

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus, T-10 Investigator: Christy Sprague

Planting Date: May-7-2018 **Row Spacing:** 30 IN
Variety: P24A80X **No. of Reps:** 4
Population: 156000 seeds/A **% OM:** 2.4
Soil Type: L loam **pH:** 7.2
Plot Size: 10 X 35 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	lambquarters, common	Chenopodium album
3	AMAPO	amaranth, Powell	Amaranthus powellii
4	AMBEL	ragweed, common	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
6	SINAR	mustard, wild	Sinapis arvensis
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B	C	D	E	F
Application Timing:	PPI	PRE	EPOS	POST I	POST	LPOS
Date Treated:	May-7-2018	May-7-2018	May-31-2018	Jun-7-2018	Jun-12-2018	Jun-21-2018
Time Treated:	10:45 AM	3:30 PM	3:30 PM	3:00 PM	5:30 PM	4:00 PM
% Cloud Cover:	0	0	35	30	45	90
Air Temp., Unit:	62 F	75 F	83 F	79 F	82 F	78 F
% Relative Humidity:	38	25	55	47	55	46
Wind Speed/Unit/Dir:	1 mph N	0 mph	9.5 mph SW	6 mph NW	5 mph S	6 mph E
Soil Temp, Unit:	48 F	58 F	80 F	75 F	77 F	78 F
Leaf Moist/Dew Presence (Y/N):	4	5	5	5	5	5
Soil Moist:	3	3	2	5	3	5

Crop Stage at Each Application

	A	B	C	D	E	F
Crop 1 Name:	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Height:			4 "	5 "	6-8 " (7)	8-10 " (9)
Stage:			V1	V2	V3	V5

Weed Stage at Each Application

	A	B	C	D	E	F
Weed 1 Name:	ANGR	ANGR	ANGR	ANGR	ANGR	ANGR
Height:			1-4 " (2.5)	2-4 " (3)	2-4 " (3)	2-4 " (3)
Stage:			2-5L	2-4L	2-4L	2-4L
Weed 2 Name:	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
Height:			0.5-2 " (1.25)	2 "		
Stage:			4-7L	6-8L		
Weed 3 Name:	AMAPO	AMAPO	AMAPO	AMAPO	AMAPO	AMAPO
Height:			1-1 " (1)	1-3 " (2)		
Stage:			2-5L	4-8L		
Weed 4 Name:	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Height:			0.5-2 " (1.25)	1-3 " (2)	2-4 " (3)	2-4 " (3)
Stage:			2-5L	4-6L	4-6L	4-6L
Weed 5 Name:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Height:						
Stage:						
Weed 6 Name:	SINAR	SINAR	SINAR	SINAR	SINAR	SINAR
Height:				6-8 " (7)		
Stage:				4-5L		

Weed Density

	1	2	3	4	5	6
Date:	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
Density:	14 FT2	2 FT2	1 FT2	12 FT2	1 FT2	4 FT2

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Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Application Equipment			Spray Volume	Carrier	Operation Pressure
					Nozzle Height	Nozzle Spacing	Boom Width			
A	CUB	3.8 mph	AIXR	11003	20 "	20 "	100 "	19 GAL/AC	WATER	30 psi
B	CUB	3.8 mph	AIXR	11003	20 "	20 "	100 "	19 GAL/AC	WATER	30 psi
C	CUB	3.8 mph	TTI	11003	22 "	20 "	100 "	19 GAL/AC	WATER	25 psi
D	CUB	3.8 mph	TTI	11003	24 "	20 "	100 "	19 GAL/AC	WATER	25 psi
E	CUB	3.8 mph	TTI	11003	24 "	20 "	100 "	19 GAL/AC	WATER	25 psi
F	CUB	3.8 mph	AIXR	11003	26 "	20 "	100 "	19 GAL/AC	WATER	30 psi

Comments:

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Location: Campus, T-10

Investigator: Christy Sprague

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Pest Code			ANGR	CHEAL	AMBEL	ABUTH
Crop Code	GLXMA	GLXMA				
Rating Date	May-29-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018
Rating Type	injury	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	22 DA-A	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
1	Sonalan HFP	3	L	2	pt/a	A	13	19	90	95	0	99
1	Dual II Magnum	7.64	L	1	pt/a	A						
1	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
1	AMS		WG	17	lb/100 gal	E						
2	Sonalan HFP	3	L	2	pt/a	A	16	25	72	97	60	100
2	Metribuzin	75	WG	5	oz/a	A						
2	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
2	AMS		WG	17	lb/100 gal	E						
3	Valor EZ	4	L	3	fl oz/a	B	10	11	81	100	90	100
3	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
3	AMS		WG	17	lb/100 gal	E						
4	Warrant Ultra	3.45	L	50	fl oz/a	D						
4	Roundup PowerMax	4.5	SL	32	fl oz/a	D						
4	AMS		WG	17	lb/100 gal	D						
5	Authority XL	70	WG	4	oz/a	B	2	8	84	100	66	100
5	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
5	AMS		WG	8.5	lb/100 gal	E						
6	Fierce	76	WG	3	oz/a	B	8	12	99	100	96	100
6	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
6	AMS		WG	17	lb/100 gal	E						
7	Untreated						0	0	0	0	0	0
8	Zidua PRO	4.09	L	4.5	fl oz/a	B	3	6	99	100	60	100
8	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
8	AMS		WG	17	lb/100 gal	E						
9	Engenia	5	SL	12.8	fl oz/a	D						
9	Roundup PowerMax	4.5	SL	32	fl oz/a	D						
9	Induce		L	0.25	% v/v	D						
10	Authority MTZ	40	WG	14	oz/a	B	2	2	62	100	43	100
10	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
10	AMS		WG	8.5	lb/100 gal	E						
11	Verdict	5.57	L	5	fl oz/a	B	2	0	88	100	53	100
11	Metribuzin	75	WG	6	oz/a	B						
11	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
11	AMS		WG	17	lb/100 gal	E						

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

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Pest Code				ANGR	CHEAL	AMBEL	ABUTH
Crop Code		GLXMA	GLXMA				
Rating Date		May-29-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018
Rating Type		injury	injury	control	control	control	control
Rating Unit		percent	percent	percent	percent	percent	percent
Trt-Eval Interval		22 DA-A	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C
Number of Decimals		0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
12	Zidua PRO	4.09	L	4.5	fl oz/a	B	6	5	100	100	71	100
12	Metribuzin	75	WG	6	oz/a	B						
12	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
12	AMS		WG	17	lb/100 gal	E						
13	EverpreX	7.62	L	1	pt/a	D						
13	Fexapan	2.9	SL	22	fl oz/a	D						
13	Abundit Edge	4.5	SL	32	fl oz/a	D						
13	Intact		L	0.5	% v/v	D						
14	Surveil	48	WG	2.8	oz/a	B	5	6	87	100	96	100
14	Metribuzin	75	WG	4	oz/a	B						
14	Abundit Edge	4.5	SL	32	fl oz/a	E						
14	AMS		WG	17	lb/100 gal	E						
15	Envive	41.3	WG	3.5	oz/a	B	10	11	90	100	94	100
15	Metribuzin	75	WG	4	oz/a	B						
15	Abundit Edge	4.5	SL	32	fl oz/a	E						
15	AMS		WG	17	lb/100 gal	E						
16	Afforia	50.8	WG	2.5	oz/a	B	4	3	68	100	80	100
16	Metribuzin	75	WG	4	oz/a	B						
16	Abundit Edge	4.5	SL	32	fl oz/a	E						
16	AMS		WG	17	lb/100 gal	E						
17	Roundup PowerMax	4.5	SL	32	fl oz/a	D						
17	AMS		WG	17	lb/100 gal	D						
18	BroadAxe XC	7	L	25	fl oz/a	B	6	0	100	100	3	100
18	Flexstar GT	2.82	L	3.5	pt/a	E						
18	MSO		L	1	% v/v	E						
18	AMS		WG	8.5	lb/100 gal	E						
19	Valor	51	WG	2	oz/a	B	9	5	72	100	78	100
19	Warrant Ultra	3.45	L	50	fl oz/a	E						
19	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
19	AMS		WG	17	lb/100 gal	E						
20	Boundary	6.5	L	1.8	pt/a	B	5	6	100	100	65	100
20	Prefix	5.29	L	2	pt/a	E						
20	Roundup PowerMax	4.5	SL	26	fl oz/a	E						
20	AMS		WG	8.5	lb/100 gal	E						
21	Authority First	70	WG	4	oz/a	B	2	3	82	100	75	100
21	XtendiMax	2.9	SL	22	fl oz/a	E						
21	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
21	Intact		L	0.5	% v/v	E						

