

Glyphosate-resistant horseweed control in LibertyLink GT27 soybean

Trial ID: NTS08-19 Study Dir.: Sprague, Powell, Stiles
 Conducted: Isabella Co. Investigator: Christy Sprague

Planting Date: May-29-2019 **Row Spacing:** 30 IN
Variety: CZ2579 LLGT27 **No. of Reps:** 4
Population: 150000 seeds/A **% OM:** 2.6
Soil Type: LS loamy sand **pH:** 5.1
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: No-tilled into soybean stubble

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ERICA	horseweed	Conyza canadensis
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B
Application Timing:	7 EPP	POST
Date Treated:	May-21-2019	Jul-8-2019
Time Treated:	10:35 AM	10:45 AM
% Cloud Cover:	25	10
Air Temp., Unit:	53 F	72 F
% Relative Humidity:	62	55
Wind Speed/Unit/Dir:	2 mph E	3 mph E
Soil Temp, Unit:	54 F	72 F
Leaf Moist/Dew Presence (Y/N):	4	5
Soil Moist:	4	4

Crop Stage at Each Application

	A	B
Crop 1 Name:	GLXMA	GLXMA
Height:		10 "
Stage:		V6

Weed Stage at Each Application

	A	B
Weed 1 Name:	ERICA	ERICA
Height:	0.5-4 " (2.25)	0.5-16 " (6)
Stage:	2-12L	2-Many

Weed Density

	1
Date:	Jul-8-2019
Weed Name:	ERICA
Density:	21 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	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 mph	AIXR	11003	40 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments:

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Pest Code	ERICA	ERICA	GLXMA	ERICA	ERICA
Crop Type, Code					
Rating Date	May-28-2019	Jun-4-2019	Jun-18-2019	Jun-18-2019	Jul-8-2019
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	14 DA-A	28 DA-A	28 DA-A	48 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	10	15	0	8	0
1	AMS		WG	17 lb/100 gal		7 EPP	A					
1	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B					
1	AMS		WG	17 lb/100 gal		POST	B					
2	Sharpen	2.85	L	1 fl oz/a		7 EPP	A	99	99	1	86	88
2	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A					
2	MSO		L	1 % v/v		7 EPP	A					
2	AMS		WG	17 lb/100 gal		7 EPP	A					
2	Liberty	2.34	L	32 fl oz/a		POST	B					
2	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B					
2	AMS		WG	17 lb/100 gal		POST	B					
3	Alite	4	L	2 fl oz/a		7 EPP	A	99	100	0	99	98
3	Sharpen	2.85	L	1 fl oz/a		7 EPP	A					
3	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A					
3	MSO		L	1 % v/v		7 EPP	A					
3	AMS		WG	17 lb/100 gal		7 EPP	A					
3	Liberty	2.34	L	32 fl oz/a		POST	B					
3	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B					
3	AMS		WG	17 lb/100 gal		POST	B					
4	Alite	4	L	3 fl oz/a		7 EPP	A	99	99	2	100	100
4	Sharpen	2.85	L	1 fl oz/a		7 EPP	A					
4	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A					
4	MSO		L	1 % v/v		7 EPP	A					
4	AMS		WG	17 lb/100 gal		7 EPP	A					
4	Liberty	2.34	L	32 fl oz/a		POST	B					
4	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B					
4	AMS		WG	17 lb/100 gal		POST	B					
5	Alite	4	L	2 fl oz/a		7 EPP	A	98	97	2	99	99
5	Zidua SC	4.17	L	4 fl oz/a		7 EPP	A					
5	Sharpen	2.85	L	1 fl oz/a		7 EPP	A					
5	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A					
5	MSO		L	1 % v/v		7 EPP	A					
5	AMS		WG	17 lb/100 gal		7 EPP	A					
5	Liberty	2.34	L	32 fl oz/a		POST	B					
5	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B					
5	AMS		WG	17 lb/100 gal		POST	B					
6	Metribuzin	75	WG	6 oz/a		7 EPP	A	95	95	2	98	98
6	Sharpen	2.85	L	1 fl oz/a		7 EPP	A					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A					
6	MSO		L	1 % v/v		7 EPP	A					
6	AMS		WG	17 lb/100 gal		7 EPP	A					
6	Liberty	2.34	L	32 fl oz/a		POST	B					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B					
6	AMS		WG	17 lb/100 gal		POST	B					

