

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus, C-12 Investigator: Christy Sprague

Planting Date: May-14-2019 **Row Spacing:** 30 IN
Variety: Pioneer 24A80X **No. of Reps:** 4
Population: 155000 seeds/A **% OM:** 3.5
Soil Type: CL clay loam **pH:** 7.3
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall soil-finish; Spring soil finish (2X)

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
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B	C
Application Timing:	PRE	EPOS	POST
Date Treated:	May-14-2019	Jun-12-2019	Jun-26-2019
Time Treated:	8:30 PM	9:05 AM	10:45 AM
% Cloud Cover:	5	75	15
Air Temp., Unit:	62 F	65 F	77 F
% Relative Humidity:	38	51	
Wind Speed/Unit/Dir:	4 mph NW	5 mph SW	8 mph W
Soil Temp, Unit:	63 F	62 F	72 F
Leaf Moist/Dew Presence (Y/N):	5	2	4
Soil Moist:	3	5	3

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	GLXMA	GLXMA	GLXMA
Height:		3 "	8 "
Stage:		V2	V3

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height:		1-3 " (2)	2-12 " (5)
Stage:		2-4L	2-4L
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Height:		0.5-1.5 " (1)	1-4 " (4)
Stage:		6L	6-12L
Weed 3 Name:	AMAPO	AMAPO	AMAPO
Height:		1-4 " (2.5)	4 "
Stage:		4-6L	6-8L
Weed 4 Name:	AMBEL	AMBEL	AMBEL
Height:		1-3 " (2)	2-6 " (4)
Stage:		4-8L	4-8L
Weed 5 Name:	ABUTH	ABUTH	ABUTH
Height:		1-3 " (2)	2-4 " (3)
Stage:		2L	3L

Weed Density

	1	2	3	4	5
Date:	Jun-26-2019	Jun-26-2019	Jun-26-2019	Jun-26-2019	Jun-26-2019
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Density:	175 FT2	4 FT2	1 FT2	9 FT2	1 FT2

Application Equipment

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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	BACKPK	3.8 mph	TTI	11003	22 "	20 "	100 "	19 GPA	WATER	25 psi
C	CUB	3.8 mph	TTI	11003	30 "	20 "	100 "	19 GPA	WATER	25 psi

Comments:

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Pest Code			ANGR	CHEAL	AMAPO
Crop Type, Code	GLXMA	GLXMA			
Rating Date	Jun-4-2019	Jun-24-2019	Jun-24-2019	Jun-24-2019	Jun-24-2019
Rating Type	injury	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	21 DA-A	12 DA-B	12 DA-B	12 DA-B	12 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	Valor XLT	40.3	WG	4 oz/a		PRE	A	16	12	99	100	100
1	XtendiMax	2.9	L	22 fl oz/a		POST	C					
1	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
1	Intact		L	0.5 % v/v		POST	C					
2	Authority MTZ	45	WG	16 oz/a		PRE	A	2	0	97	100	100
2	XtendiMax	2.9	L	22 fl oz/a		POST	C					
2	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
2	Intact		L	0.5 % v/v		POST	C					
3	Fierce EZ	3.04	L	6 fl oz/a		PRE	A	21	5	100	100	100
3	XtendiMax	2.9	L	22 fl oz/a		POST	C					
3	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
3	Intact		L	0.5 % v/v		POST	C					
4	Zidua PRO	4.09	L	4.5 fl oz/a		PRE	A	7	0	100	100	100
4	Engenia	5	L	12.8 fl oz/a		POST	C					
4	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
4	Induce		L	0.25 % v/v		POST	C					
5	Valor	51	WG	2 oz/a		PRE	A	19	5	94	100	100
5	Mauler	4	L	6 fl oz/a		PRE	A					
5	Prowl H2O	3.8	L	1.5 pt/a		PRE	A					
5	XtendiMax	2.9	L	22 fl oz/a		POST	C					
5	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
5	Intact		L	0.5 % v/v		POST	C					
6	Fierce MTZ	2.64	L	16 fl oz/a		PRE	A	23	5	98	100	100
6	XtendiMax	2.9	L	22 fl oz/a		POST	C					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
6	Intact		L	0.5 % v/v		POST	C					
7	Warrant	3	L	3 pt/a		PRE	A	1	1	89	100	100
7	Metribuzin	75	WG	5 oz/a		PRE	A					
7	XtendiMax	2.9	L	22 fl oz/a		POST	C					
7	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
7	Intact		L	0.5 % v/v		POST	C					
8	Warrant Ultra	3.45	L	50 fl oz/a		PRE	A	1	0	96	100	100
8	XtendiMax	2.9	L	22 fl oz/a		POST	C					
8	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
8	Intact		L	0.5 % v/v		POST	C					
9	Untreated							0	0	0	0	0
10	Engenia PRO	4.45	L	16 fl oz/a		EPOS	B	0	7	100	100	100
10	Roundup PowerMax	4.5	SL	32 fl oz/a		EPOS	B					
10	Induce		L	0.25 % v/v		EPOS	B					

Missing data estimates are included in columns: Average=25,31,32

Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

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Pest Code				ANGR	CHEAL	AMAPO
Crop Type, Code	GLXMA	GLXMA				
Rating Date	Jun-4-2019	Jun-24-2019	Jun-24-2019	Jun-24-2019	Jun-24-2019	Jun-24-2019
Rating Type	injury	injury	control	control	control	
Rating Unit	percent	percent	percent	percent	percent	
Trt-Eval Interval	21 DA-A	12 DA-B	12 DA-B	12 DA-B	12 DA-B	12 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
11	Warrant Ultra	3.45	L	50 fl oz/a	EPOS	B		0	21	100	100	100
11	XtendiMax	2.9	L	22 fl oz/a	EPOS	B						
11	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
11	Intact		L	0.5 % v/v	EPOS	B						
12	BAS 872UAH		L	16 fl oz/a	EPOS	B		0	18	100	100	100
12	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
12	Induce		L	0.25 % v/v	EPOS	B						
13	Boundary	6.5	L	1.8 pt/a	PRE	A		3	4	100	100	100
13	Tavium	3.4	L	56.5 fl oz/a	POST	C						
13	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C						
13	Class Act Ridion		L	1 % v/v	POST	C						
13	Intact		L	0.5 % v/v	POST	C						
14	Prefix	5.29	L	2 pt/a	PRE	A		5	2	100	100	100
14	Tavium	3.4	L	56.5 fl oz/a	POST	C						
14	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C						
14	Class Act Ridion		L	1 % v/v	POST	C						
14	Intact		L	0.5 % v/v	POST	C						
15	BroadAxe XC	7	L	25 fl oz/a	PRE	A		9	4	100	100	100
15	Tavium	3.4	L	56.5 fl oz/a	POST	C						
15	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C						
15	Class Act Ridion		L	1 % v/v	POST	C						
15	Intact		L	0.5 % v/v	POST	C						
16	Zidua PRO	4.09	L	6 fl oz/a	PRE	A		6	3	100	100	100
16	Engenia PRO	4.45	L	16 fl oz/a	POST	C						
16	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
16	Induce		L	0.25 % v/v	POST	C						
17	Engenia PRO	4.45	L	16 fl oz/a	PRE	A		0	0	99	100	100
17	Metribuzin	75	WG	5 oz/a	PRE	A						
17	Engenia PRO	4.45	L	16 fl oz/a	POST	C						
17	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
17	Induce		L	0.25 % v/v	POST	C						
18	BAS 872UAH		L	16 fl oz/a	PRE	A		0	0	100	100	100
18	Engenia PRO	4.45	L	16 fl oz/a	POST	C						
18	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
18	Induce		L	0.25 % v/v	POST	C						
19	Authority Supreme	4.16	L	6.5 fl oz/a	PRE	A		1	0	100	100	100
19	Metribuzin	75	WG	6 oz/a	PRE	A						
19	Anthem MAXX	4.3	L	2.5 fl oz/a	POST	C						
19	XtendiMax	2.9	L	22 fl oz/a	POST	C						
19	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
19	Intact		L	0.5 % v/v	POST	C						