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Pest Code			ANGR	CHEAL	AMBEL	ABUTH
Crop Code	GLXMA	GLXMA				
Rating Date	May-29-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018
Rating Type	injury	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	22 DA-A	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
22	Warrant	3	L	3	pt/a	B	2	1	88	100	43	100
22	Metribuzin	75	WG	6	oz/a	B						
22	XtendiMax	2.9	SL	22	fl oz/a	E						
22	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
22	Intact		L	0.5	% v/v	E						
23	Prefix	5.29	L	2	pt/a	B	4	2	99	87	84	85
23	Sequence	5.25	L	3	pt/a	E						
23	XtendiMax	2.9	SL	22	fl oz/a	E						
23	Intact		L	0.5	% v/v	E						
23	Class Act Ridion		L	1	% v/v	E						
24	Boundary	6.5	L	1.8	pt/a	B	5	4	100	100	61	98
24	Prefix	5.29	L	2	pt/a	E						
24	XtendiMax	2.9	SL	22	fl oz/a	E						
24	Roundup PowerMax	4.5	SL	26	fl oz/a	E						
24	Intact		L	0.5	% v/v	E						
24	Class Act Ridion		L	1	% v/v	E						
25	Valor	51	WG	2	oz/a	B	4	4	67	100	78	100
25	Warrant	3	L	3	pt/a	E						
25	XtendiMax	2.9	SL	22	fl oz/a	E						
25	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
25	Intact		L	0.5	% v/v	E						
26	Warrant Ultra	3.45	L	50	fl oz/a	C	0	24	100	100	100	100
26	XtendiMax	2.9	SL	22	fl oz/a	C						
26	Roundup PowerMax	4.5	SL	32	fl oz/a	C						
26	Intact		L	0.5	% v/v	C						
27	Engenia PRO	4.54	L	16	fl oz/a	C	0	14	100	100	100	100
27	Roundup PowerMax	4.5	SL	32	fl oz/a	C						
27	Induce		L	0.25	% v/v	C						
28	XtendiMax	2.9	SL	22	fl oz/a	C	0	4	100	100	98	100
28	Roundup PowerMax	4.5	SL	32	fl oz/a	C						
28	Intact		L	0.5	% v/v	C						
28	Cobra	2	L	10	fl oz/a	F						
28	Roundup PowerMax	4.5	SL	32	fl oz/a	F						
28	AMS		WG	17	lb/100 gal	F						
29	Roundup PowerMax	4.5	SL	32	fl oz/a	C	0	1	100	99	98	100
29	AMS		WG	17	lb/100 gal	C						
29	Roundup PowerMax	4.5	SL	32	fl oz/a	F						
29	AMS		WG	17	lb/100 gal	F						
30	Roundup PowerMax	4.5	SL	32	fl oz/a	E	0	0	0	0	0	0
30	AMS		WG	17	lb/100 gal	E						
LSD P=.05				5.6			5.6	4.2	6.6	4.3	10.9	3.4
Standard Deviation				4.0			4.0	3.0	4.7	3.1	7.7	2.4
CV				87.6			87.6	45.27	5.71	3.37	11.87	2.63

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Pest Code	SINAR	GLXMA	ANGR	CHEAL	AMAPO
Crop Code					
Rating Date	Jun-7-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-C	14 DA-D	14 DA-D	14 DA-D	14 DA-D
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
1	Sonalan HFP	3 L		2 pt/a		A	0	13	100	100	100
1	Dual II Magnum	7.64 L		1 pt/a		A					
1	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
1	AMS	WG		17 lb/100 gal		E					
2	Sonalan HFP	3 L		2 pt/a		A	65	14	100	100	100
2	Metribuzin	75 WG		5 oz/a		A					
2	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
2	AMS	WG		17 lb/100 gal		E					
3	Valor EZ	4 L		3 fl oz/a		B	100	2	100	100	100
3	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
3	AMS	WG		17 lb/100 gal		E					
4	Warrant Ultra	3.45 L		50 fl oz/a		D		6	99	100	100
4	Roundup PowerMax	4.5 SL		32 fl oz/a		D					
4	AMS	WG		17 lb/100 gal		D					
5	Authority XL	70 WG		4 oz/a		B	100	2	100	100	100
5	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
5	AMS	WG		8.5 lb/100 gal		E					
6	Fierce	76 WG		3 oz/a		B	100	4	100	100	100
6	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
6	AMS	WG		17 lb/100 gal		E					
7	Untreated						0	0	0	0	0
8	Zidua PRO	4.09 L		4.5 fl oz/a		B	100	2	100	100	100
8	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
8	AMS	WG		17 lb/100 gal		E					
9	Engenia	5 SL		12.8 fl oz/a		D		5	99	100	100
9	Roundup PowerMax	4.5 SL		32 fl oz/a		D					
9	Induce	L		0.25 % v/v		D					
10	Authority MTZ	40 WG		14 oz/a		B	94	3	100	100	100
10	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
10	AMS	WG		8.5 lb/100 gal		E					
11	Verdict	5.57 L		5 fl oz/a		B	96	2	99	100	100
11	Metribuzin	75 WG		6 oz/a		B					
11	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
11	AMS	WG		17 lb/100 gal		E					

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Crop Code					
Rating Date	Jun-7-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-C	14 DA-D	14 DA-D	14 DA-D	14 DA-D
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
12	Zidua PRO	4.09	L	4.5	fl oz/a	B	100	2	100	100	100
12	Metribuzin	75	WG	6	oz/a	B					
12	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
12	AMS		WG	17	lb/100 gal	E					
13	EverpreX	7.62	L	1	pt/a	D		12	99	100	100
13	Fexapan	2.9	SL	22	fl oz/a	D					
13	Abundit Edge	4.5	SL	32	fl oz/a	D					
13	Intact		L	0.5	% v/v	D					
14	Surveil	48	WG	2.8	oz/a	B	100	2	98	100	100
14	Metribuzin	75	WG	4	oz/a	B					
14	Abundit Edge	4.5	SL	32	fl oz/a	E					
14	AMS		WG	17	lb/100 gal	E					
15	Envive	41.3	WG	3.5	oz/a	B	100	9	100	100	100
15	Metribuzin	75	WG	4	oz/a	B					
15	Abundit Edge	4.5	SL	32	fl oz/a	E					
15	AMS		WG	17	lb/100 gal	E					
16	Afforia	50.8	WG	2.5	oz/a	B	100	2	78	100	100
16	Metribuzin	75	WG	4	oz/a	B					
16	Abundit Edge	4.5	SL	32	fl oz/a	E					
16	AMS		WG	17	lb/100 gal	E					
17	Roundup PowerMax	4.5	SL	32	fl oz/a	D		2	98	99	100
17	AMS		WG	17	lb/100 gal	D					
18	BroadAxe XC	7	L	25	fl oz/a	B	5	30	100	100	100
18	Flexstar GT	2.82	L	3.5	pt/a	E					
18	MSO		L	1	% v/v	E					
18	AMS		WG	8.5	lb/100 gal	E					
19	Valor	51	WG	2	oz/a	B	95	18	100	100	100
19	Warrant Ultra	3.45	L	50	fl oz/a	E					
19	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
19	AMS		WG	17	lb/100 gal	E					
20	Boundary	6.5	L	1.8	pt/a	B	96	30	100	100	100
20	Prefix	5.29	L	2	pt/a	E					
20	Roundup PowerMax	4.5	SL	26	fl oz/a	E					
20	AMS		WG	8.5	lb/100 gal	E					
21	Authority First	70	WG	4	oz/a	B	100	3	99	100	100
21	XtendiMax	2.9	SL	22	fl oz/a	E					
21	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
21	Intact		L	0.5	% v/v	E					

