

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus C-14 Investigator: Christy Sprague

Planting Date: May-9-2017 **Row Spacing:** 30 IN
Variety: See comments **No. of Reps:** 4
Population: 155000 seeds/A **% OM:** 2.7
Soil Type: L loam **pH:** 6.6
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plow; spring soil finish 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	AMBEL	ragweed, common	Ambrosia artemisiifolia
4	ABUTH	velvetleaf	Abutilon theophrasti
5	SINAR	mustard, wild	Sinapis arvensis
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B	C
Application Timing:	PRE	EPOS	POST
Date Treated:	May-9-2017	Jun-2-2017	Jun-13-2017
Time Treated:	2:00 PM	8:25 AM	9:23 AM
% Cloud Cover:	30	0	50
Air Temp., Unit:	60 F	59 F	80.7 F
% Relative Humidity:	24	57	65
Wind Speed/Unit/Dir:	3.3 mph SW	2.5 mph NE	2.5 mph NW
Soil Temp, Unit:	55 F	62 F	78 F
Leaf Moist/Dew Presence (Y/N):	5	5	5
Soil Moist:	3	4	5

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	GLXMA	GLXMA	GLXMA
Height:		4-5 " (4.5)	6-7 " (6.5)
Stage:		V2	V3

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height:		1-4 " (2.5)	1-8 " (4)
Stage:		3-5L	3-5L
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Height:		3 "	2-4 " (3)
Stage:		3-7L	5-7L
Weed 3 Name:	AMBEL	AMBEL	AMBEL
Height:		1-3 " (2)	3-4 " (3.5)
Stage:		3-5L	6-8L
Weed 4 Name:	ABUTH	ABUTH	ABUTH
Height:			2-4 " (3)
Stage:			3-5L
Weed 5 Name:	SINAR	SINAR	SINAR
Height:			2-7 " (4.5)
Stage:			flower

Weed Density

	1	2	3	4	5
Date:	Jun-13-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017
Weed Name:	ANGR	CHEAL	AMBEL	ABUTH	SINAR
Density:	83 FT2	8 FT2	11 FT2	1 FT2	1 FT2

Application Equipment

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Conducted: Campus C-14

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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 GPA	WATER	30 PSI
B	Cub	3.8 MPH	AIXR	11003	22 "	20 "	100 "	19 GPA	WATER	30 PSI
C	Cub	3.8 MPH	AIXR	11003	24 "	20 "	100 "	19 GPA	WATER	30 PSI

Comments: The common ragweed population at this location is resistant to ALS-inhibiting (Group 2) herbicides. Varieties: Pioneer 24T84X and CZ2312LL

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Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	GLXMA	ANGR	AMBEL	GLXMA	ANGR
Crop Code	May-30-2017	May-30-2017	May-30-2017	Jun-12-2017	Jun-12-2017
Rating Date	injury	control	control	injury	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	21 DA-A	21 DA-A	21 DA-A	10 DA-B	10 DA-B
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	Valor EZ	4	L	3 fl oz/a		A	8	87	95	3	70
1	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
1	AMS		WG	17 lb/100 gal		C					
2	Rowel	51	WG	2 oz/a		A	2	87	91	3	70
2	Metribuzin	75	WG	4 oz/a		A					
2	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
2	AMS		WG	17 lb/100 gal		C					
3	Authority MTZ	45	WG	14 oz/a		A	0	58	79	0	45
3	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
3	AMS		WG	8.5 lb/100 gal		C					
4	Canopy Blend	58.3	WG	3 oz/a		A	0	25	49	0	26
4	Metribuzin	75	WG	3 oz/a		A					
4	Abundit Edge	4.5	SL	22 fl oz/a		C					
4	AMS		WG	2 lb/a		C					
5	Sonic	70	WG	3 oz/a		A	0	46	66	0	40
5	Durango DMA	4	SL	32 fl oz/a		C					
5	AMS		WG	8.5 lb/100 gal		C					
6	Sonic	70	WG	4.5 oz/a		A	0	33	45	0	36
6	Durango DMA	4	SL	32 fl oz/a		C					
6	AMS		WG	8.5 lb/100 gal		C					
7	Fierce	76	WG	3 oz/a		A	2	92	73	4	81
7	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
7	AMS		WG	17 lb/100 gal		C					
8	Warrant Ultra	3.45	L	50 fl oz/a		A	0	76	86	4	72
8	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
8	AMS		WG	17 lb/100 gal		C					
9	Authority MAXX	66	WG	5 oz/a		A	0	60	80	0	40
9	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
9	AMS		WG	8.5 lb/100 gal		C					
10	Fierce XLT	62.4	WG	4 oz/a		A	1	88	90	6	80
10	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
10	AMS		WG	17 lb/100 gal		C					
11	Envive	41.3	WG	3.5 oz/a		A	0	65	73	2	56
11	Abundit Edge	4.5	SL	22 fl oz/a		C					
11	AMS		WG	2 lb/a		C					

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Pest Code	GLXMA	ANGR	AMBEL	GLXMA	ANGR
Crop Code	May-30-2017	May-30-2017	May-30-2017	Jun-12-2017	Jun-12-2017
Rating Date	injury	control	control	injury	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	21 DA-A	21 DA-A	21 DA-A	10 DA-B	10 DA-B
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*	*	*	*
12	Fierce MTZ	2.64	L	16 fl oz/a	A	5	91	93	5	78
12	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
12	AMS		WG	17 lb/100 gal	C					
13	Zidua PRO	4.09	L	4.5 fl oz/a	A	0	69	71	1	72
13	Roundup PowerMax	4.5	SL	32 fl oz/a	C					
13	AMS		WG	17 lb/100 gal	C					
14	Zidua PRO	4.09	L	6 fl oz/a	A	0	78	78	3	78
14	Roundup PowerMax	4.5	SL	32 fl oz/a	C					
14	AMS		WG	17 lb/100 gal	C					
15	Untreated					0	0	0	0	0
16	Rowel	51	WG	2 oz/a	A	1	76	78	3	63
16	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
16	Warrant	3	L	3 pt/a	C					
16	AMS		WG	17 lb/100 gal	C					
17	Boundary	6.5	L	1.75 pt/a	A	0	65	70	4	79
17	Sequence	5.25	L	3.5 pt/a	C					
17	AMS		WG	8.5 lb/100 gal	C					
18	Rowel FX	40.3	WG	4 oz/a	A	2	70	88	5	67
18	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
18	Warrant	3	L	3 pt/a	C					
18	AMS		WG	17 lb/100 gal	C					
19	BroadAxe XC	7	L	25 fl oz/a	A	0	86	85	4	81
19	Metribuzin	75	WG	6 oz/a	A					
19	Flexstar GT	2.82	L	3.5 pt/a	C					
19	MSO		L	1 % v/v	C					
19	AMS		WG	8.5 lb/100 gal	C					
20	Boundary	6.5	L	1.75 pt/a	A	0	78	63	3	77
20	Flexstar GT	2.82	L	3.5 pt/a	C					
20	MSO		L	1 % v/v	C					
20	AMS		WG	8.5 lb/100 gal	C					
21	Boundary	6.5	L	1.75 pt/a	A	0	74	45	2	73
21	Prefix	5.29	L	2 pt/a	C					
21	Roundup PowerMax		L	26 fl oz/a	C					
21	AMS		WG	8.5 lb/100 gal	C					
22	Roundup PowerMax	4.5	SL	22 fl oz/a	C	0	0	0	0	0
22	AMS		WG	17 lb/100 gal	C					
23	LibertyLink soybean					0	0	0	0	0
23	Untreated									