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Crop Type, Code	GLXMA	GLXMA				
Rating Date	Jun-4-2019	Jun-24-2019	Jun-24-2019	Jun-24-2019	Jun-24-2019	Jun-24-2019
Rating Type	injury	injury	control	control	control	
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	21 DA-A	12 DA-B	12 DA-B	12 DA-B	12 DA-B	12 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
20	Authority MTZ	45	WG	16 oz/a		PRE	A	0	0	96	100	100
20	Anthem MAXX	4.3	L	3 fl oz/a		POST	C					
20	XtendiMax	2.9	L	22 fl oz/a		POST	C					
20	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
20	Intact		L	0.5 % v/v		POST	C					
21	Valor	51	WG	2 oz/a		PRE	A	24	5	93	100	100
21	Metribuzin	75	WG	5 oz/a		PRE	A					
21	Warrant	3	L	3 pt/a		POST	C					
21	XtendiMax	2.9	L	22 fl oz/a		POST	C					
21	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
21	Intact		L	0.5 % v/v		POST	C					
22	Fierce	76	WG	3 oz/a		PRE	A	23	7	98	100	100
22	Warrant	3	L	3 pt/a		POST	C					
22	XtendiMax	2.9	L	22 fl oz/a		POST	C					
22	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
22	Intact		L	0.5 % v/v		POST	C					
23	XtendiMax	2.9	L	22 fl oz/a		POST	C	0	0	0	0	0
23	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
23	Intact		L	0.5 % v/v		POST	C					
LSD P=.05								3.7	2.2	3.6	.	.
Standard Deviation								2.6	1.6	2.6	0.0	0.0
CV								37.88	35.89	2.87	0.0	0.0

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Pest Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL	AMBEL
Crop Type, Code						
Rating Date	Jun-24-2019	Jun-24-2019	Jul-3-2019	Jul-3-2019	Jul-3-2019	Jul-3-2019
Rating Type	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	12 DA-B	12 DA-B	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 Timing	Appl Code						
1	Valor XLT	40.3	WG	4 oz/a		PRE	A	93	100	11	99	100	91
1	XtendiMax	2.9	L	22 fl oz/a		POST	C						
1	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C						
1	Intact		L	0.5 % v/v		POST	C						
2	Authority MTZ	45	WG	16 oz/a		PRE	A	94	100	5	100	100	93
2	XtendiMax	2.9	L	22 fl oz/a		POST	C						
2	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C						
2	Intact		L	0.5 % v/v		POST	C						
3	Fierce EZ	3.04	L	6 fl oz/a		PRE	A	99	100	3	100	100	100
3	XtendiMax	2.9	L	22 fl oz/a		POST	C						
3	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C						
3	Intact		L	0.5 % v/v		POST	C						
4	Zidua PRO	4.09	L	4.5 fl oz/a		PRE	A	98	100	4	100	98	98
4	Engenia	5	L	12.8 fl oz/a		POST	C						
4	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C						
4	Induce		L	0.25 % v/v		POST	C						
5	Valor	51	WG	2 oz/a		PRE	A	95	100	2	99	100	94
5	Mauler	4	L	6 fl oz/a		PRE	A						
5	Prowl H2O	3.8	L	1.5 pt/a		PRE	A						
5	XtendiMax	2.9	L	22 fl oz/a		POST	C						
5	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C						
5	Intact		L	0.5 % v/v		POST	C						
6	Fierce MTZ	2.64	L	16 fl oz/a		PRE	A	100	100	0	100	100	99
6	XtendiMax	2.9	L	22 fl oz/a		POST	C						
6	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C						
6	Intact		L	0.5 % v/v		POST	C						
7	Warrant	3	L	3 pt/a		PRE	A	83	100	3	99	100	88
7	Metribuzin	75	WG	5 oz/a		PRE	A						
7	XtendiMax	2.9	L	22 fl oz/a		POST	C						
7	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C						
7	Intact		L	0.5 % v/v		POST	C						
8	Warrant Ultra	3.45	L	50 fl oz/a		PRE	A	100	85	2	99	100	100
8	XtendiMax	2.9	L	22 fl oz/a		POST	C						
8	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C						
8	Intact		L	0.5 % v/v		POST	C						
9	Untreated							0	0	0	0	0	0
10	Engenia PRO	4.45	L	16 fl oz/a		EPOS	B	100	100	0	99	100	99
10	Roundup PowerMax	4.5	SL	32 fl oz/a		EPOS	B						
10	Induce		L	0.25 % v/v		EPOS	B						

