

Comparison of commercial programs in XtendFlex soybean

Trial ID: SOY14-22 Study Dir.: Sprague, Stiles, Powell
 Conducted: Campus, T-10 Investigator:

Planting Date: May-16-2022 **Row Spacing:** 30 IN
Variety: AG24XF1 **No. of Reps:** 4
Population: 150000 seeds/A **% OM:** 2.3
Soil Type: L loam **pH:** 6.9
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	annual grass	mainly foxtail species
2	CHEAL	common lambsquarters	Chenopodium album
3	AMAPO	Powell amaranth	Amaranthus powellii
4	AMBEL	common ragweed	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
6	SINAR	wild mustard	Sinapis arvensis
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B	C
Application Timing:	PRE	EPOS	POST
Date Treated:	May-17-2022	Jun-13-2022	Jun-28-2022
Time Treated:	9:45 AM	9:00 AM	9:30 AM
% Cloud Cover:	0	0	0
Air Temp., Unit:	53 F	63 F	67 F
% Relative Humidity:	57	74	46
Wind Speed/Unit/Dir:	9 MPH NW	8 MPH ESE	5 MPH WSW
Soil Temp, Unit:	54 F	60 F	62 F
Leaf Moist/Dew Presence (Y/N):	N	N	N
Soil Moist:	5	5	5

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	GLXMA	GLXMA	GLXMA
Height:		4 "	12 "
Stage:		V1	V6

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height:		2-5 " (4)	1-8 " (4)
Stage:		2-5 (3L)	2-5 (4L)
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Height:		0.5-2 " (1)	4-8 " (6)
Stage:		2-6 (4L)	15-30 (20L)
Weed 3 Name:	AMAPO	AMAPO	AMAPO
Height:			
Stage:			
Weed 4 Name:	AMBEL	AMBEL	AMBEL
Height:		1-2 " (2)	4-12 " (6)
Stage:		2-4 (3L)	8-12 (10L)
Weed 5 Name:	ABUTH	ABUTH	ABUTH
Height:			
Stage:			
Weed 6 Name:	SINAR	SINAR	SINAR
Height:		3-4 " (4)	
Stage:		4L	

Weed Density

	1	2	3	4	5	6
Date:	Jun-28-2022	Jun-28-2022	Jun-28-2022	Jun-28-2022	Jun-28-2022	Jun-28-2022
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
Density:	10 FT2	2 FT2	1 FT2	5 FT2	1 FT2	1 FT2

Application Equipment

Comparison of commercial programs in XtendFlex soybean

Trial ID: SOY14-22 Study Dir.: Sprague, Stiles, Powell
 Conducted: Campus, T-10 Investigator:

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	TTI	11003	21.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	25 PSI
B	CUB	3.8 MPH	TTI	11003	22.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	25 PSI
C	CUB	3.8 MPH	TTI	11003	27.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	25 PSI

Comments: The soybean variety AG24XF1 is reported to have some sensitivity to the Group 14 herbicides.

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 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	C, GLXMA		ANGR	CHEAL	AMBEL	ABUTH	SINAR
Crop Type, Code	Jun-1-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022
Rating Date	injury	injury	control	control	control	control	control
Rating Type	%	%	%	%	%	%	%
Rating Unit/Min/Max	0, 100	0, 100	0, 100	0, 100	0, 100	0, 100	0, 100
Trt-Eval Interval	15 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
1	Roundup PowerMax 3	30 fl oz/a		EPOS	B	0	0	0	0	0	0
	AMS	17 lb/100 gal		EPOS	B						
2	Liberty	32 fl oz/a		EPOS	B	0	0	0	0	0	0
	Roundup PowerMax 3	30 fl oz/a		EPOS	B						
	AMS	17 lb/100 gal		EPOS	B						
3	XtendiMax	22 fl oz/a		EPOS	B	0	0	0	0	0	0
	Roundup PowerMax 3	30 fl oz/a		EPOS	B						
	VaporGrip	20 fl oz/a		EPOS	B						
	Cognitive 1	0.5 % v/v		EPOS	B						
4	Engenia	12.8 fl oz/a		EPOS	B	0	0	0	0	0	0
	Zidua	2.5 fl oz/a		EPOS	B						
	Roundup PowerMax 3	30 fl oz/a		EPOS	B						
	Sentris	8 fl oz/a		EPOS	B						
5	Untreated					0	0	0	0	0	0
6	FirstRate	0.6 oz/a		PRE	A	0	1	100	100	92	100
	Dual II Magnum	1.33 pt/a		PRE	A						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	Liberty	32 fl oz/a		POST	C						
	AMS	17 lb/100 gal		POST	C						
7	Zidua PRO	4.5 fl oz/a		PRE	A	31	26	100	100	100	100
	Liberty	32 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	AMS	3 lb/100 gal		POST	C						
8	Authority Edge	8 fl oz/a		PRE	A	15	13	100	100	99	100
	Metribuzin	6 oz/a		PRE	A						
	Liberty	32 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	AMS	17 lb/a		POST	C						
9	Fierce MTZ	1 pt/a		PRE	A	8	5	100	100	100	100
	Classic	0.33 oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	Crop oil concentrate	1 % v/v		POST	C						
	AMS	17 lb/100 gal		POST	C						
10	Tendovo	1.75 qt/a		PRE	A	6	3	100	100	97	100
	Sequence	2.75 pt/a		POST	C						
	Liberty	32 fl oz/a		POST	C						
	AMS	17 lb/a		POST	C						
11	Authority Edge	7 fl oz/a		PRE	A	21	13	100	100	98	100
	Metribuzin	6 oz/a		PRE	A						
	Anthem MAXX	3 fl oz/a		POST	C						
	Liberty	32 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	AMS	17 lb/a		POST	C						
12	Sonic	5 oz/a		PRE	A	22	18	100	100	100	100
	Metribuzin	5 oz/a		PRE	A						
	XtendiMax	22 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	VaporGrip	20 fl oz/a		POST	C						
	Cognitive 1	0.5 % v/v		POST	C						

