

**Preemergence residual herbicide comparison in Enlist E3 soybean**

Trial ID: SOY03-20 Study Dir.: Sprague, Stiles, Powell  
 Conducted: Campus, T-10 Investigator: Christy Sprague

**Planting Date:** May-24-2020 **Row Spacing:** 30 IN  
**Variety:** P25T09E **No. of Reps:** 4  
**Population:** 156000 seeds/A **% OM:** 2.6  
**Soil Type:** L loam **pH:** 7.5  
**Plot Size:** 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall chisel plow, 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	common lambsquarters	Chenopodium album
3	AMAPO	Powell amaranth	Amaranthus powellii
4	AMBEL	common ragweed	Ambrosia artemisiifolia

Crop	Code	Common Name
1	GLXMA	Soybean

**Application Description**

	A	B	C
<b>Application Timing:</b>	PRE	EPOS	POST
<b>Date Treated:</b>	May-24-2020	Jun-18-2020	Jun-22-2020
<b>Time Treated:</b>	8:15 AM	11:00 AM	3:05 PM
<b>% Cloud Cover:</b>	0	1	50
<b>Air Temp., Unit:</b>	85 F	75 F	85 F
<b>% Relative Humidity:</b>	45	46	50
<b>Wind Speed/Unit/Dir:</b>	2 mph W	3 mph E	7 mph SW
<b>Soil Temp, Unit:</b>	74 F	71 F	89 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	5	5	5
<b>Soil Moist:</b>	5	5	5

**Crop Stage at Each Application**

	A	B	C
<b>Crop 1 Name:</b>	GLXMA	GLXMA	GLXMA
<b>Height:</b>		4 "	8 "
<b>Stage:</b>		V2	V4

**Weed Stage at Each Application**

	A	B	C
<b>Weed 1 Name:</b>	ANGR	ANGR	ANGR
<b>Height:</b>		3-8 " (5.5)	7-12 " (9.5)
<b>Stage:</b>		3-6L	4L
<b>Weed 2 Name:</b>	CHEAL	CHEAL	CHEAL
<b>Height:</b>		4-8 " (6)	2-4 " (3)
<b>Stage:</b>		2-4L	15-20L
<b>Weed 3 Name:</b>	AMAPO	AMAPO	AMAPO
<b>Height:</b>		2 "	2-4 " (3)
<b>Stage:</b>		4-6L	6-2L
<b>Weed 4 Name:</b>	AMBEL	AMBEL	AMBEL
<b>Height:</b>		2-6 " (4)	2-6 " (4)
<b>Stage:</b>		4L	4-12L

**Weed Density**

	1	2	3	4
<b>Date:</b>	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
<b>Weed Name:</b>	ANGR	CHEAL	AMAPO	AMBEL
<b>Density:</b>	28 FT2	1 FT2	1 FT2	5 FT2

**Application Equipment**

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 mph	AIXR	11003	20 "	20 "	100 "	19 GPA	WATER	30 psi
B	CUB	3.8 mph	AIXR	11003	26 "	20 "	100 "	19 GPA	WATER	30 psi
C	CUB	3.8 mph	AIXR	11003	27 "	20 "	100 "	19 GPA	WATER	30 psi

**Comments:** There was substantial seedling disease throughout this trial that exacerbated soybean injury from some of the treatments. The common ragweed (AMBEL) population in this trial is resistant to the Group 2 (ALS-inhibiting) herbicides.

