

Soybean, Tilled Weed Control Studies

Southern Illinois University

Flumioxazin Preemergence Combinations in Soybean.

Trial ID: 10-2C-W80

Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
City State Zip Country: Belleville IL 62221 USA
Trial Status: FINAL **Initiation Date:** 06-07-10

Objectives: To evaluate the efficacy or preemergence applications of Valor, Valor XLT, Gangster, and Fierce to control tough weeds, especially 28 to 56 days after treatment.

Crop 1: GLXMA Soybean **Variety:** AG 4404 **Description:** RR/STS
Planting Method: SEEDS **Planting Date:** 06-07-10
Rate, Unit: 75 LB/A **Depth, Unit:** 1.0 IN
Row Spacing, Unit: 30 IN

Pest 1 Type: W	Code: GGGAN		grasses, annual
Pest 2 Type: W	Code: CYPES	Cyperus esculentus L.	nutsedge, yellow
Pest 3 Type: W	Code: AMATA	Amaranthus rudis Sauer	waterhemp, common
Pest 4 Type: W	Code: AMBEL	Ambrosia artemisiifolia L.	ragweed, common
Pest 5 Type: W	Code: ABUTH	Abutilon theophrasti Medicus	velvetleaf
Pest 6 Type: W	Code: IPOHE	Ipomoea hederacea (L.) Jacq.	morningglory, ivyleaf

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 28 FT **Tillage Type:** REDUCED-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Prior Crops, Year
1. ZEAMD 2009

Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 150 LB/A

% OM: 1.5	Texture: SILT LOAM
pH: 6.2	Soil Name: PIERRON
CEC: 7	Fert. Level: P1: 85 LB/A, K: 262 LB/A

Application Description

A
Application Date: 06-07-10
Time of Day: 16:15
Application Method: Spray
Application Timing: PRE
Application Placement: BROSOI
Applied By: NVH
Air Temperature, Unit: 80 F
% Relative Humidity: 90
Wind Velocity, Unit: 1 MPH
Wind Direction: S
Dew Presence (Y/N): N
Soil Moisture: NORMAL
% Cloud Cover: 80

Crop stage at application: 06-07-10
NA

Pest Stage At Each Application

Application Date: 06-07-10
Weed Code: GGGAN
Stage Majority (leaves): NA
Weed Code: CYPES
Stage Majority (leaves): NA
Weed Code: AMATA
Stage Majority (leaves): NA
Weed Code: AMBEL
Stage Majority (leaves): NA
Weed Code: ABUTH
Stage Majority (leaves): NA
Weed Code: IPOHE
Stage Majority (leaves): NA

Application Equipment

Appl. Equipment: CO2 sprayer
Operating Pressure: 30 PSI
Nozzle Type: Flat fan
Nozzle Size: XR 8002
Boom Length, Unit: 7.5 FT
Spray Volume, Unit: 15 GPA

Flumioxazin Preemergence Combinations in Soybean.

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Location: Belleville Res. Center

Pest Code		TTTTT		GGGAN	GGGAN	GGGAN	GGGAN	GGGAN		
Crop Code				07-05-10	07-12-10	07-19-10	07-26-10	08-02-10		
Rating Date				6-8"W	Control	Control	Control	Control		
Rating Data Type				Days	Percent	Percent	Percent	Percent		
Rating Unit										
Rating Timing										
Trt-Eval Interval					28 DA-A	35 DA-A	42 DA-A	49 DA-A	56 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	NONTREATED									17.0 d 0 e 0 c 0 d 0 e 0 e
2	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	25.0 bc 91 ab 81 a 77 a 70 ab 70 ab
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	31.0 a 83 abc 65 ab 63 ab 57 abc 57 abc
3	VALOR SX	51	WG	0.056	lb ai/a			PRE	A	
3	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A	
4	GANGSTER (CO-PACK)					2.4	oz/a	PRE	A	29.0 ab 68 bcd 62 ab 57 abc 48 abc 48 abc
4	GANGSTER FR	84	WG	0.021	lb ai/a			PRE	A	
4	GANGSTER V	51	WG	0.064	lb ai/a			PRE	A	
5	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	31.0 a 95 a 87 a 82 a 73 ab 73 ab
6	AUTHORITY ASSIST	4	SL	0.156	lb ai/a	5	fl oz/a	PRE	A	23.0 c 60 cd 43 b 33 bc 30 cde 30 cde
7	PREFIX	5.29	EC	1.32	lb ai/a	1	qt/a	PRE	A	31.0 a 93 a 82 a 83 a 77 a 77 a
8	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	23.0 c 57 d 40 b 27 cd 8 de 8 de
9	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	PRE	A	29.0 ab 97 a 80 a 72 a 62 abc 62 abc
10	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	29.0 ab 65 cd 38 b 37 bc 32 cde 32 cde
11	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A	33.0 a 94 a 85 a 80 a 76 a 76 a
11	VALOR XLT	40.3	WG			3	oz/a	PRE	A	
11	VALOR SX	51	WG	0.056	lb ai/a			PRE	A	
11	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A	
12	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	23.0 c 80 a-d 58 ab 53 abc 40 bcd 40 bcd
13	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	33.0 a 91 ab 77 a 80 a 73 ab 73 ab
13	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A	
14	FIERCE	76	WG	0.119	lb ai/a	2.5	oz/a	PRE	A	31.0 a 92 ab 81 a 80 a 72 ab 72 ab
15	VALOR XLT	40.3	WG			3	oz/a	PRE	A	33.0 a 93 a 77 a 72 a 62 abc 62 abc
15	VALOR SX	51	WG	0.056	lb ai/a			PRE	A	
15	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A	
15	VALOR SX	51	WG	0.016	lb ai/a	0.5	oz/a	PRE	A	
LSD (P=.05)										5.17 23.8 32.0 32.5 34.1 34.1
Replicate F										3.605 0.543 1.484 0.846 1.962 1.962
Replicate Prob(F)										0.0405 0.5869 0.2440 0.4398 0.1594 0.1594
Treatment F										7.162 9.516 4.848 5.001 4.477 4.477
Treatment Prob(F)										0.0001 0.0001 0.0002 0.0001 0.0004 0.0004