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Pest Code					ANGR	AMBEL		ANGR	
Crop Code					GLXMA	GLXMA		GLXMA	
Rating Date					May-30-2017	May-30-2017	May-30-2017	Jun-12-2017	
Rating Type					injury	control	control	injury	
Rating Unit					percent	percent	percent	percent	
Trt-Eval Interval					21 DA-A	21 DA-A	21 DA-A	10 DA-B	
Number of Decimals					0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*	*	*
24	LibertyLink soybean					0	0	0	11
24	Liberty	2.34	L	29 fl oz/a	B				
24	Warrant Ultra	3.45	L	3 pt/a	B				
24	AMS		WG	8.5 lb/100 gal	B				
25	LibertyLink soybean					0	95	79	3
25	Boundary	6.5	L	1.5 pt/a	A				
25	Liberty	2.34	L	29 fl oz/a	C				
25	AMS		WG	8.5 lb/100 gal	C				
26	LibertyLink soybean					0	81	90	0
26	Authority MTZ	45	WG	14 oz/a	A				
26	Liberty	2.34	L	29 fl oz/a	C				
26	AMS		WG	8.5 lb/100 gal	C				
27	LibertyLink soybean					3	99	97	4
27	Fierce	76	WG	3 oz/a	A				
27	Liberty	2.34	L	29 fl oz/a	C				
27	AMS		WG	8.5 lb/100 gal	C				
28	LibertyLink soybean					1	85	90	0
28	Authority First	70	WG	6.4 oz/a	A				
28	Liberty	2.34	L	29 fl oz/a	C				
28	AMS		WG	8.5 lb/100 gal	C				
29	LibertyLink soybean					1	73	84	0
29	Authority XL	70	WG	3 oz/a	A				
29	Liberty	2.34	L	29 fl oz/a	C				
29	Warrant	3	L	3 pt/a	C				
29	AMS		WG	8.5 lb/100 gal	C				
30	LibertyLink soybean					1	99	90	2
30	Moccasin MTZ	4.5	L	42 fl oz/a	A				
30	Interline	2.34	L	29 fl oz/a	C				
30	AMS		WG	8.5 lb/100 gal	C				
31	LibertyLink soybean					2	97	97	3
31	Tripzin ZC	4	L	44 fl oz/a	A				
31	Interline	2.34	L	29 fl oz/a	C				
31	AMS		WG	8.5 lb/100 gal	C				
32	LibertyLink soybean					1	89	96	0
32	KFD 279-02	64	WG	12.5 oz/a	A				
32	Interline	2.34	L	29 fl oz/a	C				
32	AMS		WG	8.5 lb/100 gal	C				
LSD P=.05						1.6	21.2	19.8	2.9
Standard Deviation						1.2	15.1	14.1	2.1
CV						140.26	22.79	20.36	92.52

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Pest Code	CHEAL	AMBEL	ABUTH	SINAR	GLXMA
Crop Code					
Rating Date	Jun-12-2017	Jun-12-2017	Jun-12-2017	Jun-12-2017	Jun-20-2017
Rating Type	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	10 DA-B	10 DA-B	10 DA-B	10 DA-B	7 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	Valor EZ	4	L	3 fl oz/a		A	100	72	100	100	1
1	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
1	AMS		WG	17 lb/100 gal		C					
2	Rowel	51	WG	2 oz/a		A	98	65	100	100	1
2	Metribuzin	75	WG	4 oz/a		A					
2	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
2	AMS		WG	17 lb/100 gal		C					
3	Authority MTZ	45	WG	14 oz/a		A	99	53	93	100	1
3	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
3	AMS		WG	8.5 lb/100 gal		C					
4	Canopy Blend	58.3	WG	3 oz/a		A	88	46	94	100	2
4	Metribuzin	75	WG	3 oz/a		A					
4	Abundit Edge	4.5	SL	22 fl oz/a		C					
4	AMS		WG	2 lb/a		C					
5	Sonic	70	WG	3 oz/a		A	98	40	98	100	1
5	Durango DMA	4	SL	32 fl oz/a		C					
5	AMS		WG	8.5 lb/100 gal		C					
6	Sonic	70	WG	4.5 oz/a		A	100	43	100	100	2
6	Durango DMA	4	SL	32 fl oz/a		C					
6	AMS		WG	8.5 lb/100 gal		C					
7	Fierce	76	WG	3 oz/a		A	90	63	100	100	0
7	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
7	AMS		WG	17 lb/100 gal		C					
8	Warrant Ultra	3.45	L	50 fl oz/a		A	61	70	59	100	2
8	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
8	AMS		WG	17 lb/100 gal		C					
9	Authority MAXX	66	WG	5 oz/a		A	95	46	96	100	2
9	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
9	AMS		WG	8.5 lb/100 gal		C					
10	Fierce XLT	62.4	WG	4 oz/a		A	100	68	100	100	2
10	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
10	AMS		WG	17 lb/100 gal		C					
11	Envive	41.3	WG	3.5 oz/a		A	96	51	100	98	0
11	Abundit Edge	4.5	SL	22 fl oz/a		C					
11	AMS		WG	2 lb/a		C					

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Study Director: Sprague, Powell, Stiles

Pest Code		CHEAL	AMBEL	ABUTH	SINAR	GLXMA				
Crop Code										
Rating Date		Jun-12-2017	Jun-12-2017	Jun-12-2017	Jun-12-2017	Jun-20-2017				
Rating Type		control	control	control	control	injury				
Rating Unit		percent	percent	percent	percent	percent				
Trt-Eval Interval		10 DA-B	10 DA-B	10 DA-B	10 DA-B	7 DA-C				
Number of Decimals		0	0	0	0	0				
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*	*	*	*
12	Fierce MTZ	2.64	L	16 fl oz/a	A	98	71	100	100	1
12	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
12	AMS		WG	17 lb/100 gal	C					
13	Zidua PRO	4.09	L	4.5 fl oz/a	A	94	60	100	100	0
13	Roundup PowerMax	4.5	SL	32 fl oz/a	C					
13	AMS		WG	17 lb/100 gal	C					
14	Zidua PRO	4.09	L	6 fl oz/a	A	100	69	100	100	0
14	Roundup PowerMax	4.5	SL	32 fl oz/a	C					
14	AMS		WG	17 lb/100 gal	C					
15	Untreated					0	0	0	0	0
16	Rowel	51	WG	2 oz/a	A	88	60	93	100	0
16	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
16	Warrant	3	L	3 pt/a	C					
16	AMS		WG	17 lb/100 gal	C					
17	Boundary	6.5	L	1.75 pt/a	A	75	56	93	100	8
17	Sequence	5.25	L	3.5 pt/a	C					
17	AMS		WG	8.5 lb/100 gal	C					
18	Rowel FX	40.3	WG	4 oz/a	A	98	66	100	100	0
18	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
18	Warrant	3	L	3 pt/a	C					
18	AMS		WG	17 lb/100 gal	C					
19	BroadAxe XC	7	L	25 fl oz/a	A	98	72	96	100	21
19	Metribuzin	75	WG	6 oz/a	A					
19	Flexstar GT	2.82	L	3.5 pt/a	C					
19	MSO		L	1 % v/v	C					
19	AMS		WG	8.5 lb/100 gal	C					
20	Boundary	6.5	L	1.75 pt/a	A	57	45	78	100	21
20	Flexstar GT	2.82	L	3.5 pt/a	C					
20	MSO		L	1 % v/v	C					
20	AMS		WG	8.5 lb/100 gal	C					
21	Boundary	6.5	L	1.75 pt/a	A	71	36	90	99	24
21	Prefix	5.29	L	2 pt/a	C					
21	Roundup PowerMax		L	26 fl oz/a	C					
21	AMS		WG	8.5 lb/100 gal	C					
22	Roundup PowerMax	4.5	SL	22 fl oz/a	C	0	0	0	0	2
22	AMS		WG	17 lb/100 gal	C					
23	LibertyLink soybean					0	0	0	0	0
23	Untreated									

