MSU Weed Science Research Program

Management of glyphosate-resistant horseweed in sugarbeet

Trial ID: SB05-14 Study Dir.: Goffnett, Sprague, and Powell

Conducted: Gratiot County Investigator: Christy Sprague

Date Planted:May/23/2014Row Spacing:30INVariety:Roundup ReadyNo. of Reps:4Population:% OM:2.6Soil Type:Loamy sandph:6.4

Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall tillage, no spring tillage.

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ERICA	HORSEWEED (Marestail)	CONYZA CANADENSIS L.
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
Crop	Code	Common Name	

1. BETVU BEET, SUGAR

Application Description

	A	В	С
Application Timing:	2-Leaf	6-Leaf	Canopy
Date Treated:	Jun/04/2014	Jun/16/2014	Jul/14/2014
Time Treated:	8:09 AM	2:30 PM	10:00 AM
% Cloud Cover:	100	50	50
Air Temp., Unit:	65 F	86 F	74 F
<pre>% Relative Humidity:</pre>	77	33	85
Wind Speed/Unit/Dir:	3 mph E	9 mph SW	3 mph SE
Soil Temp., Unit:	62 F	82 F	72 F
Soil/Leaf Surface M:	5 5	5 5	3 4
Soil Moist (1=w 5=d):	5	5	3

Crop Stage at Each Application

	A	В	C
Crop Name:	BETVU	BETVU	BETVU
Height (In.):	0.5-1"	2-3"	8-10"
Stage (L):	Cot-2	4-6	10

Weed Stage at Each Application

	A	В	C
Weed 1 Name:	ERICA	ERICA	ERICA
Height (In.):	1.5-2.5"	1.5-4"	1.5-4"
Stage (L):	pre-bolt	bolting	bolting
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Height (In.):	3-4"	2 "	-
Stage (L):	8	6-8	_

Weed Density (plants/sq. ft.)

1 2

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	Backpack	3.5	AIXR	11003	23"	20"	100"	19	Water	30
В	Backpack	3.5	AIXR	11003	24"	20"	100"	19	Water	30
C	Backpack	3.5	AIXR	11003	24"	20"	100"	19	Water	30

 $\textbf{Comments:} \quad \text{Roundup PowerMax (32 fl oz/A) + AMS was applied to the entire plot area on May 30 and July 17 to cleanup other weed besides glyphosate-resistant horseweed.}$

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Crop Rati Rati Rati Trt-l	ed Code o Code ng Data Type ng Unit ng Date Eval Interval ubsamples, Dec.					BEAVA injury percent Jun/16/2014 12 DA-A 0	control percent Jun/16/2014 12 DA-A 0	CHEAL control percent Jun/16/2014 12 DA-A 0	BEAVA injury percent Jun/26/2014 10 DA-B 0		
Trt No.	Treatment Name		Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1 1 1	Roundup PowerMax AMS Roundup PowerMax AMS		SL WG SL WG	22 17 22 17	fl oz/a lb/100 gal fl oz/a lb/100 gal	6-leaf	A A B B	0	63	98	0
2 2 2 2 2	Roundup PowerMax Stinger AMS Roundup PowerMax AMS	3	SL L WG SL WG	22 2 17 22 17	fl oz/a fl oz/a lb/100 gal fl oz/a lb/100 gal	6-leaf	A A A B	0	53	99	0
3 3 3 3	Roundup PowerMax Stinger AMS Roundup PowerMax AMS	3	SL L WG SL WG	22 3 17 22 17	fl oz/a fl oz/a lb/100 gal fl oz/a lb/100 gal	6-leaf	A A A B	0	64	99	2
4 4 4 4	Roundup PowerMax Stinger AMS Roundup PowerMax AMS	3	SL L WG SL WG	22 4 17 22 17	fl oz/a fl oz/a lb/100 gal fl oz/a lb/100 gal	6-leaf	A A A B	0	60	99	5
5 5 5 5 5	Roundup PowerMax Stinger AMS Roundup PowerMax AMS	3	SL L WG SL WG	22 6 17 22 17	fl oz/a fl oz/a lb/100 gal fl oz/a lb/100 gal	6-leaf	A A A B	0	61	99	6
6 6 6 6 6	Roundup PowerMax Stinger AMS Roundup PowerMax Stinger AMS	3	SL L WG SL L WG	22 2 17 22 2 17	fl oz/a fl oz/a lb/100 gal fl oz/a fl oz/a lb/100 gal	2-leaf 2-leaf 2-leaf 6-leaf 6-leaf	A A B B B	0	69	99	11
7 7 7 7 7	Roundup PowerMax Stinger AMS Roundup PowerMax Stinger AMS	3	SL L WG SL L WG	22 3 17 22 3 17	fl oz/a fl oz/a lb/100 gal fl oz/a fl oz/a lb/100 gal	6-leaf 6-leaf	A A B B	0	68	99	13
8 8 8 8 8	Roundup PowerMax Stinger AMS Roundup PowerMax Stinger AMS	3	SL L WG SL L WG	22 2 17 22 4 17	fl oz/a fl oz/a lb/100 gal fl oz/a fl oz/a lb/100 gal	6-leaf 6-leaf	A A B B	0	68	99	13
9 9 9 9	Roundup PowerMax AMS Roundup PowerMax Stinger AMS		SL WG SL L WG	22 17 22 4 17	fl oz/a lb/100 gal fl oz/a fl oz/a lb/100 gal	6-leaf 6-leaf	A A B B	0	65	99	3