Means followed by same letter do not significantly differ (P=.05, LSD)

Flumioxazin Preemergence Combinations in Soybean.

Trial ID: 10-2C-W80

Location: Belleville Res. Center

Pest Code	CYPES	CYPES	CYPES	CYPES	CYPES
Crop Code					
Rating Date	07-05-10	07-12-10	07-19-10	07-26-10	08-02-10
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Timing					
Trt-Eval Interval	28 DA-A	35 DA-A	42 DA-A	49 DA-A	56 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									0 f	0 f	0 f	0 f	0 f
2	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	13 ef	3 f	7 ef	7 ef	7 ef
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	83 abc	68 abc	62 bc	60 bc	60 bc
3	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
3	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
4	GANGSTER (CO-PACK)					2.4	oz/a	PRE	A	83 abc	63 c	62 bc	58 bc	58 bc
4	GANGSTER FR	84	WG	0.021	lb ai/a			PRE	A					
4	GANGSTER V	51	WG	0.064	lb ai/a			PRE	A					
5	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	82 abc	67 bc	67 abc	63 abc	63 abc
6	AUTHORITY ASSIST	4	SL	0.156	lb ai/a	5	fl oz/a	PRE	A	70 cd	58 cd	58 bc	53 c	53 c
7	PREFIX	5.29	EC	1.32	lb ai/a	1	qt/a	PRE	A	87 ab	77 ab	71 ab	68 ab	68 ab
8	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	83 abc	68 abc	67 abc	63 abc	63 abc
9	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	PRE	A	63 d	48 d	32 d	28 d	28 d
10	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	73 bcd	62 c	58 bc	57 bc	57 bc
11	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A	93 a	80 a	77 a	75 a	75 a
11	VALOR XLT	40.3	WG			3	oz/a	PRE	A					
11	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
11	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
12	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	20 e	20 e	18 de	15 de	15 de
13	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	67 d	57 cd	57 bc	55 bc	55 bc
13	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A					
14	FIERCE	76	WG	0.119	lb ai/a	2.5	oz/a	PRE	A	73 bcd	58 cd	55 c	52 c	52 c
15	VALOR XLT	40.3	WG			3	oz/a	PRE	A	81 abc	63 c	60 bc	58 bc	58 bc
15	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
15	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
15	VALOR SX	51	WG	0.016	lb ai/a	0.5	oz/a	PRE	A					
LSD (P=.05)										14.0	12.2	14.6	14.8	14.8
Replicate F										1.627	1.377	1.349	1.825	1.825
Replicate Prob(F)										0.2145	0.2688	0.2759	0.1799	0.1799
Treatment F										36.238	34.715	22.599	20.955	20.955
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Flumioxazin Preemergence Combinations in Soybean.