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Pest Code					CHEAL	AMBEL	ABUTH	SINAR	GLXMA	
Crop Code					Jun-12-2017	Jun-12-2017	Jun-12-2017	Jun-12-2017	Jun-20-2017	
Rating Date					control	control	control	control	injury	
Rating Type					percent	percent	percent	percent	percent	
Rating Unit					10 DA-B	10 DA-B	10 DA-B	10 DA-B	7 DA-C	
Trt-Eval Interval					0	0	0	0	0	
Number of Decimals					0	0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Code	*	*	*	*	*
24	LibertyLink soybean					97	96	100	100	4
24	Liberty	2.34	L	29 fl oz/a	B					
24	Warrant Ultra	3.45	L	3 pt/a	B					
24	AMS		WG	8.5 lb/100 gal	B					
25	LibertyLink soybean					84	65	83	100	2
25	Boundary	6.5	L	1.5 pt/a	A					
25	Liberty	2.34	L	29 fl oz/a	C					
25	AMS		WG	8.5 lb/100 gal	C					
26	LibertyLink soybean					100	65	100	100	2
26	Authority MTZ	45	WG	14 oz/a	A					
26	Liberty	2.34	L	29 fl oz/a	C					
26	AMS		WG	8.5 lb/100 gal	C					
27	LibertyLink soybean					100	82	99	100	2
27	Fierce	76	WG	3 oz/a	A					
27	Liberty	2.34	L	29 fl oz/a	C					
27	AMS		WG	8.5 lb/100 gal	C					
28	LibertyLink soybean					100	70	100	100	2
28	Authority First	70	WG	6.4 oz/a	A					
28	Liberty	2.34	L	29 fl oz/a	C					
28	AMS		WG	8.5 lb/100 gal	C					
29	LibertyLink soybean					96	62	98	100	3
29	Authority XL	70	WG	3 oz/a	A					
29	Liberty	2.34	L	29 fl oz/a	C					
29	Warrant	3	L	3 pt/a	C					
29	AMS		WG	8.5 lb/100 gal	C					
30	LibertyLink soybean					89	80	98	100	1
30	Moccasin MTZ	4.5	L	42 fl oz/a	A					
30	Interline	2.34	L	29 fl oz/a	C					
30	AMS		WG	8.5 lb/100 gal	C					
31	LibertyLink soybean					100	83	100	100	1
31	Tripzin ZC	4	L	44 fl oz/a	A					
31	Interline	2.34	L	29 fl oz/a	C					
31	AMS		WG	8.5 lb/100 gal	C					
32	LibertyLink soybean					96	82	100	100	1
32	KFD 279-02	64	WG	12.5 oz/a	A					
32	Interline	2.34	L	29 fl oz/a	C					
32	AMS		WG	8.5 lb/100 gal	C					
LSD P=.05						16.5	17.9	7.9	1.4	2.6
Standard Deviation						11.7	12.7	5.6	1.0	1.8
CV						14.09	22.2	6.53	1.08	55.37

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Study Director: Sprague, Powell, Stiles

Pest Code					ANGR	CHEAL	AMBEL	ABUTH	GLXMA		
Crop Code					Jun-20-2017	Jun-20-2017	Jun-20-2017	Jun-20-2017	Jun-27-2017		
Rating Date					control	control	control	control	injury		
Rating Type					percent	percent	percent	percent	percent		
Rating Unit					7 DA-C	7 DA-C	7 DA-C	7 DA-C	14 DA-C		
Trt-Eval Interval					0	0	0	0	0		
Number of Decimals											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	Valor EZ	4	L	3 fl oz/a		A	91	100	79	100	0
1	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
1	AMS		WG	17 lb/100 gal		C					
2	Rowel	51	WG	2 oz/a		A	94	100	77	100	0
2	Metribuzin	75	WG	4 oz/a		A					
2	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
2	AMS		WG	17 lb/100 gal		C					
3	Authority MTZ	45	WG	14 oz/a		A	94	100	66	100	2
3	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
3	AMS		WG	8.5 lb/100 gal		C					
4	Canopy Blend	58.3	WG	3 oz/a		A	89	100	64	96	3
4	Metribuzin	75	WG	3 oz/a		A					
4	Abundit Edge	4.5	SL	22 fl oz/a		C					
4	AMS		WG	2 lb/a		C					
5	Sonic	70	WG	3 oz/a		A	91	97	63	100	2
5	Durango DMA	4	SL	32 fl oz/a		C					
5	AMS		WG	8.5 lb/100 gal		C					
6	Sonic	70	WG	4.5 oz/a		A	91	100	62	100	2
6	Durango DMA	4	SL	32 fl oz/a		C					
6	AMS		WG	8.5 lb/100 gal		C					
7	Fierce	76	WG	3 oz/a		A	97	97	68	100	0
7	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
7	AMS		WG	17 lb/100 gal		C					
8	Warrant Ultra	3.45	L	50 fl oz/a		A	98	87	87	89	0
8	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
8	AMS		WG	17 lb/100 gal		C					
9	Authority MAXX	66	WG	5 oz/a		A	95	100	69	100	3
9	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
9	AMS		WG	8.5 lb/100 gal		C					
10	Fierce XLT	62.4	WG	4 oz/a		A	98	100	77	100	1
10	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
10	AMS		WG	17 lb/100 gal		C					
11	Envive	41.3	WG	3.5 oz/a		A	92	100	63	100	1
11	Abundit Edge	4.5	SL	22 fl oz/a		C					
11	AMS		WG	2 lb/a		C					