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Pest Code					AMBEL	ABUTH	GLXMA	ANGR	CHEAL	AMBEL			
Crop Type, Code					Jun-24-2019	Jun-24-2019	Jul-3-2019	Jul-3-2019	Jul-3-2019	Jul-3-2019			
Rating Date					control	control	injury	control	control	control			
Rating Type					percent	percent	percent	percent	percent	percent			
Rating Unit					12 DA-B	12 DA-B	7 DA-C	7 DA-C	7 DA-C	7 DA-C			
Trt-Eval Interval					0	0	0	0	0	0			
Number of Decimals					0	0	0	0	0	0			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code						
11	Warrant Ultra	3.45	L	50 fl oz/a	EPOS	B		100	100	6	94	100	100
11	XtendiMax	2.9	L	22 fl oz/a	EPOS	B							
11	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B							
11	Intact		L	0.5 % v/v	EPOS	B							
12	BAS 872UAH		L	16 fl oz/a	EPOS	B		100	100	6	99	100	100
12	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B							
12	Induce		L	0.25 % v/v	EPOS	B							
13	Boundary	6.5	L	1.8 pt/a	PRE	A		90	100	3	100	100	91
13	Tavium	3.4	L	56.5 fl oz/a	POST	C							
13	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C							
13	Class Act Ridion		L	1 % v/v	POST	C							
13	Intact		L	0.5 % v/v	POST	C							
14	Prefix	5.29	L	2 pt/a	PRE	A		100	95	3	100	100	100
14	Tavium	3.4	L	56.5 fl oz/a	POST	C							
14	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C							
14	Class Act Ridion		L	1 % v/v	POST	C							
14	Intact		L	0.5 % v/v	POST	C							
15	BroadAxe XC	7	L	25 fl oz/a	PRE	A		76	100	4	100	100	85
15	Tavium	3.4	L	56.5 fl oz/a	POST	C							
15	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C							
15	Class Act Ridion		L	1 % v/v	POST	C							
15	Intact		L	0.5 % v/v	POST	C							
16	Zidua PRO	4.09	L	6 fl oz/a	PRE	A		99	100	6	100	100	100
16	Engenia PRO	4.45	L	16 fl oz/a	POST	C							
16	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C							
16	Induce		L	0.25 % v/v	POST	C							
17	Engenia PRO	4.45	L	16 fl oz/a	PRE	A		98	100	3	100	100	100
17	Metribuzin	75	WG	5 oz/a	PRE	A							
17	Engenia PRO	4.45	L	16 fl oz/a	POST	C							
17	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C							
17	Induce		L	0.25 % v/v	POST	C							
18	BAS 872UAH		L	16 fl oz/a	PRE	A		100	100	4	100	100	100
18	Engenia PRO	4.45	L	16 fl oz/a	POST	C							
18	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C							
18	Induce		L	0.25 % v/v	POST	C							
19	Authority Supreme	4.16	L	6.5 fl oz/a	PRE	A		98	100	8	100	100	99
19	Metribuzin	75	WG	6 oz/a	PRE	A							
19	Anthem MAXX	4.3	L	2.5 fl oz/a	POST	C							
19	XtendiMax	2.9	L	22 fl oz/a	POST	C							
19	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C							
19	Intact		L	0.5 % v/v	POST	C							

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Pest Code		AMBEL	ABUTH		GLXMA	ANGR	CHEAL	AMBEL										
Crop Type, Code																		
Rating Date		Jun-24-2019	Jun-24-2019	Jun-24-2019	Jul-3-2019	Jul-3-2019	Jul-3-2019	Jul-3-2019										
Rating Type		control	control	injury	control	control	control	control										
Rating Unit		percent	percent	percent	percent	percent	percent	percent										
Trt-Eval Interval		12 DA-B	12 DA-B	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C										
Number of Decimals		0	0	0	0	0	0	0										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code											
20	Authority MTZ	45	WG	16 oz/a		PRE	A	82	100	10	100	100	83					
20	Anthem MAXX	4.3	L	3 fl oz/a		POST	C											
20	XtendiMax	2.9	L	22 fl oz/a		POST	C											
20	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C											
20	Intact		L	0.5 % v/v		POST	C											
21	Valor	51	WG	2 oz/a		PRE	A	97	100	1	100	100	97					
21	Metribuzin	75	WG	5 oz/a		PRE	A											
21	Warrant	3	L	3 pt/a		POST	C											
21	XtendiMax	2.9	L	22 fl oz/a		POST	C											
21	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C											
21	Intact		L	0.5 % v/v		POST	C											
22	Fierce	76	WG	3 oz/a		PRE	A	99	100	2	100	100	99					
22	Warrant	3	L	3 pt/a		POST	C											
22	XtendiMax	2.9	L	22 fl oz/a		POST	C											
22	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C											
22	Intact		L	0.5 % v/v		POST	C											
23	XtendiMax	2.9	L	22 fl oz/a		POST	C	0	0	3	91	85	70					
23	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C											
23	Intact		L	0.5 % v/v		POST	C											
LSD P=.05								5.7	7.3	4.2	1.9	1.5	5.5					
Standard Deviation								4.0	5.2	3.0	1.4	1.0	3.9					
CV								4.62	5.75	78.13	1.43	1.1	4.3					

Missing data estimates are included in columns: Average=25,31,32
 Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ABUTH	GLXMA	ANGR	CHEAL	AMAPO
Crop Type, Code	Jul-3-2019	Jul-10-2019	Jul-10-2019	Jul-10-2019	Jul-10-2019
Rating Date	control	injury	control	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	7 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					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	Valor XLT	40.3	WG	4 oz/a		PRE	A	100	3	100	100	100
1	XtendiMax	2.9	L	22 fl oz/a		POST	C					
1	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
1	Intact		L	0.5 % v/v		POST	C					
2	Authority MTZ	45	WG	16 oz/a		PRE	A	100	2	100	100	100
2	XtendiMax	2.9	L	22 fl oz/a		POST	C					
2	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
2	Intact		L	0.5 % v/v		POST	C					
3	Fierce EZ	3.04	L	6 fl oz/a		PRE	A	100	2	99	100	100
3	XtendiMax	2.9	L	22 fl oz/a		POST	C					
3	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
3	Intact		L	0.5 % v/v		POST	C					
4	Zidua PRO	4.09	L	4.5 fl oz/a		PRE	A	100	0	99	100	100
4	Engenia	5	L	12.8 fl oz/a		POST	C					
4	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
4	Induce		L	0.25 % v/v		POST	C					
5	Valor	51	WG	2 oz/a		PRE	A	100	0	98	100	100
5	Mauler	4	L	6 fl oz/a		PRE	A					
5	Prowl H2O	3.8	L	1.5 pt/a		PRE	A					
5	XtendiMax	2.9	L	22 fl oz/a		POST	C					
5	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
5	Intact		L	0.5 % v/v		POST	C					
6	Fierce MTZ	2.64	L	16 fl oz/a		PRE	A	100	0	99	100	100
6	XtendiMax	2.9	L	22 fl oz/a		POST	C					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
6	Intact		L	0.5 % v/v		POST	C					
7	Warrant	3	L	3 pt/a		PRE	A	100	0	99	100	100
7	Metribuzin	75	WG	5 oz/a		PRE	A					
7	XtendiMax	2.9	L	22 fl oz/a		POST	C					
7	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
7	Intact		L	0.5 % v/v		POST	C					
8	Warrant Ultra	3.45	L	50 fl oz/a		PRE	A	96	0	100	100	100
8	XtendiMax	2.9	L	22 fl oz/a		POST	C					
8	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
8	Intact		L	0.5 % v/v		POST	C					
9	Untreated							0	0	0	0	0
10	Engenia PRO	4.45	L	16 fl oz/a		EPOS	B	100	1	98	100	100
10	Roundup PowerMax	4.5	SL	32 fl oz/a		EPOS	B					
10	Induce		L	0.25 % v/v		EPOS	B					