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28
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 Investigator (Creator): Christy Sprague

Pest Code	C, GLXMA		ANGR	CHEAL	AMBEL	ABUTH	SINAR
Crop Type, Code	Jun-1-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022
Rating Date	injury	injury	control	control	control	control	control
Rating Type	%	%	%	%	%	%	%
Rating Unit/Min/Max	0, 100	0, 100	0, 100	0, 100	0, 100	0, 100	0, 100
Trt-Eval Interval	15 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
13	Warrant	48 fl oz/a		EPOS	B	0	0	0	0	0	0
	XtendiMax	22 fl oz/a		EPOS	B						
	Roundup PowerMax 3	30 fl oz/a		EPOS	B						
	VaporGrip	20 fl oz/a		EPOS	B						
	Cognitive 1	0.5 % v/v		EPOS	B						
14	Fierce EZ	6 fl oz/a		PRE	A	12	2	100	100	100	100
	Perpetuo	6 fl oz/a		POST	C						
	XtendiMax	22 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	VaporGrip	20 fl oz/a		POST	C						
	Cognitive 1	0.5 % v/v		POST	C						
15	Fierce MTZ	1 pt/a		PRE	A	11	3	100	100	98	100
	Perpetuo	6 fl oz/a		POST	C						
	XtendiMax	22 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	VaporGrip	20 fl oz/a		POST	C						
	Cognitive 1	0.5 % v/v		POST	C						
16	Fierce XLT	4 oz/a		PRE	A	13	4	100	100	100	100
	Perpetuo	6 fl oz/a		POST	C						
	XtendiMax	22 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	VaporGrip	20 fl oz/a		POST	C						
	Cognitive 1	0.5 % v/v		POST	C						
17	Tendovo	1.75 qt/a		PRE	A	0	0	100	100	100	100
	Tavium	3.53 pt/a		POST	C						
	Roundup PowerMax 3	20 fl oz/a		POST	C						
	Class Act Ridion	1 % v/v		POST	C						
	Volt Edge	20 fl oz/a		POST	C						
	Cognitive 1	0.5 % v/v		POST	C						
18	Valor EZ	2 fl oz/a		PRE	A	5	3	100	100	100	100
	Mauler	8 fl oz/a		PRE	A						
	XtendiMax	22 fl oz/a		PRE	A						
	VaporGrip	20 fl oz/a		PRE	A						
	Warrant	48 fl oz/a		POST	C						
	Liberty	32 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	AMS	17 lb/100 gal		POST	C						
19	Fierce MTZ	1 pt/a		PRE	A	15	2	100	100	100	100
	Warrant	48 fl oz/a		POST	C						
	XtendiMax	22 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	VaporGrip	20 fl oz/a		POST	C						
	Cognitive 1	0.5 % v/v		POST	C						
	LSD P=.05					8.9	6.2	.	.	4.3	.
	Standard Deviation					6.3	4.4	0.0	0.0	3.0	0.0
	CV					75.32	90.47	0.0	0.0	4.45	0.0

