

MSU Weed Science Research Program

Glyphosate-Fungicide Interaction Study in Roundup Ready Sugarbeets

Trial ID: SB05-07 Study Dir.: Sprague, Powell
 Conducted: Bean & Beet Farm Investigator: Christy Sprague

Date Planted: 4/20/07 Row Spacing: 30" IN
 Variety: Beta RZ02RR07 No. of Reps: 4
 Population: 4 3/8" spacing % OM: 3.9
 Soil Type: Silty Clay pH: 7.4
 Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel Plow, Spring Soil Finish X2, Previous Crop Wheat
 Fertilizer: 120 lb of Nitrogen as Urea

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
2.	AMAPO	AMARANTH, POWELL	AMARANTHUS POWELLII S.WATS.
Crop	Code	Common Name	
1.	BETVU	BEEET, SUGAR	

Application Description

	A	B	C	D
Application Timing:	2-leaf	6-leaf	55 DSV1	55 DSV2
Date Treated:	5/18/07	5/30/07	7/2/07	7/11/07
Time Treated:	1:30 pm	11:30 am	11:30 am	1:30 pm
% Cloud Cover:	10	60	15	30
Air Temp., Unit:	68 F	85 F	71 F	73 F
% Relative Humidity:	20	45	35	52
Wind Speed/Unit/Dir:	5 mph SW	5 mph S	3 mph E	8 mph W
Soil Temp., Unit:	58 F	74 F	68 F	74 F
Soil/Leaf Surface M:	5 5	5 5	5 5	5 5
Soil Moist (1=w 5=d):	5	5	5	5

Crop Stage at Each Application

	A	B	C	D
Crop Name:	BETVU	BETVU	BETVU	BETVU
Height (In.):	1-2.5"	3-6"	12"	14"
Stage (L):	4	6-8	16	20

Weed Stage at Each Application

	A	B	C	D
Weed 1 Name:	CHEAL	CHEAL	CHEAL	CHEAL
Height (In.):	1-2.5"	1/2-1"	-	-
Stage (L):	2-10	2-4	-	-
Weed 2 Name:	AMAPO	AMAPO	AMAPO	AMAPO
Height (In.):	1/4-1/2"	1/2	-	-
Stage (L):	2-4	2	-	-

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	Cub	3.8	AirMix	11003	22"	20	100	19	water	27
B	Cub	3.8	AirMix	11003	25"	20	100	19	water	27
C	Cub	3.8	AirMix	11003	26"	20	100	19	water	27
D	Cub	3.8	AirMix	11003	26"	20	100	19	water	27

Comments: Plots were kept weed-free with Roundup OriginalMax applications at the various timings. Negative numbers are greener plants from Mn (Manganese) deficiency corrected in these plots.

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Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

BETVU injury percent 5/22/07 4 DA-A	BETVU injury percent 5/30/07 12 DA-A	BETVU injury percent 6/6/07 19 DA-A	BETVU injury percent 6/12/07 25 DA-A	BETVU injury percent 7/5/07 48 DA-A	BETVU injury percent 7/18/07 61 DA-A	BETVU count #/100' 9/25/07 130 DA-A
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code							
1	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	5	4	0	0	0	0	214
1	AMS		WG	17	lb/100 gal	2-LF	A							
1	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B							
1	AMS		WG	17	lb/100 gal	6-LF	B							
1	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C							
1	AMS		WG	17	lb/100 gal	55 DSV1	C							
1	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D							
1	AMS		WG	17	lb/100 gal	55 DSV2	D							
2	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	7	7	6	0	0	0	212
2	Quadris	2.08	FL	9.2	fl oz/a	2-LF	A							
2	AMS		WG	17	lb/100 gal	2-LF	A							
2	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B							
2	AMS		WG	17	lb/100 gal	6-LF	B							
2	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C							
2	AMS		WG	17	lb/100 gal	55 DSV1	C							
2	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D							
2	AMS		WG	17	lb/100 gal	55 DSV2	D							
3	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	7	8	8	0	0	0	206
3	GEM	500	SC	3.5	fl oz/a	2-LF	A							
3	AMS		WG	17	lb/100 gal	2-LF	A							
3	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B							
3	AMS		WG	17	lb/100 gal	6-LF	B							
3	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C							
3	AMS		WG	17	lb/100 gal	55 DSV1	C							
3	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D							
3	AMS		WG	17	lb/100 gal	55 DSV2	D							
4	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	10	8	4	0	0	0	212
4	Headline	2.09	L	9.2	fl oz/a	2-LF	A							
4	AMS		WG	17	lb/100 gal	2-LF	A							
4	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B							
4	AMS		WG	17	lb/100 gal	6-LF	B							
4	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C							
4	AMS		WG	17	lb/100 gal	55 DSV1	C							
4	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D							
4	AMS		WG	17	lb/100 gal	55 DSV2	D							
5	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A			4	0	0	0	220
5	AMS		WG	17	lb/100 gal	2-LF	A							
5	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B							
5	Quadris	2.08	FL	9.2	fl oz/a	6-LF	B							
5	AMS		WG	17	lb/100 gal	6-LF	B							
5	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C							
5	AMS		WG	17	lb/100 gal	55 DSV1	C							
5	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D							
5	AMS		WG	17	lb/100 gal	55 DSV2	D							
6	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A			3	0	0	0	223
6	AMS		WG	17	lb/100 gal	2-LF	A							
6	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B							
6	GEM	500	SC	3.5	fl oz/a	6-LF	B							
6	AMS		WG	17	lb/100 gal	6-LF	B							
6	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C							
6	AMS		WG	17	lb/100 gal	55 DSV1	C							
6	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D							
6	AMS		WG	17	lb/100 gal	55 DSV2	D							