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code					ANGR	CHEAL	AMBEL	ABUTH	GLXMA	
Crop Code					Jun-20-2017	Jun-20-2017	Jun-20-2017	Jun-20-2017	Jun-27-2017	
Rating Date					control	control	control	control	injury	
Rating Type					percent	percent	percent	percent	percent	
Rating Unit					7 DA-C	7 DA-C	7 DA-C	7 DA-C	14 DA-C	
Trt-Eval Interval					0	0	0	0	0	
Number of Decimals					0	0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*	*	*	*
12	Fierce MTZ	2.64	L	16 fl oz/a	A	97	100	78	100	0
12	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
12	AMS		WG	17 lb/100 gal	C					
13	Zidua PRO	4.09	L	4.5 fl oz/a	A	97	100	70	100	0
13	Roundup PowerMax	4.5	SL	32 fl oz/a	C					
13	AMS		WG	17 lb/100 gal	C					
14	Zidua PRO	4.09	L	6 fl oz/a	A	98	100	85	100	0
14	Roundup PowerMax	4.5	SL	32 fl oz/a	C					
14	AMS		WG	17 lb/100 gal	C					
15	Untreated					0	0	0	0	0
16	Rowel	51	WG	2 oz/a	A	88	92	69	100	3
16	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
16	Warrant	3	L	3 pt/a	C					
16	AMS		WG	17 lb/100 gal	C					
17	Boundary	6.5	L	1.75 pt/a	A	99	95	73	100	11
17	Sequence	5.25	L	3.5 pt/a	C					
17	AMS		WG	8.5 lb/100 gal	C					
18	Rowel FX	40.3	WG	4 oz/a	A	93	97	77	100	8
18	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
18	Warrant	3	L	3 pt/a	C					
18	AMS		WG	17 lb/100 gal	C					
19	BroadAxe XC	7	L	25 fl oz/a	A	99	100	100	100	11
19	Metribuzin	75	WG	6 oz/a	A					
19	Flexstar GT	2.82	L	3.5 pt/a	C					
19	MSO		L	1 % v/v	C					
19	AMS		WG	8.5 lb/100 gal	C					
20	Boundary	6.5	L	1.75 pt/a	A	98	83	97	100	13
20	Flexstar GT	2.82	L	3.5 pt/a	C					
20	MSO		L	1 % v/v	C					
20	AMS		WG	8.5 lb/100 gal	C					
21	Boundary	6.5	L	1.75 pt/a	A	98	88	91	95	15
21	Prefix	5.29	L	2 pt/a	C					
21	Roundup PowerMax		L	26 fl oz/a	C					
21	AMS		WG	8.5 lb/100 gal	C					
22	Roundup PowerMax	4.5	SL	22 fl oz/a	C	86	86	56	96	4
22	AMS		WG	17 lb/100 gal	C					
23	LibertyLink soybean					0	0	0	0	0
23	Untreated									

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code					ANGR	CHEAL	AMBEL	ABUTH	GLXMA
Crop Code					Jun-20-2017	Jun-20-2017	Jun-20-2017	Jun-20-2017	Jun-27-2017
Rating Date					control	control	control	control	injury
Rating Type					percent	percent	percent	percent	percent
Rating Unit					7 DA-C	7 DA-C	7 DA-C	7 DA-C	14 DA-C
Trt-Eval Interval					0	0	0	0	0
Number of Decimals									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*	*	*
24	LibertyLink soybean					80	84	94	98
24	Liberty	2.34	L	29 fl oz/a	B				
24	Warrant Ultra	3.45	L	3 pt/a	B				
24	AMS		WG	8.5 lb/100 gal	B				
25	LibertyLink soybean					95	95	95	100
25	Boundary	6.5	L	1.5 pt/a	A				
25	Liberty	2.34	L	29 fl oz/a	C				
25	AMS		WG	8.5 lb/100 gal	C				
26	LibertyLink soybean					70	100	90	100
26	Authority MTZ	45	WG	14 oz/a	A				
26	Liberty	2.34	L	29 fl oz/a	C				
26	AMS		WG	8.5 lb/100 gal	C				
27	LibertyLink soybean					97	100	99	100
27	Fierce	76	WG	3 oz/a	A				
27	Liberty	2.34	L	29 fl oz/a	C				
27	AMS		WG	8.5 lb/100 gal	C				
28	LibertyLink soybean					74	100	95	100
28	Authority First	70	WG	6.4 oz/a	A				
28	Liberty	2.34	L	29 fl oz/a	C				
28	AMS		WG	8.5 lb/100 gal	C				
29	LibertyLink soybean					72	100	92	100
29	Authority XL	70	WG	3 oz/a	A				
29	Liberty	2.34	L	29 fl oz/a	C				
29	Warrant	3	L	3 pt/a	C				
29	AMS		WG	8.5 lb/100 gal	C				
30	LibertyLink soybean					99	88	98	100
30	Moccasin MTZ	4.5	L	42 fl oz/a	A				
30	Interline	2.34	L	29 fl oz/a	C				
30	AMS		WG	8.5 lb/100 gal	C				
31	LibertyLink soybean					93	100	99	100
31	Tripzin ZC	4	L	44 fl oz/a	A				
31	Interline	2.34	L	29 fl oz/a	C				
31	AMS		WG	8.5 lb/100 gal	C				
32	LibertyLink soybean					84	98	97	100
32	KFD 279-02	64	WG	12.5 oz/a	A				
32	Interline	2.34	L	29 fl oz/a	C				
32	AMS		WG	8.5 lb/100 gal	C				
LSD	P=.05					7.1	7.0	12.6	4.2
Standard Deviation						5.1	5.0	9.0	3.0
CV						5.91	5.52	11.82	3.21
									64.95

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code					ANGR	CHEAL	AMBEL	ABUTH	SINAR		
Crop Code					Jun-27-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017		
Rating Date					control	control	control	control	control		
Rating Type					percent	percent	percent	percent	percent		
Rating Unit					14 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C		
Trt-Eval Interval					0	0	0	0	0		
Number of Decimals					0	0	0	0	0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	Valor EZ	4	L	3 fl oz/a		A	100	100	100	100	100
1	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
1	AMS		WG	17 lb/100 gal		C					
2	Rowel	51	WG	2 oz/a		A	100	100	100	100	100
2	Metribuzin	75	WG	4 oz/a		A					
2	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
2	AMS		WG	17 lb/100 gal		C					
3	Authority MTZ	45	WG	14 oz/a		A	99	100	99	100	100
3	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
3	AMS		WG	8.5 lb/100 gal		C					
4	Canopy Blend	58.3	WG	3 oz/a		A	93	95	99	100	100
4	Metribuzin	75	WG	3 oz/a		A					
4	Abundit Edge	4.5	SL	22 fl oz/a		C					
4	AMS		WG	2 lb/a		C					
5	Sonic	70	WG	3 oz/a		A	98	100	99	100	100
5	Durango DMA	4	SL	32 fl oz/a		C					
5	AMS		WG	8.5 lb/100 gal		C					
6	Sonic	70	WG	4.5 oz/a		A	97	100	98	100	100
6	Durango DMA	4	SL	32 fl oz/a		C					
6	AMS		WG	8.5 lb/100 gal		C					
7	Fierce	76	WG	3 oz/a		A	100	100	100	100	100
7	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
7	AMS		WG	17 lb/100 gal		C					
8	Warrant Ultra	3.45	L	50 fl oz/a		A	100	98	100	100	100
8	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
8	AMS		WG	17 lb/100 gal		C					
9	Authority MAXX	66	WG	5 oz/a		A	98	100	100	100	100
9	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
9	AMS		WG	8.5 lb/100 gal		C					
10	Fierce XLT	62.4	WG	4 oz/a		A	100	100	100	100	100
10	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
10	AMS		WG	17 lb/100 gal		C					
11	Envive	41.3	WG	3.5 oz/a		A	100	100	99	100	100
11	Abundit Edge	4.5	SL	22 fl oz/a		C					
11	AMS		WG	2 lb/a		C					