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Location: Campus, T-10

Trial Year: 2020

Protocol ID: SOY03-20

Investigator (Creator): Christy Sprague

Project ID:

Study Director: Sprague, Stiles, Powell

Sponsor Contact:

Pest Code						ANGR	CHEAL	AMAPO	AMBEL				
Crop Type, Code						C GLXMA				C GLXMA			
Rating Date						Jun-15-2020	Jun-15-2020	Jun-15-2020	Jun-15-2020	Jun-15-2020	Jun-22-2020		
Rating Type						injury	control	control	control	control	injury		
Rating Unit						percent	percent	percent	percent	percent	percent		
Trt-Eval Interval						22 DA-A	22 DA-A	22 DA-A	22 DA-A	22 DA-A	0 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	Authority Edge	4.25 L		8 fl oz/a		PRE	A	13	85	100	100	85	15
	Anthem Maxx	4.3 L		2.5 fl oz/a		EPOS	B						
	Enlist One	3.8 L		32 fl oz/a		EPOS	B						
	Roundup PowerMax	4.5 SL		22 fl oz/a		EPOS	B						
	AMS	WG		17 lb/100 gal		EPOS	B						
2	Authority Supreme	4.16 L		8 fl oz/a		PRE	A	20	88	100	100	82	5
	Enlist One	3.8 L		32 fl oz/a		POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C						
	AMS	WG		17 lb/100 gal		POST	C						
3	Authority Edge	4.25 L		8 fl oz/a		PRE	A	10	83	100	100	78	2
	Enlist One	3.8 L		32 fl oz/a		POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C						
	AMS	WG		17 lb/100 gal		POST	C						
4	Authority Edge	4.25 L		10 fl oz/a		PRE	A	3	81	100	100	73	3
	Enlist One	3.8 L		32 fl oz/a		POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C						
	AMS	WG		17 lb/100 gal		POST	C						
5	Authority Edge	4.25 L		8 fl oz/a		PRE	A	4	88	100	100	90	1
	Metribuzin	75 WG		6 oz/a		PRE	A						
	Enlist One	3.8 L		32 fl oz/a		POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C						
	AMS	WG		17 lb/100 gal		POST	C						
6	Authority MTZ	45 WG		16 oz/a		PRE	A	0	87	100	100	74	2
	Enlist One	3.8 L		32 fl oz/a		POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C						
	AMS	WG		17 lb/100 gal		POST	C						
7	Untreated							0	0	0	0	0	0
8	Authority First	70 WG		6.4 oz/a		PRE	A	5	81	100	100	95	3
	Enlist One	3.8 L		32 fl oz/a		POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C						
	AMS	WG		17 lb/100 gal		POST	C						
9	Zidua PRO	4.09 L		6 fl oz/a		PRE	A	1	89	100	100	97	1
	Enlist One	3.8 L		32 fl oz/a		POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C						
	AMS	WG		17 lb/100 gal		POST	C						
10	Boundary	6.5 L		1.8 pt/a		PRE	A	3	90	100	100	82	3
	Enlist One	3.8 L		32 fl oz/a		POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C						
	AMS	WG		17 lb/100 gal		POST	C						
11	Anthem Maxx	4.3 L		3.25 fl oz/a		PRE	A	1	66	96	100	66	1
	Enlist One	3.8 L		32 fl oz/a		POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C						
	AMS	WG		17 lb/100 gal		POST	C						
12	Anthem Maxx	4.3 L		3.25 fl oz/a		PRE	A	5	92	100	100	93	5
	Metribuzin	75 WG		6 oz/a		PRE	A						
	Enlist One	3.8 L		32 fl oz/a		POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C						
	AMS	WG		17 lb/100 gal		POST	C						
	LSD P=.05							5.3	8.9	3.4	.	9.5	3.3
	Standard Deviation							3.7	6.1	2.3	0.0	6.6	2.2
	CV							75.4	7.99	2.59	0.0	8.69	81.98

Could not calculate LSD (% mean diff) for columns 4,9,17,18,19,22,23,30,31 because error mean square = 0.