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Crop Rati Rati Rati Trt-E	ed Code o Code ng Data Type ng Unit ng Date Eval Interval ubsamples, Dec.							BEAVA injury percent Jun/16/2014 12 DA-A 0	control percent Jun/16/2014 12 DA-A 0	CHEAL control percent Jun/16/2014 12 DA-A 0	BEAVA injury percent Jun/26/2014 10 DA-B 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
10 10 10 10 10	Roundup PowerMax AMS Roundup PowerMax Stinger AMS		SL WG SL L WG	22 17 22 6 17	fl oz/a lb/100 gal fl oz/a fl oz/a lb/100 gal	6-leaf 6-leaf	A A B B	0	46	99	11
11 11 11 11	Roundup PowerMax AMS Roundup PowerMax Stinger AMS		SL WG SL L WG	22 17 22 8 17	fl oz/a lb/100 gal fl oz/a fl oz/a lb/100 gal	6-leaf 6-leaf	A A B B	0	60	99	14
12 12 12 12 12 12 12 12 12	Roundup PowerMax Stinger AMS Roundup PowerMax Stinger AMS Roundup PowerMax Stinger AMS	3 4.5 3	SL L WG SL L WG SL L	22 2 17 22 4 17 22 4 17	fl oz/a fl oz/a lb/100 gal fl oz/a fl oz/a lb/100 gal fl oz/a fl oz/a lb/100 gal	6-leaf 6-leaf	С	0	64	98	11
13 13 13 13 13 13 13	Roundup PowerMax Stinger Upbeet AMS Roundup PowerMax Stinger Upbeet AMS	3 50	SL L WG WG SL L WG WG	22 2 0.5 17 22 4 0.5 17	fl oz/a fl oz/a oz/a lb/100 gal fl oz/a fl oz/a oz/a lb/100 gal	6-leaf 6-leaf 6-leaf	A A A B B B B	0	60	98	16
14 14 14 14 14 14 14	Roundup PowerMax Upbeet Destiny HC AMS Roundup PowerMax Upbeet Destiny HC AMS	50	SL WG L WG SL WG L	22 1 1 17 22 1 1	fl oz/a oz/a pt/a lb/100 gal fl oz/a oz/a pt/a lb/100 gal	6-leaf 6-leaf 6-leaf	A A A B B B B	0	68	99	0
LSD CV	(P=.05)							0.0	14.0 15.83	1.4 0.96	5.3 50.59