Missing data estimates are included in columns: Average=25,31,32

Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ABUTH	GLXMA	ANGR	CHEAL	AMAPO
Crop Type, Code	Jul-3-2019	Jul-10-2019	Jul-10-2019	Jul-10-2019	Jul-10-2019
Rating Date	control	injury	control	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	7 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					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	ABUTH	GLXMA	ANGR	CHEAL	AMAPO
11	Warrant Ultra	3.45	L	50 fl oz/a	EPOS	B		100	2	93	100	100
11	XtendiMax	2.9	L	22 fl oz/a	EPOS	B						
11	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
11	Intact		L	0.5 % v/v	EPOS	B						
12	BAS 872UAH		L	16 fl oz/a	EPOS	B		100	1	100	100	100
12	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
12	Induce		L	0.25 % v/v	EPOS	B						
13	Boundary	6.5	L	1.8 pt/a	PRE	A		100	1	100	100	100
13	Tavium	3.4	L	56.5 fl oz/a	POST	C						
13	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C						
13	Class Act Ridion		L	1 % v/v	POST	C						
13	Intact		L	0.5 % v/v	POST	C						
14	Prefix	5.29	L	2 pt/a	PRE	A		96	2	100	100	100
14	Tavium	3.4	L	56.5 fl oz/a	POST	C						
14	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C						
14	Class Act Ridion		L	1 % v/v	POST	C						
14	Intact		L	0.5 % v/v	POST	C						
15	BroadAxe XC	7	L	25 fl oz/a	PRE	A		100	1	100	100	100
15	Tavium	3.4	L	56.5 fl oz/a	POST	C						
15	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C						
15	Class Act Ridion		L	1 % v/v	POST	C						
15	Intact		L	0.5 % v/v	POST	C						
16	Zidua PRO	4.09	L	6 fl oz/a	PRE	A		100	2	100	100	100
16	Engenia PRO	4.45	L	16 fl oz/a	POST	C						
16	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
16	Induce		L	0.25 % v/v	POST	C						
17	Engenia PRO	4.45	L	16 fl oz/a	PRE	A		100	0	100	100	100
17	Metribuzin	75	WG	5 oz/a	PRE	A						
17	Engenia PRO	4.45	L	16 fl oz/a	POST	C						
17	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
17	Induce		L	0.25 % v/v	POST	C						
18	BAS 872UAH		L	16 fl oz/a	PRE	A		100	0	100	100	100
18	Engenia PRO	4.45	L	16 fl oz/a	POST	C						
18	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
18	Induce		L	0.25 % v/v	POST	C						
19	Authority Supreme	4.16	L	6.5 fl oz/a	PRE	A		100	2	100	100	100
19	Metribuzin	75	WG	6 oz/a	PRE	A						
19	Anthem MAXX	4.3	L	2.5 fl oz/a	POST	C						
19	XtendiMax	2.9	L	22 fl oz/a	POST	C						
19	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
19	Intact		L	0.5 % v/v	POST	C						

Missing data estimates are included in columns: Average=25,31,32

Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ABUTH		ANGR	CHEAL	AMAPO
Crop Type, Code		GLXMA			
Rating Date	Jul-3-2019	Jul-10-2019	Jul-10-2019	Jul-10-2019	Jul-10-2019
Rating Type	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 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 Timing	Appl Code					
20	Authority MTZ	45	WG	16 oz/a		PRE	A	100	4	100	100	100
20	Anthem MAXX	4.3	L	3 fl oz/a		POST	C					
20	XtendiMax	2.9	L	22 fl oz/a		POST	C					
20	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
20	Intact		L	0.5 % v/v		POST	C					
21	Valor	51	WG	2 oz/a		PRE	A	100	0	100	100	100
21	Metribuzin	75	WG	5 oz/a		PRE	A					
21	Warrant	3	L	3 pt/a		POST	C					
21	XtendiMax	2.9	L	22 fl oz/a		POST	C					
21	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
21	Intact		L	0.5 % v/v		POST	C					
22	Fierce	76	WG	3 oz/a		PRE	A	100	0	100	100	100
22	Warrant	3	L	3 pt/a		POST	C					
22	XtendiMax	2.9	L	22 fl oz/a		POST	C					
22	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
22	Intact		L	0.5 % v/v		POST	C					
23	XtendiMax	2.9	L	22 fl oz/a		POST	C	81	0	99	100	100
23	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
23	Intact		L	0.5 % v/v		POST	C					
LSD P=.05								2.3	2.2	1.7	0.3	.
Standard Deviation								1.6	1.5	1.2	0.2	0.0
CV								1.74	173.46	1.29	0.22	0.0

Missing data estimates are included in columns: Average=25,31,32
 Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
Crop Type, Code					
Rating Date	Jul-10-2019	Jul-10-2019	Jul-24-2019	Jul-24-2019	Jul-24-2019
Rating Type	control	control	injury	injury	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-C	14 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 Timing	Appl Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
1	Valor XLT	40.3	WG	4 oz/a		PRE	A	99	100	0	97	100
1	XtendiMax	2.9	L	22 fl oz/a		POST	C					
1	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
1	Intact		L	0.5 % v/v		POST	C					
2	Authority MTZ	45	WG	16 oz/a		PRE	A	100	100	0	95	100
2	XtendiMax	2.9	L	22 fl oz/a		POST	C					
2	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
2	Intact		L	0.5 % v/v		POST	C					
3	Fierce EZ	3.04	L	6 fl oz/a		PRE	A	100	100	0	93	100
3	XtendiMax	2.9	L	22 fl oz/a		POST	C					
3	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
3	Intact		L	0.5 % v/v		POST	C					
4	Zidua PRO	4.09	L	4.5 fl oz/a		PRE	A	100	100	0	97	100
4	Engenia	5	L	12.8 fl oz/a		POST	C					
4	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
4	Induce		L	0.25 % v/v		POST	C					
5	Valor	51	WG	2 oz/a		PRE	A	100	100	0	96	100
5	Mauler	4	L	6 fl oz/a		PRE	A					
5	Prowl H2O	3.8	L	1.5 pt/a		PRE	A					
5	XtendiMax	2.9	L	22 fl oz/a		POST	C					
5	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
5	Intact		L	0.5 % v/v		POST	C					
6	Fierce MTZ	2.64	L	16 fl oz/a		PRE	A	100	100	0	98	100
6	XtendiMax	2.9	L	22 fl oz/a		POST	C					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
6	Intact		L	0.5 % v/v		POST	C					
7	Warrant	3	L	3 pt/a		PRE	A	98	100	0	99	100
7	Metribuzin	75	WG	5 oz/a		PRE	A					
7	XtendiMax	2.9	L	22 fl oz/a		POST	C					
7	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
7	Intact		L	0.5 % v/v		POST	C					
8	Warrant Ultra	3.45	L	50 fl oz/a		PRE	A	100	99	0	100	100
8	XtendiMax	2.9	L	22 fl oz/a		POST	C					
8	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
8	Intact		L	0.5 % v/v		POST	C					
9	Untreated							0	0	0	0	0
10	Engenia PRO	4.45	L	16 fl oz/a		EPOS	B	100	100	0	96	100
10	Roundup PowerMax	4.5	SL	32 fl oz/a		EPOS	B					
10	Induce		L	0.25 % v/v		EPOS	B					

