

Commercial weed control programs in Enlist E3 soybean

Trial ID: SOY07-21 Study Dir.: Sprague, Stiles, Powell
 Conducted: Campus, C-16 Investigator: Christy Sprague

Planting Date: 5-11-21 **Row Spacing:** 30 IN
Variety: P24T35E **No. of Reps:** 4
Population: 155000 seeds/A **% OM:** 2.4
Soil Type: L loam **pH:** 7.1
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plow; Spring soil finished twice
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	annual grass	mainly foxtail species
2	CHEAL	common lambsquarters	Chenopodium album
3	AMAPO	Powell amaranth	Amaranthus powellii
4	AMBEL	common ragweed	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
6	SINAR	wild mustard	Sinapis arvensis
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	5-12-21	6-17-21
Time Treated:	11:15 AM	9:45 AM
% Cloud Cover:	25	0
Air Temp., Unit:	50 F	73 F
% Relative Humidity:	38	35
Wind Speed/Unit/Dir:	5.5 MPH N	7 MPH SW
Soil Temp, Unit:	62 F	77.5 F
Leaf Moist/Dew Presence (Y/N):	N	N
Soil Moist:	5	5

Crop Stage at Each Application

	A	B
Crop 1 Name:	GLXMA	GLXMA
Height:		2-5 " (3.5)
Stage:		V1-V3 (V2)

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height:		2-7 " (4.5)
Stage:		3L-4L (3L)
Weed 2 Name:	CHEAL	CHEAL
Height:		1-8 " (4.5)
Stage:		4L-15L (10L)
Weed 3 Name:	AMAPO	AMAPO
Height:		
Stage:		
Weed 4 Name:	AMBEL	AMBEL
Height:		1-4 " (2.5)
Stage:		4L-8L (6L)
Weed 5 Name:	ABUTH	ABUTH
Height:		1-2 " (1.5)
Stage:		2L-4L (3L)
Weed 6 Name:	SINAR	SINAR
Height:		8-10 " (9)
Stage:		bolted

Weed Density

	1	2	3	4	5	6
Date:	6-17-21	6-17-21	6-17-21	6-17-21	6-17-21	6-17-21
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
Density:	6 FT2	5 FT2	0.5 FT2	8 FT2	1 FT2	0.5 FT2

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 MPH	AIXR	11003	20.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 MPH	AIXR	11003	25.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI

Comments: Common ragweed at this location is Group 2 (ALS) resistant.

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Pest Code	Crop Type, Code	C, GLXMA C, GLXMA	ANGR	CHEAL	AMBEL	ABUTH	SINAR	C, GLXMA	ANGR	CHEAL
Rating Date	Rating Type	6-1-21 injury %	6-17-21 injury %	6-17-21 control %	6-17-21 control %	6-17-21 control %	6-17-21 control %	7-1-21 injury %	7-1-21 control %	7-1-21 control %
Rating Unit	Trt-Eval Interval	20 DA-A	36 DA-A	36 DA-A	36 DA-A	36 DA-A	36 DA-A	14 DA-B	14 DA-B	14 DA-B

