

MSU Weed Science Research Program

Impact of glyphosate-resistant horseweed treatments on sugarbeet yield

Trial ID: SB01-14
 Conducted: SVREC

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

Date Planted: May/06/2014 **Row Spacing:** 30 IN
Variety: HM-173RR **No. of Reps:** 4
Population: 49,000 seeds/A **% OM:** 2.9
Soil Type: Clay loam **pH:** 7.9
Plot Size: 10 X 30 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall moldboard plow, spring field cultivate and soil finish.

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
2.	AMARE	PIGWEEED, REDROOT	AMARANTHUS RETROFLEXUS L.
3.	POLCO	BUCKWHEAT, WILD	POLYGONUM CONVULVULUS L.
Crop	Code	Common Name	
1.	BETVU	BEEET, SUGAR	

Application Description

	A	B	C
Application Timing:	2-Leaf	6-Leaf	canopy
Date Treated:	May/27/2014	Jun/10/2014	Jul/11/2014
Time Treated:	1:15 PM	11:00 AM	12:45 PM
% Cloud Cover:	100	100	20
Air Temp., Unit:	80 F	72 F	78 F
% Relative Humidity:	65	46	53
Wind Speed/Unit/Dir:	4 mph SW	3 mph E	3 mph S
Soil Temp., Unit:	70 F	68 F	62 F
Soil/Leaf Surface M:	4 4	5 5	5 5
Soil Moist (1=w 5=d):	3	5	5

Crop Stage at Each Application

	A	B	C
Crop Name:	BETVU	BETVU	BETVU
Height (In.):	1-1.5"	5"	19"
Stage (L):	2	6	10-12

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	CHEAL	CHEAL	CHEAL
Height (In.):	0.5-1"	2-2.5"	2.5"
Stage (L):	4-6	8-Many	8
Weed 2 Name:	AMARE	AMARE	AMARE
Height (In.):	1"	1"	1.5"
Stage (L):	2	2-6	4
Weed 3 Name:	POLCO	POLCO	POLCO
Height (In.):	-	1-3"	-
Stage (L):	-	2-7	-

Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	Cub	3.8	AirMix	11003	21"	20"	100"	19	Water	30
B	Cub	3.8	AirMix	11003	22"	20"	100"	19	Water	30
C	Cub	3.8	AirMix	11003	29"	20"	100"	19	Water	30

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Weed Code								BETVU	BETVU	CHEAL	AMARE
Crop Code								injury	injury	control	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/04/2014	Jun/10/2014	Jun/10/2014	Jun/10/2014
Rating Date								8 DA-A	14 DA-A	14 DA-A	14 DA-A
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	0	0	88	99
1	AMS		WG	17	lb/100 gal	2-leaf	A				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
1	AMS		WG	17	lb/100 gal	6-leaf	B				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	3	0	95	99
2	Stinger	3	L	2	fl oz/a	2-leaf	A				
2	AMS		WG	17	lb/100 gal	2-leaf	A				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
2	AMS		WG	17	lb/100 gal	6-leaf	B				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	3	4	95	99
3	Stinger	3	L	3	fl oz/a	2-leaf	A				
3	AMS		WG	17	lb/100 gal	2-leaf	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
3	AMS		WG	17	lb/100 gal	6-leaf	B				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	4	6	97	99
4	Stinger	3	L	4	fl oz/a	2-leaf	A				
4	AMS		WG	17	lb/100 gal	2-leaf	A				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
4	AMS		WG	17	lb/100 gal	6-leaf	B				
5	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	6	2	90	99
5	Stinger	3	L	6	fl oz/a	2-leaf	A				
5	AMS		WG	17	lb/100 gal	2-leaf	A				
5	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
5	AMS		WG	17	lb/100 gal	6-leaf	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	3	1	91	99
6	Stinger	3	L	2	fl oz/a	2-leaf	A				
6	AMS		WG	17	lb/100 gal	2-leaf	A				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
6	Stinger	3	L	2	fl oz/a	6-leaf	B				
6	AMS		WG	17	lb/100 gal	6-leaf	B				
7	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	2	3	93	99
7	Stinger	3	L	3	fl oz/a	2-leaf	A				
7	AMS		WG	17	lb/100 gal	2-leaf	A				
7	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
7	Stinger	3	L	3	fl oz/a	6-leaf	B				
7	AMS		WG	17	lb/100 gal	6-leaf	B				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	2	4	94	99
8	Stinger	3	L	2	fl oz/a	2-leaf	A				
8	AMS		WG	17	lb/100 gal	2-leaf	A				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
8	Stinger	3	L	4	fl oz/a	6-leaf	B				
8	AMS		WG	17	lb/100 gal	6-leaf	B				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	0	0	85	99
9	AMS		WG	17	lb/100 gal	2-leaf	A				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
9	Stinger	3	L	4	fl oz/a	6-leaf	B				
9	AMS		WG	17	lb/100 gal	6-leaf	B				