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

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Pest Code	SINAR	GLXMA	ANGR	CHEAL	AMAPO
Crop Code					
Rating Date	Jun-7-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-C	14 DA-D	14 DA-D	14 DA-D	14 DA-D
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
22	Warrant	3	L	3	pt/a	B	88	0	77	100	100
22	Metribuzin	75	WG	6	oz/a	B					
22	XtendiMax	2.9	SL	22	fl oz/a	E					
22	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
22	Intact		L	0.5	% v/v	E					
23	Prefix	5.29	L	2	pt/a	B	100	8	100	100	100
23	Sequence	5.25	L	3	pt/a	E					
23	XtendiMax	2.9	SL	22	fl oz/a	E					
23	Intact		L	0.5	% v/v	E					
23	Class Act Ridion		L	1	% v/v	E					
24	Boundary	6.5	L	1.8	pt/a	B	100	26	100	100	100
24	Prefix	5.29	L	2	pt/a	E					
24	XtendiMax	2.9	SL	22	fl oz/a	E					
24	Roundup PowerMax	4.5	SL	26	fl oz/a	E					
24	Intact		L	0.5	% v/v	E					
24	Class Act Ridion		L	1	% v/v	E					
25	Valor	51	WG	2	oz/a	B	97	2	100	100	100
25	Warrant	3	L	3	pt/a	E					
25	XtendiMax	2.9	SL	22	fl oz/a	E					
25	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
25	Intact		L	0.5	% v/v	E					
26	Warrant Ultra	3.45	L	50	fl oz/a	C	100	15	97	100	100
26	XtendiMax	2.9	SL	22	fl oz/a	C					
26	Roundup PowerMax	4.5	SL	32	fl oz/a	C					
26	Intact		L	0.5	% v/v	C					
27	Engenia PRO	4.54	L	16	fl oz/a	C	100	10	100	100	100
27	Roundup PowerMax	4.5	SL	32	fl oz/a	C					
27	Induce		L	0.25	% v/v	C					
28	XtendiMax	2.9	SL	22	fl oz/a	C	100	0	90	100	100
28	Roundup PowerMax	4.5	SL	32	fl oz/a	C					
28	Intact		L	0.5	% v/v	C					
28	Cobra	2	L	10	fl oz/a	F					
28	Roundup PowerMax	4.5	SL	32	fl oz/a	F					
28	AMS		WG	17	lb/100 gal	F					
29	Roundup PowerMax	4.5	SL	32	fl oz/a	C	100	0	79	87	95
29	AMS		WG	17	lb/100 gal	C					
29	Roundup PowerMax	4.5	SL	32	fl oz/a	F					
29	AMS		WG	17	lb/100 gal	F					
30	Roundup PowerMax	4.5	SL	32	fl oz/a	E	0	0	97	75	100
30	AMS		WG	17	lb/100 gal	E					
LSD P=.05							6.7	3.8	11.8	3.2	1.6
Standard Deviation							4.7	2.7	8.4	2.3	1.2
CV							5.76	36.46	8.96	2.41	1.21

Missing data estimates are included in columns:Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	SINAR	GLXMA	ANGR	CHEAL
Crop Code					
Rating Date	Jun-21-2018	Jun-21-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-D	14 DA-D	14 DA-E	14 DA-E	14 DA-E
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
1	Sonalan HFP	3 L		2 pt/a		A	60	85	20	100	99
1	Dual II Magnum	7.64 L		1 pt/a		A					
1	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
1	AMS	WG		17 lb/100 gal		E					
2	Sonalan HFP	3 L		2 pt/a		A	72	95	9	99	100
2	Metribuzin	75 WG		5 oz/a		A					
2	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
2	AMS	WG		17 lb/100 gal		E					
3	Valor EZ	4 L		3 fl oz/a		B	100	100	1	99	100
3	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
3	AMS	WG		17 lb/100 gal		E					
4	Warrant Ultra	3.45 L		50 fl oz/a		D	91	95	5	96	94
4	Roundup PowerMax	4.5 SL		32 fl oz/a		D					
4	AMS	WG		17 lb/100 gal		D					
5	Authority XL	70 WG		4 oz/a		B	82	100	0	100	100
5	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
5	AMS	WG		8.5 lb/100 gal		E					
6	Fierce	76 WG		3 oz/a		B	99	100	2	98	100
6	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
6	AMS	WG		17 lb/100 gal		E					
7	Untreated						0	0	0	0	0
8	Zidua PRO	4.09 L		4.5 fl oz/a		B	80	100	0	98	100
8	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
8	AMS	WG		17 lb/100 gal		E					
9	Engenia	5 SL		12.8 fl oz/a		D	99	100	3	97	100
9	Roundup PowerMax	4.5 SL		32 fl oz/a		D					
9	Induce	L		0.25 % v/v		D					
10	Authority MTZ	40 WG		14 oz/a		B	76	100	1	100	100
10	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
10	AMS	WG		8.5 lb/100 gal		E					
11	Verdict	5.57 L		5 fl oz/a		B	79	100	0	98	100
11	Metribuzin	75 WG		6 oz/a		B					
11	Roundup PowerMax	4.5 SL		32 fl oz/a		E					
11	AMS	WG		17 lb/100 gal		E					

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code					AMBEL	SINAR	GLXMA	ANGR	CHEAL
Crop Code									
Rating Date					Jun-21-2018	Jun-21-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018
Rating Type					control	control	injury	control	control
Rating Unit					percent	percent	percent	percent	percent
Trt-Eval Interval					14 DA-D	14 DA-D	14 DA-E	14 DA-E	14 DA-E
Number of Decimals					0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code				
12	Zidua PRO	4.09	L	4.5 fl oz/a	B	94	100	0	100
12	Metribuzin	75	WG	6 oz/a	B				
12	Roundup PowerMax	4.5	SL	32 fl oz/a	E				
12	AMS		WG	17 lb/100 gal	E				
13	EverpreX	7.62	L	1 pt/a	D	94	96	7	98
13	Fexapan	2.9	SL	22 fl oz/a	D				
13	Abundit Edge	4.5	SL	32 fl oz/a	D				
13	Intact		L	0.5 % v/v	D				
14	Surveil	48	WG	2.8 oz/a	B	100	100	0	99
14	Metribuzin	75	WG	4 oz/a	B				
14	Abundit Edge	4.5	SL	32 fl oz/a	E				
14	AMS		WG	17 lb/100 gal	E				
15	Envive	41.3	WG	3.5 oz/a	B	100	100	4	98
15	Metribuzin	75	WG	4 oz/a	B				
15	Abundit Edge	4.5	SL	32 fl oz/a	E				
15	AMS		WG	17 lb/100 gal	E				
16	Afforia	50.8	WG	2.5 oz/a	B	96	100	0	98
16	Metribuzin	75	WG	4 oz/a	B				
16	Abundit Edge	4.5	SL	32 fl oz/a	E				
16	AMS		WG	17 lb/100 gal	E				
17	Roundup PowerMax	4.5	SL	32 fl oz/a	D	94	99	1	96
17	AMS		WG	17 lb/100 gal	D				98
18	BroadAxe XC	7	L	25 fl oz/a	B	100	100	24	100
18	Flexstar GT	2.82	L	3.5 pt/a	E				
18	MSO		L	1 % v/v	E				
18	AMS		WG	8.5 lb/100 gal	E				
19	Valor	51	WG	2 oz/a	B	100	100	12	99
19	Warrant Ultra	3.45	L	50 fl oz/a	E				
19	Roundup PowerMax	4.5	SL	32 fl oz/a	E				
19	AMS		WG	17 lb/100 gal	E				
20	Boundary	6.5	L	1.8 pt/a	B	100	100	21	100
20	Prefix	5.29	L	2 pt/a	E				
20	Roundup PowerMax	4.5	SL	26 fl oz/a	E				
20	AMS		WG	8.5 lb/100 gal	E				
21	Authority First	70	WG	4 oz/a	B	83	100	1	99
21	XtendiMax	2.9	SL	22 fl oz/a	E				
21	Roundup PowerMax	4.5	SL	32 fl oz/a	E				
21	Intact		L	0.5 % v/v	E				