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR
Crop Code					
Rating Date	Jun-27-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
12	Fierce MTZ	2.64	L	16 fl oz/a		A	100	100	100	100	100
12	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
12	AMS		WG	17 lb/100 gal		C					
13	Zidua PRO	4.09	L	4.5 fl oz/a		A	99	100	100	100	100
13	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
13	AMS		WG	17 lb/100 gal		C					
14	Zidua PRO	4.09	L	6 fl oz/a		A	100	100	100	100	100
14	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
14	AMS		WG	17 lb/100 gal		C					
15	Untreated						0	0	0	0	0
16	Rowel	51	WG	2 oz/a		A	99	97	100	100	100
16	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
16	Warrant	3	L	3 pt/a		C					
16	AMS		WG	17 lb/100 gal		C					
17	Boundary	6.5	L	1.75 pt/a		A	100	97	99	99	100
17	Sequence	5.25	L	3.5 pt/a		C					
17	AMS		WG	8.5 lb/100 gal		C					
18	Rowel FX	40.3	WG	4 oz/a		A	100	99	99	100	100
18	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
18	Warrant	3	L	3 pt/a		C					
18	AMS		WG	17 lb/100 gal		C					
19	BroadAxe XC	7	L	25 fl oz/a		A	100	100	100	100	100
19	Metribuzin	75	WG	6 oz/a		A					
19	Flexstar GT	2.82	L	3.5 pt/a		C					
19	MSO		L	1 % v/v		C					
19	AMS		WG	8.5 lb/100 gal		C					
20	Boundary	6.5	L	1.75 pt/a		A	100	91	100	98	100
20	Flexstar GT	2.82	L	3.5 pt/a		C					
20	MSO		L	1 % v/v		C					
20	AMS		WG	8.5 lb/100 gal		C					
21	Boundary	6.5	L	1.75 pt/a		A	98	98	98	100	100
21	Prefix	5.29	L	2 pt/a		C					
21	Roundup PowerMax		L	26 fl oz/a		C					
21	AMS		WG	8.5 lb/100 gal		C					
22	Roundup PowerMax	4.5	SL	22 fl oz/a		C	94	93	95	100	100
22	AMS		WG	17 lb/100 gal		C					
23	LibertyLink soybean						0	0	0	0	0
23	Untreated										

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code					ANGR	CHEAL	AMBEL	ABUTH	SINAR	
Crop Code					Jun-27-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017	
Rating Date					control	control	control	control	control	
Rating Type					percent	percent	percent	percent	percent	
Rating Unit					14 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C	
Trt-Eval Interval					0	0	0	0	0	
Number of Decimals					0	0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*	*	*	*
24	LibertyLink soybean					74	72	85	98	100
24	Liberty	2.34	L	29 fl oz/a	B					
24	Warrant Ultra	3.45	L	3 pt/a	B					
24	AMS		WG	8.5 lb/100 gal	B					
25	LibertyLink soybean					98	96	99	100	100
25	Boundary	6.5	L	1.5 pt/a	A					
25	Liberty	2.34	L	29 fl oz/a	C					
25	AMS		WG	8.5 lb/100 gal	C					
26	LibertyLink soybean					94	100	97	100	100
26	Authority MTZ	45	WG	14 oz/a	A					
26	Liberty	2.34	L	29 fl oz/a	C					
26	AMS		WG	8.5 lb/100 gal	C					
27	LibertyLink soybean					99	100	100	100	100
27	Fierce	76	WG	3 oz/a	A					
27	Liberty	2.34	L	29 fl oz/a	C					
27	AMS		WG	8.5 lb/100 gal	C					
28	LibertyLink soybean					97	100	99	100	100
28	Authority First	70	WG	6.4 oz/a	A					
28	Liberty	2.34	L	29 fl oz/a	C					
28	AMS		WG	8.5 lb/100 gal	C					
29	LibertyLink soybean					98	100	100	100	100
29	Authority XL	70	WG	3 oz/a	A					
29	Liberty	2.34	L	29 fl oz/a	C					
29	Warrant	3	L	3 pt/a	C					
29	AMS		WG	8.5 lb/100 gal	C					
30	LibertyLink soybean					97	88	98	99	100
30	Moccasin MTZ	4.5	L	42 fl oz/a	A					
30	Interline	2.34	L	29 fl oz/a	C					
30	AMS		WG	8.5 lb/100 gal	C					
31	LibertyLink soybean					97	98	100	100	100
31	Tripzin ZC	4	L	44 fl oz/a	A					
31	Interline	2.34	L	29 fl oz/a	C					
31	AMS		WG	8.5 lb/100 gal	C					
32	LibertyLink soybean					94	98	99	100	100
32	KFD 279-02	64	WG	12.5 oz/a	A					
32	Interline	2.34	L	29 fl oz/a	C					
32	AMS		WG	8.5 lb/100 gal	C					
LSD	P=.05					2.9	4.1	2.9	1.6	.
Standard Deviation						2.1	2.9	2.1	1.2	0.0
CV						2.29	3.23	2.24	1.24	0.0

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR
Crop Code	GLXMA				
Rating Date	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	Valor EZ	4	L	3 fl oz/a		A	0	91	100	99	100	100
1	Roundup PowerMax	4.5	SL	22 fl oz/a		C						
1	AMS		WG	17 lb/100 gal		C						
2	Rowel	51	WG	2 oz/a		A	0	88	100	100	100	100
2	Metribuzin	75	WG	4 oz/a		A						
2	Roundup PowerMax	4.5	SL	22 fl oz/a		C						
2	AMS		WG	17 lb/100 gal		C						
3	Authority MTZ	45	WG	14 oz/a		A	0	83	100	88	100	100
3	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
3	AMS		WG	8.5 lb/100 gal		C						
4	Canopy Blend	58.3	WG	3 oz/a		A	0	68	100	90	97	100
4	Metribuzin	75	WG	3 oz/a		A						
4	Abundit Edge	4.5	SL	22 fl oz/a		C						
4	AMS		WG	2 lb/a		C						
5	Sonic	70	WG	3 oz/a		A	0	75	100	90	100	100
5	Durango DMA	4	SL	32 fl oz/a		C						
5	AMS		WG	8.5 lb/100 gal		C						
6	Sonic	70	WG	4.5 oz/a		A	0	81	100	90	100	100
6	Durango DMA	4	SL	32 fl oz/a		C						
6	AMS		WG	8.5 lb/100 gal		C						
7	Fierce	76	WG	3 oz/a		A	0	97	100	99	98	100
7	Roundup PowerMax	4.5	SL	22 fl oz/a		C						
7	AMS		WG	17 lb/100 gal		C						
8	Warrant Ultra	3.45	L	50 fl oz/a		A	0	100	100	100	94	100
8	Roundup PowerMax	4.5	SL	22 fl oz/a		C						
8	AMS		WG	17 lb/100 gal		C						
9	Authority MAXX	66	WG	5 oz/a		A	0	79	100	97	100	100
9	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
9	AMS		WG	8.5 lb/100 gal		C						
10	Fierce XLT	62.4	WG	4 oz/a		A	0	93	100	97	100	100
10	Roundup PowerMax	4.5	SL	22 fl oz/a		C						
10	AMS		WG	17 lb/100 gal		C						
11	Envive	41.3	WG	3.5 oz/a		A	1	84	100	99	100	100
11	Abundit Edge	4.5	SL	22 fl oz/a		C						
11	AMS		WG	2 lb/a		C						