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Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code	C, GLXMA				
Rating Date	Jun-27-2022	Jun-27-2022	Jun-27-2022	Jun-27-2022	Jun-27-2022
Rating Type	injury	control	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
1	Roundup PowerMax 3	30 fl oz/a		EPOS	B	0	92	90	100	85	90
	AMS	17 lb/100 gal		EPOS	B						
2	Liberty	32 fl oz/a		EPOS	B	1	94	99	100	91	96
	Roundup PowerMax 3	30 fl oz/a		EPOS	B						
	AMS	17 lb/100 gal		EPOS	B						
3	XtendiMax	22 fl oz/a		EPOS	B	1	97	100	100	93	96
	Roundup PowerMax 3	30 fl oz/a		EPOS	B						
	VaporGrip	20 fl oz/a		EPOS	B						
	Cognitive 1	0.5 % v/v		EPOS	B						
4	Engenia	12.8 fl oz/a		EPOS	B	3	94	100	100	93	97
	Zidua	2.5 fl oz/a		EPOS	B						
	Roundup PowerMax 3	30 fl oz/a		EPOS	B						
	Sentris	8 fl oz/a		EPOS	B						
5	Untreated					0	0	0	0	0	0
6	FirstRate	0.6 oz/a		PRE	A	0	100	100	100	76	100
	Dual II Magnum	1.33 pt/a		PRE	A						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	Liberty	32 fl oz/a		POST	C						
	AMS	17 lb/100 gal		POST	C						
7	Zidua PRO	4.5 fl oz/a		PRE	A	21	99	100	100	98	100
	Liberty	32 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	AMS	3 lb/100 gal		POST	C						
8	Authority Edge	8 fl oz/a		PRE	A	5	100	100	100	77	100
	Metribuzin	6 oz/a		PRE	A						
	Liberty	32 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	AMS	17 lb/a		POST	C						
9	Fierce MTZ	1 pt/a		PRE	A	2	98	100	100	98	100
	Classic	0.33 oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	Crop oil concentrate	1 % v/v		POST	C						
	AMS	17 lb/100 gal		POST	C						
10	Tendovo	1.75 qt/a		PRE	A	1	99	100	100	92	100
	Sequence	2.75 pt/a		POST	C						
	Liberty	32 fl oz/a		POST	C						
	AMS	17 lb/a		POST	C						
11	Authority Edge	7 fl oz/a		PRE	A	4	99	100	100	95	100
	Metribuzin	6 oz/a		PRE	A						
	Anthem MAXX	3 fl oz/a		POST	C						
	Liberty	32 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	AMS	17 lb/a		POST	C						
12	Sonic	5 oz/a		PRE	A	6	93	100	100	83	100
	Metribuzin	5 oz/a		PRE	A						
	XtendiMax	22 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	VaporGrip	20 fl oz/a		POST	C						
	Cognitive 1	0.5 % v/v		POST	C						

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Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code	C, GLXMA				
Rating Date	Jun-27-2022	Jun-27-2022	Jun-27-2022	Jun-27-2022	Jun-27-2022
Rating Type	injury	control	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
13	Warrant	48 fl oz/a		EPOS	B	1	89	100	100	86	93
	XtendiMax	22 fl oz/a		EPOS	B						
	Roundup PowerMax 3	30 fl oz/a		EPOS	B						
	VaporGrip	20 fl oz/a		EPOS	B						
	Cognitive 1	0.5 % v/v		EPOS	B						
14	Fierce EZ	6 fl oz/a		PRE	A	1	98	100	100	94	100
	Perpetuo	6 fl oz/a		POST	C						
	XtendiMax	22 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	VaporGrip	20 fl oz/a		POST	C						
	Cognitive 1	0.5 % v/v		POST	C						
15	Fierce MTZ	1 pt/a		PRE	A	1	97	100	100	93	100
	Perpetuo	6 fl oz/a		POST	C						
	XtendiMax	22 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	VaporGrip	20 fl oz/a		POST	C						
	Cognitive 1	0.5 % v/v		POST	C						
16	Fierce XLT	4 oz/a		PRE	A	2	95	100	100	96	100
	Perpetuo	6 fl oz/a		POST	C						
	XtendiMax	22 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	VaporGrip	20 fl oz/a		POST	C						
	Cognitive 1	0.5 % v/v		POST	C						
17	Tendovo	1.75 qt/a		PRE	A	0	100	100	100	89	100
	Tavium	3.53 pt/a		POST	C						
	Roundup PowerMax 3	20 fl oz/a		POST	C						
	Class Act Ridion	1 % v/v		POST	C						
	Volt Edge	20 fl oz/a		POST	C						
	Cognitive 1	0.5 % v/v		POST	C						
18	Valor EZ	2 fl oz/a		PRE	A	0	93	100	100	95	100
	Mauler	8 fl oz/a		PRE	A						
	XtendiMax	22 fl oz/a		PRE	A						
	VaporGrip	20 fl oz/a		PRE	A						
	Warrant	48 fl oz/a		POST	C						
	Liberty	32 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	AMS	17 lb/100 gal		POST	C						
19	Fierce MTZ	1 pt/a		PRE	A	0	99	100	100	100	100
	Warrant	48 fl oz/a		POST	C						
	XtendiMax	22 fl oz/a		POST	C						
	Roundup PowerMax 3	30 fl oz/a		POST	C						
	VaporGrip	20 fl oz/a		POST	C						
	Cognitive 1	0.5 % v/v		POST	C						
	LSD P=.05					3.1	5.4	2.9	.	7.9	5.9
	Standard Deviation					2.2	3.8	2.1	0.0	5.6	4.2
	CV					86.6	4.17	2.19	0.0	6.48	4.48

