

Flumioxazin Combinations Preemergence in Soybean.

Trial ID: 11-2A-MMW80

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: 6-6-11

Objectives: Evaluate the efficacy of Valor, Valor XLT, and Fierce applied preemergence in soybean.

Crop 1: GLXMA Soybean Variety: AG 4005 Description: RR
 Planting Method: SEEDS Planting Date: 6-6-11
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W	Code: AMBTR	Ambrosia trifida L.	ragweed, giant
Pest 2 Type: W	Code: SETFA	Setaria faberi Herrm.	foxtail, giant
Pest 3 Type: W	Code: ABUTH	Abutilon theophrasti Medicus	velvetleaf
Pest 4 Type: W	Code: AMATA	Amaranthus rudis Sauer	waterhemp, common
Pest 5 Type: W	Code: CYPES	Cyperus esculentus L.	nutsedge, yellow
Pest 6 Type: W	Code: XANST	Xanthium strumarium L.	cocklebur, common

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 2010

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 150 LB/A

% OM:	1.6	Texture:	SILT LOAM
pH:	5.9	Soil Name:	PIERRON
CEC:	6	Fert. Level:	P1:41 LB/A, K:257 LB/A

Application Description

A
 Application Date: 6-7-11
 Time of Day: 11:45
 Application Method: Spray
 Application Timing: PRE
 Application Placement: BROSOI
 Applied By: MJA
 Air Temperature, Unit: 95 F
 % Relative Humidity: 40
 Wind Velocity, Unit: 6 MPH
 Wind Direction: SW
 Dew Presence (Y/N): N
 Soil Temperature, Unit: 76 F
 Soil Moisture: NORMAL
 % Cloud Cover: 0

7-6-11
 Crop stage at application: NA

Pest Stage At Each Application

6-7-11
 Application Date: 6-7-11
 Weed Code: AMBTR
 Stage Majority (leaves): NA
 Weed Code: SETFA
 Stage Majority (leaves): NA
 Weed Code: ABUTH
 Stage Majority (leaves): NA
 Weed Code: AMATA
 Stage Majority (leaves): NA
 Weed Code: CYPES
 Stage Majority (leaves): NA
 Weed Code: XANST
 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

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Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code					
Rating Date	7-5-11	7-12-11	7-19-11	7-26-11	8-2-11
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 e	0 f	0 d	0 d
2	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	60 bcd	58 a-d	40 cde	32 bcd	23 cd
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	91 a	88 a	82 ab	73 a	72 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	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	85 ab	82 a	70 abc	63 ab	55 abc
5	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	PRE	A	87 ab	86 a	78 ab	66 ab	60 abc
6	FIERCE	76	WG	0.214	lb ai/a	4.5	oz/a	PRE	A	90 a	88 a	83 a	73 a	68 ab
7	AUTHORITY ASSIST	4	SC	0.156	lb ai/a	5	fl oz/a	PRE	A	52 cd	52 bcd	45 b-e	42 abc	35 a-d
8	PREFIX	5.29	EC	1.32	lb ai/a	1	qt/a	PRE	A	85 ab	82 ab	72 abc	63 ab	60 abc
9	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	83 ab	81 ab	72 abc	66 ab	60 abc
10	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	50 cd	47 cd	32 def	30 bcd	25 bcd
11	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A	87 ab	83 a	80 ab	73 a	70 a
11	VALOR SX	51	WG	0.056	lb ai/a	1.75	oz/a	PRE	A					
11	CLASSIC	25	WG	0.0195	lb ai/a	1.25	oz/a	PRE	A					
12	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	82 ab	77 abc	68 a-d	58 ab	48 abc
12	V-10206	85	WG	0.106	lb ai/a	2	oz/a	PRE	A					
13	AUTHORITY MTZ	45	WG	0.31	lb ai/a	11	oz/a	PRE	A	35 d	33 d	15 ef	8 cd	2 d
14	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	PRE	A	76 abc	74 abc	62 a-d	47 abc	35 a-d
15	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	73 abc	74 abc	66 a-d	61 ab	55 abc
15	V-10206	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A					
16	ANTHEM	2.15	SE	0.134	lb ai/a	8	fl oz/a	PRE	A	68 abc	68 abc	57 a-d	48 abc	43 a-d
LSD (P=.05)										29.4	30.5	37.8	40.0	43.4
Replicate F										6.346	6.610	6.371	8.345	9.951
Replicate Prob(F)										0.0050	0.0042	0.0049	0.0013	0.0005
Treatment F										5.865	5.227	3.581	2.691	2.276
Treatment Prob(F)										0.0001	0.0001	0.0014	0.0102	0.0269

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

Flumioxazin Combinations Preemergence in Soybean.