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Pest Code	ERICA	ERICA	GLXMA	ERICA	ERICA
Crop Type, Code					
Rating Date	May-28-2019	Jun-4-2019	Jun-18-2019	Jun-18-2019	Jul-8-2019
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	14 DA-A	28 DA-A	28 DA-A	48 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code					
7	Alite	4	L	3 fl oz/a	7 EPP	A	99	99	1	100	100
7	Metribuzin	75	WG	6 oz/a	7 EPP	A					
7	Sharpen	2.85	L	1 fl oz/a	7 EPP	A					
7	Roundup PowerMax	4.5	SL	32 fl oz/a	7 EPP	A					
7	MSO		L	1 % v/v	7 EPP	A					
7	AMS		WG	17 lb/100 gal	7 EPP	A					
7	Liberty	2.34	L	32 fl oz/a	POST	B					
7	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
7	AMS		WG	17 lb/100 gal	POST	B					
8	2,4-D Ester	4	L	1 pt/a	7 EPP	A	64	65	1	65	45
8	Roundup PowerMax	4.5	SL	32 fl oz/a	7 EPP	A					
8	AMS		WG	17 lb/100 gal	7 EPP	A					
8	Liberty	2.34	L	32 fl oz/a	POST	B					
8	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
8	AMS		WG	17 lb/100 gal	POST	B					
9	Alite	4	L	3 fl oz/a	7 EPP	A	83	96	1	100	96
9	2,4-D Ester	4	L	1 pt/a	7 EPP	A					
9	Roundup PowerMax	4.5	SL	32 fl oz/a	7 EPP	A					
9	AMS		WG	17 lb/100 gal	7 EPP	A					
9	Liberty	2.34	L	32 fl oz/a	POST	B					
9	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
9	AMS		WG	17 lb/100 gal	POST	B					
10	Metribuzin	75	WG	6 oz/a	7 EPP	A	79	95	2	99	92
10	2,4-D Ester	4	L	1 pt/a	7 EPP	A					
10	Roundup PowerMax	4.5	SL	32 fl oz/a	7 EPP	A					
10	AMS		WG	17 lb/100 gal	7 EPP	A					
10	Liberty	2.34	L	32 fl oz/a	POST	B					
10	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
10	AMS		WG	17 lb/100 gal	POST	B					
11	Alite	4	L	3 fl oz/a	7 EPP	A	80	100	1	100	100
11	Metribuzin	75	WG	6 oz/a	7 EPP	A					
11	2,4-D Ester	4	L	1 pt/a	7 EPP	A					
11	Roundup PowerMax	4.5	SL	32 fl oz/a	7 EPP	A					
11	AMS		WG	17 lb/100 gal	7 EPP	A					
11	Liberty	2.34	L	32 fl oz/a	POST	B					
11	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
11	AMS		WG	17 lb/100 gal	POST	B					
12	Authority MTZ	45	WG	16 oz/a	7 EPP	A	84	89	0	88	89
12	2,4-D Ester	4	L	1 pt/a	7 EPP	A					
12	Roundup PowerMax	4.5	SL	32 fl oz/a	7 EPP	A					
12	AMS		WG	17 lb/100 gal	7 EPP	A					
12	Liberty	2.34	L	32 fl oz/a	POST	B					
12	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
12	AMS		WG	17 lb/100 gal	POST	B					
LSD P=.05							6.4	9.0	1.9	9.9	10.3
Standard Deviation							4.5	6.3	1.3	6.9	7.2
CV							5.44	7.19	147.21	7.93	8.58

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Location: Isabella Co.