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Weed Code								BETVU	BETVU	CHEAL	AMARE
Crop Code								injury	injury	control	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/04/2014	Jun/10/2014	Jun/10/2014	Jun/10/2014
Rating Date								8 DA-A	14 DA-A	14 DA-A	14 DA-A
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
10	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	0	0	90	99
10	AMS		WG	17	lb/100 gal	2-leaf	A				
10	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
10	Stinger	3	L	6	fl oz/a	6-leaf	B				
10	AMS		WG	17	lb/100 gal	6-leaf	B				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	0	0	91	99
11	AMS		WG	17	lb/100 gal	2-leaf	A				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
11	Stinger	3	L	8	fl oz/a	6-leaf	B				
11	AMS		WG	17	lb/100 gal	6-leaf	B				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	6	0	97	99
12	Stinger	3	L	2	fl oz/a	2-leaf	A				
12	AMS		WG	17	lb/100 gal	2-leaf	A				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
12	Stinger	3	L	4	fl oz/a	6-leaf	B				
12	AMS		WG	17	lb/100 gal	6-leaf	B				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	canopy	C				
12	Stinger	3	L	4	fl oz/a	canopy	C				
12	AMS		WG	17	lb/100 gal	canopy	C				
13	Sequence	5.25	L	2.5	pt/a	2-leaf	A	9	9	81	99
13	AMS		WG	17	lb/100 gal	2-leaf	A				
13	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B				
13	Upbeet	50	WG	1	oz/a	6-leaf	B				
13	Destiny HC		L	1	pt/a	6-leaf	B				
13	AMS		WG	17	lb/100 gal	6-leaf	B				
14	Abundit Extra	3	SL	32	fl oz/a	2-leaf	A	1	8	97	99
14	Upbeet	50	WG	0.5	oz/a	2-leaf	A				
14	Destiny HC		L	1	pt/a	2-leaf	A				
14	AMS		WG	17	lb/100 gal	2-leaf	A				
14	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B				
14	Upbeet	50	WG	0.5	oz/a	6-leaf	B				
14	Destiny HC		L	1	pt/a	6-leaf	B				
14	AMS		WG	17	lb/100 gal	6-leaf	B				
15	Abundit Extra	3	SL	32	fl oz/a	2-leaf	A	2	7	91	99
15	Upbeet	50	WG	1	oz/a	2-leaf	A				
15	Destiny HC		L	1	pt/a	2-leaf	A				
15	AMS		WG	17	lb/100 gal	2-leaf	A				
15	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B				
15	Upbeet	50	WG	1	oz/a	6-leaf	B				
15	Destiny HC		L	1	pt/a	6-leaf	B				
15	AMS		WG	17	lb/100 gal	6-leaf	B				
16	Untreated							0	0	0	0
LSD (P=.05)								2.8	3.8	8.0	0.0
CV								75.6	100.83	6.56	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

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								POLCO	BETVU	CHEAL	AMARE
								control	injury	control	control
								percent	percent	percent	percent
								Jun/10/2014	Jun/20/2014	Jun/20/2014	Jun/20/2014
								14 DA-A	24 DA-A	24 DA-A	24 DA-A
								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	98	0	98	99
1	AMS		WG	17	lb/100 gal	2-leaf	A				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
1	AMS		WG	17	lb/100 gal	6-leaf	B				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	0	99	99
2	Stinger	3	L	2	fl oz/a	2-leaf	A				
2	AMS		WG	17	lb/100 gal	2-leaf	A				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
2	AMS		WG	17	lb/100 gal	6-leaf	B				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	98	0	97	99
3	Stinger	3	L	3	fl oz/a	2-leaf	A				
3	AMS		WG	17	lb/100 gal	2-leaf	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
3	AMS		WG	17	lb/100 gal	6-leaf	B				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	98	0	99	99
4	Stinger	3	L	4	fl oz/a	2-leaf	A				
4	AMS		WG	17	lb/100 gal	2-leaf	A				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
4	AMS		WG	17	lb/100 gal	6-leaf	B				
5	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	98	0	93	99
5	Stinger	3	L	6	fl oz/a	2-leaf	A				
5	AMS		WG	17	lb/100 gal	2-leaf	A				
5	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
5	AMS		WG	17	lb/100 gal	6-leaf	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	94	0	93	99
6	Stinger	3	L	2	fl oz/a	2-leaf	A				
6	AMS		WG	17	lb/100 gal	2-leaf	A				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
6	Stinger	3	L	2	fl oz/a	6-leaf	B				
6	AMS		WG	17	lb/100 gal	6-leaf	B				
7	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	94	0	97	99
7	Stinger	3	L	3	fl oz/a	2-leaf	A				
7	AMS		WG	17	lb/100 gal	2-leaf	A				
7	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
7	Stinger	3	L	3	fl oz/a	6-leaf	B				
7	AMS		WG	17	lb/100 gal	6-leaf	B				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	98	0	98	99
8	Stinger	3	L	2	fl oz/a	2-leaf	A				
8	AMS		WG	17	lb/100 gal	2-leaf	A				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
8	Stinger	3	L	4	fl oz/a	6-leaf	B				
8	AMS		WG	17	lb/100 gal	6-leaf	B				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	95	0	91	99
9	AMS		WG	17	lb/100 gal	2-leaf	A				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
9	Stinger	3	L	4	fl oz/a	6-leaf	B				
9	AMS		WG	17	lb/100 gal	6-leaf	B				