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	SINAR	GLXMA	ANGR	CHEAL
Crop Code					
Rating Date	Jun-21-2018	Jun-21-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-D	14 DA-D	14 DA-E	14 DA-E	14 DA-E
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
22	Warrant	3	L	3	pt/a	B	69	90	0	82	100
22	Metribuzin	75	WG	6	oz/a	B					
22	XtendiMax	2.9	SL	22	fl oz/a	E					
22	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
22	Intact		L	0.5	% v/v	E					
23	Prefix	5.29	L	2	pt/a	B	98	100	6	100	100
23	Sequence	5.25	L	3	pt/a	E					
23	XtendiMax	2.9	SL	22	fl oz/a	E					
23	Intact		L	0.5	% v/v	E					
23	Class Act Ridion		L	1	% v/v	E					
24	Boundary	6.5	L	1.8	pt/a	B	100	100	20	100	100
24	Prefix	5.29	L	2	pt/a	E					
24	XtendiMax	2.9	SL	22	fl oz/a	E					
24	Roundup PowerMax	4.5	SL	26	fl oz/a	E					
24	Intact		L	0.5	% v/v	E					
24	Class Act Ridion		L	1	% v/v	E					
25	Valor	51	WG	2	oz/a	B	90	99	0	99	100
25	Warrant	3	L	3	pt/a	E					
25	XtendiMax	2.9	SL	22	fl oz/a	E					
25	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
25	Intact		L	0.5	% v/v	E					
26	Warrant Ultra	3.45	L	50	fl oz/a	C	100	100	8	97	100
26	XtendiMax	2.9	SL	22	fl oz/a	C					
26	Roundup PowerMax	4.5	SL	32	fl oz/a	C					
26	Intact		L	0.5	% v/v	C					
27	Engenia PRO	4.54	L	16	fl oz/a	C	100	100	4	99	100
27	Roundup PowerMax	4.5	SL	32	fl oz/a	C					
27	Induce		L	0.25	% v/v	C					
28	XtendiMax	2.9	SL	22	fl oz/a	C	100	100	23	99	100
28	Roundup PowerMax	4.5	SL	32	fl oz/a	C					
28	Intact		L	0.5	% v/v	C					
28	Cobra	2	L	10	fl oz/a	F					
28	Roundup PowerMax	4.5	SL	32	fl oz/a	F					
28	AMS		WG	17	lb/100 gal	F					
29	Roundup PowerMax	4.5	SL	32	fl oz/a	C	91	100	1	79	98
29	AMS		WG	17	lb/100 gal	C					
29	Roundup PowerMax	4.5	SL	32	fl oz/a	F					
29	AMS		WG	17	lb/100 gal	F					
30	Roundup PowerMax	4.5	SL	32	fl oz/a	E	70	84	2	96	84
30	AMS		WG	17	lb/100 gal	E					
LSD P=.05							7.0	6.4	3.6	3.2	2.8
Standard Deviation							5.0	4.5	2.6	2.3	2.0
CV							5.72	4.79	44.76	2.45	2.1

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMAPO	AMBEL	SINAR	GLXMA	ANGR
Crop Code					
Rating Date	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jul-10-2018	Jul-10-2018
Rating Type	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-E	14 DA-E	14 DA-E	28 DA-E	28 DA-E
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
1	Sonalan HFP	3	L	2	pt/a	A	100	80	93	12	96
1	Dual II Magnum	7.64	L	1	pt/a	A					
1	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
1	AMS		WG	17	lb/100 gal	E					
2	Sonalan HFP	3	L	2	pt/a	A	100	92	99	2	96
2	Metribuzin	75	WG	5	oz/a	A					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
2	AMS		WG	17	lb/100 gal	E					
3	Valor EZ	4	L	3	fl oz/a	B	100	100	100	0	94
3	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
3	AMS		WG	17	lb/100 gal	E					
4	Warrant Ultra	3.45	L	50	fl oz/a	D	100	88	100	0	93
4	Roundup PowerMax	4.5	SL	32	fl oz/a	D					
4	AMS		WG	17	lb/100 gal	D					
5	Authority XL	70	WG	4	oz/a	B	100	91	100	0	99
5	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
5	AMS		WG	8.5	lb/100 gal	E					
6	Fierce	76	WG	3	oz/a	B	100	100	100	0	95
6	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
6	AMS		WG	17	lb/100 gal	E					
7	Untreated						0	0	0	0	0
8	Zidua PRO	4.09	L	4.5	fl oz/a	B	100	90	100	0	94
8	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
8	AMS		WG	17	lb/100 gal	E					
9	Engenia	5	SL	12.8	fl oz/a	D	100	100	100	1	94
9	Roundup PowerMax	4.5	SL	32	fl oz/a	D					
9	Induce		L	0.25	% v/v	D					
10	Authority MTZ	40	WG	14	oz/a	B	100	86	100	0	95
10	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
10	AMS		WG	8.5	lb/100 gal	E					
11	Verdict	5.57	L	5	fl oz/a	B	100	93	100	0	93
11	Metribuzin	75	WG	6	oz/a	B					
11	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
11	AMS		WG	17	lb/100 gal	E					