Missing data estimates are included in columns: Average=25,31,32

Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
Crop Type, Code					
Rating Date	Jul-10-2019	Jul-10-2019	Jul-24-2019	Jul-24-2019	Jul-24-2019
Rating Type	control	control	injury	injury	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-C	14 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 Timing	Appl Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
11	Warrant Ultra	3.45	L	50 fl oz/a	EPOS	B		100	99	0	94	100
11	XtendiMax	2.9	L	22 fl oz/a	EPOS	B						
11	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
11	Intact		L	0.5 % v/v	EPOS	B						
12	BAS 872UAH		L	16 fl oz/a	EPOS	B		100	100	0	100	100
12	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
12	Induce		L	0.25 % v/v	EPOS	B						
13	Boundary	6.5	L	1.8 pt/a	PRE	A		100	100	0	100	100
13	Tavium	3.4	L	56.5 fl oz/a	POST	C						
13	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C						
13	Class Act Ridion		L	1 % v/v	POST	C						
13	Intact		L	0.5 % v/v	POST	C						
14	Prefix	5.29	L	2 pt/a	PRE	A		100	99	0	100	100
14	Tavium	3.4	L	56.5 fl oz/a	POST	C						
14	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C						
14	Class Act Ridion		L	1 % v/v	POST	C						
14	Intact		L	0.5 % v/v	POST	C						
15	BroadAxe XC	7	L	25 fl oz/a	PRE	A		99	100	0	100	100
15	Tavium	3.4	L	56.5 fl oz/a	POST	C						
15	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C						
15	Class Act Ridion		L	1 % v/v	POST	C						
15	Intact		L	0.5 % v/v	POST	C						
16	Zidua PRO	4.09	L	6 fl oz/a	PRE	A		100	100	0	100	100
16	Engenia PRO	4.45	L	16 fl oz/a	POST	C						
16	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
16	Induce		L	0.25 % v/v	POST	C						
17	Engenia PRO	4.45	L	16 fl oz/a	PRE	A		100	100	0	100	100
17	Metribuzin	75	WG	5 oz/a	PRE	A						
17	Engenia PRO	4.45	L	16 fl oz/a	POST	C						
17	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
17	Induce		L	0.25 % v/v	POST	C						
18	BAS 872UAH		L	16 fl oz/a	PRE	A		100	100	0	100	100
18	Engenia PRO	4.45	L	16 fl oz/a	POST	C						
18	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
18	Induce		L	0.25 % v/v	POST	C						
19	Authority Supreme	4.16	L	6.5 fl oz/a	PRE	A		100	100	0	100	100
19	Metribuzin	75	WG	6 oz/a	PRE	A						
19	Anthem MAXX	4.3	L	2.5 fl oz/a	POST	C						
19	XtendiMax	2.9	L	22 fl oz/a	POST	C						
19	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
19	Intact		L	0.5 % v/v	POST	C						

Missing data estimates are included in columns: Average=25,31,32

Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
Crop Type, Code					
Rating Date	Jul-10-2019	Jul-10-2019	Jul-24-2019	Jul-24-2019	Jul-24-2019
Rating Type	control	control	injury	injury	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-C	14 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 Timing	Appl Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
20	Authority MTZ	45	WG	16 oz/a		PRE	A	98	100	0	100	100
20	Anthem MAXX	4.3	L	3 fl oz/a		POST	C					
20	XtendiMax	2.9	L	22 fl oz/a		POST	C					
20	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
20	Intact		L	0.5 % v/v		POST	C					
21	Valor	51	WG	2 oz/a		PRE	A	100	100	0	99	100
21	Metribuzin	75	WG	5 oz/a		PRE	A					
21	Warrant	3	L	3 pt/a		POST	C					
21	XtendiMax	2.9	L	22 fl oz/a		POST	C					
21	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
21	Intact		L	0.5 % v/v		POST	C					
22	Fierce	76	WG	3 oz/a		PRE	A	100	100	0	100	100
22	Warrant	3	L	3 pt/a		POST	C					
22	XtendiMax	2.9	L	22 fl oz/a		POST	C					
22	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
22	Intact		L	0.5 % v/v		POST	C					
23	XtendiMax	2.9	L	22 fl oz/a		POST	C	78	100	0	97	100
23	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
23	Intact		L	0.5 % v/v		POST	C					
LSD P=.05								1.9	1.0	.	2.1	.
Standard Deviation								1.3	0.7	0.0	1.5	0.0
CV								1.43	0.71	0.0	1.59	0.0

Missing data estimates are included in columns: Average=25,31,32
 Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMAPO	AMBEL	ABUTH	GLXMA	ANGR
Crop Type, Code	Jul-24-2019	Jul-24-2019	Jul-24-2019	Aug-21-2019	Aug-21-2019
Rating Date	injury	injury	injury	injury	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	28 DA-C	28 DA-C	28 DA-C	56 DA-C	56 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 Timing	Appl Code	AMAPO	AMBEL	ABUTH	GLXMA	ANGR
1	Valor XLT	40.3	WG	4 oz/a		PRE	A	100	100	100	0	95
1	XtendiMax	2.9	L	22 fl oz/a		POST	C					
1	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
1	Intact		L	0.5 % v/v		POST	C					
2	Authority MTZ	45	WG	16 oz/a		PRE	A	100	100	100	0	95
2	XtendiMax	2.9	L	22 fl oz/a		POST	C					
2	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
2	Intact		L	0.5 % v/v		POST	C					
3	Fierce EZ	3.04	L	6 fl oz/a		PRE	A	100	100	100	0	94
3	XtendiMax	2.9	L	22 fl oz/a		POST	C					
3	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
3	Intact		L	0.5 % v/v		POST	C					
4	Zidua PRO	4.09	L	4.5 fl oz/a		PRE	A	100	100	100	2	96
4	Engenia	5	L	12.8 fl oz/a		POST	C					
4	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
4	Induce		L	0.25 % v/v		POST	C					
5	Valor	51	WG	2 oz/a		PRE	A	100	100	100	0	96
5	Mauler	4	L	6 fl oz/a		PRE	A					
5	Prowl H2O	3.8	L	1.5 pt/a		PRE	A					
5	XtendiMax	2.9	L	22 fl oz/a		POST	C					
5	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
5	Intact		L	0.5 % v/v		POST	C					
6	Fierce MTZ	2.64	L	16 fl oz/a		PRE	A	100	100	100	0	98
6	XtendiMax	2.9	L	22 fl oz/a		POST	C					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
6	Intact		L	0.5 % v/v		POST	C					
7	Warrant	3	L	3 pt/a		PRE	A	100	100	100	1	98
7	Metribuzin	75	WG	5 oz/a		PRE	A					
7	XtendiMax	2.9	L	22 fl oz/a		POST	C					
7	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
7	Intact		L	0.5 % v/v		POST	C					
8	Warrant Ultra	3.45	L	50 fl oz/a		PRE	A	100	100	100	2	99
8	XtendiMax	2.9	L	22 fl oz/a		POST	C					
8	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
8	Intact		L	0.5 % v/v		POST	C					
9	Untreated							0	0	0	0	0
10	Engenia PRO	4.45	L	16 fl oz/a		EPOS	B	100	100	100	0	94
10	Roundup PowerMax	4.5	SL	32 fl oz/a		EPOS	B					
10	Induce		L	0.25 % v/v		EPOS	B					