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Protocol ID: SOY03-20

Investigator (Creator): Christy Sprague

Project ID:

Study Director: Sprague, Stiles, Powell

Sponsor Contact:

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ANGR	CHEAL
Crop Type, Code						
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
Rating Type	control	control	control	control	cnt/0.25m2	cnt/0.25m2
Rating Unit	percent	percent	percent	percent	AVERAGE	AVERAGE
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 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	ANGR	CHEAL	AMAPO	AMBEL	ANGR	CHEAL
1	Authority Edge	4.25 L	L	8 fl oz/a	fl oz/a	PRE	A	100	100	100	100	0	0
	Anthem Maxx	4.3 L	L	2.5 fl oz/a	fl oz/a	EPOS	B						
	Enlist One	3.8 L	L	32 fl oz/a	fl oz/a	EPOS	B						
	Roundup PowerMax	4.5 SL	SL	22 fl oz/a	fl oz/a	EPOS	B						
	AMS	WG	WG	17 lb/100 gal	lb/100 gal	EPOS	B						
2	Authority Supreme	4.16 L	L	8 fl oz/a	fl oz/a	PRE	A	85	100	100	73	4	0
	Enlist One	3.8 L	L	32 fl oz/a	fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	fl oz/a	POST	C						
	AMS	WG	WG	17 lb/100 gal	lb/100 gal	POST	C						
3	Authority Edge	4.25 L	L	8 fl oz/a	fl oz/a	PRE	A	84	100	100	76	7	0
	Enlist One	3.8 L	L	32 fl oz/a	fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	fl oz/a	POST	C						
	AMS	WG	WG	17 lb/100 gal	lb/100 gal	POST	C						
4	Authority Edge	4.25 L	L	10 fl oz/a	fl oz/a	PRE	A	83	100	100	75	9	0
	Enlist One	3.8 L	L	32 fl oz/a	fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	fl oz/a	POST	C						
	AMS	WG	WG	17 lb/100 gal	lb/100 gal	POST	C						
5	Authority Edge	4.25 L	L	8 fl oz/a	fl oz/a	PRE	A	88	100	100	86	8	0
	Metribuzin	75 WG	WG	6 oz/a	oz/a	PRE	A						
	Enlist One	3.8 L	L	32 fl oz/a	fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	fl oz/a	POST	C						
	AMS	WG	WG	17 lb/100 gal	lb/100 gal	POST	C						
6	Authority MTZ	45 WG	WG	16 oz/a	oz/a	PRE	A	78	100	100	76	14	0
	Enlist One	3.8 L	L	32 fl oz/a	fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	fl oz/a	POST	C						
	AMS	WG	WG	17 lb/100 gal	lb/100 gal	POST	C						
7	Untreated							0	0	0	0	28	0
8	Authority First	70 WG	WG	6.4 oz/a	oz/a	PRE	A	75	100	100	93	9	0
	Enlist One	3.8 L	L	32 fl oz/a	fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	fl oz/a	POST	C						
	AMS	WG	WG	17 lb/100 gal	lb/100 gal	POST	C						
9	Zidua PRO	4.09 L	L	6 fl oz/a	fl oz/a	PRE	A	85	100	100	93	11	0
	Enlist One	3.8 L	L	32 fl oz/a	fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	fl oz/a	POST	C						
	AMS	WG	WG	17 lb/100 gal	lb/100 gal	POST	C						
10	Boundary	6.5 L	L	1.8 pt/a	pt/a	PRE	A	89	100	100	79	4	0
	Enlist One	3.8 L	L	32 fl oz/a	fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	fl oz/a	POST	C						
	AMS	WG	WG	17 lb/100 gal	lb/100 gal	POST	C						
11	Anthem Maxx	4.3 L	L	3.25 fl oz/a	fl oz/a	PRE	A	69	93	100	64	17	0
	Enlist One	3.8 L	L	32 fl oz/a	fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	fl oz/a	POST	C						
	AMS	WG	WG	17 lb/100 gal	lb/100 gal	POST	C						
12	Anthem Maxx	4.3 L	L	3.25 fl oz/a	fl oz/a	PRE	A	88	100	100	88	7	0
	Metribuzin	75 WG	WG	6 oz/a	oz/a	PRE	A						
	Enlist One	3.8 L	L	32 fl oz/a	fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	fl oz/a	POST	C						
	AMS	WG	WG	17 lb/100 gal	lb/100 gal	POST	C						
LSD P=.05								6.4	6.8	.	7.9	9.4	0.3
Standard Deviation								4.4	4.7	0.0	5.4	6.5	0.2
CV								5.85	5.21	0.0	7.36	63.4	311.76