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMAPO	AMBEL	SINAR	GLXMA	ANGR
Crop Code					
Rating Date	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jul-10-2018	Jul-10-2018
Rating Type	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-E	14 DA-E	14 DA-E	28 DA-E	28 DA-E
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	AMAPO	AMBEL	SINAR	GLXMA	ANGR
12	Zidua PRO	4.09	L	4.5	fl oz/a	B	100	98	100	0	96
12	Metribuzin	75	WG	6	oz/a	B					
12	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
12	AMS		WG	17	lb/100 gal	E					
13	EverpreX	7.62	L	1	pt/a	D	100	99	100	0	93
13	Fexapan	2.9	SL	22	fl oz/a	D					
13	Abundit Edge	4.5	SL	32	fl oz/a	D					
13	Intact		L	0.5	% v/v	D					
14	Surveil	48	WG	2.8	oz/a	B	100	100	100	0	93
14	Metribuzin	75	WG	4	oz/a	B					
14	Abundit Edge	4.5	SL	32	fl oz/a	E					
14	AMS		WG	17	lb/100 gal	E					
15	Envive	41.3	WG	3.5	oz/a	B	100	100	100	2	95
15	Metribuzin	75	WG	4	oz/a	B					
15	Abundit Edge	4.5	SL	32	fl oz/a	E					
15	AMS		WG	17	lb/100 gal	E					
16	Afforia	50.8	WG	2.5	oz/a	B	100	99	100	0	93
16	Metribuzin	75	WG	4	oz/a	B					
16	Abundit Edge	4.5	SL	32	fl oz/a	E					
16	AMS		WG	17	lb/100 gal	E					
17	Roundup PowerMax	4.5	SL	32	fl oz/a	D	100	96	100	0	89
17	AMS		WG	17	lb/100 gal	D					
18	BroadAxe XC	7	L	25	fl oz/a	B	100	100	100	9	99
18	Flexstar GT	2.82	L	3.5	pt/a	E					
18	MSO		L	1	% v/v	E					
18	AMS		WG	8.5	lb/100 gal	E					
19	Valor	51	WG	2	oz/a	B	100	100	100	2	99
19	Warrant Ultra	3.45	L	50	fl oz/a	E					
19	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
19	AMS		WG	17	lb/100 gal	E					
20	Boundary	6.5	L	1.8	pt/a	B	100	100	100	9	99
20	Prefix	5.29	L	2	pt/a	E					
20	Roundup PowerMax	4.5	SL	26	fl oz/a	E					
20	AMS		WG	8.5	lb/100 gal	E					
21	Authority First	70	WG	4	oz/a	B	100	97	100	0	98
21	XtendiMax	2.9	SL	22	fl oz/a	E					
21	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
21	Intact		L	0.5	% v/v	E					

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMAPO	AMBEL	SINAR	GLXMA	ANGR
Crop Code					
Rating Date	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jul-10-2018	Jul-10-2018
Rating Type	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-E	14 DA-E	14 DA-E	28 DA-E	28 DA-E
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	AMAPO	AMBEL	SINAR	GLXMA	ANGR
22	Warrant	3	L	3	pt/a	B	100	76	100	0	100
22	Metribuzin	75	WG	6	oz/a	B					
22	XtendiMax	2.9	SL	22	fl oz/a	E					
22	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
22	Intact		L	0.5	% v/v	E					
23	Prefix	5.29	L	2	pt/a	B	100	100	100	0	100
23	Sequence	5.25	L	3	pt/a	E					
23	XtendiMax	2.9	SL	22	fl oz/a	E					
23	Intact		L	0.5	% v/v	E					
23	Class Act Ridion		L	1	% v/v	E					
24	Boundary	6.5	L	1.8	pt/a	B	100	100	100	6	100
24	Prefix	5.29	L	2	pt/a	E					
24	XtendiMax	2.9	SL	22	fl oz/a	E					
24	Roundup PowerMax	4.5	SL	26	fl oz/a	E					
24	Intact		L	0.5	% v/v	E					
24	Class Act Ridion		L	1	% v/v	E					
25	Valor	51	WG	2	oz/a	B	100	98	100	0	99
25	Warrant	3	L	3	pt/a	E					
25	XtendiMax	2.9	SL	22	fl oz/a	E					
25	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
25	Intact		L	0.5	% v/v	E					
26	Warrant Ultra	3.45	L	50	fl oz/a	C	100	100	100	0	96
26	XtendiMax	2.9	SL	22	fl oz/a	C					
26	Roundup PowerMax	4.5	SL	32	fl oz/a	C					
26	Intact		L	0.5	% v/v	C					
27	Engenia PRO	4.54	L	16	fl oz/a	C	100	100	100	0	95
27	Roundup PowerMax	4.5	SL	32	fl oz/a	C					
27	Induce		L	0.25	% v/v	C					
28	XtendiMax	2.9	SL	22	fl oz/a	C	100	100	100	5	99
28	Roundup PowerMax	4.5	SL	32	fl oz/a	C					
28	Intact		L	0.5	% v/v	C					
28	Cobra	2	L	10	fl oz/a	F					
28	Roundup PowerMax	4.5	SL	32	fl oz/a	F					
28	AMS		WG	17	lb/100 gal	F					
29	Roundup PowerMax	4.5	SL	32	fl oz/a	C	100	85	100	0	97
29	AMS		WG	17	lb/100 gal	C					
29	Roundup PowerMax	4.5	SL	32	fl oz/a	F					
29	AMS		WG	17	lb/100 gal	F					
30	Roundup PowerMax	4.5	SL	32	fl oz/a	E	100	78	96	3	91
30	AMS		WG	17	lb/100 gal	E					
LSD P=.05								6.5	2.0	2.4	4.8
Standard Deviation							0.0	4.7	1.4	1.7	3.4
CV							0.0	5.09	1.44	98.89	3.67

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	AMBEL	ABUTH	SINAR	GLXMA	ANGR
Crop Code						
Rating Date	Jul-10-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018	Aug-7-2018	Aug-7-2018
Rating Type	control	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-E	28 DA-E	28 DA-E	28 DA-E	56 DA-E	56 DA-E
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	CHEAL	AMBEL	ABUTH	SINAR	GLXMA	ANGR
1	Sonalan HFP	3 L		2 pt/a		A	90	92	100	100	0	85
1	Dual II Magnum	7.64 L		1 pt/a		A						
1	Roundup PowerMax	4.5 SL		32 fl oz/a		E						
1	AMS	WG		17 lb/100 gal		E						
2	Sonalan HFP	3 L		2 pt/a		A	93	99	100	100	0	86
2	Metribuzin	75 WG		5 oz/a		A						
2	Roundup PowerMax	4.5 SL		32 fl oz/a		E						
2	AMS	WG		17 lb/100 gal		E						
3	Valor EZ	4 L		3 fl oz/a		B	100	100	100	100	0	85
3	Roundup PowerMax	4.5 SL		32 fl oz/a		E						
3	AMS	WG		17 lb/100 gal		E						
4	Warrant Ultra	3.45 L		50 fl oz/a		D	88	94	100	100	0	93
4	Roundup PowerMax	4.5 SL		32 fl oz/a		D						
4	AMS	WG		17 lb/100 gal		D						
5	Authority XL	70 WG		4 oz/a		B	100	100	100	100	0	94
5	Roundup PowerMax	4.5 SL		32 fl oz/a		E						
5	AMS	WG		8.5 lb/100 gal		E						
6	Fierce	76 WG		3 oz/a		B	100	100	100	100	0	91
6	Roundup PowerMax	4.5 SL		32 fl oz/a		E						
6	AMS	WG		17 lb/100 gal		E						
7	Untreated						0	0	0	0	0	0
8	Zidua PRO	4.09 L		4.5 fl oz/a		B	100	100	100	100	0	87
8	Roundup PowerMax	4.5 SL		32 fl oz/a		E						
8	AMS	WG		17 lb/100 gal		E						
9	Engenia	5 SL		12.8 fl oz/a		D	100	100	100	100	0	90
9	Roundup PowerMax	4.5 SL		32 fl oz/a		D						
9	Induce	L		0.25 % v/v		D						
10	Authority MTZ	40 WG		14 oz/a		B	100	100	100	100	0	88
10	Roundup PowerMax	4.5 SL		32 fl oz/a		E						
10	AMS	WG		8.5 lb/100 gal		E						
11	Verdict	5.57 L		5 fl oz/a		B	100	99	100	100	0	90
11	Metribuzin	75 WG		6 oz/a		B						
11	Roundup PowerMax	4.5 SL		32 fl oz/a		E						
11	AMS	WG		17 lb/100 gal		E						