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	GLXMA	ERICA	GLXMA	ERICA	ERICA
Crop Type, Code	Jul-17-2019	Jul-17-2019	Aug-7-2019	Aug-7-2019	Aug-21-2019
Rating Date	injury	control	injury	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	9 DA-B	9 DA-B	30 DA-B	30 DA-B	44 DA-B
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	0	16	0	0	18
1	AMS		WG	17 lb/100 gal		7 EPP	A					
1	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B					
1	AMS		WG	17 lb/100 gal		POST	B					
2	Sharpen	2.85	L	1 fl oz/a		7 EPP	A	0	95	0	97	92
2	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A					
2	MSO		L	1 % v/v		7 EPP	A					
2	AMS		WG	17 lb/100 gal		7 EPP	A					
2	Liberty	2.34	L	32 fl oz/a		POST	B					
2	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B					
2	AMS		WG	17 lb/100 gal		POST	B					
3	Alite	4	L	2 fl oz/a		7 EPP	A	0	100	0	100	99
3	Sharpen	2.85	L	1 fl oz/a		7 EPP	A					
3	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A					
3	MSO		L	1 % v/v		7 EPP	A					
3	AMS		WG	17 lb/100 gal		7 EPP	A					
3	Liberty	2.34	L	32 fl oz/a		POST	B					
3	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B					
3	AMS		WG	17 lb/100 gal		POST	B					
4	Alite	4	L	3 fl oz/a		7 EPP	A	0	100	0	100	99
4	Sharpen	2.85	L	1 fl oz/a		7 EPP	A					
4	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A					
4	MSO		L	1 % v/v		7 EPP	A					
4	AMS		WG	17 lb/100 gal		7 EPP	A					
4	Liberty	2.34	L	32 fl oz/a		POST	B					
4	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B					
4	AMS		WG	17 lb/100 gal		POST	B					
5	Alite	4	L	2 fl oz/a		7 EPP	A	0	100	0	100	100
5	Zidua SC	4.17	L	4 fl oz/a		7 EPP	A					
5	Sharpen	2.85	L	1 fl oz/a		7 EPP	A					
5	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A					
5	MSO		L	1 % v/v		7 EPP	A					
5	AMS		WG	17 lb/100 gal		7 EPP	A					
5	Liberty	2.34	L	32 fl oz/a		POST	B					
5	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B					
5	AMS		WG	17 lb/100 gal		POST	B					
6	Metribuzin	75	WG	6 oz/a		7 EPP	A	0	99	0	100	98
6	Sharpen	2.85	L	1 fl oz/a		7 EPP	A					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A					
6	MSO		L	1 % v/v		7 EPP	A					
6	AMS		WG	17 lb/100 gal		7 EPP	A					
6	Liberty	2.34	L	32 fl oz/a		POST	B					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B					
6	AMS		WG	17 lb/100 gal		POST	B					