Trt No.	Treatment Name	Rate Unit	Appl Code	20 DA-A	36 DA-A	36 DA-A	36 DA-A	36 DA-A	36 DA-A	14 DA-B	14 DA-B	14 DA-B	
13	Sonic	5 oz/a	A	0	0	78	85	74	100	100	3	100	100
13	Enlist One	2 pt/a	B										
13	EverpreX	1 pt/a	B										
13	Durango DMA	32 fl oz/a	B										
13	AMSOL	2.5 % v/v	B										
14	Kyber	1 pt/a	A	0	5	89	89	83	98	99	11	100	100
14	Enlist One	2 pt/a	B										
14	EverpreX	1 pt/a	B										
14	Durango DMA	32 fl oz/a	B										
14	AMSOL	2.5 % v/v	B										
15	Fierce EZ	6 fl oz/a	A	0	3	83	74	40	85	100	4	100	100
15	Perpetuo	6 fl oz/a	B										
15	Enlist One	2 pt/a	B										
15	Roundup PowerMax 3	30 fl oz/a	B										
15	AMS	1.5 lb/a	B										
15	Intact	0.5 % v/v	B										
16	FirstRate	0.6 oz/a	A	0	2	80	76	80	100	100	5	100	100
16	Fierce EZ	6 fl oz/a	A										
16	Perpetuo	6 fl oz/a	B										
16	Enlist One	2 pt/a	B										
16	Roundup PowerMax 3	30 fl oz/a	B										
16	AMS	1.5 lb/a	B										
16	Intact	0.5 % v/v	B										
17	Sonic	5 oz/a	A	0	0	82	83	73	92	100	0	98	100
17	Enlist One	2 pt/a	B										
17	Liberty	32 fl oz/a	B										
17	AMSOL	2.5 % v/v	B										
18	Zidua PRO	4.5 fl oz/a	A	0	0	86	75	84	95	100	0	98	100
18	Enlist One	2 pt/a	B										
18	Liberty	32 fl oz/a	B										
18	AMS	3 lb/a	B										
19	Kyber	1 pt/a	A	0	6	85	87	75	99	100	2	100	100
19	Enlist One	2 pt/a	B										
19	Liberty	32 fl oz/a	B										
19	AMSOL	2.5 % v/v	B										
20	Zidua PRO	4.5 fl oz/a	A	0	0	82	75	77	88	100	0	99	100
20	Enlist One	2 pt/a	B										
20	Roundup PowerMax 3	30 fl oz/a	B										
20	Liberty	32 fl oz/a	B										
20	AMS	3 lb/a	B										
21	Kyber	1 pt/a	A	0	4	86	86	85	100	100	13	100	100
21	Enlist One	2 pt/a	B										
21	EverpreX	1 pt/a	B										
21	Liberty	32 fl oz/a	B										
21	AMSOL	2.5 % v/v	B										
22	Roundup PowerMax 3	30 fl oz/a	B	0	0	0	0	0	0	0	0	96	75
22	AMS	17 lb/gal	B										
LSD	P=.05				2.0	10.9	14.7	10.3	13.5	1.7	2.4	2.7	5.7
Standard Deviation				0.0	1.4	7.7	10.4	7.3	9.5	1.2	1.7	1.9	4.1
CV				0.0	92.13	10.37	13.78	10.53	11.96	1.32	59.52	2.0	4.48

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Pest Code	AMAPO	AMBEL	ABUTH	C, GLXMA	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	ANGR	CHEAL
Crop Type, Code	7-1-21	7-1-21	7-1-21	7-15-21	7-15-21	7-15-21	7-15-21	7-15-21	7-15-21	9-24-21	9-24-21
Rating Date	control	control	control	injury	control	control	control	control	control	control	control
Rating Type	%	%	%	%	%	%	%	%	%	%	%
Rating Unit	14 DA-B	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	99 DA-B	99 DA-B
Trt-Eval Interval											