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

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Weed Code Crop Code Rating Data Type Rating Unit Rating Data Type Rating Unit Rating Date The Type Rating Unit R
Rating Data Type Rating Data Type Rating Date Rating
Tit Treatment Form Form Conc Type Rate Unit Stg Code
Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 33 60 65 30
1 AMS WG 17 Ib/100 gal 2-leaf A 1 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf B 2 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 63 86 89 64 2 Stinger 3 L 2 fl oz/a 2-leaf A 63 86 89 64 2 Stinger 3 L 2 fl oz/a 2-leaf A 63 86 89 64 2 AMS WG 17 Ib/100 gal 6-leaf B 80 93 98 81 3 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 80 93 98 81 3 Stinger 3 L 3 fl oz/a 2-leaf A 80 93 98 81 4 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf B 89 95 <t< td=""></t<>
1 AMS WG 17 Ib/100 gal 2-leaf A 1 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf B 2 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 63 86 89 64 2 Stinger 3 L 2 fl oz/a 2-leaf A 63 86 89 64 2 Stinger 3 L 2 fl oz/a 2-leaf A 63 86 89 64 2 AMS WG 17 Ib/100 gal 6-leaf B 80 93 98 81 3 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 80 93 98 81 3 Stinger 3 L 3 fl oz/a 2-leaf A 80 93 98 81 4 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf B 89 95 <t< td=""></t<>
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2 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 63 86 89 64 2 Stinger 3 L 2 fl oz/a 2-leaf A 2-leaf A 63 86 89 64 2 AMS WG 17 lb/100 gal 2-leaf A 80 93 98 81 3 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 80 93 98 81 3 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 80 93 98 81 3 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 80 93 98 81 3 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 3 AMS WG 17 lb/100 gal 2-leaf A 80 93 98 81 4 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 4 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 4 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 74 89 95 71 4 Stinger 3 L 4 fl oz/a 2-leaf A 74 89 95 71 4 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 4 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 5 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 6 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 6 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 6 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 6 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 6 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 6 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 6 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 7 AMS WG 17 lb/100 gal 6-leaf B 8 7 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 7 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 8 8 P9 P5
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2 AMS
3 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 80 93 98 81 3 Stinger 3 L 3 fl oz/a 2-leaf A A 3 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B A A SU AMS WG 17 lb/100 gal 6-leaf B A A SU AMS WG 17 lb/100 gal 6-leaf B A A SU AMS WG 17 lb/100 gal 6-leaf B A A SU AMS WG 17 lb/100 gal 6-leaf B A A SU AMS WG 17 lb/100 gal 6-leaf B A A SU AMS WG 17 lb/100 gal 6-leaf B A A SU AMS WG 17 lb/100 gal 6-leaf B A A AMS WG 17 lb/100 gal 6-leaf B WG 17 lb/100 gal 6-leaf B AMS WG 17 lb/100 gal 6-leaf B WG 17 lb/100 gal 6-leaf
3
3 AMS
3 AMS WG 17 lb/100 gal 6-leaf B 4 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 74 89 95 71 4 Stinger 3 L 4 fl oz/a 2-leaf A AMS WG 17 lb/100 gal 2-leaf A Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B AMS WG 17 lb/100 gal 6-leaf B 5 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 78 94 97 74 5 Stinger 3 L 6 fl oz/a 2-leaf A 78 94 97 74 5 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B AMS WG 17 lb/100 gal 6-leaf B
4 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 74 89 95 71 4 Stinger 3 L 4 fl oz/a 2-leaf A A AMS WG 17 lb/100 gal 2-leaf A Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B WG 17 lb/100 gal 6-leaf B 5 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 78 94 97 74 5 Stinger 3 L 6 fl oz/a 2-leaf A 78 94 97 74 5 Stinger 3 L 6 fl oz/a 2-leaf A 78 85 AMS WG 17 lb/100 gal 2-leaf A 78 86 PWG 17 lb/100 gal 6-leaf B P
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 5 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 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 6 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf B 6 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 6 Roundup PowerMax 4.5 SL 22 fl oz/a 6-leaf B 6 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 81 92 97 80
4 AMS
4 AMS WG 17 lb/100 gal 6-leaf B 5 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 78 94 97 74 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 6 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 81 92 97 80
5 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 78 94 97 74 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 81 92 97 80
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 81 92 97 80
5 AMS
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 81 92 97 80
6 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 81 92 97 80
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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
O ANIO WO 17 ID/100 gai 0-leai D
7 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 80 98 99 93 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
8 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 85 99 99 92
8 Roundup PowerMax 4.5 SL 22 fl oz/a 2-leaf A 85 99 99 92 8 Stinger 3 L 2 fl oz/a 2-leaf A
8 AMŠ 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 71 90 97 91
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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	ed Code							ERICA	ERICA	ERICA	ERICA
Rati Rati Rati Trt-E	o Code ng Data Type ng Unit ng Date Eval Interval ıbsamples, Dec.							control percent Jun/26/2014 10 DA-B 0	control percent Jul/11/2014 25 DA-B 0	control percent Jul/28/2014 14 DA-C 0	control percent Oct/02/2014 80 DA-C 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
10 10 10 10 10	Roundup PowerMax AMS Roundup PowerMax Stinger AMS		SL WG SL L WG	22 17 22 6 17	fl oz/a lb/100 gal fl oz/a fl oz/a lb/100 gal	6-leaf 6-leaf	A A B B	64	93	98	88
11 11 11 11	Roundup PowerMax AMS Roundup PowerMax Stinger AMS		SL WG SL L WG	22 17 22 8 17	fl oz/a lb/100 gal fl oz/a fl oz/a lb/100 gal	6-leaf 6-leaf	A A B B	71	92	96	82
12 12 12 12 12 12 12 12 12	Roundup PowerMax Stinger AMS Roundup PowerMax Stinger AMS Roundup PowerMax Stinger AMS	3 4.5 3	SL L WG SL L WG SL L	22 2 17 22 4 17 22 4 17	fl oz/a fl oz/a lb/100 gal fl oz/a fl oz/a lb/100 gal fl oz/a fl oz/a lb/100 gal	6-leaf 6-leaf 6-leaf canopy canopy	С	78	98	99	99
13 13 13 13 13 13 13	Roundup PowerMax Stinger Upbeet AMS Roundup PowerMax Stinger Upbeet AMS	3 50	SL L WG WG SL L WG WG	22 2 0.5 17 22 4 0.5 17	fl oz/a fl oz/a oz/a lb/100 gal fl oz/a fl oz/a oz/a lb/100 gal	6-leaf 6-leaf 6-leaf	A A A B B B	80	97	99	90
14 14 14 14 14 14 14	Roundup PowerMax Upbeet Destiny HC AMS Roundup PowerMax Upbeet Destiny HC AMS	50	SL WG L WG SL WG L	22 1 1 17 22 1 1	fl oz/a oz/a pt/a lb/100 gal fl oz/a oz/a pt/a lb/100 gal	6-leaf 6-leaf 6-leaf	A A A B B B B	46	63	63	38
LSD CV	(P=.05)							10.0 9.98	8.0 6.27	4.4 3.33	14.7 13.42

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