Trial ID: 10-2C-W80

Location: Belleville Res. Center

Pest Code	AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code					
Rating Date	07-05-10	07-12-10	07-19-10	07-26-10	08-02-10
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Timing					
Trt-Eval Interval	28 DA-A	35 DA-A	42 DA-A	49 DA-A	56 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									0 e	0 f	0 g	0 e	0 e
2	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	98 ab	98 a	98 a	98 a	98 a
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	99 a	99 a	93 abc	93 a	93 a
3	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
3	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
4	GANGSTER (CO-PACK)					2.4	oz/a	PRE	A	95 ab	91 abc	90 abc	90 ab	90 ab
4	GANGSTER FR	84	WG	0.021	lb ai/a			PRE	A					
4	GANGSTER V	51	WG	0.064	lb ai/a			PRE	A					
5	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
6	AUTHORITY ASSIST	4	SL	0.156	lb ai/a	5	fl oz/a	PRE	A	90 c	83 cd	78 cd	75 bc	75 bc
7	PREFIX	5.29	EC	1.32	lb ai/a	1	qt/a	PRE	A	97 ab	90 abc	89 abc	89 ab	89 ab
8	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	77 d	48 e	38 f	35 d	35 d
9	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
10	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	94 bc	75 d	62 e	60 c	60 c
11	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
11	VALOR XLT	40.3	WG			3	oz/a	PRE	A					
11	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
11	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
12	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	97 ab	75 d	73 de	87 ab	87 ab
13	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	98 ab	96 ab	96 ab	96 a	96 a
13	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A					
14	FIERCE	76	WG	0.119	lb ai/a	2.5	oz/a	PRE	A	99 a	94 abc	93 abc	93 a	93 a
15	VALOR XLT	40.3	WG			3	oz/a	PRE	A	96 ab	85 bcd	83 bcd	83 ab	83 ab
15	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
15	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
15	VALOR SX	51	WG	0.016	lb ai/a	0.5	oz/a	PRE	A					
LSD (P=.05)										4.5	11.8	14.8	17.2	17.2
Replicate F										2.049	0.952	1.820	1.093	1.093
Replicate Prob(F)										0.1478	0.3982	0.1806	0.3492	0.3492
Treatment F										262.543	42.830	29.202	22.506	22.506
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Flumioxazin Preemergence Combinations in Soybean.

Trial ID: 10-2C-W80

Location: Belleville Res. Center

Pest Code	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Crop Code					
Rating Date	07-05-10	07-12-10	07-19-10	07-26-10	08-02-10
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Timing					
Trt-Eval Interval	28 DA-A	35 DA-A	42 DA-A	49 DA-A	56 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									0 c	0 c	0 d	0 d	0 d
2	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	97 a	83 a	81 b	80 b	80 b
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	98 a	90 a	87 ab	86 ab	86 ab
3	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
3	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
4	GANGSTER (CO-PACK)					2.4	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
4	GANGSTER FR	84	WG	0.021	lb ai/a			PRE	A					
4	GANGSTER V	51	WG	0.064	lb ai/a			PRE	A					
5	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
6	AUTHORITY ASSIST	4	SL	0.156	lb ai/a	5	fl oz/a	PRE	A	67 b	33 b	28 c	25 c	25 c
7	PREFIX	5.29	EC	1.32	lb ai/a	1	qt/a	PRE	A	98 a	98 a	95 ab	90 ab	90 ab
8	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	96 a	96 a	97 ab	97 ab	97 ab
9	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
10	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	96 a	91 a	91 ab	91 ab	91 ab
11	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
11	VALOR XLT	40.3	WG			3	oz/a	PRE	A					
11	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
11	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
12	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	46 b	15 c	10 d	8 cd	8 cd
13	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
13	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A					
14	FIERCE	76	WG	0.119	lb ai/a	2.5	oz/a	PRE	A	98 a	91 a	91 ab	91 ab	91 ab
15	VALOR XLT	40.3	WG			3	oz/a	PRE	A	99 a	99 a	99 a	97 ab	97 ab
15	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
15	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
15	VALOR SX	51	WG	0.016	lb ai/a	0.5	oz/a	PRE	A					
LSD (P=.05)										21.3	17.1	17.1	18.4	18.4
Replicate F										1.322	0.037	0.020	0.116	0.116
Replicate Prob(F)										0.2827	0.9634	0.9805	0.8909	0.8909
Treatment F										14.725	32.745	34.466	30.525	30.525
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Flumioxazin Preemergence Combinations in Soybean.