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	AMAPO	AMBEL	ABUTH	C, GLXMA	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	ANGR	CHEAL
13	Sonic	5 oz/a	oz/a	A	100	100	100	0	100	99	100	89	100	100	100
13	Enlist One	2 pt/a	pt/a	B											
13	EverpreX	1 pt/a	pt/a	B											
13	Durango DMA	32 fl oz/a	fl oz/a	B											
13	AMSOL	2.5 % v/v	% v/v	B											
14	Kyber	1 pt/a	pt/a	A	100	100	100	0	100	100	100	100	100	100	100
14	Enlist One	2 pt/a	pt/a	B											
14	EverpreX	1 pt/a	pt/a	B											
14	Durango DMA	32 fl oz/a	fl oz/a	B											
14	AMSOL	2.5 % v/v	% v/v	B											
15	Fierce EZ	6 fl oz/a	fl oz/a	A	100	100	100	0	100	100	100	98	100	100	100
15	Perpetuo	6 fl oz/a	fl oz/a	B											
15	Enlist One	2 pt/a	pt/a	B											
15	Roundup PowerMax 3	30 fl oz/a	fl oz/a	B											
15	AMS	1.5 lb/a	lb/a	B											
15	Intact	0.5 % v/v	% v/v	B											
16	FirstRate	0.6 oz/a	oz/a	A	100	100	100	0	100	100	100	98	100	100	100
16	Fierce EZ	6 fl oz/a	fl oz/a	A											
16	Perpetuo	6 fl oz/a	fl oz/a	B											
16	Enlist One	2 pt/a	pt/a	B											
16	Roundup PowerMax 3	30 fl oz/a	fl oz/a	B											
16	AMS	1.5 lb/a	lb/a	B											
16	Intact	0.5 % v/v	% v/v	B											
17	Sonic	5 oz/a	oz/a	A	100	100	100	0	96	100	100	90	100	98	100
17	Enlist One	2 pt/a	pt/a	B											
17	Liberty	32 fl oz/a	fl oz/a	B											
17	AMSOL	2.5 % v/v	% v/v	B											
18	Zidua PRO	4.5 fl oz/a	fl oz/a	A	100	100	100	0	99	100	100	93	100	97	100
18	Enlist One	2 pt/a	pt/a	B											
18	Liberty	32 fl oz/a	fl oz/a	B											
18	AMS	3 lb/a	lb/a	B											
19	Kyber	1 pt/a	pt/a	A	100	100	100	0	100	100	100	99	100	100	100
19	Enlist One	2 pt/a	pt/a	B											
19	Liberty	32 fl oz/a	fl oz/a	B											
19	AMSOL	2.5 % v/v	% v/v	B											
20	Zidua PRO	4.5 fl oz/a	fl oz/a	A	100	100	100	0	99	100	100	85	100	100	100
20	Enlist One	2 pt/a	pt/a	B											
20	Roundup PowerMax 3	30 fl oz/a	fl oz/a	B											
20	Liberty	32 fl oz/a	fl oz/a	B											
20	AMS	3 lb/a	lb/a	B											
21	Kyber	1 pt/a	pt/a	A	100	100	100	0	100	100	100	100	100	100	98
21	Enlist One	2 pt/a	pt/a	B											
21	EverpreX	1 pt/a	pt/a	B											
21	Liberty	32 fl oz/a	fl oz/a	B											
21	AMSOL	2.5 % v/v	% v/v	B											
22	Roundup PowerMax 3	30 fl oz/a	fl oz/a	B	96	88	80	0	76	71	89	77	83	76	83
22	AMS	17 lb/gal	lb/gal	B											
LSD P=.05					2.3	1.9	6.3	.	3.5	6.2	3.1	4.7	6.9	3.3	5.8
Standard Deviation					1.6	1.4	4.5	0.0	2.5	4.4	2.2	3.3	4.9	2.4	4.1
CV					1.68	1.44	4.86	0.0	2.67	4.87	2.31	3.79	5.32	2.52	4.48

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Pest Code	AMAPO	AMBEL	ABUTH	SINAR	C, GLXMA	C, GLXMA
Crop Type, Code						
Rating Date	9-24-21	9-24-21	9-24-21	9-24-21	10-18-21	10-18-21
Rating Type	control	control	control	control	yield	lbs/plot
Rating Unit	%	%	%	%	bu/A	
Trt-Eval Interval	99 DA-B	99 DA-B	99 DA-B	99 DA-B	123 DA-B	

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	AMAPO	AMBEL	ABUTH	SINAR	C, GLXMA	C, GLXMA
1	Zidua PRO	4.5 fl oz/a		A	100	85	95	100	76.6	16.6
1	Liberty	32 fl oz/a		B						
1	AMS	3 lb/a		B						
2	Boundary	2 pt/a		A	98	93	92	100	68.4	14.8
2	Prefix	2 pt/a		B						
2	Liberty	32 fl oz/a		B						
2	AMS	17 lb/100 gal		B						
3	Zidua PRO	4.5 fl oz/a		A	100	85	96	100	75.3	16.3
3	Roundup PowerMax 3	30 fl oz/a		B						
3	Liberty	32 fl oz/a		B						
3	AMS	3 lb/a		B						
4	Verdict	5 fl oz/a		A	100	80	100	97	75.0	16.2
4	Metribuzin	5 oz/a		A						
4	Roundup PowerMax 3	30 fl oz/a		B						
4	Liberty	32 fl oz/a		B						
4	AMS	3 lb/a		B						
5	Untreated				0	0	0	0	41.4	9.0
6	Prefix	2 pt/a		A	100	93	87	96	74.2	16.1
6	Metribuzin	6 oz/a		A						
6	Sequence	2.5 pt/a		B						
6	Liberty	32 fl oz/a		B						
6	AMS	17 lb/100 gal		B						
7	Valor EZ	2 fl oz/a		A	100	94	98	100	78.5	17.0
7	Mauler	8 fl oz/a		A						
7	Warrant	48 fl oz/a		B						
7	Roundup PowerMax 3	30 fl oz/a		B						
7	Liberty	32 fl oz/a		B						
7	AMS	17 lb/100 gal		B						
8	Fierce MTZ	1 pt/a		A	100	98	100	100	74.2	16.1
8	Warrant	48 fl oz/a		B						
8	Roundup PowerMax 3	30 fl oz/a		B						
8	Liberty	32 fl oz/a		B						
8	AMS	17 lb/100 gal		B						
9	Sonic	5 oz/a		A	100	95	97	100	76.3	16.5
9	Enlist Duo	4.75 pt/a		B						
9	AMSOL	2.5 % v/v		B						
9										
10	Anthem Maxx	3.25 fl oz/a		A	100	91	100	100	75.6	16.4
10	Metribuzin	5 oz/a		A						
10	Enlist One	2 pt/a		B						
10	Roundup PowerMax 3	30 fl oz/a		B						
10	AMS	17 lb/100 gal		B						
11	Kyber	1 pt/a		A	100	96	100	100	67.4	14.6
11	Enlist Duo	4.75 pt/a		B						
11	AMSOL	2.5 % v/v		B						
12	Authority Edge	8 fl oz/a		A	100	95	100	100	75.0	16.2
12	Metribuzin	5 oz/a		A						
12	Enlist One	2 pt/a		B						
12	Roundup PowerMax 3	30 fl oz/a		B						
12	AMS	17 lb/100 gal		B						