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Pest Code	SINAR	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code	C, GLXMA					
Rating Date	Jun-27-2022	Jul-5-2022	Jul-5-2022	Jul-5-2022	Jul-5-2022	Jul-5-2022
Rating Type	control	injury	control	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 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

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code	SINAR	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	
1	Roundup PowerMax 3	30 fl oz/a		EPOS	B	100	0	84	85	100	83	89
	AMS	17 lb/100 gal		EPOS	B							
2	Liberty	32 fl oz/a		EPOS	B	99	0	89	92	99	84	98
	Roundup PowerMax 3	30 fl oz/a		EPOS	B							
	AMS	17 lb/100 gal		EPOS	B							
3	XtendiMax	22 fl oz/a		EPOS	B	100	0	96	100	100	100	99
	Roundup PowerMax 3	30 fl oz/a		EPOS	B							
	VaporGrip	20 fl oz/a		EPOS	B							
	Cognitive 1	0.5 % v/v		EPOS	B							
4	Engenia	12.8 fl oz/a		EPOS	B	99	0	96	100	100	100	100
	Zidua	2.5 fl oz/a		EPOS	B							
	Roundup PowerMax 3	30 fl oz/a		EPOS	B							
	Sentris	8 fl oz/a		EPOS	B							
5	Untreated					0	0	0	0	0	0	0
6	FirstRate	0.6 oz/a		PRE	A	100	1	100	100	100	100	100
	Dual II Magnum	1.33 pt/a		PRE	A							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	Liberty	32 fl oz/a		POST	C							
	AMS	17 lb/100 gal		POST	C							
7	Zidua PRO	4.5 fl oz/a		PRE	A	100	21	100	100	100	100	100
	Liberty	32 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	AMS	3 lb/100 gal		POST	C							
8	Authority Edge	8 fl oz/a		PRE	A	100	4	100	100	100	100	100
	Metribuzin	6 oz/a		PRE	A							
	Liberty	32 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	AMS	17 lb/a		POST	C							
9	Fierce MTZ	1 pt/a		PRE	A	100	1	100	100	100	100	100
	Classic	0.33 oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	Crop oil concentrate	1 % v/v		POST	C							
	AMS	17 lb/100 gal		POST	C							
10	Tendovo	1.75 qt/a		PRE	A	100	9	100	100	100	100	100
	Sequence	2.75 pt/a		POST	C							
	Liberty	32 fl oz/a		POST	C							
	AMS	17 lb/a		POST	C							
11	Authority Edge	7 fl oz/a		PRE	A	100	13	100	100	100	100	100
	Metribuzin	6 oz/a		PRE	A							
	Anthem MAXX	3 fl oz/a		POST	C							
	Liberty	32 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	AMS	17 lb/a		POST	C							
12	Sonic	5 oz/a		PRE	A	100	5	100	100	100	98	100
	Metribuzin	5 oz/a		PRE	A							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28
 Could not calculate LSD (% mean diff) for columns 3,4,6,7,11,32,35 because error mean square = 0.

Michigan State University

Comparison of commercial programs in XtendFlex soybean

Trial ID: SOY14-22 Cooperator Trial ID:
 Protocol ID: SOY14-22 Location: Campus, T-10 Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	SINAR	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code	C, GLXMA					
Rating Date	Jun-27-2022	Jul-5-2022	Jul-5-2022	Jul-5-2022	Jul-5-2022	Jul-5-2022
Rating Type	control	injury	control	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 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

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code	SINAR	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	
13	Warrant	48 fl oz/a		EPOS	B	100	0	86	100	100	98	96
	XtendiMax	22 fl oz/a		EPOS	B							
	Roundup PowerMax 3	30 fl oz/a		EPOS	B							
	VaporGrip	20 fl oz/a		EPOS	B							
	Cognitive 1	0.5 % v/v		EPOS	B							
14	Fierce EZ	6 fl oz/a		PRE	A	100	9	100	100	100	99	100
	Perpetuo	6 fl oz/a		POST	C							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
15	Fierce MTZ	1 pt/a		PRE	A	100	7	98	100	100	99	100
	Perpetuo	6 fl oz/a		POST	C							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
16	Fierce XLT	4 oz/a		PRE	A	100	6	100	100	100	100	100
	Perpetuo	6 fl oz/a		POST	C							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
17	Tendovo	1.75 qt/a		PRE	A	100	2	100	100	100	97	100
	Tavium	3.53 pt/a		POST	C							
	Roundup PowerMax 3	20 fl oz/a		POST	C							
	Class Act Ridion	1 % v/v		POST	C							
	Volt Edge	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
18	Valor EZ	2 fl oz/a		PRE	A	100	2	100	100	100	100	100
	Mauler	8 fl oz/a		PRE	A							
	XtendiMax	22 fl oz/a		PRE	A							
	VaporGrip	20 fl oz/a		PRE	A							
	Warrant	48 fl oz/a		POST	C							
	Liberty	32 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	AMS	17 lb/100 gal		POST	C							
19	Fierce MTZ	1 pt/a		PRE	A	100	1	100	100	100	100	100
	Warrant	48 fl oz/a		POST	C							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
	LSD P=.05					0.7	4.4	4.1	3.2	0.8	2.9	4.2
	Standard Deviation					0.5	3.1	2.9	2.2	0.6	2.0	2.9
	CV					0.52	71.81	3.13	2.38	0.61	2.21	3.13

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28
 Could not calculate LSD (% mean diff) for columns 3,4,6,7,11,32,35 because error mean square = 0.