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								POLCO	BETVU	CHEAL	AMARE
								control	injury	control	control
								percent	percent	percent	percent
								Jun/10/2014	Jun/20/2014	Jun/20/2014	Jun/20/2014
								14 DA-A	24 DA-A	24 DA-A	24 DA-A
								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
10	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	91	1	95	99
10	AMS		WG	17	lb/100 gal	2-leaf	A				
10	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
10	Stinger	3	L	6	fl oz/a	6-leaf	B				
10	AMS		WG	17	lb/100 gal	6-leaf	B				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	92	0	95	99
11	AMS		WG	17	lb/100 gal	2-leaf	A				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
11	Stinger	3	L	8	fl oz/a	6-leaf	B				
11	AMS		WG	17	lb/100 gal	6-leaf	B				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	97	0	97	99
12	Stinger	3	L	2	fl oz/a	2-leaf	A				
12	AMS		WG	17	lb/100 gal	2-leaf	A				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
12	Stinger	3	L	4	fl oz/a	6-leaf	B				
12	AMS		WG	17	lb/100 gal	6-leaf	B				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	canopy	C				
12	Stinger	3	L	4	fl oz/a	canopy	C				
12	AMS		WG	17	lb/100 gal	canopy	C				
13	Sequence	5.25	L	2.5	pt/a	2-leaf	A	95	7	80	99
13	AMS		WG	17	lb/100 gal	2-leaf	A				
13	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B				
13	Upbeet	50	WG	1	oz/a	6-leaf	B				
13	Destiny HC		L	1	pt/a	6-leaf	B				
13	AMS		WG	17	lb/100 gal	6-leaf	B				
14	Abundit Extra	3	SL	32	fl oz/a	2-leaf	A	95	4	92	99
14	Upbeet	50	WG	0.5	oz/a	2-leaf	A				
14	Destiny HC		L	1	pt/a	2-leaf	A				
14	AMS		WG	17	lb/100 gal	2-leaf	A				
14	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B				
14	Upbeet	50	WG	0.5	oz/a	6-leaf	B				
14	Destiny HC		L	1	pt/a	6-leaf	B				
14	AMS		WG	17	lb/100 gal	6-leaf	B				
15	Abundit Extra	3	SL	32	fl oz/a	2-leaf	A	96	5	94	99
15	Upbeet	50	WG	1	oz/a	2-leaf	A				
15	Destiny HC		L	1	pt/a	2-leaf	A				
15	AMS		WG	17	lb/100 gal	2-leaf	A				
15	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B				
15	Upbeet	50	WG	1	oz/a	6-leaf	B				
15	Destiny HC		L	1	pt/a	6-leaf	B				
15	AMS		WG	17	lb/100 gal	6-leaf	B				
16	Untreated							0	0	0	0
LSD (P=.05)								4.9	1.5	5.4	0.0
CV								3.79	100.48	4.26	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