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR
Crop Code	GLXMA				
Rating Date	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
12	Fierce MTZ	2.64	L	16 fl oz/a		A	0	91	100	99	100	100
12	Roundup PowerMax	4.5	SL	22 fl oz/a		C						
12	AMS		WG	17 lb/100 gal		C						
13	Zidua PRO	4.09	L	4.5 fl oz/a		A	0	98	100	98	100	100
13	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
13	AMS		WG	17 lb/100 gal		C						
14	Zidua PRO	4.09	L	6 fl oz/a		A	0	100	100	100	100	100
14	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
14	AMS		WG	17 lb/100 gal		C						
15	Untreated						0	0	0	0	0	0
16	Rowel	51	WG	2 oz/a		A	1	100	100	99	100	100
16	Roundup PowerMax	4.5	SL	22 fl oz/a		C						
16	Warrant	3	L	3 pt/a		C						
16	AMS		WG	17 lb/100 gal		C						
17	Boundary	6.5	L	1.75 pt/a		A	2	100	100	98	98	100
17	Sequence	5.25	L	3.5 pt/a		C						
17	AMS		WG	8.5 lb/100 gal		C						
18	Rowel FX	40.3	WG	4 oz/a		A	2	100	100	100	100	100
18	Roundup PowerMax	4.5	SL	22 fl oz/a		C						
18	Warrant	3	L	3 pt/a		C						
18	AMS		WG	17 lb/100 gal		C						
19	BroadAxe XC	7	L	25 fl oz/a		A	0	100	100	100	100	100
19	Metribuzin	75	WG	6 oz/a		A						
19	Flexstar GT	2.82	L	3.5 pt/a		C						
19	MSO		L	1 % v/v		C						
19	AMS		WG	8.5 lb/100 gal		C						
20	Boundary	6.5	L	1.75 pt/a		A	0	96	89	100	95	100
20	Flexstar GT	2.82	L	3.5 pt/a		C						
20	MSO		L	1 % v/v		C						
20	AMS		WG	8.5 lb/100 gal		C						
21	Boundary	6.5	L	1.75 pt/a		A	1	98	98	99	95	100
21	Prefix	5.29	L	2 pt/a		C						
21	Roundup PowerMax		L	26 fl oz/a		C						
21	AMS		WG	8.5 lb/100 gal		C						
22	Roundup PowerMax	4.5	SL	22 fl oz/a		C	0	68	75	88	95	100
22	AMS		WG	17 lb/100 gal		C						
23	LibertyLink soybean						0	0	0	0	0	0
23	Untreated											

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code					ANGR	CHEAL	AMBEL	ABUTH	SINAR			
Crop Code				GLXMA								
Rating Date				Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017			
Rating Type				injury	control	control	control	control	control			
Rating Unit				percent	percent	percent	percent	percent	percent			
Trt-Eval Interval				28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C			
Number of Decimals				0	0	0	0	0	0			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
24	LibertyLink soybean						0	54	56	79	100	100
24	Liberty	2.34	L	29	fl oz/a	B						
24	Warrant Ultra	3.45	L	3	pt/a	B						
24	AMS		WG	8.5	lb/100 gal	B						
25	LibertyLink soybean						0	96	94	94	98	100
25	Boundary	6.5	L	1.5	pt/a	A						
25	Liberty	2.34	L	29	fl oz/a	C						
25	AMS		WG	8.5	lb/100 gal	C						
26	LibertyLink soybean						0	71	100	95	95	100
26	Authority MTZ	45	WG	14	oz/a	A						
26	Liberty	2.34	L	29	fl oz/a	C						
26	AMS		WG	8.5	lb/100 gal	C						
27	LibertyLink soybean						0	100	100	99	100	100
27	Fierce	76	WG	3	oz/a	A						
27	Liberty	2.34	L	29	fl oz/a	C						
27	AMS		WG	8.5	lb/100 gal	C						
28	LibertyLink soybean						0	80	100	94	100	100
28	Authority First	70	WG	6.4	oz/a	A						
28	Liberty	2.34	L	29	fl oz/a	C						
28	AMS		WG	8.5	lb/100 gal	C						
29	LibertyLink soybean						1	93	96	96	100	100
29	Authority XL	70	WG	3	oz/a	A						
29	Liberty	2.34	L	29	fl oz/a	C						
29	Warrant	3	L	3	pt/a	C						
29	AMS		WG	8.5	lb/100 gal	C						
30	LibertyLink soybean						0	99	78	95	100	100
30	Moccasin MTZ	4.5	L	42	fl oz/a	A						
30	Interline	2.34	L	29	fl oz/a	C						
30	AMS		WG	8.5	lb/100 gal	C						
31	LibertyLink soybean						1	86	94	99	100	100
31	Tripzin ZC	4	L	44	fl oz/a	A						
31	Interline	2.34	L	29	fl oz/a	C						
31	AMS		WG	8.5	lb/100 gal	C						
32	LibertyLink soybean						0	85	93	96	100	100
32	KFD 279-02	64	WG	12.5	oz/a	A						
32	Interline	2.34	L	29	fl oz/a	C						
32	AMS		WG	8.5	lb/100 gal	C						
LSD P=.05							0.8	7.5	6.7	6.3	4.6	.
Standard Deviation							0.6	5.4	4.7	4.5	3.3	0.0
CV							249.54	6.48	5.28	5.02	3.56	0.0

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR
Crop Code	GLXMA				
Rating Date	Aug-8-2017	Aug-8-2017	Aug-8-2017	Aug-8-2017	Aug-8-2017
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	56 DA-C	56 DA-C	56 DA-C	56 DA-C	56 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	Valor EZ	4	L	3 fl oz/a		A	0	95	100	98	100	100
1	Roundup PowerMax	4.5	SL	22 fl oz/a		C						
1	AMS		WG	17 lb/100 gal		C						
2	Rowel	51	WG	2 oz/a		A	0	88	100	100	100	100
2	Metribuzin	75	WG	4 oz/a		A						
2	Roundup PowerMax	4.5	SL	22 fl oz/a		C						
2	AMS		WG	17 lb/100 gal		C						
3	Authority MTZ	45	WG	14 oz/a		A	0	84	100	84	100	100
3	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
3	AMS		WG	8.5 lb/100 gal		C						
4	Canopy Blend	58.3	WG	3 oz/a		A	0	71	100	79	97	100
4	Metribuzin	75	WG	3 oz/a		A						
4	Abundit Edge	4.5	SL	22 fl oz/a		C						
4	AMS		WG	2 lb/a		C						
5	Sonic	70	WG	3 oz/a		A	0	79	100	83	100	100
5	Durango DMA	4	SL	32 fl oz/a		C						
5	AMS		WG	8.5 lb/100 gal		C						
6	Sonic	70	WG	4.5 oz/a		A	0	84	100	86	100	100
6	Durango DMA	4	SL	32 fl oz/a		C						
6	AMS		WG	8.5 lb/100 gal		C						
7	Fierce	76	WG	3 oz/a		A	0	97	100	99	98	100
7	Roundup PowerMax	4.5	SL	22 fl oz/a		C						
7	AMS		WG	17 lb/100 gal		C						
8	Warrant Ultra	3.45	L	50 fl oz/a		A	0	100	100	100	94	100
8	Roundup PowerMax	4.5	SL	22 fl oz/a		C						
8	AMS		WG	17 lb/100 gal		C						
9	Authority MAXX	66	WG	5 oz/a		A	0	79	100	89	100	100
9	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
9	AMS		WG	8.5 lb/100 gal		C						
10	Fierce XLT	62.4	WG	4 oz/a		A	0	95	100	95	100	100
10	Roundup PowerMax	4.5	SL	22 fl oz/a		C						
10	AMS		WG	17 lb/100 gal		C						
11	Envive	41.3	WG	3.5 oz/a		A	0	87	100	94	100	100
11	Abundit Edge	4.5	SL	22 fl oz/a		C						
11	AMS		WG	2 lb/a		C						