Michigan State University

Comparison of commercial programs in XtendFlex soybean

Trial ID: SOY14-22 Cooperator Trial ID:
 Protocol ID: SOY14-22 Location: Campus, T-10 Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	SINAR	C, GLXMA	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code	Jul-5-2022	Jul-12-2022	Jul-12-2022	Jul-12-2022	Jul-12-2022	Jul-12-2022	Jul-12-2022
Rating Date	control	injury	control	control	control	control	control
Rating Type	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Rating Unit/Min/Max	7 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C
Trt-Eval Interval	0	0	0	0	0	0	0
Number of Decimals							

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code							
1	Roundup PowerMax 3	30 fl oz/a		EPOS	B	98	0	90	83	97	83	90
	AMS	17 lb/100 gal		EPOS	B							
2	Liberty	32 fl oz/a		EPOS	B	98	0	90	95	96	81	98
	Roundup PowerMax 3	30 fl oz/a		EPOS	B							
	AMS	17 lb/100 gal		EPOS	B							
3	XtendiMax	22 fl oz/a		EPOS	B	100	0	92	100	100	100	94
	Roundup PowerMax 3	30 fl oz/a		EPOS	B							
	VaporGrip	20 fl oz/a		EPOS	B							
	Cognitive 1	0.5 % v/v		EPOS	B							
4	Engenia	12.8 fl oz/a		EPOS	B	100	0	94	100	100	100	98
	Zidua	2.5 fl oz/a		EPOS	B							
	Roundup PowerMax 3	30 fl oz/a		EPOS	B							
	Sentris	8 fl oz/a		EPOS	B							
5	Untreated					0	0	0	0	0	0	0
6	FirstRate	0.6 oz/a		PRE	A	100	0	100	100	100	100	100
	Dual II Magnum	1.33 pt/a		PRE	A							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	Liberty	32 fl oz/a		POST	C							
	AMS	17 lb/100 gal		POST	C							
7	Zidua PRO	4.5 fl oz/a		PRE	A	100	16	100	100	100	100	100
	Liberty	32 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	AMS	3 lb/100 gal		POST	C							
8	Authority Edge	8 fl oz/a		PRE	A	100	3	100	100	100	100	100
	Metribuzin	6 oz/a		PRE	A							
	Liberty	32 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	AMS	17 lb/a		POST	C							
9	Fierce MTZ	1 pt/a		PRE	A	100	0	100	100	100	100	100
	Classic	0.33 oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	Crop oil concentrate	1 % v/v		POST	C							
	AMS	17 lb/100 gal		POST	C							
10	Tendovo	1.75 qt/a		PRE	A	100	2	100	100	100	100	100
	Sequence	2.75 pt/a		POST	C							
	Liberty	32 fl oz/a		POST	C							
	AMS	17 lb/a		POST	C							
11	Authority Edge	7 fl oz/a		PRE	A	100	11	100	100	100	100	100
	Metribuzin	6 oz/a		PRE	A							
	Anthem MAXX	3 fl oz/a		POST	C							
	Liberty	32 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	AMS	17 lb/a		POST	C							
12	Sonic	5 oz/a		PRE	A	100	4	100	100	100	100	100
	Metribuzin	5 oz/a		PRE	A							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28
 Could not calculate LSD (% mean diff) for columns 3,4,6,7,11,32,35 because error mean square = 0.