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Crop Type, Code						
Rating Date	9-24-21	9-24-21	9-24-21	9-24-21	10-18-21	10-18-21
Rating Type	control	control	control	control	yield	lbs/plot
Rating Unit	%	%	%	%	bu/A	
Trt-Eval Interval	99 DA-B	99 DA-B	99 DA-B	99 DA-B	123 DA-B	

Trt No.	Treatment Name	Rate Unit	Appl Code	AMAPO	AMBEL	ABUTH	SINAR	C, GLXMA	C, GLXMA
13	Sonic	5 oz/a	A	100	90	100	100	67.6	14.6
13	Enlist One	2 pt/a	B						
13	EverpreX	1 pt/a	B						
13	Durango DMA	32 fl oz/a	B						
13	AMSOL	2.5 % v/v	B						
14	Kyber	1 pt/a	A	100	99	100	100	71.3	15.4
14	Enlist One	2 pt/a	B						
14	EverpreX	1 pt/a	B						
14	Durango DMA	32 fl oz/a	B						
14	AMSOL	2.5 % v/v	B						
15	Fierce EZ	6 fl oz/a	A	100	99	100	100	71.8	15.5
15	Perpetuo	6 fl oz/a	B						
15	Enlist One	2 pt/a	B						
15	Roundup PowerMax 3	30 fl oz/a	B						
15	AMS	1.5 lb/a	B						
15	Intact	0.5 % v/v	B						
16	FirstRate	0.6 oz/a	A	100	100	100	100	78.0	16.9
16	Fierce EZ	6 fl oz/a	A						
16	Perpetuo	6 fl oz/a	B						
16	Enlist One	2 pt/a	B						
16	Roundup PowerMax 3	30 fl oz/a	B						
16	AMS	1.5 lb/a	B						
16	Intact	0.5 % v/v	B						
17	Sonic	5 oz/a	A	100	98	100	100	77.4	16.8
17	Enlist One	2 pt/a	B						
17	Liberty	32 fl oz/a	B						
17	AMSOL	2.5 % v/v	B						
18	Zidua PRO	4.5 fl oz/a	A	100	98	100	100	80.7	17.5
18	Enlist One	2 pt/a	B						
18	Liberty	32 fl oz/a	B						
18	AMS	3 lb/a	B						
19	Kyber	1 pt/a	A	100	98	100	100	78.0	16.9
19	Enlist One	2 pt/a	B						
19	Liberty	32 fl oz/a	B						
19	AMSOL	2.5 % v/v	B						
20	Zidua PRO	4.5 fl oz/a	A	100	96	100	100	76.7	16.6
20	Enlist One	2 pt/a	B						
20	Roundup PowerMax 3	30 fl oz/a	B						
20	Liberty	32 fl oz/a	B						
20	AMS	3 lb/a	B						
21	Kyber	1 pt/a	A	100	100	100	100	74.7	16.2
21	Enlist One	2 pt/a	B						
21	EverpreX	1 pt/a	B						
21	Liberty	32 fl oz/a	B						
21	AMSOL	2.5 % v/v	B						
22	Roundup PowerMax 3	30 fl oz/a	B	86	75	89	100	75.7	16.4
22	AMS	17 lb/gal	B						
LSD P=.05				3.2	9.0	9.1	2.8	9.65 . .	2.09
Standard Deviation				2.3	6.4	6.5	2.0	6.83 . .	1.48
CV				2.39	7.18	6.93	2.1	9.33 . .	9.33