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								POLCO	BETVU	CHEAL	AMARE
								control	injury	control	control
								percent	percent	percent	percent
								Jun/20/2014	Jun/26/2014	Jun/26/2014	Jun/26/2014
								24 DA-A	30 DA-A	30 DA-A	30 DA-A
								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	0	98	99
1	AMS		WG	17	lb/100 gal	2-leaf	A				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
1	AMS		WG	17	lb/100 gal	6-leaf	B				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	98	0	98	99
2	Stinger	3	L	2	fl oz/a	2-leaf	A				
2	AMS		WG	17	lb/100 gal	2-leaf	A				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
2	AMS		WG	17	lb/100 gal	6-leaf	B				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	98	0	98	99
3	Stinger	3	L	3	fl oz/a	2-leaf	A				
3	AMS		WG	17	lb/100 gal	2-leaf	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
3	AMS		WG	17	lb/100 gal	6-leaf	B				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	0	98	99
4	Stinger	3	L	4	fl oz/a	2-leaf	A				
4	AMS		WG	17	lb/100 gal	2-leaf	A				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
4	AMS		WG	17	lb/100 gal	6-leaf	B				
5	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	0	94	99
5	Stinger	3	L	6	fl oz/a	2-leaf	A				
5	AMS		WG	17	lb/100 gal	2-leaf	A				
5	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
5	AMS		WG	17	lb/100 gal	6-leaf	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	96	0	95	99
6	Stinger	3	L	2	fl oz/a	2-leaf	A				
6	AMS		WG	17	lb/100 gal	2-leaf	A				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
6	Stinger	3	L	2	fl oz/a	6-leaf	B				
6	AMS		WG	17	lb/100 gal	6-leaf	B				
7	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	0	99	99
7	Stinger	3	L	3	fl oz/a	2-leaf	A				
7	AMS		WG	17	lb/100 gal	2-leaf	A				
7	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
7	Stinger	3	L	3	fl oz/a	6-leaf	B				
7	AMS		WG	17	lb/100 gal	6-leaf	B				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	0	99	99
8	Stinger	3	L	2	fl oz/a	2-leaf	A				
8	AMS		WG	17	lb/100 gal	2-leaf	A				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
8	Stinger	3	L	4	fl oz/a	6-leaf	B				
8	AMS		WG	17	lb/100 gal	6-leaf	B				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	0	89	99
9	AMS		WG	17	lb/100 gal	2-leaf	A				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
9	Stinger	3	L	4	fl oz/a	6-leaf	B				
9	AMS		WG	17	lb/100 gal	6-leaf	B				

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								POLCO	BETVU	CHEAL	AMARE
								control	injury	control	control
								percent	percent	percent	percent
								Jun/20/2014	Jun/26/2014	Jun/26/2014	Jun/26/2014
								24 DA-A	30 DA-A	30 DA-A	30 DA-A
								0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Unit	Stg	Code					
10	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	98	0	95	99
10	AMS		WG	17	lb/100 gal	2-leaf	A				
10	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
10	Stinger	3	L	6	fl oz/a	6-leaf	B				
10	AMS		WG	17	lb/100 gal	6-leaf	B				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	97	1	95	99
11	AMS		WG	17	lb/100 gal	2-leaf	A				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
11	Stinger	3	L	8	fl oz/a	6-leaf	B				
11	AMS		WG	17	lb/100 gal	6-leaf	B				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	0	99	99
12	Stinger	3	L	2	fl oz/a	2-leaf	A				
12	AMS		WG	17	lb/100 gal	2-leaf	A				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
12	Stinger	3	L	4	fl oz/a	6-leaf	B				
12	AMS		WG	17	lb/100 gal	6-leaf	B				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	canopy	C				
12	Stinger	3	L	4	fl oz/a	canopy	C				
12	AMS		WG	17	lb/100 gal	canopy	C				
13	Sequence	5.25	L	2.5	pt/a	2-leaf	A	97	0	84	99
13	AMS		WG	17	lb/100 gal	2-leaf	A				
13	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B				
13	Upbeet	50	WG	1	oz/a	6-leaf	B				
13	Destiny HC		L	1	pt/a	6-leaf	B				
13	AMS		WG	17	lb/100 gal	6-leaf	B				
14	Abundit Extra	3	SL	32	fl oz/a	2-leaf	A	98	0	93	99
14	Upbeet	50	WG	0.5	oz/a	2-leaf	A				
14	Destiny HC		L	1	pt/a	2-leaf	A				
14	AMS		WG	17	lb/100 gal	2-leaf	A				
14	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B				
14	Upbeet	50	WG	0.5	oz/a	6-leaf	B				
14	Destiny HC		L	1	pt/a	6-leaf	B				
14	AMS		WG	17	lb/100 gal	6-leaf	B				
15	Abundit Extra	3	SL	32	fl oz/a	2-leaf	A	98	0	90	99
15	Upbeet	50	WG	1	oz/a	2-leaf	A				
15	Destiny HC		L	1	pt/a	2-leaf	A				
15	AMS		WG	17	lb/100 gal	2-leaf	A				
15	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B				
15	Upbeet	50	WG	1	oz/a	6-leaf	B				
15	Destiny HC		L	1	pt/a	6-leaf	B				
15	AMS		WG	17	lb/100 gal	6-leaf	B				
16	Untreated							0	0	0	0
LSD (P=.05)								2.8	0.5	6.1	0.2
CV								2.16	800.0	4.83	0.13