Michigan State University

Comparison of commercial programs in XtendFlex soybean

Trial ID: SOY14-22 Cooperator Trial ID:
 Protocol ID: SOY14-22 Location: Campus, T-10 Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	SINAR	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code	C, GLXMA					
Rating Date	Jul-5-2022	Jul-12-2022	Jul-12-2022	Jul-12-2022	Jul-12-2022	Jul-12-2022
Rating Type	control	injury	control	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	7 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code							
13	Warrant	48 fl oz/a		EPOS	B	100	0	85	100	100	99	93
	XtendiMax	22 fl oz/a		EPOS	B							
	Roundup PowerMax 3	30 fl oz/a		EPOS	B							
	VaporGrip	20 fl oz/a		EPOS	B							
	Cognitive 1	0.5 % v/v		EPOS	B							
14	Fierce EZ	6 fl oz/a		PRE	A	100	2	100	100	100	100	100
	Perpetuo	6 fl oz/a		POST	C							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
15	Fierce MTZ	1 pt/a		PRE	A	100	1	100	100	100	100	100
	Perpetuo	6 fl oz/a		POST	C							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
16	Fierce XLT	4 oz/a		PRE	A	100	3	100	100	100	100	100
	Perpetuo	6 fl oz/a		POST	C							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
17	Tendovo	1.75 qt/a		PRE	A	100	2	100	100	100	100	100
	Tavium	3.53 pt/a		POST	C							
	Roundup PowerMax 3	20 fl oz/a		POST	C							
	Class Act Ridion	1 % v/v		POST	C							
	Volt Edge	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
18	Valor EZ	2 fl oz/a		PRE	A	100	0	100	100	100	100	100
	Mauler	8 fl oz/a		PRE	A							
	XtendiMax	22 fl oz/a		PRE	A							
	VaporGrip	20 fl oz/a		PRE	A							
	Warrant	48 fl oz/a		POST	C							
	Liberty	32 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	AMS	17 lb/100 gal		POST	C							
19	Fierce MTZ	1 pt/a		PRE	A	100	0	96	100	100	100	100
	Warrant	48 fl oz/a		POST	C							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
	LSD P=.05					2.3	3.1	5.2	2.4	2.6	1.8	4.9
	Standard Deviation					1.7	2.2	3.7	1.7	1.8	1.3	3.5
	CV					1.75	97.27	3.99	1.78	1.91	1.36	3.73

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28
 Could not calculate LSD (% mean diff) for columns 3,4,6,7,11,32,35 because error mean square = 0.

Michigan State University

Comparison of commercial programs in XtendFlex soybean

Trial ID: SOY14-22 Cooperator Trial ID:
 Protocol ID: SOY14-22 Location: Campus, T-10 Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	SINAR	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code	C, GLXMA					
Rating Date	Jul-12-2022	Jul-26-2022	Jul-26-2022	Jul-26-2022	Jul-26-2022	Jul-26-2022
Rating Type	control	injury	control	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code							
1	Roundup PowerMax 3	30 fl oz/a		EPOS	B	100	0	84	87	100	82	93
	AMS	17 lb/100 gal		EPOS	B							
2	Liberty	32 fl oz/a		EPOS	B	92	0	89	91	100	82	94
	Roundup PowerMax 3	30 fl oz/a		EPOS	B							
	AMS	17 lb/100 gal		EPOS	B							
3	XtendiMax	22 fl oz/a		EPOS	B	98	0	93	100	100	100	100
	Roundup PowerMax 3	30 fl oz/a		EPOS	B							
	VaporGrip	20 fl oz/a		EPOS	B							
	Cognitive 1	0.5 % v/v		EPOS	B							
4	Engenia	12.8 fl oz/a		EPOS	B	100	0	98	100	100	100	99
	Zidua	2.5 fl oz/a		EPOS	B							
	Roundup PowerMax 3	30 fl oz/a		EPOS	B							
	Sentris	8 fl oz/a		EPOS	B							
5	Untreated					0	0	0	0	0	0	0
6	FirstRate	0.6 oz/a		PRE	A	100	0	100	100	100	98	100
	Dual II Magnum	1.33 pt/a		PRE	A							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	Liberty	32 fl oz/a		POST	C							
	AMS	17 lb/100 gal		POST	C							
7	Zidua PRO	4.5 fl oz/a		PRE	A	100	9	98	100	100	100	100
	Liberty	32 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	AMS	3 lb/100 gal		POST	C							
8	Authority Edge	8 fl oz/a		PRE	A	100	2	100	100	100	99	100
	Metribuzin	6 oz/a		PRE	A							
	Liberty	32 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	AMS	17 lb/a		POST	C							
9	Fierce MTZ	1 pt/a		PRE	A	100	0	100	100	100	100	100
	Classic	0.33 oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	Crop oil concentrate	1 % v/v		POST	C							
	AMS	17 lb/100 gal		POST	C							
10	Tendovo	1.75 qt/a		PRE	A	100	0	100	100	100	100	100
	Sequence	2.75 pt/a		POST	C							
	Liberty	32 fl oz/a		POST	C							
	AMS	17 lb/a		POST	C							
11	Authority Edge	7 fl oz/a		PRE	A	100	2	100	100	100	100	100
	Metribuzin	6 oz/a		PRE	A							
	Anthem MAXX	3 fl oz/a		POST	C							
	Liberty	32 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	AMS	17 lb/a		POST	C							
12	Sonic	5 oz/a		PRE	A	100	3	100	100	100	100	100
	Metribuzin	5 oz/a		PRE	A							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28
 Could not calculate LSD (% mean diff) for columns 3,4,6,7,11,32,35 because error mean square = 0.