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 Protocol ID: SOY03-20 Investigator (Creator): Christy Sprague  
 Project ID: Study Director: Sprague, Stiles, Powell  
 Sponsor Contact:

Pest Code	AMAPO	AMBEL	C GLXMA	ANGR	CHEAL	AMAPO
Crop Type, Code						
Rating Date	Jun-22-2020	Jun-22-2020	Jul-6-2020	Jul-6-2020	Jul-6-2020	Jul-6-2020
Rating Type	cnt/0.25m2	cnt/0.25m2	injury	control	control	control
Rating Unit	AVERAGE	AVERAGE	percent	percent	percent	percent
Trt-Eval Interval	0 DA-C	0 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	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	Authority Edge	4.25 L		8 fl oz/a		PRE	A	0	0	9	100	100
	Anthem Maxx	4.3 L		2.5 fl oz/a		EPOS	B					
	Enlist One	3.8 L		32 fl oz/a		EPOS	B					
	Roundup PowerMax	4.5 SL		22 fl oz/a		EPOS	B					
	AMS	WG		17 lb/100 gal		EPOS	B					
2	Authority Supreme	4.16 L		8 fl oz/a		PRE	A	0	3	0	100	100
	Enlist One	3.8 L		32 fl oz/a		POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C					
	AMS	WG		17 lb/100 gal		POST	C					
3	Authority Edge	4.25 L		8 fl oz/a		PRE	A	0	2	0	100	100
	Enlist One	3.8 L		32 fl oz/a		POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C					
	AMS	WG		17 lb/100 gal		POST	C					
4	Authority Edge	4.25 L		10 fl oz/a		PRE	A	0	2	0	100	100
	Enlist One	3.8 L		32 fl oz/a		POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C					
	AMS	WG		17 lb/100 gal		POST	C					
5	Authority Edge	4.25 L		8 fl oz/a		PRE	A	0	1	0	100	100
	Metribuzin	75 WG		6 oz/a		PRE	A					
	Enlist One	3.8 L		32 fl oz/a		POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C					
	AMS	WG		17 lb/100 gal		POST	C					
6	Authority MTZ	45 WG		16 oz/a		PRE	A	0	3	0	100	100
	Enlist One	3.8 L		32 fl oz/a		POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C					
	AMS	WG		17 lb/100 gal		POST	C					
7	Untreated							1	7	0	0	0
8	Authority First	70 WG		6.4 oz/a		PRE	A	0	0	0	100	100
	Enlist One	3.8 L		32 fl oz/a		POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C					
	AMS	WG		17 lb/100 gal		POST	C					
9	Zidua PRO	4.09 L		6 fl oz/a		PRE	A	0	0	0	100	100
	Enlist One	3.8 L		32 fl oz/a		POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C					
	AMS	WG		17 lb/100 gal		POST	C					
10	Boundary	6.5 L		1.8 pt/a		PRE	A	0	1	0	100	100
	Enlist One	3.8 L		32 fl oz/a		POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C					
	AMS	WG		17 lb/100 gal		POST	C					
11	Anthem Maxx	4.3 L		3.25 fl oz/a		PRE	A	0	4	0	100	100
	Enlist One	3.8 L		32 fl oz/a		POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C					
	AMS	WG		17 lb/100 gal		POST	C					
12	Anthem Maxx	4.3 L		3.25 fl oz/a		PRE	A	0	1	0	100	100
	Metribuzin	75 WG		6 oz/a		PRE	A					
	Enlist One	3.8 L		32 fl oz/a		POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	C					
	AMS	WG		17 lb/100 gal		POST	C					
LSD P=.05								0.2	2.4	1.3	0.5	.
Standard Deviation								0.1	1.7	0.9	0.3	0.0
CV								273.39	79.78	225.14	0.34	0.0

