flazasulfuron Chem-Nut 80/20 NIS Early 100% greenup	25	WG	3.0 0.25	oz wt/a % v/v	3 oz wt/a		C	55 b	100 a			5 a
10	Manor Chem-Nut 80/20 NIS Prior to Greenup	60	WG	0.5 0.25	oz wt/a % v/v			A	100 a	99 a	36 a	59 a	0 b
11	Manor Chem-Nut 80/20 NIS 50% Greenup	60	WG	0.5 0.25	oz wt/a % v/v			B	100 a	100 a	25 b	56 ab	0 b
12	Manor Chem-Nut 80/20 NIS Early 100% greenup	60	WG	0.5 0.25	oz wt/a % v/v			C	58 b	100 a			5 a
13	Untreated Prior to Greenup							A	0 c	0 c	31 a	45 b	0 b
14	Untreated 50% Greenup							B	0 c	0 c	31 a	46 ab	0 b
15	Untreated Early 100% greenup							C	0 c	0 c			0 b
LSD (P=.05)								7.7	9.0	5.7	11.5	2.6	
Standard Deviation								5.4	6.3	3.9	8.0	1.8	
CV								7.94	8.24	12.97	15.18	109.22	