Michigan State University

Comparison of commercial programs in XtendFlex soybean

Trial ID: SOY14-22 Cooperator Trial ID:
 Protocol ID: SOY14-22 Location: Campus, T-10 Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	SINAR	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code	C, GLXMA					
Rating Date	Jul-12-2022	Jul-26-2022	Jul-26-2022	Jul-26-2022	Jul-26-2022	Jul-26-2022
Rating Type	control	injury	control	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code	SINAR	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	
13	Warrant	48 fl oz/a		EPOS	B	100	0	85	100	100	89	
	XtendiMax	22 fl oz/a		EPOS	B							
	Roundup PowerMax 3	30 fl oz/a		EPOS	B							
	VaporGrip	20 fl oz/a		EPOS	B							
	Cognitive 1	0.5 % v/v		EPOS	B							
14	Fierce EZ	6 fl oz/a		PRE	A	100	2	100	100	100	100	
	Perpetuo	6 fl oz/a		POST	C							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
15	Fierce MTZ	1 pt/a		PRE	A	100	1	100	100	100	100	
	Perpetuo	6 fl oz/a		POST	C							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
16	Fierce XLT	4 oz/a		PRE	A	100	1	95	100	100	98	
	Perpetuo	6 fl oz/a		POST	C							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
17	Tendovo	1.75 qt/a		PRE	A	100	0	100	100	100	100	
	Tavium	3.53 pt/a		POST	C							
	Roundup PowerMax 3	20 fl oz/a		POST	C							
	Class Act Ridion	1 % v/v		POST	C							
	Volt Edge	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
18	Valor EZ	2 fl oz/a		PRE	A	100	0	100	100	100	100	
	Mauler	8 fl oz/a		PRE	A							
	XtendiMax	22 fl oz/a		PRE	A							
	VaporGrip	20 fl oz/a		PRE	A							
	Warrant	48 fl oz/a		POST	C							
	Liberty	32 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	AMS	17 lb/100 gal		POST	C							
19	Fierce MTZ	1 pt/a		PRE	A	100	1	100	100	100	100	
	Warrant	48 fl oz/a		POST	C							
	XtendiMax	22 fl oz/a		POST	C							
	Roundup PowerMax 3	30 fl oz/a		POST	C							
	VaporGrip	20 fl oz/a		POST	C							
	Cognitive 1	0.5 % v/v		POST	C							
	LSD P=.05					3.7	1.8	5.2	2.9	.	3.2	5.1
	Standard Deviation					2.6	1.2	3.7	2.0	0.0	2.3	3.6
	CV					2.74	120.93	4.03	2.17	0.0	2.44	3.87

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28
 Could not calculate LSD (% mean diff) for columns 3,4,6,7,11,32,35 because error mean square = 0.

Michigan State University

Comparison of commercial programs in XtendFlex soybean

Trial ID: SOY14-22 Cooperator Trial ID:
 Protocol ID: SOY14-22 Location: Campus, T-10 Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	SINAR		
Crop Type, Code	C, GLXMA	C, GLXMA	C, GLXMA
Rating Date	Jul-26-2022	Oct-21-2022	Oct-21-2022
Rating Type	control	moisture	yield
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	bu/A, -, -
Trt-Eval Interval	28 DA-C	115 DA-C	115 DA-C
Number of Decimals	0	1	1

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code			
1	Roundup PowerMax 3	30 fl oz/a		EPOS	B	100	15.9	59.5
	AMS	17 lb/100 gal		EPOS	B			
2	Liberty	32 fl oz/a		EPOS	B	100	15.3	52.9
	Roundup PowerMax 3	30 fl oz/a		EPOS	B			
	AMS	17 lb/100 gal		EPOS	B			
3	XtendiMax	22 fl oz/a		EPOS	B	100	15.8	52.5
	Roundup PowerMax 3	30 fl oz/a		EPOS	B			
	VaporGrip	20 fl oz/a		EPOS	B			
	Cognitive 1	0.5 % v/v		EPOS	B			
4	Engenia	12.8 fl oz/a		EPOS	B	100	14.5	60.8
	Zidua	2.5 fl oz/a		EPOS	B			
	Roundup PowerMax 3	30 fl oz/a		EPOS	B			
	Sentris	8 fl oz/a		EPOS	B			
5	Untreated					0	11.8	22.1
6	FirstRate	0.6 oz/a		PRE	A	100	15.6	58.8
	Dual II Magnum	1.33 pt/a		PRE	A			
	Roundup PowerMax 3	30 fl oz/a		POST	C			
	Liberty	32 fl oz/a		POST	C			
	AMS	17 lb/100 gal		POST	C			
7	Zidua PRO	4.5 fl oz/a		PRE	A	100	14.5	57.0
	Liberty	32 fl oz/a		POST	C			
	Roundup PowerMax 3	30 fl oz/a		POST	C			
	AMS	3 lb/100 gal		POST	C			
8	Authority Edge	8 fl oz/a		PRE	A	100	12.5	61.9
	Metribuzin	6 oz/a		PRE	A			
	Liberty	32 fl oz/a		POST	C			
	Roundup PowerMax 3	30 fl oz/a		POST	C			
	AMS	17 lb/a		POST	C			
9	Fierce MTZ	1 pt/a		PRE	A	100	12.4	67.6
	Classic	0.33 oz/a		POST	C			
	Roundup PowerMax 3	30 fl oz/a		POST	C			
	Crop oil concentrate	1 % v/v		POST	C			
	AMS	17 lb/100 gal		POST	C			
10	Tendovo	1.75 qt/a		PRE	A	100	14.8	64.1
	Sequence	2.75 pt/a		POST	C			
	Liberty	32 fl oz/a		POST	C			
	AMS	17 lb/a		POST	C			
11	Authority Edge	7 fl oz/a		PRE	A	100	14.3	58.3
	Metribuzin	6 oz/a		PRE	A			
	Anthem MAXX	3 fl oz/a		POST	C			
	Liberty	32 fl oz/a		POST	C			
	Roundup PowerMax 3	30 fl oz/a		POST	C			
	AMS	17 lb/a		POST	C			
12	Sonic	5 oz/a		PRE	A	100	13.2	62.6
	Metribuzin	5 oz/a		PRE	A			
	XtendiMax	22 fl oz/a		POST	C			
	Roundup PowerMax 3	30 fl oz/a		POST	C			
	VaporGrip	20 fl oz/a		POST	C			
	Cognitive 1	0.5 % v/v		POST	C			