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 Protocol ID: SOY03-20 Investigator (Creator): Christy Sprague  
 Project ID: Study Director: Sprague, Stiles, Powell  
 Sponsor Contact:

Pest Code	AMBEL	C GLXMA	ANGR	CHEAL	AMAPO	AMBEL
Crop Type, Code	Jul-6-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Rating Date	control	injury	control	control	control	control
Rating Type	percent	percent	percent	percent	percent	percent
Rating Unit	14 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Trt-Eval Interval	0	0	0	0	0	0
Number of Decimals						

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code					
1	Authority Edge	4.25 L		8 fl oz/a	PRE	A	100	3	100	100	100
	Anthem Maxx	4.3 L		2.5 fl oz/a	EPOS	B					
	Enlist One	3.8 L		32 fl oz/a	EPOS	B					
	Roundup PowerMax	4.5 SL		22 fl oz/a	EPOS	B					
	AMS	WG		17 lb/100 gal	EPOS	B					
2	Authority Supreme	4.16 L		8 fl oz/a	PRE	A	100	0	100	100	100
	Enlist One	3.8 L		32 fl oz/a	POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C					
	AMS	WG		17 lb/100 gal	POST	C					
3	Authority Edge	4.25 L		8 fl oz/a	PRE	A	100	0	99	100	100
	Enlist One	3.8 L		32 fl oz/a	POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C					
	AMS	WG		17 lb/100 gal	POST	C					
4	Authority Edge	4.25 L		10 fl oz/a	PRE	A	100	0	100	100	100
	Enlist One	3.8 L		32 fl oz/a	POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C					
	AMS	WG		17 lb/100 gal	POST	C					
5	Authority Edge	4.25 L		8 fl oz/a	PRE	A	100	0	99	100	100
	Metribuzin	75 WG		6 oz/a	PRE	A					
	Enlist One	3.8 L		32 fl oz/a	POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C					
	AMS	WG		17 lb/100 gal	POST	C					
6	Authority MTZ	45 WG		16 oz/a	PRE	A	100	0	90	100	99
	Enlist One	3.8 L		32 fl oz/a	POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C					
	AMS	WG		17 lb/100 gal	POST	C					
7	Untreated						0	0	0	0	0
8	Authority First	70 WG		6.4 oz/a	PRE	A	100	1	95	100	100
	Enlist One	3.8 L		32 fl oz/a	POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C					
	AMS	WG		17 lb/100 gal	POST	C					
9	Zidua PRO	4.09 L		6 fl oz/a	PRE	A	100	0	100	100	100
	Enlist One	3.8 L		32 fl oz/a	POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C					
	AMS	WG		17 lb/100 gal	POST	C					
10	Boundary	6.5 L		1.8 pt/a	PRE	A	100	0	99	100	100
	Enlist One	3.8 L		32 fl oz/a	POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C					
	AMS	WG		17 lb/100 gal	POST	C					
11	Anthem Maxx	4.3 L		3.25 fl oz/a	PRE	A	100	0	94	100	100
	Enlist One	3.8 L		32 fl oz/a	POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C					
	AMS	WG		17 lb/100 gal	POST	C					
12	Anthem Maxx	4.3 L		3.25 fl oz/a	PRE	A	100	0	99	100	100
	Metribuzin	75 WG		6 oz/a	PRE	A					
	Enlist One	3.8 L		32 fl oz/a	POST	C					
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C					
	AMS	WG		17 lb/100 gal	POST	C					
	LSD P=.05						.	1.4	4.7	.	0.4
	Standard Deviation						0.0	1.0	3.3	0.0	0.3
	CV						0.0	416.01	3.7	0.0	0.32