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	AMBEL	ABUTH	SINAR	GLXMA	ANGR
Crop Code						
Rating Date	Jul-10-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018	Aug-7-2018	Aug-7-2018
Rating Type	control	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-E	28 DA-E	28 DA-E	28 DA-E	56 DA-E	56 DA-E
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	CHEAL	AMBEL	ABUTH	SINAR	GLXMA	ANGR
12	Zidua PRO	4.09	L	4.5	fl oz/a	B	100	98	100	100	0	93
12	Metribuzin	75	WG	6	oz/a	B						
12	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
12	AMS		WG	17	lb/100 gal	E						
13	EverpreX	7.62	L	1	pt/a	D	98	100	100	100	0	89
13	Fexapan	2.9	SL	22	fl oz/a	D						
13	Abundit Edge	4.5	SL	32	fl oz/a	D						
13	Intact		L	0.5	% v/v	D						
14	Surveil	48	WG	2.8	oz/a	B	100	100	100	100	0	80
14	Metribuzin	75	WG	4	oz/a	B						
14	Abundit Edge	4.5	SL	32	fl oz/a	E						
14	AMS		WG	17	lb/100 gal	E						
15	Envive	41.3	WG	3.5	oz/a	B	100	100	100	100	0	90
15	Metribuzin	75	WG	4	oz/a	B						
15	Abundit Edge	4.5	SL	32	fl oz/a	E						
15	AMS		WG	17	lb/100 gal	E						
16	Afforia	50.8	WG	2.5	oz/a	B	99	99	100	100	0	91
16	Metribuzin	75	WG	4	oz/a	B						
16	Abundit Edge	4.5	SL	32	fl oz/a	E						
16	AMS		WG	17	lb/100 gal	E						
17	Roundup PowerMax	4.5	SL	32	fl oz/a	D	95	95	100	100	0	79
17	AMS		WG	17	lb/100 gal	D						
18	BroadAxe XC	7	L	25	fl oz/a	B	100	100	100	100	4	98
18	Flexstar GT	2.82	L	3.5	pt/a	E						
18	MSO		L	1	% v/v	E						
18	AMS		WG	8.5	lb/100 gal	E						
19	Valor	51	WG	2	oz/a	B	100	100	100	100	0	98
19	Warrant Ultra	3.45	L	50	fl oz/a	E						
19	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
19	AMS		WG	17	lb/100 gal	E						
20	Boundary	6.5	L	1.8	pt/a	B	100	100	100	100	0	99
20	Prefix	5.29	L	2	pt/a	E						
20	Roundup PowerMax	4.5	SL	26	fl oz/a	E						
20	AMS		WG	8.5	lb/100 gal	E						
21	Authority First	70	WG	4	oz/a	B	100	100	100	100	0	97
21	XtendiMax	2.9	SL	22	fl oz/a	E						
21	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
21	Intact		L	0.5	% v/v	E						

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	AMBEL	ABUTH	SINAR	GLXMA	ANGR						
Crop Code	Jul-10-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018	Aug-7-2018	Aug-7-2018						
Rating Date	control	control	control	control	injury	control						
Rating Type	percent	percent	percent	percent	percent	percent						
Rating Unit	28 DA-E	28 DA-E	28 DA-E	28 DA-E	56 DA-E	56 DA-E						
Trt-Eval Interval	0	0	0	0	0	0						
Number of Decimals												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
22	Warrant	3	L	3	pt/a	B	100	100	100	100	0	99
22	Metribuzin	75	WG	6	oz/a	B						
22	XtendiMax	2.9	SL	22	fl oz/a	E						
22	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
22	Intact		L	0.5	% v/v	E						
23	Prefix	5.29	L	2	pt/a	B	100	100	100	100	0	99
23	Sequence	5.25	L	3	pt/a	E						
23	XtendiMax	2.9	SL	22	fl oz/a	E						
23	Intact		L	0.5	% v/v	E						
23	Class Act Ridion		L	1	% v/v	E						
24	Boundary	6.5	L	1.8	pt/a	B	100	100	100	100	0	100
24	Prefix	5.29	L	2	pt/a	E						
24	XtendiMax	2.9	SL	22	fl oz/a	E						
24	Roundup PowerMax	4.5	SL	26	fl oz/a	E						
24	Intact		L	0.5	% v/v	E						
24	Class Act Ridion		L	1	% v/v	E						
25	Valor	51	WG	2	oz/a	B	100	100	100	100	0	97
25	Warrant	3	L	3	pt/a	E						
25	XtendiMax	2.9	SL	22	fl oz/a	E						
25	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
25	Intact		L	0.5	% v/v	E						
26	Warrant Ultra	3.45	L	50	fl oz/a	C	100	100	98	100	0	95
26	XtendiMax	2.9	SL	22	fl oz/a	C						
26	Roundup PowerMax	4.5	SL	32	fl oz/a	C						
26	Intact		L	0.5	% v/v	C						
27	Engenia PRO	4.54	L	16	fl oz/a	C	100	100	98	100	0	96
27	Roundup PowerMax	4.5	SL	32	fl oz/a	C						
27	Induce		L	0.25	% v/v	C						
28	XtendiMax	2.9	SL	22	fl oz/a	C	100	100	100	100	0	97
28	Roundup PowerMax	4.5	SL	32	fl oz/a	C						
28	Intact		L	0.5	% v/v	C						
28	Cobra	2	L	10	fl oz/a	F						
28	Roundup PowerMax	4.5	SL	32	fl oz/a	F						
28	AMS		WG	17	lb/100 gal	F						
29	Roundup PowerMax	4.5	SL	32	fl oz/a	C	100	100	100	100	0	96
29	AMS		WG	17	lb/100 gal	C						
29	Roundup PowerMax	4.5	SL	32	fl oz/a	F						
29	AMS		WG	17	lb/100 gal	F						
30	Roundup PowerMax	4.5	SL	32	fl oz/a	E	78	94	94	100	0	56
30	AMS		WG	17	lb/100 gal	E						
LSD P=.05		4.3		4.4		2.4		0.3		1.2		6.9
Standard Deviation		3.1		3.1		1.7		0.2		0.9		4.9
CV		3.27		3.25		1.76		0.19		699.21		5.63

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	AMBEL	ABUTH	SINAR	ANGR	CHEAL
Crop Code						
Rating Date	Aug-7-2018	Aug-7-2018	Aug-7-2018	Aug-7-2018	Oct-9-2018	Oct-9-2018
Rating Type	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	56 DA-E	56 DA-E	56 DA-E	56 DA-E	56 DA-E	119 DA-E
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
1	Sonalan HFP	3	L	2	pt/a	A	70	89	100	100	75	72
1	Dual II Magnum	7.64	L	1	pt/a	A						
1	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
1	AMS		WG	17	lb/100 gal	E						
2	Sonalan HFP	3	L	2	pt/a	A	79	97	100	100	81	83
2	Metribuzin	75	WG	5	oz/a	A						
2	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
2	AMS		WG	17	lb/100 gal	E						
3	Valor EZ	4	L	3	fl oz/a	B	100	99	100	100	85	100
3	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
3	AMS		WG	17	lb/100 gal	E						
4	Warrant Ultra	3.45	L	50	fl oz/a	D	99	94	99	100	90	92
4	Roundup PowerMax	4.5	SL	32	fl oz/a	D						
4	AMS		WG	17	lb/100 gal	D						
5	Authority XL	70	WG	4	oz/a	B	100	99	100	100	93	100
5	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
5	AMS		WG	8.5	lb/100 gal	E						
6	Fierce	76	WG	3	oz/a	B	100	99	99	100	90	100
6	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
6	AMS		WG	17	lb/100 gal	E						
7	Untreated						0	0	0	0	0	0
8	Zidua PRO	4.09	L	4.5	fl oz/a	B	99	99	100	100	87	98
8	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
8	AMS		WG	17	lb/100 gal	E						
9	Engenia	5	SL	12.8	fl oz/a	D	100	100	100	100	90	100
9	Roundup PowerMax	4.5	SL	32	fl oz/a	D						
9	Induce		L	0.25	% v/v	D						
10	Authority MTZ	40	WG	14	oz/a	B	100	100	100	100	88	100
10	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
10	AMS		WG	8.5	lb/100 gal	E						
11	Verdict	5.57	L	5	fl oz/a	B	100	99	100	100	87	100
11	Metribuzin	75	WG	6	oz/a	B						
11	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
11	AMS		WG	17	lb/100 gal	E						