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Impact of glyphosate-resistant horseweed treatments on sugarbeet yield

Trial ID: SB01-14
 Conducted: SVREC

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

								POLCO	BETVU	CHEAL	AMARE	POLCO
								control	injury	control	control	control
								percent	percent	percent	percent	percent
								Jun/26/2014	Jul/24/2014	Jul/24/2014	Jul/24/2014	Jul/24/2014
								30 DA-A	13 DA-C	13 DA-C	13 DA-C	13 DA-C
								0	0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Unit	Stg	Code						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	98	0	97	99	99
1	AMS		WG	17	lb/100 gal	2-leaf	A					
1	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B					
1	AMS		WG	17	lb/100 gal	6-leaf	B					
2	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	1	98	99	97
2	Stinger	3	L	2	fl oz/a	2-leaf	A					
2	AMS		WG	17	lb/100 gal	2-leaf	A					
2	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B					
2	AMS		WG	17	lb/100 gal	6-leaf	B					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	1	98	99	98
3	Stinger	3	L	3	fl oz/a	2-leaf	A					
3	AMS		WG	17	lb/100 gal	2-leaf	A					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B					
3	AMS		WG	17	lb/100 gal	6-leaf	B					
4	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	1	99	99	98
4	Stinger	3	L	4	fl oz/a	2-leaf	A					
4	AMS		WG	17	lb/100 gal	2-leaf	A					
4	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B					
4	AMS		WG	17	lb/100 gal	6-leaf	B					
5	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	0	95	99	99
5	Stinger	3	L	6	fl oz/a	2-leaf	A					
5	AMS		WG	17	lb/100 gal	2-leaf	A					
5	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B					
5	AMS		WG	17	lb/100 gal	6-leaf	B					
6	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	98	0	96	99	99
6	Stinger	3	L	2	fl oz/a	2-leaf	A					
6	AMS		WG	17	lb/100 gal	2-leaf	A					
6	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B					
6	Stinger	3	L	2	fl oz/a	6-leaf	B					
6	AMS		WG	17	lb/100 gal	6-leaf	B					
7	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	1	97	99	99
7	Stinger	3	L	3	fl oz/a	2-leaf	A					
7	AMS		WG	17	lb/100 gal	2-leaf	A					
7	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B					
7	Stinger	3	L	3	fl oz/a	6-leaf	B					
7	AMS		WG	17	lb/100 gal	6-leaf	B					
8	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	98	1	98	99	99
8	Stinger	3	L	2	fl oz/a	2-leaf	A					
8	AMS		WG	17	lb/100 gal	2-leaf	A					
8	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B					
8	Stinger	3	L	4	fl oz/a	6-leaf	B					
8	AMS		WG	17	lb/100 gal	6-leaf	B					
9	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	0	91	99	99
9	AMS		WG	17	lb/100 gal	2-leaf	A					
9	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B					
9	Stinger	3	L	4	fl oz/a	6-leaf	B					
9	AMS		WG	17	lb/100 gal	6-leaf	B					