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Location: Campus, T-10

Trial Year: 2020

Protocol ID: SOY03-20

Investigator (Creator): Christy Sprague

Project ID:

Study Director: Sprague, Stiles, Powell

Sponsor Contact:

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ANGR	CHEAL
Crop Type, Code						
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020	Oct-14-2020	Oct-14-2020
Rating Type	cnt/0.25m2	cnt/0.25m2	cnt/0.25m2	cnt/0.25m2	control	control
Rating Unit	AVERAGE	AVERAGE	AVERAGE	AVERAGE	percent	percent
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C	114 DA-C	114 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	Authority Edge	4.25 L		8 fl oz/a	PRE	A	0	0	0	0	100	100
	Anthem Maxx	4.3 L		2.5 fl oz/a	EPOS	B						
	Enlist One	3.8 L		32 fl oz/a	EPOS	B						
	Roundup PowerMax	4.5 SL		22 fl oz/a	EPOS	B						
	AMS	WG		17 lb/100 gal	EPOS	B						
2	Authority Supreme	4.16 L		8 fl oz/a	PRE	A	0	0	0	0	100	100
	Enlist One	3.8 L		32 fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C						
	AMS	WG		17 lb/100 gal	POST	C						
3	Authority Edge	4.25 L		8 fl oz/a	PRE	A	0	0	0	0	99	100
	Enlist One	3.8 L		32 fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C						
	AMS	WG		17 lb/100 gal	POST	C						
4	Authority Edge	4.25 L		10 fl oz/a	PRE	A	0	0	0	0	100	100
	Enlist One	3.8 L		32 fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C						
	AMS	WG		17 lb/100 gal	POST	C						
5	Authority Edge	4.25 L		8 fl oz/a	PRE	A	0	0	0	0	100	100
	Metribuzin	75 WG		6 oz/a	PRE	A						
	Enlist One	3.8 L		32 fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C						
	AMS	WG		17 lb/100 gal	POST	C						
6	Authority MTZ	45 WG		16 oz/a	PRE	A	0	0	0	0	97	100
	Enlist One	3.8 L		32 fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C						
	AMS	WG		17 lb/100 gal	POST	C						
7	Untreated						11	2	0	8	0	0
8	Authority First	70 WG		6.4 oz/a	PRE	A	0	0	0	0	98	100
	Enlist One	3.8 L		32 fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C						
	AMS	WG		17 lb/100 gal	POST	C						
9	Zidua PRO	4.09 L		6 fl oz/a	PRE	A	0	0	0	0	100	100
	Enlist One	3.8 L		32 fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C						
	AMS	WG		17 lb/100 gal	POST	C						
10	Boundary	6.5 L		1.8 pt/a	PRE	A	0	0	0	0	100	100
	Enlist One	3.8 L		32 fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C						
	AMS	WG		17 lb/100 gal	POST	C						
11	Anthem Maxx	4.3 L		3.25 fl oz/a	PRE	A	0	0	0	0	98	100
	Enlist One	3.8 L		32 fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C						
	AMS	WG		17 lb/100 gal	POST	C						
12	Anthem Maxx	4.3 L		3.25 fl oz/a	PRE	A	0	0	0	0	99	100
	Metribuzin	75 WG		6 oz/a	PRE	A						
	Enlist One	3.8 L		32 fl oz/a	POST	C						
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C						
	AMS	WG		17 lb/100 gal	POST	C						
	LSD P=.05						1.7	0.8	0.1	1.7	3.0	.
	Standard Deviation						1.2	0.6	0.1	1.1	2.1	0.0
	CV						100.87	335.28	669.86	153.4	2.31	0.0

Could not calculate LSD (% mean diff) for columns 4,9,17,18,19,22,23,30,31 because error mean square = 0.