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28
 Could not calculate LSD (% mean diff) for columns 3,4,6,7,11,32,35 because error mean square = 0.

Michigan State University

Comparison of commercial programs in XtendFlex soybean

Trial ID: SOY14-22 Cooperator Trial ID:
 Protocol ID: SOY14-22 Location: Campus, T-10 Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	SINAR		
Crop Type, Code	C, GLXMA	C, GLXMA	C, GLXMA
Rating Date	Jul-26-2022	Oct-21-2022	Oct-21-2022
Rating Type	control	moisture	yield
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	bu/A, -, -
Trt-Eval Interval	28 DA-C	115 DA-C	115 DA-C
Number of Decimals	0	1	1

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code			
13	Warrant	48 fl oz/a		EPOS	B	100	14.1	67.1
	XtendiMax	22 fl oz/a		EPOS	B			
	Roundup PowerMax 3	30 fl oz/a		EPOS	B			
	VaporGrip	20 fl oz/a		EPOS	B			
	Cognitive 1	0.5 % v/v		EPOS	B			
14	Fierce EZ	6 fl oz/a		PRE	A	100	13.8	60.2
	Perpetuo	6 fl oz/a		POST	C			
	XtendiMax	22 fl oz/a		POST	C			
	Roundup PowerMax 3	30 fl oz/a		POST	C			
	VaporGrip	20 fl oz/a		POST	C			
	Cognitive 1	0.5 % v/v		POST	C			
15	Fierce MTZ	1 pt/a		PRE	A	100	13.1	65.0
	Perpetuo	6 fl oz/a		POST	C			
	XtendiMax	22 fl oz/a		POST	C			
	Roundup PowerMax 3	30 fl oz/a		POST	C			
	VaporGrip	20 fl oz/a		POST	C			
	Cognitive 1	0.5 % v/v		POST	C			
16	Fierce XLT	4 oz/a		PRE	A	100	12.9	62.4
	Perpetuo	6 fl oz/a		POST	C			
	XtendiMax	22 fl oz/a		POST	C			
	Roundup PowerMax 3	30 fl oz/a		POST	C			
	VaporGrip	20 fl oz/a		POST	C			
	Cognitive 1	0.5 % v/v		POST	C			
17	Tendovo	1.75 qt/a		PRE	A	100	11.8	67.4
	Tavium	3.53 pt/a		POST	C			
	Roundup PowerMax 3	20 fl oz/a		POST	C			
	Class Act Ridion	1 % v/v		POST	C			
	Volt Edge	20 fl oz/a		POST	C			
	Cognitive 1	0.5 % v/v		POST	C			
18	Valor EZ	2 fl oz/a		PRE	A	100	13.8	65.4
	Mauler	8 fl oz/a		PRE	A			
	XtendiMax	22 fl oz/a		PRE	A			
	VaporGrip	20 fl oz/a		PRE	A			
	Warrant	48 fl oz/a		POST	C			
	Liberty	32 fl oz/a		POST	C			
	Roundup PowerMax 3	30 fl oz/a		POST	C			
	AMS	17 lb/100 gal		POST	C			
19	Fierce MTZ	1 pt/a		PRE	A	100	14.7	62.7
	Warrant	48 fl oz/a		POST	C			
	XtendiMax	22 fl oz/a		POST	C			
	Roundup PowerMax 3	30 fl oz/a		POST	C			
	VaporGrip	20 fl oz/a		POST	C			
	Cognitive 1	0.5 % v/v		POST	C			
	LSD P=.05						2.01	10.29
	Standard Deviation					0.0	1.42	7.26
	CV					0.0	10.17	12.22

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28
 Could not calculate LSD (% mean diff) for columns 3,4,6,7,11,32,35 because error mean square = 0.