Trial ID: 10-2C-W80

Location: Belleville Res. Center

Pest Code	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code					
Rating Date	07-05-10	07-12-10	07-19-10	07-26-10	08-02-10
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Timing					
Trt-Eval Interval	28 DA-A	35 DA-A	42 DA-A	49 DA-A	56 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									0 d	0 c	0 c	0 c	0 c
2	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	93 ab	89 a	86 a	96 a	96 a
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
3	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
3	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
4	GANGSTER (CO-PACK)					2.4	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
4	GANGSTER FR	84	WG	0.021	lb ai/a			PRE	A					
4	GANGSTER V	51	WG	0.064	lb ai/a			PRE	A					
5	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
6	AUTHORITY ASSIST	4	SL	0.156	lb ai/a	5	fl oz/a	PRE	A	96 ab	90 a	85 a	85 a	85 a
7	PREFIX	5.29	EC	1.32	lb ai/a	1	qt/a	PRE	A	17 c	27 b	33 b	33 b	33 b
8	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	90 b	89 a	91 a	91 a	91 a
9	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
10	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	95 ab	95 a	95 a	95 a	95 a
11	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
11	VALOR XLT	40.3	WG			3	oz/a	PRE	A					
11	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
11	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
12	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	96 ab	91 a	86 a	86 a	86 a
13	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a
13	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A					
14	FIERCE	76	WG	0.119	lb ai/a	2.5	oz/a	PRE	A	96 ab	93 a	91 a	91 a	91 a
15	VALOR XLT	40.3	WG			3	oz/a	PRE	A	96 ab	93 a	93 a	93 a	93 a
15	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
15	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
15	VALOR SX	51	WG	0.016	lb ai/a	0.5	oz/a	PRE	A					
LSD (P=.05)										8.8	22.3	28.3	28.1	28.1
Replicate F										3.117	1.963	2.329	1.833	1.833
Replicate Prob(F)										0.0599	0.1593	0.1159	0.1787	0.1787
Treatment F										106.606	14.581	8.451	8.653	8.653
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Flumioxazin Preemergence Combinations in Soybean.

Trial ID: 10-2C-W80

Location: Belleville Res. Center

Pest Code					
Crop Code					
Rating Date	07-05-10	07-12-10	07-19-10	07-26-10	08-02-10
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Timing					
Trt-Eval Interval	28 DA-A	35 DA-A	42 DA-A	49 DA-A	56 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									0 h	0 e	0 e	0 d	0 d
2	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	67 de	63 b	65 abc	62 ab	62 ab
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	77 bcd	67 ab	65 abc	65 ab	65 ab
3	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
3	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
4	GANGSTER (CO-PACK)					2.4	oz/a	PRE	A	85 ab	65 b	58 bc	57 ab	57 ab
4	GANGSTER FR	84	WG	0.021	lb ai/a			PRE	A					
4	GANGSTER V	51	WG	0.064	lb ai/a			PRE	A					
5	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	78 bcd	67 ab	70 ab	65 ab	65 ab
6	AUTHORITY ASSIST	4	SL	0.156	lb ai/a	5	fl oz/a	PRE	A	91 a	80 a	78 a	75 a	75 a
7	PREFIX	5.29	EC	1.32	lb ai/a	1	qt/a	PRE	A	53 f	38 c	28 d	28 c	28 c
8	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	78 bcd	60 b	50 c	50 b	50 b
9	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	PRE	A	70 de	62 b	63 abc	58 ab	57 ab
10	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	83 abc	65 b	55 bc	53 b	53 b
11	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A	83 abc	72 ab	67 abc	63 ab	63 ab
11	VALOR XLT	40.3	WG			3	oz/a	PRE	A					
11	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
11	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
12	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	37 g	17 d	10 de	10 cd	10 cd
13	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	72 cde	65 b	63 abc	62 ab	62 ab
13	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A					
14	FIERCE	76	WG	0.119	lb ai/a	2.5	oz/a	PRE	A	63 ef	60 b	55 bc	53 b	53 b
15	VALOR XLT	40.3	WG			3	oz/a	PRE	A	73 b-e	65 b	58 bc	55 ab	55 ab
15	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
15	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
15	VALOR SX	51	WG	0.016	lb ai/a	0.5	oz/a	PRE	A					
LSD (P=.05)										12.3	13.9	20.0	20.4	20.5
Replicate F										3.346	3.770	3.242	2.651	2.704
Replicate Prob(F)										0.0498	0.0355	0.0542	0.0882	0.0844
Treatment F										29.505	20.021	10.453	8.974	8.879
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Trial Comments

1. Protocol: Valent (Valor MD 64.01).
2. Ratings: WC at 28, 35, 42, 49, and 56 DAT.
3. For each treatment, record date when an in-season glyphosate application would be needed (when weeds reach 6-8 inch).
4. No yield necessary.
5. Blanket POST application of Roundup Powermax (22 fl oz/A) at 56 DAT.
6. In-season glyphosate application was needed for all treatments as of 7-5-10 (28 days after planting), with grasses up to 15 inch.
7. GGGAN = Annual grasses including SETFA (giant foxtail) and PANDI (fall panicum).
TTTTT, 6-8"W, Days = Number of days following the preemergence application until weeds reached 6 to 8 inch.
8. Not harvested.