

Weed control programs in Enlist soybean - "Stewarded"

Trial ID: SOY17-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus T-11 Investigator: Christy Sprague

Planting Date: May-25-2016 **Row Spacing:** 30 IN
Variety: ENLIST soybean **No. of Reps:** 4
Population: 150000 seeds/A **% OM:** 2.8
Soil Type: L loam **pH:** 6.8
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed; spring soil finished twice
Fertilizer:

Crop and Weed Description

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

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	May-25-2016	Jun-21-2016
Time Treated:	4:00 PM	9:45 AM
% Cloud Cover:	70	0
Air Temp., Unit:	83 F	66 F
% Relative Humidity:	43	60
Wind Speed/Unit/Dir:	6.7 mph WS	2 mph S
Soil Temp, Unit:	70 F	72 F
Leaf Moist/Dew Presence (Y/N):	5	5
Soil Moist:	4	5

Crop Stage at Each Application

	A	B
Crop 1 Name:	GLXMA	GLXMA
Height:		6 "
Stage:		V2

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height:		4 "
Stage:		3L
Weed 2 Name:	CHEAL	CHEAL
Height:		2 "
Stage:		7L
Weed 3 Name:	AMAPO	AMAPO
Height:		1 "
Stage:		4L
Weed 4 Name:	AMBEL	AMBEL
Height:		3 "
Stage:		6L
Weed 5 Name:	ABUTH	ABUTH
Height:		4-6 " (5)
Stage:		5L

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	22 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 mph	AIXR	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments:

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	GLXMA					
Rating Date	Jun-21-2016	Jun-21-2016	Jun-21-2016	Jun-21-2016	Jun-21-2016	Jun-21-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code						
		Rate Unit							
1	Sonic	4.5 oz/a	A	0	90	85	83	86	89
1	Durango DMA	32 fl oz/a	B						
1	AMS (Liquid)	2.5 % v/v	B						
2	Sonic	4.5 oz/a	A	0	93	94	95	86	84
2	Enlist Duo	3.5 pt/a	B						
2	AMS (Liquid)	2.5 % v/v	B						
3	Sonic	4.5 oz/a	A	0	83	86	95	83	88
3	Enlist Duo	4.68 pt/a	B						
3	AMS (Liquid)	2.5 % v/v	B						
4	Untreated			0	0	0	0	0	0
5	Sonic	4.5 oz/a	A	0	81	91	95	85	96
5	2,4-D choline (GF-3335)	24 fl oz/a	B						
5	Durango DMA	24 fl oz/a	B						
5	AMS (Liquid)	2.5 % v/v	B						
6	Sonic	4.5 oz/a	A	0	81	79	84	79	91
6	2,4-D choline (GF-3335)	32 fl oz/a	B						
6	Durango DMA	32 fl oz/a	B						
6	AMS (Liquid)	2.5 % v/v	B						
7	Sonic	4.5 oz/a	A	0	84	90	80	86	88
7	Glufosinate	29 fl oz/a	B						
7	AMS (Liquid)	2.5 % v/v	B						
8	Sonic	4.5 oz/a	A	0	91	85	89	88	95
8	2,4-D choline (GF-3335)	24 fl oz/a	B						
8	Glufosinate	29 fl oz/a	B						
8	AMS (Liquid)	2.5 % v/v	B						
9	Sonic	4.5 oz/a	A	0	76	81	85	88	98
9	2,4-D choline (GF-3335)	32 fl oz/a	B						
9	Glufosinate	29 fl oz/a	B						
9	AMS (Liquid)	2.5 % v/v	B						
LSD	P=.05			.	20.0	11.1	15.5	10.5	15.2
Standard Deviation				0.0	13.7	7.6	10.7	7.2	10.4
CV				0.0	18.2	9.91	13.6	9.53	12.92

Could not calculate LSD (% mean diff) for columns 1,7,8,11,12,13,16,17,18 because error mean square = 0.