Missing data estimates are included in columns: Average=25,31,32

Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMAPO	AMBEL	ABUTH	GLXMA	ANGR
Crop Type, Code	Jul-24-2019	Jul-24-2019	Jul-24-2019	Aug-21-2019	Aug-21-2019
Rating Date	injury	injury	injury	injury	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	28 DA-C	28 DA-C	28 DA-C	56 DA-C	56 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 Timing	Appl Code	AMAPO	AMBEL	ABUTH	GLXMA	ANGR
11	Warrant Ultra	3.45	L	50 fl oz/a	EPOS	B		100	100	100	1	96
11	XtendiMax	2.9	L	22 fl oz/a	EPOS	B						
11	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
11	Intact		L	0.5 % v/v	EPOS	B						
12	BAS 872UAH		L	16 fl oz/a	EPOS	B		100	100	100	1	99
12	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
12	Induce		L	0.25 % v/v	EPOS	B						
13	Boundary	6.5	L	1.8 pt/a	PRE	A		100	100	100	0	100
13	Tavium	3.4	L	56.5 fl oz/a	POST	C						
13	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C						
13	Class Act Ridion		L	1 % v/v	POST	C						
13	Intact		L	0.5 % v/v	POST	C						
14	Prefix	5.29	L	2 pt/a	PRE	A		100	100	100	0	100
14	Tavium	3.4	L	56.5 fl oz/a	POST	C						
14	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C						
14	Class Act Ridion		L	1 % v/v	POST	C						
14	Intact		L	0.5 % v/v	POST	C						
15	BroadAxe XC	7	L	25 fl oz/a	PRE	A		100	100	100	0	100
15	Tavium	3.4	L	56.5 fl oz/a	POST	C						
15	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C						
15	Class Act Ridion		L	1 % v/v	POST	C						
15	Intact		L	0.5 % v/v	POST	C						
16	Zidua PRO	4.09	L	6 fl oz/a	PRE	A		100	100	100	2	100
16	Engenia PRO	4.45	L	16 fl oz/a	POST	C						
16	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
16	Induce		L	0.25 % v/v	POST	C						
17	Engenia PRO	4.45	L	16 fl oz/a	PRE	A		100	100	100	1	99
17	Metribuzin	75	WG	5 oz/a	PRE	A						
17	Engenia PRO	4.45	L	16 fl oz/a	POST	C						
17	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
17	Induce		L	0.25 % v/v	POST	C						
18	BAS 872UAH		L	16 fl oz/a	PRE	A		100	100	100	0	100
18	Engenia PRO	4.45	L	16 fl oz/a	POST	C						
18	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
18	Induce		L	0.25 % v/v	POST	C						
19	Authority Supreme	4.16	L	6.5 fl oz/a	PRE	A		100	100	100	2	100
19	Metribuzin	75	WG	6 oz/a	PRE	A						
19	Anthem MAXX	4.3	L	2.5 fl oz/a	POST	C						
19	XtendiMax	2.9	L	22 fl oz/a	POST	C						
19	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
19	Intact		L	0.5 % v/v	POST	C						

Missing data estimates are included in columns: Average=25,31,32

Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMAPO	AMBEL	ABUTH	GLXMA	ANGR
Crop Type, Code					
Rating Date	Jul-24-2019	Jul-24-2019	Jul-24-2019	Aug-21-2019	Aug-21-2019
Rating Type	injury	injury	injury	injury	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-C	28 DA-C	28 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 Timing	Appl Code	AMAPO	AMBEL	ABUTH	GLXMA	ANGR
20	Authority MTZ	45	WG	16 oz/a		PRE	A	100	100	100	1	99
20	Anthem MAXX	4.3	L	3 fl oz/a		POST	C					
20	XtendiMax	2.9	L	22 fl oz/a		POST	C					
20	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
20	Intact		L	0.5 % v/v		POST	C					
21	Valor	51	WG	2 oz/a		PRE	A	100	100	100	1	99
21	Metribuzin	75	WG	5 oz/a		PRE	A					
21	Warrant	3	L	3 pt/a		POST	C					
21	XtendiMax	2.9	L	22 fl oz/a		POST	C					
21	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
21	Intact		L	0.5 % v/v		POST	C					
22	Fierce	76	WG	3 oz/a		PRE	A	100	100	100	0	100
22	Warrant	3	L	3 pt/a		POST	C					
22	XtendiMax	2.9	L	22 fl oz/a		POST	C					
22	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
22	Intact		L	0.5 % v/v		POST	C					
23	XtendiMax	2.9	L	22 fl oz/a		POST	C	100	100	100	2	90
23	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
23	Intact		L	0.5 % v/v		POST	C					
LSD P=.05								.	.	.	1.8	3.3
Standard Deviation								0.0	0.0	0.0	1.3	2.3
CV								0.0	0.0	0.0	221.16	2.48