MSU Weed Science Research Program

Impact of glyphosate-resistant horseweed treatments on sugarbeet yield

Trial ID: SB01-14
 Conducted: SVREC

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

								POLCO	BETVU	CHEAL	AMARE	POLCO
								control	injury	control	control	control
								percent	percent	percent	percent	percent
								Jun/26/2014	Jul/24/2014	Jul/24/2014	Jul/24/2014	Jul/24/2014
								30 DA-A	13 DA-C	13 DA-C	13 DA-C	13 DA-C
								0	0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Unit	Stg	Code						
10	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	98	0	97	99	99
10	AMS		WG	17	lb/100 gal	2-leaf	A					
10	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B					
10	Stinger	3	L	6	fl oz/a	6-leaf	B					
10	AMS		WG	17	lb/100 gal	6-leaf	B					
11	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	98	1	99	99	99
11	AMS		WG	17	lb/100 gal	2-leaf	A					
11	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B					
11	Stinger	3	L	8	fl oz/a	6-leaf	B					
11	AMS		WG	17	lb/100 gal	6-leaf	B					
12	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	99	0	99	99	98
12	Stinger	3	L	2	fl oz/a	2-leaf	A					
12	AMS		WG	17	lb/100 gal	2-leaf	A					
12	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B					
12	Stinger	3	L	4	fl oz/a	6-leaf	B					
12	AMS		WG	17	lb/100 gal	6-leaf	B					
12	Roundup PowerMax	4.5	SL	22	fl oz/a	canopy	C					
12	Stinger	3	L	4	fl oz/a	canopy	C					
12	AMS		WG	17	lb/100 gal	canopy	C					
13	Sequence	5.25	L	2.5	pt/a	2-leaf	A	97	0	80	99	96
13	AMS		WG	17	lb/100 gal	2-leaf	A					
13	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B					
13	Upbeet	50	WG	1	oz/a	6-leaf	B					
13	Destiny HC		L	1	pt/a	6-leaf	B					
13	AMS		WG	17	lb/100 gal	6-leaf	B					
14	Abundit Extra	3	SL	32	fl oz/a	2-leaf	A	98	0	93	99	99
14	Upbeet	50	WG	0.5	oz/a	2-leaf	A					
14	Destiny HC		L	1	pt/a	2-leaf	A					
14	AMS		WG	17	lb/100 gal	2-leaf	A					
14	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B					
14	Upbeet	50	WG	0.5	oz/a	6-leaf	B					
14	Destiny HC		L	1	pt/a	6-leaf	B					
14	AMS		WG	17	lb/100 gal	6-leaf	B					
15	Abundit Extra	3	SL	32	fl oz/a	2-leaf	A	99	0	84	99	99
15	Upbeet	50	WG	1	oz/a	2-leaf	A					
15	Destiny HC		L	1	pt/a	2-leaf	A					
15	AMS		WG	17	lb/100 gal	2-leaf	A					
15	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B					
15	Upbeet	50	WG	1	oz/a	6-leaf	B					
15	Destiny HC		L	1	pt/a	6-leaf	B					
15	AMS		WG	17	lb/100 gal	6-leaf	B					
16	Untreated							0	0	0	0	0
LSD (P=.05)								2.1	1.9	5.5	0.0	2.2
CV								1.61	329.1	4.36	0.0	1.65

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Impact of glyphosate-resistant horseweed treatments on sugarbeet yield

Trial ID: SB01-14
 Conducted: SVREC

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval
 # Subsamples, Dec.

BETVU stand count 100' row
 Sep/23/2014 74 DA-C
 0

BETVU % sugar
 Sep/24/2014 75 DA-C
 1

BETVU yield ton/acre
 Sep/24/2014 74 DA-C
 1

BETVU RWST # / ton
 Sep/24/2014 75 DA-C
 0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	BETVU stand count 100' row Sep/23/2014 74 DA-C 0	BETVU % sugar Sep/24/2014 75 DA-C 1	BETVU yield ton/acre Sep/24/2014 74 DA-C 1	BETVU RWST # / ton Sep/24/2014 75 DA-C 0
1	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	237	16.4	31.8	245
1	AMS		WG	17	lb/100 gal	2-leaf	A				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
1	AMS		WG	17	lb/100 gal	6-leaf	B				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	243	16.5	35.9	248
2	Stinger	3	L	2	fl oz/a	2-leaf	A				
2	AMS		WG	17	lb/100 gal	2-leaf	A				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
2	AMS		WG	17	lb/100 gal	6-leaf	B				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	251	16.8	30.5	251
3	Stinger	3	L	3	fl oz/a	2-leaf	A				
3	AMS		WG	17	lb/100 gal	2-leaf	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
3	AMS		WG	17	lb/100 gal	6-leaf	B				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	248	16.8	31.7	253
4	Stinger	3	L	4	fl oz/a	2-leaf	A				
4	AMS		WG	17	lb/100 gal	2-leaf	A				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
4	AMS		WG	17	lb/100 gal	6-leaf	B				
5	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	241	16.5	32.6	244
5	Stinger	3	L	6	fl oz/a	2-leaf	A				
5	AMS		WG	17	lb/100 gal	2-leaf	A				
5	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
5	AMS		WG	17	lb/100 gal	6-leaf	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	239	16.8	32.9	251
6	Stinger	3	L	2	fl oz/a	2-leaf	A				
6	AMS		WG	17	lb/100 gal	2-leaf	A				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
6	Stinger	3	L	2	fl oz/a	6-leaf	B				
6	AMS		WG	17	lb/100 gal	6-leaf	B				
7	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	246	16.9	31.9	253
7	Stinger	3	L	3	fl oz/a	2-leaf	A				
7	AMS		WG	17	lb/100 gal	2-leaf	A				
7	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
7	Stinger	3	L	3	fl oz/a	6-leaf	B				
7	AMS		WG	17	lb/100 gal	6-leaf	B				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	257	16.1	32.4	242
8	Stinger	3	L	2	fl oz/a	2-leaf	A				
8	AMS		WG	17	lb/100 gal	2-leaf	A				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
8	Stinger	3	L	4	fl oz/a	6-leaf	B				
8	AMS		WG	17	lb/100 gal	6-leaf	B				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	239	16.5	31.7	248
9	AMS		WG	17	lb/100 gal	2-leaf	A				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
9	Stinger	3	L	4	fl oz/a	6-leaf	B				
9	AMS		WG	17	lb/100 gal	6-leaf	B				

MSU Weed Science Research Program

Impact of glyphosate-resistant horseweed treatments on sugarbeet yield

Trial ID: SB01-14
 Conducted: SVREC

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval
 # Subsamples, Dec.