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Trt-Eval Interval

BETVU	BETVU	BETVU	BETVU	BETVU	BETVU	BETVU
injury	injury	injury	injury	injury	injury	count
percent	percent	percent	percent	percent	percent	#/100'
5/22/07	5/30/07	6/6/07	6/12/07	7/5/07	7/18/07	9/25/07
4 DA-A	12 DA-A	19 DA-A	25 DA-A	48 DA-A	61 DA-A	130 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
7	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A						
	AMS		WG	17	lb/100 gal	2-LF	A						
7	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B						
7	Headline	2.09	L	9.2	fl oz/a	6-LF	B						
7	AMS		WG	17	lb/100 gal	6-LF	B						
7	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C						
7	AMS		WG	17	lb/100 gal	55 DSV1	C						
7	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D						
7	AMS		WG	17	lb/100 gal	55 DSV2	D						
8	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A						
8	AMS		WG	17	lb/100 gal	2-LF	A						
8	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B						
8	Quadris	2.08	FL	9.2	fl oz/a	6-LF	B						
8	Dual Magnum	7.64	SL	1.33	pt/a	6-LF	B						
8	AMS		WG	17	lb/100 gal	6-LF	B						
8	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C						
8	AMS		WG	17	lb/100 gal	55 DSV1	C						
8	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D						
8	AMS		WG	17	lb/100 gal	55 DSV2	D						
9	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A						
9	AMS		WG	17	lb/100 gal	2-LF	A						
9	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B						
9	Quadris	2.08	FL	9.2	fl oz/a	6-LF	B						
9	Outlook	6	EC	16	fl oz/a	6-LF	B						
9	AMS		WG	17	lb/100 gal	6-LF	B						
9	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C						
9	AMS		WG	17	lb/100 gal	55 DSV1	C						
9	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D						
9	AMS		WG	17	lb/100 gal	55 DSV2	D						
10	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A						
10	AMS		WG	17	lb/100 gal	2-LF	A						
10	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B						
10	AMS		WG	17	lb/100 gal	6-LF	B						
10	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C						
10	Champ II (Copper)		FL	2	pt/a	55 DSV1	C						
10	AMS		WG	17	lb/100 gal	55 DSV1	C						
10	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D						
10	Champ II (Copper)		FL	2	pt/a	55 DSV2	D						
10	AMS		WG	17	lb/100 gal	55 DSV2	D						
11	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A						
11	AMS		WG	17	lb/100 gal	2-LF	A						
11	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B						
11	AMS		WG	17	lb/100 gal	6-LF	B						
11	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C						
11	Penncozeb	75	DF	2	lb/a	55 DSV1	C						
11	AMS		WG	17	lb/100 gal	55 DSV1	C						
11	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D						
11	Penncozeb	75	DF	2	lb/a	55 DSV2	D						
11	AMS		WG	17	lb/100 gal	55 DSV2	D						