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Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	GLXMA	ERICA	GLXMA	ERICA	ERICA
Crop Type, Code	Jul-17-2019	Jul-17-2019	Aug-7-2019	Aug-7-2019	Aug-21-2019
Rating Date	injury	control	injury	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	9 DA-B	9 DA-B	30 DA-B	30 DA-B	44 DA-B
Trt-Eval Interval	0	0	0	0	0
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code					
7	Alite	4	L	3 fl oz/a	7 EPP	A	0	100	0	100	98
7	Metribuzin	75	WG	6 oz/a	7 EPP	A					
7	Sharpen	2.85	L	1 fl oz/a	7 EPP	A					
7	Roundup PowerMax	4.5	SL	32 fl oz/a	7 EPP	A					
7	MSO		L	1 % v/v	7 EPP	A					
7	AMS		WG	17 lb/100 gal	7 EPP	A					
7	Liberty	2.34	L	32 fl oz/a	POST	B					
7	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
7	AMS		WG	17 lb/100 gal	POST	B					
8	2,4-D Ester	4	L	1 pt/a	7 EPP	A	0	80	0	78	66
8	Roundup PowerMax	4.5	SL	32 fl oz/a	7 EPP	A					
8	AMS		WG	17 lb/100 gal	7 EPP	A					
8	Liberty	2.34	L	32 fl oz/a	POST	B					
8	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
8	AMS		WG	17 lb/100 gal	POST	B					
9	Alite	4	L	3 fl oz/a	7 EPP	A	0	99	0	100	98
9	2,4-D Ester	4	L	1 pt/a	7 EPP	A					
9	Roundup PowerMax	4.5	SL	32 fl oz/a	7 EPP	A					
9	AMS		WG	17 lb/100 gal	7 EPP	A					
9	Liberty	2.34	L	32 fl oz/a	POST	B					
9	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
9	AMS		WG	17 lb/100 gal	POST	B					
10	Metribuzin	75	WG	6 oz/a	7 EPP	A	0	99	0	99	95
10	2,4-D Ester	4	L	1 pt/a	7 EPP	A					
10	Roundup PowerMax	4.5	SL	32 fl oz/a	7 EPP	A					
10	AMS		WG	17 lb/100 gal	7 EPP	A					
10	Liberty	2.34	L	32 fl oz/a	POST	B					
10	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
10	AMS		WG	17 lb/100 gal	POST	B					
11	Alite	4	L	3 fl oz/a	7 EPP	A	0	100	0	100	100
11	Metribuzin	75	WG	6 oz/a	7 EPP	A					
11	2,4-D Ester	4	L	1 pt/a	7 EPP	A					
11	Roundup PowerMax	4.5	SL	32 fl oz/a	7 EPP	A					
11	AMS		WG	17 lb/100 gal	7 EPP	A					
11	Liberty	2.34	L	32 fl oz/a	POST	B					
11	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
11	AMS		WG	17 lb/100 gal	POST	B					
12	Authority MTZ	45	WG	16 oz/a	7 EPP	A	0	95	0	99	97
12	2,4-D Ester	4	L	1 pt/a	7 EPP	A					
12	Roundup PowerMax	4.5	SL	32 fl oz/a	7 EPP	A					
12	AMS		WG	17 lb/100 gal	7 EPP	A					
12	Liberty	2.34	L	32 fl oz/a	POST	B					
12	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
12	AMS		WG	17 lb/100 gal	POST	B					

LSD P=.05	.	5.3	.	3.1	5.5
Standard Deviation	0.0	3.7	0.0	2.1	3.8
CV	0.0	4.05	0.0	2.39	4.31

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Study Director: Sprague, Powell, Stiles

Pest Code	ERICA
Crop Type, Code	
Rating Date	Sep-17-2019
Rating Type	control
Rating Unit	percent
Trt-Eval Interval	71 DA-B
Number of Decimals	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	
1	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	0
1	AMS		WG	17 lb/100 gal		7 EPP	A	
1	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B	
1	AMS		WG	17 lb/100 gal		POST	B	
2	Sharpen	2.85	L	1 fl oz/a		7 EPP	A	84
2	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	
2	MSO		L	1 % v/v		7 EPP	A	
2	AMS		WG	17 lb/100 gal		7 EPP	A	
2	Liberty	2.34	L	32 fl oz/a		POST	B	
2	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B	
2	AMS		WG	17 lb/100 gal		POST	B	
3	Alite	4	L	2 fl oz/a		7 EPP	A	97
3	Sharpen	2.85	L	1 fl oz/a		7 EPP	A	
3	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	
3	MSO		L	1 % v/v		7 EPP	A	
3	AMS		WG	17 lb/100 gal		7 EPP	A	
3	Liberty	2.34	L	32 fl oz/a		POST	B	
3	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B	
3	AMS		WG	17 lb/100 gal		POST	B	
4	Alite	4	L	3 fl oz/a		7 EPP	A	99
4	Sharpen	2.85	L	1 fl oz/a		7 EPP	A	
4	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	
4	MSO		L	1 % v/v		7 EPP	A	
4	AMS		WG	17 lb/100 gal		7 EPP	A	
4	Liberty	2.34	L	32 fl oz/a		POST	B	
4	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B	
4	AMS		WG	17 lb/100 gal		POST	B	
5	Alite	4	L	2 fl oz/a		7 EPP	A	98
5	Zidua SC	4.17	L	4 fl oz/a		7 EPP	A	
5	Sharpen	2.85	L	1 fl oz/a		7 EPP	A	
5	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	
5	MSO		L	1 % v/v		7 EPP	A	
5	AMS		WG	17 lb/100 gal		7 EPP	A	
5	Liberty	2.34	L	32 fl oz/a		POST	B	
5	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B	
5	AMS		WG	17 lb/100 gal		POST	B	
6	Metribuzin	75	WG	6 oz/a		7 EPP	A	96
6	Sharpen	2.85	L	1 fl oz/a		7 EPP	A	
6	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	
6	MSO		L	1 % v/v		7 EPP	A	
6	AMS		WG	17 lb/100 gal		7 EPP	A	
6	Liberty	2.34	L	32 fl oz/a		POST	B	
6	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B	
6	AMS		WG	17 lb/100 gal		POST	B	