Missing data estimates are included in columns: Average=25,31,32
 Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA
Crop Type, Code					
Rating Date	Aug-21-2019	Aug-21-2019	Aug-21-2019	Aug-21-2019	Oct-8-2019
Rating Type	control	control	control	control	moisture
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	56 DA-C	56 DA-C	56 DA-C	56 DA-C	104 DA-C
Number of Decimals	0	0	0	0	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	Valor XLT	40.3	WG	4 oz/a		PRE	A	100	100	100	100	13.1
1	XtendiMax	2.9	L	22 fl oz/a		POST	C					
1	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
1	Intact		L	0.5 % v/v		POST	C					
2	Authority MTZ	45	WG	16 oz/a		PRE	A	100	100	100	100	13.2
2	XtendiMax	2.9	L	22 fl oz/a		POST	C					
2	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
2	Intact		L	0.5 % v/v		POST	C					
3	Fierce EZ	3.04	L	6 fl oz/a		PRE	A	100	100	100	100	13.8
3	XtendiMax	2.9	L	22 fl oz/a		POST	C					
3	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
3	Intact		L	0.5 % v/v		POST	C					
4	Zidua PRO	4.09	L	4.5 fl oz/a		PRE	A	100	100	100	100	14.2
4	Engenia	5	L	12.8 fl oz/a		POST	C					
4	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
4	Induce		L	0.25 % v/v		POST	C					
5	Valor	51	WG	2 oz/a		PRE	A	100	100	100	100	13.6
5	Mauler	4	L	6 fl oz/a		PRE	A					
5	Prowl H2O	3.8	L	1.5 pt/a		PRE	A					
5	XtendiMax	2.9	L	22 fl oz/a		POST	C					
5	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
5	Intact		L	0.5 % v/v		POST	C					
6	Fierce MTZ	2.64	L	16 fl oz/a		PRE	A	100	100	100	100	13.1
6	XtendiMax	2.9	L	22 fl oz/a		POST	C					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
6	Intact		L	0.5 % v/v		POST	C					
7	Warrant	3	L	3 pt/a		PRE	A	100	100	100	100	13.5
7	Metribuzin	75	WG	5 oz/a		PRE	A					
7	XtendiMax	2.9	L	22 fl oz/a		POST	C					
7	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
7	Intact		L	0.5 % v/v		POST	C					
8	Warrant Ultra	3.45	L	50 fl oz/a		PRE	A	100	100	100	100	13.2
8	XtendiMax	2.9	L	22 fl oz/a		POST	C					
8	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
8	Intact		L	0.5 % v/v		POST	C					
9	Untreated							0	0	0	0	16.0
10	Engenia PRO	4.45	L	16 fl oz/a		EPOS	B	100	100	100	100	13.8
10	Roundup PowerMax	4.5	SL	32 fl oz/a		EPOS	B					
10	Induce		L	0.25 % v/v		EPOS	B					

Missing data estimates are included in columns: Average=25,31,32

Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA
Crop Type, Code					
Rating Date	Aug-21-2019	Aug-21-2019	Aug-21-2019	Aug-21-2019	Oct-8-2019
Rating Type	control	control	control	control	moisture
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	56 DA-C	56 DA-C	56 DA-C	56 DA-C	104 DA-C
Number of Decimals	0	0	0	0	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA
11	Warrant Ultra	3.45	L	50	fl oz/a	EPOS	B	100	100	100	100	14.2
11	XtendiMax	2.9	L	22	fl oz/a	EPOS	B					
11	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B					
11	Intact		L	0.5	% v/v	EPOS	B					
12	BAS 872UAH		L	16	fl oz/a	EPOS	B	100	100	100	100	13.1
12	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B					
12	Induce		L	0.25	% v/v	EPOS	B					
13	Boundary	6.5	L	1.8	pt/a	PRE	A	100	100	100	100	13.9
13	Tavium	3.4	L	56.5	fl oz/a	POST	C					
13	Roundup PowerMax	4.5	SL	28.4	fl oz/a	POST	C					
13	Class Act Ridion		L	1	% v/v	POST	C					
13	Intact		L	0.5	% v/v	POST	C					
14	Prefix	5.29	L	2	pt/a	PRE	A	100	100	100	100	13.7
14	Tavium	3.4	L	56.5	fl oz/a	POST	C					
14	Roundup PowerMax	4.5	SL	28.4	fl oz/a	POST	C					
14	Class Act Ridion		L	1	% v/v	POST	C					
14	Intact		L	0.5	% v/v	POST	C					
15	BroadAxe XC	7	L	25	fl oz/a	PRE	A	100	100	100	100	13.5
15	Tavium	3.4	L	56.5	fl oz/a	POST	C					
15	Roundup PowerMax	4.5	SL	28.4	fl oz/a	POST	C					
15	Class Act Ridion		L	1	% v/v	POST	C					
15	Intact		L	0.5	% v/v	POST	C					
16	Zidua PRO	4.09	L	6	fl oz/a	PRE	A	100	100	100	100	12.8
16	Engenia PRO	4.45	L	16	fl oz/a	POST	C					
16	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C					
16	Induce		L	0.25	% v/v	POST	C					
17	Engenia PRO	4.45	L	16	fl oz/a	PRE	A	100	100	100	100	14.5
17	Metribuzin	75	WG	5	oz/a	PRE	A					
17	Engenia PRO	4.45	L	16	fl oz/a	POST	C					
17	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C					
17	Induce		L	0.25	% v/v	POST	C					
18	BAS 872UAH		L	16	fl oz/a	PRE	A	100	100	100	100	13.8
18	Engenia PRO	4.45	L	16	fl oz/a	POST	C					
18	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C					
18	Induce		L	0.25	% v/v	POST	C					
19	Authority Supreme	4.16	L	6.5	fl oz/a	PRE	A	100	100	100	100	14.2
19	Metribuzin	75	WG	6	oz/a	PRE	A					
19	Anthem MAXX	4.3	L	2.5	fl oz/a	POST	C					
19	XtendiMax	2.9	L	22	fl oz/a	POST	C					
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C					
19	Intact		L	0.5	% v/v	POST	C					

Missing data estimates are included in columns: Average=25,31,32

Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA
Crop Type, Code					
Rating Date	Aug-21-2019	Aug-21-2019	Aug-21-2019	Aug-21-2019	Oct-8-2019
Rating Type	control	control	control	control	moisture
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	56 DA-C	56 DA-C	56 DA-C	56 DA-C	104 DA-C
Number of Decimals	0	0	0	0	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA
20	Authority MTZ	45	WG	16 oz/a		PRE	A	100	100	100	100	14.0
20	Anthem MAXX	4.3	L	3 fl oz/a		POST	C					
20	XtendiMax	2.9	L	22 fl oz/a		POST	C					
20	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
20	Intact		L	0.5 % v/v		POST	C					
21	Valor	51	WG	2 oz/a		PRE	A	100	100	100	100	14.5
21	Metribuzin	75	WG	5 oz/a		PRE	A					
21	Warrant	3	L	3 pt/a		POST	C					
21	XtendiMax	2.9	L	22 fl oz/a		POST	C					
21	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
21	Intact		L	0.5 % v/v		POST	C					
22	Fierce	76	WG	3 oz/a		PRE	A	100	100	100	100	13.7
22	Warrant	3	L	3 pt/a		POST	C					
22	XtendiMax	2.9	L	22 fl oz/a		POST	C					
22	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
22	Intact		L	0.5 % v/v		POST	C					
23	XtendiMax	2.9	L	22 fl oz/a		POST	C	100	100	100	100	14.2
23	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C					
23	Intact		L	0.5 % v/v		POST	C					
LSD P=.05								1.49
Standard Deviation								0.0	0.0	0.0	0.0	1.06
CV								0.0	0.0	0.0	0.0	7.65