Trial ID: 11-2A-MMW80

Location: Belleville Res. Center

Pest Code	SETFA	SETFA	SETFA	SETFA	SETFA
Crop Code					
Rating Date	7-5-11	7-12-11	7-19-11	7-26-11	8-2-11
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 e	0 e	0 f	0 e
2	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	95 ab	94 a	82 ab	77 a	73 ab
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	98 a	96 a	90 a	84 a	80 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	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	98 a	96 a	88 a	83 a	78 ab
5	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	PRE	A	99 a	97 a	92 a	88 a	85 ab
6	FIERCE	76	WG	0.214	lb ai/a	4.5	oz/a	PRE	A	99 a	97 a	92 a	88 a	87 ab
7	AUTHORITY ASSIST	4	SC	0.156	lb ai/a	5	fl oz/a	PRE	A	63 de	62 cd	40 cd	33 de	30 d
8	PREFIX	5.29	EC	1.32	lb ai/a	1	qt/a	PRE	A	92 ab	91 a	83 ab	75 ab	72 ab
9	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	80 bc	75 bc	58 bc	50 bcd	38 cd
10	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	70 cd	68 c	58 bc	48 cde	40 cd
11	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A	99 a	97 a	94 a	90 a	87 ab
11	VALOR SX	51	WG	0.056	lb ai/a	1.75	oz/a	PRE	A					
11	CLASSIC	25	WG	0.0195	lb ai/a	1.25	oz/a	PRE	A					
12	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	97 a	95 a	93 a	88 a	87 ab
12	V-10206	85	WG	0.106	lb ai/a	2	oz/a	PRE	A					
13	AUTHORITY MTZ	45	WG	0.31	lb ai/a	11	oz/a	PRE	A	53 e	50 d	33 d	23 ef	20 de
14	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	PRE	A	87 ab	86 ab	77 ab	68 abc	62 bc
15	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	99 a	97 a	90 a	85 a	82 ab
15	V-10206	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A					
16	ANTHEM	2.15	SE	0.134	lb ai/a	8	fl oz/a	PRE	A	99 a	98 a	93 a	88 a	89 a
LSD (P=.05)										14.8	14.5	24.7	25.2	26.1
Replicate F										0.046	0.439	0.705	0.160	0.225
Replicate Prob(F)										0.9554	0.6489	0.5023	0.8530	0.7995
Treatment F										26.675	27.493	10.336	10.119	9.733
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 Combinations Preemergence in Soybean.

Trial ID: 11-2A-MMW80

Location: Belleville Res. Center

Pest Code	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code					
Rating Date	7-5-11	7-12-11	7-19-11	7-26-11	8-2-11
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 d	0 c	0 c	0 c
2	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	98 a	95 ab	93 a	91 a	93 a
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	99 a	96 ab	94 a	90 a	92 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	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	99 a	90 ab	71 ab	86 a	85 a
5	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	PRE	A	99 a	95 ab	94 a	93 a	93 a
6	FIERCE	76	WG	0.214	lb ai/a	4.5	oz/a	PRE	A	99 a	98 a	95 a	89 a	86 a
7	AUTHORITY ASSIST	4	SC	0.156	lb ai/a	5	fl oz/a	PRE	A	83 b	80 b	76 a	80 a	88 a
8	PREFIX	5.29	EC	1.32	lb ai/a	1	qt/a	PRE	A	63 c	60 c	50 b	48 b	45 b
9	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	98 ab	92 ab	89 a	89 a	94 a
10	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	94 ab	87 ab	79 a	75 a	81 a
11	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A	98 a	97 a	95 a	93 a	92 a
11	VALOR SX	51	WG	0.056	lb ai/a	1.75	oz/a	PRE	A					
11	CLASSIC	25	WG	0.0195	lb ai/a	1.25	oz/a	PRE	A					
12	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	98 ab	96 ab	95 a	96 a	96 a
12	V-10206	85	WG	0.106	lb ai/a	2	oz/a	PRE	A					
13	AUTHORITY MTZ	45	WG	0.31	lb ai/a	11	oz/a	PRE	A	96 ab	93 ab	88 a	87 a	88 a
14	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	PRE	A	99 a	94 ab	92 a	93 a	93 a
15	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	98 a	95 ab	94 a	92 a	94 a
15	V-10206	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A					
16	ANTHEM	2.15	SE	0.134	lb ai/a	8	fl oz/a	PRE	A	99 a	95 ab	92 a	89 a	89 a
LSD (P=.05)										14.8	16.7	26.2	21.1	21.6
Replicate F										2.495	6.401	5.500	5.553	7.268
Replicate Prob(F)										0.0995	0.0048	0.0094	0.0091	0.0027
Treatment F										24.716	18.021	7.485	11.101	11.069
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 Combinations Preemergence in Soybean.