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Pest Code	ERICA
Crop Type, Code	
Rating Date	Sep-17-2019
Rating Type	control
Rating Unit	percent
Trt-Eval Interval	71 DA-B
Number of Decimals	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	
7	Alite	4	L	3 fl oz/a		7 EPP	A	99
7	Metribuzin	75	WG	6 oz/a		7 EPP	A	
7	Sharpen	2.85	L	1 fl oz/a		7 EPP	A	
7	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	
7	MSO		L	1 % v/v		7 EPP	A	
7	AMS		WG	17 lb/100 gal		7 EPP	A	
7	Liberty	2.34	L	32 fl oz/a		POST	B	
7	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B	
7	AMS		WG	17 lb/100 gal		POST	B	
8	2,4-D Ester	4	L	1 pt/a		7 EPP	A	64
8	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	
8	AMS		WG	17 lb/100 gal		7 EPP	A	
8	Liberty	2.34	L	32 fl oz/a		POST	B	
8	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B	
8	AMS		WG	17 lb/100 gal		POST	B	
9	Alite	4	L	3 fl oz/a		7 EPP	A	96
9	2,4-D Ester	4	L	1 pt/a		7 EPP	A	
9	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	
9	AMS		WG	17 lb/100 gal		7 EPP	A	
9	Liberty	2.34	L	32 fl oz/a		POST	B	
9	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B	
9	AMS		WG	17 lb/100 gal		POST	B	
10	Metribuzin	75	WG	6 oz/a		7 EPP	A	94
10	2,4-D Ester	4	L	1 pt/a		7 EPP	A	
10	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	
10	AMS		WG	17 lb/100 gal		7 EPP	A	
10	Liberty	2.34	L	32 fl oz/a		POST	B	
10	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B	
10	AMS		WG	17 lb/100 gal		POST	B	
11	Alite	4	L	3 fl oz/a		7 EPP	A	99
11	Metribuzin	75	WG	6 oz/a		7 EPP	A	
11	2,4-D Ester	4	L	1 pt/a		7 EPP	A	
11	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	
11	AMS		WG	17 lb/100 gal		7 EPP	A	
11	Liberty	2.34	L	32 fl oz/a		POST	B	
11	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B	
11	AMS		WG	17 lb/100 gal		POST	B	
12	Authority MTZ	45	WG	16 oz/a		7 EPP	A	98
12	2,4-D Ester	4	L	1 pt/a		7 EPP	A	
12	Roundup PowerMax	4.5	SL	32 fl oz/a		7 EPP	A	
12	AMS		WG	17 lb/100 gal		7 EPP	A	
12	Liberty	2.34	L	32 fl oz/a		POST	B	
12	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B	
12	AMS		WG	17 lb/100 gal		POST	B	

LSD P=.05	4.8
Standard Deviation	3.3
CV	3.87

Could not calculate LSD (% mean diff) for columns 6,8 because error mean square = 0.