BETVU stand count 100' row
 BETVU % sugar
 BETVU yield ton/acre
 BETVU RWST # / ton
 Sep/23/2014 74 DA-C
 Sep/24/2014 75 DA-C
 Sep/24/2014 74 DA-C
 Sep/24/2014 75 DA-C
 0 1 1 0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	BETVU stand count 100' row	BETVU % sugar	BETVU yield ton/acre	BETVU RWST # / ton
10	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	237	16.8	33.8	252
10	AMS		WG	17	lb/100 gal	2-leaf	A				
10	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
10	Stinger	3	L	6	fl oz/a	6-leaf	B				
10	AMS		WG	17	lb/100 gal	6-leaf	B				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	251	16.7	33.5	249
11	AMS		WG	17	lb/100 gal	2-leaf	A				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
11	Stinger	3	L	8	fl oz/a	6-leaf	B				
11	AMS		WG	17	lb/100 gal	6-leaf	B				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	256	16.0	33.6	238
12	Stinger	3	L	2	fl oz/a	2-leaf	A				
12	AMS		WG	17	lb/100 gal	2-leaf	A				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B				
12	Stinger	3	L	4	fl oz/a	6-leaf	B				
12	AMS		WG	17	lb/100 gal	6-leaf	B				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	canopy	C				
12	Stinger	3	L	4	fl oz/a	canopy	C				
12	AMS		WG	17	lb/100 gal	canopy	C				
13	Sequence	5.25	L	2.5	pt/a	2-leaf	A	239	16.8	31.4	252
13	AMS		WG	17	lb/100 gal	2-leaf	A				
13	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B				
13	Upbeet	50	WG	1	oz/a	6-leaf	B				
13	Destiny HC		L	1	pt/a	6-leaf	B				
13	AMS		WG	17	lb/100 gal	6-leaf	B				
14	Abundit Extra	3	SL	32	fl oz/a	2-leaf	A	244	16.7	32.4	249
14	Upbeet	50	WG	0.5	oz/a	2-leaf	A				
14	Destiny HC		L	1	pt/a	2-leaf	A				
14	AMS		WG	17	lb/100 gal	2-leaf	A				
14	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B				
14	Upbeet	50	WG	0.5	oz/a	6-leaf	B				
14	Destiny HC		L	1	pt/a	6-leaf	B				
14	AMS		WG	17	lb/100 gal	6-leaf	B				
15	Abundit Extra	3	SL	32	fl oz/a	2-leaf	A	249	17.1	33.8	257
15	Upbeet	50	WG	1	oz/a	2-leaf	A				
15	Destiny HC		L	1	pt/a	2-leaf	A				
15	AMS		WG	17	lb/100 gal	2-leaf	A				
15	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B				
15	Upbeet	50	WG	1	oz/a	6-leaf	B				
15	Destiny HC		L	1	pt/a	6-leaf	B				
15	AMS		WG	17	lb/100 gal	6-leaf	B				
16	Untreated							240	16.4	23.5	247
LSD (P=.05)								31.0	0.89	4.39	15.1
CV								8.86	3.76	9.58	4.25

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Impact of glyphosate-resistant horseweed treatments on sugarbeet yield

Trial ID: SB01-14
 Conducted: SVREC

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval
 # Subsamples, Dec.