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	AMBEL	ABUTH	SINAR	ANGR	CHEAL
Crop Code						
Rating Date	Aug-7-2018	Aug-7-2018	Aug-7-2018	Aug-7-2018	Oct-9-2018	Oct-9-2018
Rating Type	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	56 DA-E	56 DA-E	56 DA-E	56 DA-E	56 DA-E	119 DA-E
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
12	Zidua PRO	4.09	L	4.5	fl oz/a	B	100	100	100	100	91	100
12	Metribuzin	75	WG	6	oz/a	B						
12	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
12	AMS		WG	17	lb/100 gal	E						
13	EverpreX	7.62	L	1	pt/a	D	98	100	100	100	87	100
13	Fexapan	2.9	SL	22	fl oz/a	D						
13	Abundit Edge	4.5	SL	32	fl oz/a	D						
13	Intact		L	0.5	% v/v	D						
14	Surveil	48	WG	2.8	oz/a	B	100	100	100	100	86	100
14	Metribuzin	75	WG	4	oz/a	B						
14	Abundit Edge	4.5	SL	32	fl oz/a	E						
14	AMS		WG	17	lb/100 gal	E						
15	Envive	41.3	WG	3.5	oz/a	B	100	100	100	100	92	100
15	Metribuzin	75	WG	4	oz/a	B						
15	Abundit Edge	4.5	SL	32	fl oz/a	E						
15	AMS		WG	17	lb/100 gal	E						
16	Afforia	50.8	WG	2.5	oz/a	B	98	99	100	100	90	100
16	Metribuzin	75	WG	4	oz/a	B						
16	Abundit Edge	4.5	SL	32	fl oz/a	E						
16	AMS		WG	17	lb/100 gal	E						
17	Roundup PowerMax	4.5	SL	32	fl oz/a	D	93	89	100	100	75	95
17	AMS		WG	17	lb/100 gal	D						
18	BroadAxe XC	7	L	25	fl oz/a	B	100	94	99	100	96	100
18	Flexstar GT	2.82	L	3.5	pt/a	E						
18	MSO		L	1	% v/v	E						
18	AMS		WG	8.5	lb/100 gal	E						
19	Valor	51	WG	2	oz/a	B	100	100	100	100	99	100
19	Warrant Ultra	3.45	L	50	fl oz/a	E						
19	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
19	AMS		WG	17	lb/100 gal	E						
20	Boundary	6.5	L	1.8	pt/a	B	99	99	100	100	98	97
20	Prefix	5.29	L	2	pt/a	E						
20	Roundup PowerMax	4.5	SL	26	fl oz/a	E						
20	AMS		WG	8.5	lb/100 gal	E						
21	Authority First	70	WG	4	oz/a	B	100	100	100	100	91	100
21	XtendiMax	2.9	SL	22	fl oz/a	E						
21	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
21	Intact		L	0.5	% v/v	E						

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

	CHEAL	AMBEL	ABUTH	SINAR	ANGR	CHEAL
Pest Code						
Crop Code						
Rating Date	Aug-7-2018	Aug-7-2018	Aug-7-2018	Aug-7-2018	Oct-9-2018	Oct-9-2018
Rating Type	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	56 DA-E	56 DA-E	56 DA-E	56 DA-E	56 DA-E	119 DA-E
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
22	Warrant	3	L	3	pt/a	B	100	100	100	100	95	100
22	Metribuzin	75	WG	6	oz/a	B						
22	XtendiMax	2.9	SL	22	fl oz/a	E						
22	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
22	Intact		L	0.5	% v/v	E						
23	Prefix	5.29	L	2	pt/a	B	100	100	100	100	99	100
23	Sequence	5.25	L	3	pt/a	E						
23	XtendiMax	2.9	SL	22	fl oz/a	E						
23	Intact		L	0.5	% v/v	E						
23	Class Act Ridion		L	1	% v/v	E						
24	Boundary	6.5	L	1.8	pt/a	B	100	100	100	100	100	100
24	Prefix	5.29	L	2	pt/a	E						
24	XtendiMax	2.9	SL	22	fl oz/a	E						
24	Roundup PowerMax	4.5	SL	26	fl oz/a	E						
24	Intact		L	0.5	% v/v	E						
24	Class Act Ridion		L	1	% v/v	E						
25	Valor	51	WG	2	oz/a	B	100	100	100	100	97	100
25	Warrant	3	L	3	pt/a	E						
25	XtendiMax	2.9	SL	22	fl oz/a	E						
25	Roundup PowerMax	4.5	SL	32	fl oz/a	E						
25	Intact		L	0.5	% v/v	E						
26	Warrant Ultra	3.45	L	50	fl oz/a	C	100	100	95	100	94	100
26	XtendiMax	2.9	SL	22	fl oz/a	C						
26	Roundup PowerMax	4.5	SL	32	fl oz/a	C						
26	Intact		L	0.5	% v/v	C						
27	Engenia PRO	4.54	L	16	fl oz/a	C	100	100	97	100	93	100
27	Roundup PowerMax	4.5	SL	32	fl oz/a	C						
27	Induce		L	0.25	% v/v	C						
28	XtendiMax	2.9	SL	22	fl oz/a	C	100	100	100	100	96	100
28	Roundup PowerMax	4.5	SL	32	fl oz/a	C						
28	Intact		L	0.5	% v/v	C						
28	Cobra	2	L	10	fl oz/a	F						
28	Roundup PowerMax	4.5	SL	32	fl oz/a	F						
28	AMS		WG	17	lb/100 gal	F						
29	Roundup PowerMax	4.5	SL	32	fl oz/a	C	100	100	100	100	93	99
29	AMS		WG	17	lb/100 gal	C						
29	Roundup PowerMax	4.5	SL	32	fl oz/a	F						
29	AMS		WG	17	lb/100 gal	F						
30	Roundup PowerMax	4.5	SL	32	fl oz/a	E	68	80	96	100	70	64
30	AMS		WG	17	lb/100 gal	E						
LSD P=.05							6.6	5.8	3.7	.	5.8	6.0
Standard Deviation							4.7	4.1	2.6	0.0	4.1	4.3
CV							5.06	4.33	2.75	0.0	4.72	4.57

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	ABUTH	SINAR	GLXMA	GLXMA
Crop Code					
Rating Date	Oct-9-2018	Oct-9-2018	Oct-9-2018	Oct-24-2018	Oct-24-2018
Rating Type	control	control	control	moisture	yield
Rating Unit	percent	percent	percent	percent	bu/acre
Trt-Eval Interval	119 DA-E	119 DA-E	119 DA-E	134 DA-E	at 13%
Number of Decimals	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
1	Sonalan HFP	3	L	2	pt/a	A	91	100	95	13.3	53.5
1	Dual II Magnum	7.64	L	1	pt/a	A					
1	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
1	AMS		WG	17	lb/100 gal	E					
2	Sonalan HFP	3	L	2	pt/a	A	93	100	99	13.0	57.8
2	Metribuzin	75	WG	5	oz/a	A					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
2	AMS		WG	17	lb/100 gal	E					
3	Valor EZ	4	L	3	fl oz/a	B	100	100	98	12.9	60.2
3	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
3	AMS		WG	17	lb/100 gal	E					
4	Warrant Ultra	3.45	L	50	fl oz/a	D	92	100	100	13.1	59.2
4	Roundup PowerMax	4.5	SL	32	fl oz/a	D					
4	AMS		WG	17	lb/100 gal	D					
5	Authority XL	70	WG	4	oz/a	B	100	100	100	12.5	59.9
5	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
5	AMS		WG	8.5	lb/100 gal	E					
6	Fierce	76	WG	3	oz/a	B	99	100	99	13.2	60.9
6	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
6	AMS		WG	17	lb/100 gal	E					
7	Untreated						0	0	0	8.6	11.4
8	Zidua PRO	4.09	L	4.5	fl oz/a	B	99	100	98	13.2	63.1
8	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
8	AMS		WG	17	lb/100 gal	E					
9	Engenia	5	SL	12.8	fl oz/a	D	100	100	100	13.2	55.5
9	Roundup PowerMax	4.5	SL	32	fl oz/a	D					
9	Induce		L	0.25	% v/v	D					
10	Authority MTZ	40	WG	14	oz/a	B	96	100	100	13.1	67.0
10	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
10	AMS		WG	8.5	lb/100 gal	E					
11	Verdict	5.57	L	5	fl oz/a	B	100	100	100	11.9	64.1
11	Metribuzin	75	WG	6	oz/a	B					
11	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
11	AMS		WG	17	lb/100 gal	E					