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR
Crop Code	GLXMA				
Rating Date	Aug-8-2017	Aug-8-2017	Aug-8-2017	Aug-8-2017	Aug-8-2017
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	56 DA-C	56 DA-C	56 DA-C	56 DA-C	56 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*	*	*	*	*
12	Fierce MTZ	2.64	L	16 fl oz/a	A	0	94	100	99	100	100
12	Roundup PowerMax	4.5	SL	22 fl oz/a	C						
12	AMS		WG	17 lb/100 gal	C						
13	Zidua PRO	4.09	L	4.5 fl oz/a	A	0	99	100	95	100	100
13	Roundup PowerMax	4.5	SL	32 fl oz/a	C						
13	AMS		WG	17 lb/100 gal	C						
14	Zidua PRO	4.09	L	6 fl oz/a	A	0	100	100	99	100	100
14	Roundup PowerMax	4.5	SL	32 fl oz/a	C						
14	AMS		WG	17 lb/100 gal	C						
15	Untreated					0	0	0	0	0	0
16	Rowel	51	WG	2 oz/a	A	0	98	97	99	100	100
16	Roundup PowerMax	4.5	SL	22 fl oz/a	C						
16	Warrant	3	L	3 pt/a	C						
16	AMS		WG	17 lb/100 gal	C						
17	Boundary	6.5	L	1.75 pt/a	A	0	100	100	96	98	100
17	Sequence	5.25	L	3.5 pt/a	C						
17	AMS		WG	8.5 lb/100 gal	C						
18	Rowel FX	40.3	WG	4 oz/a	A	0	99	100	100	100	100
18	Roundup PowerMax	4.5	SL	22 fl oz/a	C						
18	Warrant	3	L	3 pt/a	C						
18	AMS		WG	17 lb/100 gal	C						
19	BroadAxe XC	7	L	25 fl oz/a	A	0	100	100	100	100	100
19	Metribuzin	75	WG	6 oz/a	A						
19	Flexstar GT	2.82	L	3.5 pt/a	C						
19	MSO		L	1 % v/v	C						
19	AMS		WG	8.5 lb/100 gal	C						
20	Boundary	6.5	L	1.75 pt/a	A	0	95	82	96	95	100
20	Flexstar GT	2.82	L	3.5 pt/a	C						
20	MSO		L	1 % v/v	C						
20	AMS		WG	8.5 lb/100 gal	C						
21	Boundary	6.5	L	1.75 pt/a	A	0	100	97	97	96	100
21	Prefix	5.29	L	2 pt/a	C						
21	Roundup PowerMax		L	26 fl oz/a	C						
21	AMS		WG	8.5 lb/100 gal	C						
22	Roundup PowerMax	4.5	SL	22 fl oz/a	C	0	68	67	68	95	100
22	AMS		WG	17 lb/100 gal	C						
23	LibertyLink soybean					0	0	0	0	0	0
23	Untreated										

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR
Crop Code	GLXMA				
Rating Date	Aug-8-2017	Aug-8-2017	Aug-8-2017	Aug-8-2017	Aug-8-2017
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	56 DA-C	56 DA-C	56 DA-C	56 DA-C	56 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
24	LibertyLink soybean						0	51	51	63	100	100
24	Liberty	2.34	L	29	fl oz/a	B						
24	Warrant Ultra	3.45	L	3	pt/a	B						
24	AMS		WG	8.5	lb/100 gal	B						
25	LibertyLink soybean						0	94	89	90	99	100
25	Boundary	6.5	L	1.5	pt/a	A						
25	Liberty	2.34	L	29	fl oz/a	C						
25	AMS		WG	8.5	lb/100 gal	C						
26	LibertyLink soybean						0	76	100	91	96	100
26	Authority MTZ	45	WG	14	oz/a	A						
26	Liberty	2.34	L	29	fl oz/a	C						
26	AMS		WG	8.5	lb/100 gal	C						
27	LibertyLink soybean						0	100	100	99	100	100
27	Fierce	76	WG	3	oz/a	A						
27	Liberty	2.34	L	29	fl oz/a	C						
27	AMS		WG	8.5	lb/100 gal	C						
28	LibertyLink soybean						0	86	100	96	100	100
28	Authority First	70	WG	6.4	oz/a	A						
28	Liberty	2.34	L	29	fl oz/a	C						
28	AMS		WG	8.5	lb/100 gal	C						
29	LibertyLink soybean						0	96	100	98	100	100
29	Authority XL	70	WG	3	oz/a	A						
29	Liberty	2.34	L	29	fl oz/a	C						
29	Warrant	3	L	3	pt/a	C						
29	AMS		WG	8.5	lb/100 gal	C						
30	LibertyLink soybean						0	100	66	91	100	100
30	Moccasin MTZ	4.5	L	42	fl oz/a	A						
30	Interline	2.34	L	29	fl oz/a	C						
30	AMS		WG	8.5	lb/100 gal	C						
31	LibertyLink soybean						0	91	95	95	100	100
31	Tripzin ZC	4	L	44	fl oz/a	A						
31	Interline	2.34	L	29	fl oz/a	C						
31	AMS		WG	8.5	lb/100 gal	C						
32	LibertyLink soybean						0	88	91	94	100	100
32	KFD 279-02	64	WG	12.5	oz/a	A						
32	Interline	2.34	L	29	fl oz/a	C						
32	AMS		WG	8.5	lb/100 gal	C						
LSD	P=.05						.	6.7	8.0	7.8	4.2	.
Standard Deviation							0.0	4.8	5.7	5.5	3.0	0.0
CV							0.0	5.68	6.42	6.39	3.25	0.0