BETVU
 RWSA
 # / acre
 Sep/24/2014
 75 DA-C
 0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	
1	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	7780
1	AMS		WG	17	lb/100 gal	2-leaf	A	
1	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B	
1	AMS		WG	17	lb/100 gal	6-leaf	B	
2	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	8885
2	Stinger	3	L	2	fl oz/a	2-leaf	A	
2	AMS		WG	17	lb/100 gal	2-leaf	A	
2	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B	
2	AMS		WG	17	lb/100 gal	6-leaf	B	
3	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	7692
3	Stinger	3	L	3	fl oz/a	2-leaf	A	
3	AMS		WG	17	lb/100 gal	2-leaf	A	
3	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B	
3	AMS		WG	17	lb/100 gal	6-leaf	B	
4	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	8024
4	Stinger	3	L	4	fl oz/a	2-leaf	A	
4	AMS		WG	17	lb/100 gal	2-leaf	A	
4	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B	
4	AMS		WG	17	lb/100 gal	6-leaf	B	
5	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	7933
5	Stinger	3	L	6	fl oz/a	2-leaf	A	
5	AMS		WG	17	lb/100 gal	2-leaf	A	
5	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B	
5	AMS		WG	17	lb/100 gal	6-leaf	B	
6	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	8259
6	Stinger	3	L	2	fl oz/a	2-leaf	A	
6	AMS		WG	17	lb/100 gal	2-leaf	A	
6	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B	
6	Stinger	3	L	2	fl oz/a	6-leaf	B	
6	AMS		WG	17	lb/100 gal	6-leaf	B	
7	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	8095
7	Stinger	3	L	3	fl oz/a	2-leaf	A	
7	AMS		WG	17	lb/100 gal	2-leaf	A	
7	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B	
7	Stinger	3	L	3	fl oz/a	6-leaf	B	
7	AMS		WG	17	lb/100 gal	6-leaf	B	
8	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	7852
8	Stinger	3	L	2	fl oz/a	2-leaf	A	
8	AMS		WG	17	lb/100 gal	2-leaf	A	
8	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B	
8	Stinger	3	L	4	fl oz/a	6-leaf	B	
8	AMS		WG	17	lb/100 gal	6-leaf	B	
9	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	7837
9	AMS		WG	17	lb/100 gal	2-leaf	A	
9	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B	
9	Stinger	3	L	4	fl oz/a	6-leaf	B	
9	AMS		WG	17	lb/100 gal	6-leaf	B	

MSU Weed Science Research Program

Impact of glyphosate-resistant horseweed treatments on sugarbeet yield

Trial ID: SB01-14
Conducted: SVRECStudy Dir.: Sprague and Powell
Investigator: Christy Sprague

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

Subsamples, Dec.

BETVU

RWSA

/ acre

Sep/24/2014

75 DA-C

0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	
10	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	8514
10	AMS		WG	17	lb/100 gal	2-leaf	A	
10	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B	
10	Stinger	3	L	6	fl oz/a	6-leaf	B	
10	AMS		WG	17	lb/100 gal	6-leaf	B	
11	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	8350
11	AMS		WG	17	lb/100 gal	2-leaf	A	
11	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B	
11	Stinger	3	L	8	fl oz/a	6-leaf	B	
11	AMS		WG	17	lb/100 gal	6-leaf	B	
12	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	A	7982
12	Stinger	3	L	2	fl oz/a	2-leaf	A	
12	AMS		WG	17	lb/100 gal	2-leaf	A	
12	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	B	
12	Stinger	3	L	4	fl oz/a	6-leaf	B	
12	AMS		WG	17	lb/100 gal	6-leaf	B	
12	Roundup PowerMax	4.5	SL	22	fl oz/a	canopy	C	
12	Stinger	3	L	4	fl oz/a	canopy	C	
12	AMS		WG	17	lb/100 gal	canopy	C	
13	Sequence	5.25	L	2.5	pt/a	2-leaf	A	7908
13	AMS		WG	17	lb/100 gal	2-leaf	A	
13	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B	
13	Upbeet	50	WG	1	oz/a	6-leaf	B	
13	Destiny HC		L	1	pt/a	6-leaf	B	
13	AMS		WG	17	lb/100 gal	6-leaf	B	
14	Abundit Extra	3	SL	32	fl oz/a	2-leaf	A	8086
14	Upbeet	50	WG	0.5	oz/a	2-leaf	A	
14	Destiny HC		L	1	pt/a	2-leaf	A	
14	AMS		WG	17	lb/100 gal	2-leaf	A	
14	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B	
14	Upbeet	50	WG	0.5	oz/a	6-leaf	B	
14	Destiny HC		L	1	pt/a	6-leaf	B	
14	AMS		WG	17	lb/100 gal	6-leaf	B	
15	Abundit Extra	3	SL	32	fl oz/a	2-leaf	A	8666
15	Upbeet	50	WG	1	oz/a	2-leaf	A	
15	Destiny HC		L	1	pt/a	2-leaf	A	
15	AMS		WG	17	lb/100 gal	2-leaf	A	
15	Abundit Extra	3	SL	32	fl oz/a	6-leaf	B	
15	Upbeet	50	WG	1	oz/a	6-leaf	B	
15	Destiny HC		L	1	pt/a	6-leaf	B	
15	AMS		WG	17	lb/100 gal	6-leaf	B	
16	Untreated							5843
LSD (P=.05)								1241.7
CV								10.89

Means followed by same letter do not significantly differ (P=.05, LSD)