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Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA
Crop Code	GLXMA					GLXMA
Rating Date	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-19-2016
Rating Type	injury	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA
1	Sonic	4.5 oz/a	A	0	100	99	100	100	0
1	Durango DMA	32 fl oz/a	B						
1	AMS (Liquid)	2.5 % v/v	B						
2	Sonic	4.5 oz/a	A	0	100	100	100	100	0
2	Enlist Duo	3.5 pt/a	B						
2	AMS (Liquid)	2.5 % v/v	B						
3	Sonic	4.5 oz/a	A	0	100	100	100	100	0
3	Enlist Duo	4.68 pt/a	B						
3	AMS (Liquid)	2.5 % v/v	B						
4	Untreated			0	0	0	0	0	0
5	Sonic	4.5 oz/a	A	0	100	100	100	100	0
5	2,4-D choline (GF-3335)	24 fl oz/a	B						
5	Durango DMA	24 fl oz/a	B						
5	AMS (Liquid)	2.5 % v/v	B						
6	Sonic	4.5 oz/a	A	0	100	100	100	100	0
6	2,4-D choline (GF-3335)	32 fl oz/a	B						
6	Durango DMA	32 fl oz/a	B						
6	AMS (Liquid)	2.5 % v/v	B						
7	Sonic	4.5 oz/a	A	0	100	96	98	100	0
7	Glufosinate	29 fl oz/a	B						
7	AMS (Liquid)	2.5 % v/v	B						
8	Sonic	4.5 oz/a	A	0	100	100	100	100	0
8	2,4-D choline (GF-3335)	24 fl oz/a	B						
8	Glufosinate	29 fl oz/a	B						
8	AMS (Liquid)	2.5 % v/v	B						
9	Sonic	4.5 oz/a	A	0	100	100	100	100	0
9	2,4-D choline (GF-3335)	32 fl oz/a	B						
9	Glufosinate	29 fl oz/a	B						
9	AMS (Liquid)	2.5 % v/v	B						
LSD P=.05				.	.	2.6	2.4	.	.
Standard Deviation				0.0	0.0	1.8	1.7	0.0	0.0
CV				0.0	0.0	2.03	1.88	0.0	0.0

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Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code					
Rating Date	Jul-19-2016	Jul-19-2016	Jul-19-2016	Jul-19-2016	Jul-19-2016
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code					
		Rate Unit						
1	Sonic	4.5 oz/a	A	100	100	100	100	100
1	Durango DMA	32 fl oz/a	B					
1	AMS (Liquid)	2.5 % v/v	B					
2	Sonic	4.5 oz/a	A	100	100	100	100	100
2	Enlist Duo	3.5 pt/a	B					
2	AMS (Liquid)	2.5 % v/v	B					
3	Sonic	4.5 oz/a	A	100	100	100	100	100
3	Enlist Duo	4.68 pt/a	B					
3	AMS (Liquid)	2.5 % v/v	B					
4	Untreated			0	0	0	0	0
5	Sonic	4.5 oz/a	A	100	100	100	100	100
5	2,4-D choline (GF-3335)	24 fl oz/a	B					
5	Durango DMA	24 fl oz/a	B					
5	AMS (Liquid)	2.5 % v/v	B					
6	Sonic	4.5 oz/a	A	100	100	100	100	100
6	2,4-D choline (GF-3335)	32 fl oz/a	B					
6	Durango DMA	32 fl oz/a	B					
6	AMS (Liquid)	2.5 % v/v	B					
7	Sonic	4.5 oz/a	A	99	96	100	100	100
7	Glufosinate	29 fl oz/a	B					
7	AMS (Liquid)	2.5 % v/v	B					
8	Sonic	4.5 oz/a	A	100	100	100	100	100
8	2,4-D choline (GF-3335)	24 fl oz/a	B					
8	Glufosinate	29 fl oz/a	B					
8	AMS (Liquid)	2.5 % v/v	B					
9	Sonic	4.5 oz/a	A	99	99	100	100	100
9	2,4-D choline (GF-3335)	32 fl oz/a	B					
9	Glufosinate	29 fl oz/a	B					
9	AMS (Liquid)	2.5 % v/v	B					
LSD	P=.05			1.1	2.6	.	.	.
Standard Deviation				0.7	1.8	0.0	0.0	0.0
CV				0.81	2.03	0.0	0.0	0.0