Trial ID: 11-2A-MMW80

Location: Belleville Res. Center

Pest Code	AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code					
Rating Date	7-5-11	7-12-11	7-19-11	7-26-11	8-2-11
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 d	0 e	0 e	0 c
2	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	99 a	98 a	94 ab	90 abc	91 a
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	99 a	97 a	92 ab	88 abc	87 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	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	99 a	98 a	98 a	95 a	94 a
5	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	PRE	A	99 a	99 a	96 ab	94 a	88 a
6	FIERCE	76	WG	0.214	lb ai/a	4.5	oz/a	PRE	A	99 a	99 a	96 ab	91 ab	88 a
7	AUTHORITY ASSIST	4	SC	0.156	lb ai/a	5	fl oz/a	PRE	A	90 b	81 b	74 c	77 c	84 a
8	PREFIX	5.29	EC	1.32	lb ai/a	1	qt/a	PRE	A	99 a	98 a	96 ab	93 ab	92 a
9	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	99 a	95 a	83 bc	80 bc	86 a
10	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	65 c	62 c	38 d	35 d	30 b
11	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A	99 a	98 a	95 ab	92 ab	89 a
11	VALOR SX	51	WG	0.056	lb ai/a	1.75	oz/a	PRE	A					
11	CLASSIC	25	WG	0.0195	lb ai/a	1.25	oz/a	PRE	A					
12	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	99 a	99 a	96 ab	95 a	93 a
12	V-10206	85	WG	0.106	lb ai/a	2	oz/a	PRE	A					
13	AUTHORITY MTZ	45	WG	0.31	lb ai/a	11	oz/a	PRE	A	94 ab	92 ab	88 ab	83 abc	80 a
14	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	PRE	A	96 ab	96 a	86 abc	86 abc	81 a
15	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	99 a	99 a	97 a	94 a	94 a
15	V-10206	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A					
16	ANTHEM	2.15	SE	0.134	lb ai/a	8	fl oz/a	PRE	A	99 a	99 a	93 ab	89 abc	86 a
LSD (P=.05)										8.8	11.3	13.6	13.8	18.7
Replicate F										2.316	2.885	1.204	0.984	1.180
Replicate Prob(F)										0.1160	0.0714	0.3141	0.3854	0.3212
Treatment F										69.375	42.478	31.818	29.409	15.928
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 Combinations Preemergence in Soybean.

Trial ID: 11-2A-MMW80

Location: Belleville Res. Center

Pest Code	CYPES	CYPES	CYPES	CYPES	CYPES
Crop Code					
Rating Date	7-5-11	7-12-11	7-19-11	7-26-11	8-2-11
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 e	0 e	0 e	0 f
2	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	60 b	60 d	45 d	40 d	35 e
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	98 a	94 ab	92 ab	78 abc	77 bcd
3	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
3	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
4	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	93 a	83 c	75 c	70 c	68 d
5	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	PRE	A	95 a	93 abc	88 ab	83 abc	85 abc
6	FIERCE	76	WG	0.214	lb ai/a	4.5	oz/a	PRE	A	92 a	90 abc	85 abc	82 abc	82 a-d
7	AUTHORITY ASSIST	4	SC	0.156	lb ai/a	5	fl oz/a	PRE	A	99 a	93 abc	87 ab	82 abc	82 a-d
8	PREFIX	5.29	EC	1.32	lb ai/a	1	qt/a	PRE	A	99 a	93 abc	91 ab	88 ab	85 abc
9	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	99 a	99 a	94 a	93 a	93 a
10	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	91 a	87 bc	81 bc	75 bc	72 cd
11	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A	99 a	95 ab	93 a	88 ab	87 abc
11	VALOR SX	51	WG	0.056	lb ai/a	1.75	oz/a	PRE	A					
11	CLASSIC	25	WG	0.0195	lb ai/a	1.25	oz/a	PRE	A					
12	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	95 a	87 bc	85 abc	83 abc	85 abc
12	V-10206	85	WG	0.106	lb ai/a	2	oz/a	PRE	A					
13	AUTHORITY MTZ	45	WG	0.31	lb ai/a	11	oz/a	PRE	A	99 a	95 ab	92 ab	89 ab	88 ab
14	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	PRE	A	97 a	96 ab	93 a	89 ab	88 ab
15	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	98 a	93 abc	90 ab	87 ab	84 a-d
15	V-10206	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A					
16	ANTHEM	2.15	SE	0.134	lb ai/a	8	fl oz/a	PRE	A	96 a	92 abc	87 abc	82 abc	80 a-d
LSD (P=.05)										10.6	10.2	11.9	16.1	15.9
Replicate F										0.113	0.687	0.542	0.308	0.329
Replicate Prob(F)										0.8938	0.5107	0.5874	0.7369	0.7221
Treatment F										47.958	47.016	35.185	18.032	18.780
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 Combinations Preemergence in Soybean.