## Preemergence residual herbicide comparison in Enlist E3 soybean

Trial ID: SOY03-20

Location: Campus, T-10

Trial Year: 2020

Protocol ID: SOY03-20

Investigator (Creator): Christy Sprague

Project ID:

Study Director: Sprague, Stiles, Powell

Sponsor Contact:

Pest Code	AMAPO	AMBEL	C GLXMA	C GLXMA
Crop Type, Code	Oct-14-2020	Oct-14-2020	Oct-14-2020	Oct-14-2020
Rating Date	control	control	moisture	yield
Rating Type	percent	percent	percent	bu/A
Rating Unit	114 DA-C	114 DA-C	118 DA-B	at 13% M
Trt-Eval Interval	0	0	1	1
Number of Decimals				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code				
1	Authority Edge	4.25 L		8 fl oz/a	PRE	A	100	100	13.0	56.5
	Anthem Maxx	4.3 L		2.5 fl oz/a	EPOS	B				
	Enlist One	3.8 L		32 fl oz/a	EPOS	B				
	Roundup PowerMax	4.5 SL		22 fl oz/a	EPOS	B				
	AMS	WG		17 lb/100 gal	EPOS	B				
2	Authority Supreme	4.16 L		8 fl oz/a	PRE	A	100	100	15.7	57.4
	Enlist One	3.8 L		32 fl oz/a	POST	C				
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C				
	AMS	WG		17 lb/100 gal	POST	C				
3	Authority Edge	4.25 L		8 fl oz/a	PRE	A	100	100	13.2	50.0
	Enlist One	3.8 L		32 fl oz/a	POST	C				
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C				
	AMS	WG		17 lb/100 gal	POST	C				
4	Authority Edge	4.25 L		10 fl oz/a	PRE	A	100	100	13.1	54.6
	Enlist One	3.8 L		32 fl oz/a	POST	C				
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C				
	AMS	WG		17 lb/100 gal	POST	C				
5	Authority Edge	4.25 L		8 fl oz/a	PRE	A	100	100	13.0	54.7
	Metribuzin	75 WG		6 oz/a	PRE	A				
	Enlist One	3.8 L		32 fl oz/a	POST	C				
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C				
	AMS	WG		17 lb/100 gal	POST	C				
6	Authority MTZ	45 WG		16 oz/a	PRE	A	100	100	13.3	52.5
	Enlist One	3.8 L		32 fl oz/a	POST	C				
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C				
	AMS	WG		17 lb/100 gal	POST	C				
7	Untreated						0	0	19.6	19.4
8	Authority First	70 WG		6.4 oz/a	PRE	A	100	100	13.1	58.0
	Enlist One	3.8 L		32 fl oz/a	POST	C				
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C				
	AMS	WG		17 lb/100 gal	POST	C				
9	Zidua PRO	4.09 L		6 fl oz/a	PRE	A	100	100	13.0	55.5
	Enlist One	3.8 L		32 fl oz/a	POST	C				
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C				
	AMS	WG		17 lb/100 gal	POST	C				
10	Boundary	6.5 L		1.8 pt/a	PRE	A	100	100	13.3	56.7
	Enlist One	3.8 L		32 fl oz/a	POST	C				
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C				
	AMS	WG		17 lb/100 gal	POST	C				
11	Anthem Maxx	4.3 L		3.25 fl oz/a	PRE	A	100	100	13.1	54.2
	Enlist One	3.8 L		32 fl oz/a	POST	C				
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C				
	AMS	WG		17 lb/100 gal	POST	C				
12	Anthem Maxx	4.3 L		3.25 fl oz/a	PRE	A	100	99	13.2	60.1
	Metribuzin	75 WG		6 oz/a	PRE	A				
	Enlist One	3.8 L		32 fl oz/a	POST	C				
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	C				
	AMS	WG		17 lb/100 gal	POST	C				
	LSD P=.05							0.7	3.86	8.31
	Standard Deviation						0.0	0.5	2.66	5.73
	CV						0.0	0.51	19.1	10.98

Could not calculate LSD (% mean diff) for columns 4,9,17,18,19,22,23,30,31 because error mean square = 0.