Missing data estimates are included in columns: Average=25,31,32
 Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	
Crop Type, Code	GLXMA
Rating Date	Oct-8-2019
Rating Type	yield
Rating Unit	bu/acre
Trt-Eval Interval	at 13% M
Number of Decimals	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	
1	Valor XLT	40.3	WG	4 oz/a		PRE	A	52.3
1	XtendiMax	2.9	L	22 fl oz/a		POST	C	
1	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C	
1	Intact		L	0.5 % v/v		POST	C	
2	Authority MTZ	45	WG	16 oz/a		PRE	A	53.9
2	XtendiMax	2.9	L	22 fl oz/a		POST	C	
2	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C	
2	Intact		L	0.5 % v/v		POST	C	
3	Fierce EZ	3.04	L	6 fl oz/a		PRE	A	53.9
3	XtendiMax	2.9	L	22 fl oz/a		POST	C	
3	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C	
3	Intact		L	0.5 % v/v		POST	C	
4	Zidua PRO	4.09	L	4.5 fl oz/a		PRE	A	48.6
4	Engenia	5	L	12.8 fl oz/a		POST	C	
4	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C	
4	Induce		L	0.25 % v/v		POST	C	
5	Valor	51	WG	2 oz/a		PRE	A	55.8
5	Mauler	4	L	6 fl oz/a		PRE	A	
5	Prowl H2O	3.8	L	1.5 pt/a		PRE	A	
5	XtendiMax	2.9	L	22 fl oz/a		POST	C	
5	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C	
5	Intact		L	0.5 % v/v		POST	C	
6	Fierce MTZ	2.64	L	16 fl oz/a		PRE	A	58.9
6	XtendiMax	2.9	L	22 fl oz/a		POST	C	
6	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C	
6	Intact		L	0.5 % v/v		POST	C	
7	Warrant	3	L	3 pt/a		PRE	A	52.7
7	Metribuzin	75	WG	5 oz/a		PRE	A	
7	XtendiMax	2.9	L	22 fl oz/a		POST	C	
7	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C	
7	Intact		L	0.5 % v/v		POST	C	
8	Warrant Ultra	3.45	L	50 fl oz/a		PRE	A	51.2
8	XtendiMax	2.9	L	22 fl oz/a		POST	C	
8	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C	
8	Intact		L	0.5 % v/v		POST	C	
9	Untreated							21.6
10	Engenia PRO	4.45	L	16 fl oz/a		EPOS	B	57.6
10	Roundup PowerMax	4.5	SL	32 fl oz/a		EPOS	B	
10	Induce		L	0.25 % v/v		EPOS	B	

Missing data estimates are included in columns: Average=25,31,32

Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	
Crop Type, Code	GLXMA
Rating Date	Oct-8-2019
Rating Type	yield
Rating Unit	bu/acre
Trt-Eval Interval	at 13% M
Number of Decimals	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	
11	Warrant Ultra	3.45	L	50 fl oz/a	EPOS	B		58.1
11	XtendiMax	2.9	L	22 fl oz/a	EPOS	B		
11	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B		
11	Intact		L	0.5 % v/v	EPOS	B		
12	BAS 872UAH		L	16 fl oz/a	EPOS	B		55.6
12	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B		
12	Induce		L	0.25 % v/v	EPOS	B		
13	Boundary	6.5	L	1.8 pt/a	PRE	A		56.5
13	Tavium	3.4	L	56.5 fl oz/a	POST	C		
13	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C		
13	Class Act Ridion		L	1 % v/v	POST	C		
13	Intact		L	0.5 % v/v	POST	C		
14	Prefix	5.29	L	2 pt/a	PRE	A		52.9
14	Tavium	3.4	L	56.5 fl oz/a	POST	C		
14	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C		
14	Class Act Ridion		L	1 % v/v	POST	C		
14	Intact		L	0.5 % v/v	POST	C		
15	BroadAxe XC	7	L	25 fl oz/a	PRE	A		57.4
15	Tavium	3.4	L	56.5 fl oz/a	POST	C		
15	Roundup PowerMax	4.5	SL	28.4 fl oz/a	POST	C		
15	Class Act Ridion		L	1 % v/v	POST	C		
15	Intact		L	0.5 % v/v	POST	C		
16	Zidua PRO	4.09	L	6 fl oz/a	PRE	A		58.0
16	Engenia PRO	4.45	L	16 fl oz/a	POST	C		
16	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C		
16	Induce		L	0.25 % v/v	POST	C		
17	Engenia PRO	4.45	L	16 fl oz/a	PRE	A		47.4
17	Metribuzin	75	WG	5 oz/a	PRE	A		
17	Engenia PRO	4.45	L	16 fl oz/a	POST	C		
17	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C		
17	Induce		L	0.25 % v/v	POST	C		
18	BAS 872UAH		L	16 fl oz/a	PRE	A		52.4
18	Engenia PRO	4.45	L	16 fl oz/a	POST	C		
18	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C		
18	Induce		L	0.25 % v/v	POST	C		
19	Authority Supreme	4.16	L	6.5 fl oz/a	PRE	A		50.5
19	Metribuzin	75	WG	6 oz/a	PRE	A		
19	Anthem MAXX	4.3	L	2.5 fl oz/a	POST	C		
19	XtendiMax	2.9	L	22 fl oz/a	POST	C		
19	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C		
19	Intact		L	0.5 % v/v	POST	C		

Missing data estimates are included in columns: Average=25,31,32

Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.

Economics of commercial weed control programs in Roundup Ready 2 Xtend soybean

Trial ID: SOY01-19

Location: Campus, C-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	
Crop Type, Code	GLXMA
Rating Date	Oct-8-2019
Rating Type	yield
Rating Unit	bu/acre
Trt-Eval Interval	at 13% M
Number of Decimals	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	
20	Authority MTZ	45	WG	16 oz/a		PRE	A	52.2
20	Anthem MAXX	4.3	L	3 fl oz/a		POST	C	
20	XtendiMax	2.9	L	22 fl oz/a		POST	C	
20	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C	
20	Intact		L	0.5 % v/v		POST	C	
21	Valor	51	WG	2 oz/a		PRE	A	53.6
21	Metribuzin	75	WG	5 oz/a		PRE	A	
21	Warrant	3	L	3 pt/a		POST	C	
21	XtendiMax	2.9	L	22 fl oz/a		POST	C	
21	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C	
21	Intact		L	0.5 % v/v		POST	C	
22	Fierce	76	WG	3 oz/a		PRE	A	53.9
22	Warrant	3	L	3 pt/a		POST	C	
22	XtendiMax	2.9	L	22 fl oz/a		POST	C	
22	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C	
22	Intact		L	0.5 % v/v		POST	C	
23	XtendiMax	2.9	L	22 fl oz/a		POST	C	54.7
23	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C	
23	Intact		L	0.5 % v/v		POST	C	
	LSD P=.05							10.32
	Standard Deviation							7.31
	CV							13.89

Missing data estimates are included in columns: Average=25,31,32

Could not calculate LSD (% mean diff) for columns 4,5,16,19,21,22,23,24,27,28,29,30 because error mean square = 0.