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code			
Crop Code		GLXMA	GLXMA
Rating Date		Oct-18-2017	Oct-18-2017
Rating Type		moisture	yield
Rating Unit		percent	bu/acre
Trt-Eval Interval		127 DA-C	at 13% M
Number of Decimals		1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*
1	Valor EZ	4	L	3 fl oz/a		A	11.8	56.4
1	Roundup PowerMax	4.5	SL	22 fl oz/a		C		
1	AMS		WG	17 lb/100 gal		C		
2	Rowel	51	WG	2 oz/a		A	11.9	48.6
2	Metribuzin	75	WG	4 oz/a		A		
2	Roundup PowerMax	4.5	SL	22 fl oz/a		C		
2	AMS		WG	17 lb/100 gal		C		
3	Authority MTZ	45	WG	14 oz/a		A	11.9	49.2
3	Roundup PowerMax	4.5	SL	32 fl oz/a		C		
3	AMS		WG	8.5 lb/100 gal		C		
4	Canopy Blend	58.3	WG	3 oz/a		A	11.9	55.4
4	Metribuzin	75	WG	3 oz/a		A		
4	Abundit Edge	4.5	SL	22 fl oz/a		C		
4	AMS		WG	2 lb/a		C		
5	Sonic	70	WG	3 oz/a		A	11.8	52.7
5	Durango DMA	4	SL	32 fl oz/a		C		
5	AMS		WG	8.5 lb/100 gal		C		
6	Sonic	70	WG	4.5 oz/a		A	11.8	55.9
6	Durango DMA	4	SL	32 fl oz/a		C		
6	AMS		WG	8.5 lb/100 gal		C		
7	Fierce	76	WG	3 oz/a		A	11.7	56.7
7	Roundup PowerMax	4.5	SL	22 fl oz/a		C		
7	AMS		WG	17 lb/100 gal		C		
8	Warrant Ultra	3.45	L	50 fl oz/a		A	11.7	51.0
8	Roundup PowerMax	4.5	SL	22 fl oz/a		C		
8	AMS		WG	17 lb/100 gal		C		
9	Authority MAXX	66	WG	5 oz/a		A	11.7	49.2
9	Roundup PowerMax	4.5	SL	32 fl oz/a		C		
9	AMS		WG	8.5 lb/100 gal		C		
10	Fierce XLT	62.4	WG	4 oz/a		A	11.9	55.0
10	Roundup PowerMax	4.5	SL	22 fl oz/a		C		
10	AMS		WG	17 lb/100 gal		C		
11	Envive	41.3	WG	3.5 oz/a		A	11.7	54.0
11	Abundit Edge	4.5	SL	22 fl oz/a		C		
11	AMS		WG	2 lb/a		C		

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code			
Crop Code		GLXMA	GLXMA
Rating Date		Oct-18-2017	Oct-18-2017
Rating Type		moisture	yield
Rating Unit		percent	bu/acre
Trt-Eval Interval		127 DA-C	at 13% M
Number of Decimals		1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*
12	Fierce MTZ	2.64	L	16 fl oz/a	A	11.6	58.2
12	Roundup PowerMax	4.5	SL	22 fl oz/a	C		
12	AMS		WG	17 lb/100 gal	C		
13	Zidua PRO	4.09	L	4.5 fl oz/a	A	11.7	55.0
13	Roundup PowerMax	4.5	SL	32 fl oz/a	C		
13	AMS		WG	17 lb/100 gal	C		
14	Zidua PRO	4.09	L	6 fl oz/a	A	11.7	52.5
14	Roundup PowerMax	4.5	SL	32 fl oz/a	C		
14	AMS		WG	17 lb/100 gal	C		
15	Untreated					9.7	11.5
16	Rowel	51	WG	2 oz/a	A	11.9	52.5
16	Roundup PowerMax	4.5	SL	22 fl oz/a	C		
16	Warrant	3	L	3 pt/a	C		
16	AMS		WG	17 lb/100 gal	C		
17	Boundary	6.5	L	1.75 pt/a	A	11.8	54.1
17	Sequence	5.25	L	3.5 pt/a	C		
17	AMS		WG	8.5 lb/100 gal	C		
18	Rowel FX	40.3	WG	4 oz/a	A	11.7	52.6
18	Roundup PowerMax	4.5	SL	22 fl oz/a	C		
18	Warrant	3	L	3 pt/a	C		
18	AMS		WG	17 lb/100 gal	C		
19	BroadAxe XC	7	L	25 fl oz/a	A	12.0	50.8
19	Metribuzin	75	WG	6 oz/a	A		
19	Flexstar GT	2.82	L	3.5 pt/a	C		
19	MSO		L	1 % v/v	C		
19	AMS		WG	8.5 lb/100 gal	C		
20	Boundary	6.5	L	1.75 pt/a	A	11.8	51.3
20	Flexstar GT	2.82	L	3.5 pt/a	C		
20	MSO		L	1 % v/v	C		
20	AMS		WG	8.5 lb/100 gal	C		
21	Boundary	6.5	L	1.75 pt/a	A	11.9	51.8
21	Prefix	5.29	L	2 pt/a	C		
21	Roundup PowerMax		L	26 fl oz/a	C		
21	AMS		WG	8.5 lb/100 gal	C		
22	Roundup PowerMax	4.5	SL	22 fl oz/a	C	11.7	46.1
22	AMS		WG	17 lb/100 gal	C		
23	LibertyLink soybean					10.6	15.1
23	Untreated						

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.

Comparison of commercial weed control programs in soybean

Trial ID: SOY07-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code							
Crop Code					GLXMA	GLXMA	
Rating Date					Oct-18-2017	Oct-18-2017	
Rating Type					moisture	yield	
Rating Unit					percent	bu/acre	
Trt-Eval Interval					127 DA-C	at 13% M	
Number of Decimals					1	1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*
24	LibertyLink soybean					12.5	47.6
24	Liberty	2.34	L	29 fl oz/a	B		
24	Warrant Ultra	3.45	L	3 pt/a	B		
24	AMS		WG	8.5 lb/100 gal	B		
25	LibertyLink soybean					12.1	53.2
25	Boundary	6.5	L	1.5 pt/a	A		
25	Liberty	2.34	L	29 fl oz/a	C		
25	AMS		WG	8.5 lb/100 gal	C		
26	LibertyLink soybean					12.0	55.7
26	Authority MTZ	45	WG	14 oz/a	A		
26	Liberty	2.34	L	29 fl oz/a	C		
26	AMS		WG	8.5 lb/100 gal	C		
27	LibertyLink soybean					12.2	51.4
27	Fierce	76	WG	3 oz/a	A		
27	Liberty	2.34	L	29 fl oz/a	C		
27	AMS		WG	8.5 lb/100 gal	C		
28	LibertyLink soybean					12.1	58.8
28	Authority First	70	WG	6.4 oz/a	A		
28	Liberty	2.34	L	29 fl oz/a	C		
28	AMS		WG	8.5 lb/100 gal	C		
29	LibertyLink soybean					12.1	56.9
29	Authority XL	70	WG	3 oz/a	A		
29	Liberty	2.34	L	29 fl oz/a	C		
29	Warrant	3	L	3 pt/a	C		
29	AMS		WG	8.5 lb/100 gal	C		
30	LibertyLink soybean					12.0	54.8
30	Moccasin MTZ	4.5	L	42 fl oz/a	A		
30	Interline	2.34	L	29 fl oz/a	C		
30	AMS		WG	8.5 lb/100 gal	C		
31	LibertyLink soybean					12.3	50.4
31	Tripzin ZC	4	L	44 fl oz/a	A		
31	Interline	2.34	L	29 fl oz/a	C		
31	AMS		WG	8.5 lb/100 gal	C		
32	LibertyLink soybean					12.2	52.7
32	KFD 279-02	64	WG	12.5 oz/a	A		
32	Interline	2.34	L	29 fl oz/a	C		
32	AMS		WG	8.5 lb/100 gal	C		
LSD P=.05						0.48	8.17
Standard Deviation						0.34	5.82
CV						2.88	11.52

* Adjusted means

Could not calculate LSD (% mean diff) for columns 20,26,27,32 because error mean square = 0.