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

Could not calculate LSD (% mean diff) for columns 17,31 because error mean square = 0.

Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	ABUTH	SINAR	GLXMA	GLXMA
Crop Code					
Rating Date	Oct-9-2018	Oct-9-2018	Oct-9-2018	Oct-24-2018	Oct-24-2018
Rating Type	control	control	control	moisture	yield
Rating Unit	percent	percent	percent	percent	bu/acre
Trt-Eval Interval	119 DA-E	119 DA-E	119 DA-E	134 DA-E	at 13%
Number of Decimals	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
12	Zidua PRO	4.09	L	4.5	fl oz/a	B	98	100	98	13.0	61.7
12	Metribuzin	75	WG	6	oz/a	B					
12	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
12	AMS		WG	17	lb/100 gal	E					
13	EverpreX	7.62	L	1	pt/a	D	100	99	99	13.1	67.0
13	Fexapan	2.9	SL	22	fl oz/a	D					
13	Abundit Edge	4.5	SL	32	fl oz/a	D					
13	Intact		L	0.5	% v/v	D					
14	Surveil	48	WG	2.8	oz/a	B	99	100	92	13.3	66.9
14	Metribuzin	75	WG	4	oz/a	B					
14	Abundit Edge	4.5	SL	32	fl oz/a	E					
14	AMS		WG	17	lb/100 gal	E					
15	Envive	41.3	WG	3.5	oz/a	B	100	100	100	13.0	63.7
15	Metribuzin	75	WG	4	oz/a	B					
15	Abundit Edge	4.5	SL	32	fl oz/a	E					
15	AMS		WG	17	lb/100 gal	E					
16	Afforia	50.8	WG	2.5	oz/a	B	100	100	100	13.0	68.6
16	Metribuzin	75	WG	4	oz/a	B					
16	Abundit Edge	4.5	SL	32	fl oz/a	E					
16	AMS		WG	17	lb/100 gal	E					
17	Roundup PowerMax	4.5	SL	32	fl oz/a	D	95	100	100	13.0	59.5
17	AMS		WG	17	lb/100 gal	D					
18	BroadAxe XC	7	L	25	fl oz/a	B	95	100	100	12.8	60.9
18	Flexstar GT	2.82	L	3.5	pt/a	E					
18	MSO		L	1	% v/v	E					
18	AMS		WG	8.5	lb/100 gal	E					
19	Valor	51	WG	2	oz/a	B	100	100	100	12.9	63.9
19	Warrant Ultra	3.45	L	50	fl oz/a	E					
19	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
19	AMS		WG	17	lb/100 gal	E					
20	Boundary	6.5	L	1.8	pt/a	B	97	100	100	12.9	60.9
20	Prefix	5.29	L	2	pt/a	E					
20	Roundup PowerMax	4.5	SL	26	fl oz/a	E					
20	AMS		WG	8.5	lb/100 gal	E					
21	Authority First	70	WG	4	oz/a	B	100	100	100	13.2	61.6
21	XtendiMax	2.9	SL	22	fl oz/a	E					
21	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
21	Intact		L	0.5	% v/v	E					

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,32

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Economics of Roundup Ready/Xtend soybean weed control programs

Trial ID: SOY01-18

Location: Campus, T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	ABUTH	SINAR	GLXMA	GLXMA
Crop Code					
Rating Date	Oct-9-2018	Oct-9-2018	Oct-9-2018	Oct-24-2018	Oct-24-2018
Rating Type	control	control	control	moisture	yield
Rating Unit	percent	percent	percent	percent	bu/acre
Trt-Eval Interval	119 DA-E	119 DA-E	119 DA-E	134 DA-E	at 13%
Number of Decimals	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
22	Warrant	3	L	3	pt/a	B	100	100	99	13.0	67.4
22	Metribuzin	75	WG	6	oz/a	B					
22	XtendiMax	2.9	SL	22	fl oz/a	E					
22	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
22	Intact		L	0.5	% v/v	E					
23	Prefix	5.29	L	2	pt/a	B	100	100	100	13.3	67.6
23	Sequence	5.25	L	3	pt/a	E					
23	XtendiMax	2.9	SL	22	fl oz/a	E					
23	Intact		L	0.5	% v/v	E					
23	Class Act Ridion		L	1	% v/v	E					
24	Boundary	6.5	L	1.8	pt/a	B	100	100	100	13.0	61.6
24	Prefix	5.29	L	2	pt/a	E					
24	XtendiMax	2.9	SL	22	fl oz/a	E					
24	Roundup PowerMax	4.5	SL	26	fl oz/a	E					
24	Intact		L	0.5	% v/v	E					
24	Class Act Ridion		L	1	% v/v	E					
25	Valor	51	WG	2	oz/a	B	100	100	100	13.2	67.2
25	Warrant	3	L	3	pt/a	E					
25	XtendiMax	2.9	SL	22	fl oz/a	E					
25	Roundup PowerMax	4.5	SL	32	fl oz/a	E					
25	Intact		L	0.5	% v/v	E					
26	Warrant Ultra	3.45	L	50	fl oz/a	C	100	99	100	13.1	63.7
26	XtendiMax	2.9	SL	22	fl oz/a	C					
26	Roundup PowerMax	4.5	SL	32	fl oz/a	C					
26	Intact		L	0.5	% v/v	C					
27	Engenia PRO	4.54	L	16	fl oz/a	C	100	99	100	12.9	68.1
27	Roundup PowerMax	4.5	SL	32	fl oz/a	C					
27	Induce		L	0.25	% v/v	C					
28	XtendiMax	2.9	SL	22	fl oz/a	C	100	100	100	12.7	69.4
28	Roundup PowerMax	4.5	SL	32	fl oz/a	C					
28	Intact		L	0.5	% v/v	C					
28	Cobra	2	L	10	fl oz/a	F					
28	Roundup PowerMax	4.5	SL	32	fl oz/a	F					
28	AMS		WG	17	lb/100 gal	F					
29	Roundup PowerMax	4.5	SL	32	fl oz/a	C	100	100	99	13.1	68.8
29	AMS		WG	17	lb/100 gal	C					
29	Roundup PowerMax	4.5	SL	32	fl oz/a	F					
29	AMS		WG	17	lb/100 gal	F					
30	Roundup PowerMax	4.5	SL	32	fl oz/a	E	86	93	100	13.2	55.0
30	AMS		WG	17	lb/100 gal	E					
LSD P=.05							5.9	2.7	4.2	0.85	8.81
Standard Deviation							4.2	1.9	3.0	0.61	6.27
CV							4.46	2.0	3.09	4.72	10.24

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