Trial ID: 11-2A-MMW80

Location: Belleville Res. Center

Pest Code	XANST	XANST	XANST	XANST	XANST
Crop Code					
Rating Date	7-5-11	7-12-11	7-19-11	7-26-11	8-2-11
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 e 0 e
2	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A		60 b	53 b	45 c	43 d 36 de
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A		99 a	98 a	98 a	91 ab 91 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	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A		96 a	93 a	83 ab	80 abc 77 abc
5	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	PRE	A		96 a	91 a	89 a	84 abc 79 abc
6	FIERCE	76	WG	0.214	lb ai/a	4.5	oz/a	PRE	A		78 ab	75 ab	68 abc	60 bcd 57 bcd
7	AUTHORITY ASSIST	4	SC	0.156	lb ai/a	5	fl oz/a	PRE	A		91 a	90 a	85 ab	81 abc 80 abc
8	PREFIX	5.29	EC	1.32	lb ai/a	1	qt/a	PRE	A		60 b	57 b	54 bc	52 cd 50 cd
9	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A		99 a	98 a	96 a	96 a 96 ab
10	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A		90 a	91 a	83 ab	76 a-d 75 a-d
11	V-10206	85	WG	0.053	lb ai/a	1	oz/a	PRE	A		99 a	97 a	95 a	91 ab 91 ab
11	VALOR SX	51	WG	0.056	lb ai/a	1.75	oz/a	PRE	A					
11	CLASSIC	25	WG	0.0195	lb ai/a	1.25	oz/a	PRE	A					
12	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A		96 a	95 a	88 a	82 abc 77 abc
12	V-10206	85	WG	0.106	lb ai/a	2	oz/a	PRE	A					
13	AUTHORITY MTZ	45	WG	0.31	lb ai/a	11	oz/a	PRE	A		90 a	86 a	73 abc	71 a-d 71 a-d
14	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	PRE	A		98 a	98 a	95 a	93 ab 96 ab
15	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A		99 a	99 a	99 a	99 a 99 a
15	V-10206	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A					
16	ANTHEM	2.15	SE	0.134	lb ai/a	8	fl oz/a	PRE	A		99 a	95 a	90 a	87 ab 83 abc
LSD (P=.05)										23.1	24.5	30.7	34.3	39.7
Replicate F										1.134	1.290	1.097	1.030	1.184
Replicate Prob(F)										0.3353	0.2900	0.3469	0.3693	0.3198
Treatment F										10.569	9.480	5.973	4.536	3.548
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0002	0.0015

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

Trial Comments

1. Protocol: Valent (Fierce MD 64.01).
2. Ratings: CI at 14 DAT; CI/WC 28, 35, 42, 49, and 56 DAT.
3. Record date for each treatment when in-season glyphosate application should be made.
4. Blanket with glyphosate after final evaluation.
5. Following the PRE application rainfall totals for the first and second week were 1.6 and 3.99 inch, respectively.
6. The in-season glyphosate application was deemed necessary,
 - on 7-11-11 for treatments 2, 7, 10, 13, and 14 and
 - on 7-18-11 for treatments 3, 4, 5, 6, 8, 9, 11, 12, 15, and 16.
7. Injury was malformation and stunting.