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BETVU	BETVU	BETVU	BETVU	BETVU	BETVU	BETVU
injury	injury	injury	injury	injury	injury	count
percent	percent	percent	percent	percent	percent	#/100'
5/22/07	5/30/07	6/6/07	6/12/07	7/5/07	7/18/07	9/25/07
4 DA-A	12 DA-A	19 DA-A	25 DA-A	48 DA-A	61 DA-A	130 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code						
12	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A						
12	AMS		WG	17	lb/100 gal	2-LF	A						
12	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B						
12	AMS		WG	17	lb/100 gal	6-LF	B						
12	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C						
12	Eminent	1	SL	13	fl oz/a	55 DSV1	C						
12	AMS		WG	17	lb/100 gal	55 DSV1	C						
12	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D						
12	Eminent	1	SL	13	fl oz/a	55 DSV2	D						
12	AMS		WG	17	lb/100 gal	55 DSV2	D						
13	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A						
13	AMS		WG	17	lb/100 gal	2-LF	A						
13	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B						
13	AMS		WG	17	lb/100 gal	6-LF	B						
13	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C						
13	GEM	500	SC	3.5	fl oz/a	55 DSV1	C						
13	AMS		WG	17	lb/100 gal	55 DSV1	C						
13	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D						
13	GEM	500	SC	3.5	fl oz/a	55 DSV2	D						
13	AMS		WG	17	lb/100 gal	55 DSV2	D						
14	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A						
14	AMS		WG	17	lb/100 gal	2-LF	A						
14	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B						
14	AMS		WG	17	lb/100 gal	6-LF	B						
14	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C						
14	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C						
14	AMS		WG	17	lb/100 gal	55 DSV1	C						
14	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D						
14	Headline	2.09	L	9.2	fl oz/a	55 DSV2	D						
14	AMS		WG	17	lb/100 gal	55 DSV2	D						
15	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A						
15	AMS		WG	17	lb/100 gal	2-LF	A						
15	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B						
15	AMS		WG	17	lb/100 gal	6-LF	B						
15	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C						
15	SuperTin	80	WP	5	oz/a	55 DSV1	C						
15	AMS		WG	17	lb/100 gal	55 DSV1	C						
15	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D						
15	SuperTin	80	WP	5	oz/a	55 DSV2	D						
15	AMS		WG	17	lb/100 gal	55 DSV2	D						
16	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A						
16	AMS		WG	17	lb/100 gal	2-LF	A						
16	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B						
16	AMS		WG	17	lb/100 gal	6-LF	B						
16	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C						
16	Topsin M	70	WG	0.5	lb/a	55 DSV1	C						
16	Penncozeb	75	DF	2	lb/a	55 DSV1	C						
16	AMS		WG	17	lb/100 gal	55 DSV1	C						
16	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D						
16	Topsin M	70	WG	0.5	lb/a	55 DSV2	D						
16	Penncozeb	75	DF	2	lb/a	55 DSV2	D						
16	AMS		WG	17	lb/100 gal	55 DSV2	D						

LSD (P=.05)

3.9 4.5 4.5 0.9 0.0 2.6 29.1

Standard Deviation

2.5 2.8 3.2 0.6 0.0 1.8 20.4

CV

34.26 41.35 72.56 47.06 0.0 0.0 9.64

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Trt-Eval Interval

BETVU	BETVU	BETVU	BETVU
% sugar	yield	RWST	RWSA
	ton/acre	# / ton	# / acre
9/25/07	9/25/07	9/25/07	9/25/07
130 DA-A	130 DA-A	130 DA-A	130 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	17.7	27.6	257.0	7052.9
1	AMS		WG	17	lb/100 gal	2-LF	A				
1	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
1	AMS		WG	17	lb/100 gal	6-LF	B				
1	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
1	AMS		WG	17	lb/100 gal	55 DSV1	C				
1	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
1	AMS		WG	17	lb/100 gal	55 DSV2	D				
2	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	17.6	27.5	254.3	6986.7
2	Quadris	2.08	FL	9.2	fl oz/a	2-LF	A				
2	AMS		WG	17	lb/100 gal	2-LF	A				
2	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
2	AMS		WG	17	lb/100 gal	6-LF	B				
2	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
2	AMS		WG	17	lb/100 gal	55 DSV1	C				
2	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
2	AMS		WG	17	lb/100 gal	55 DSV2	D				
3	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	17.8	25.8	256.6	6644.5
3	GEM	500	SC	3.5	fl oz/a	2-LF	A				
3	AMS		WG	17	lb/100 gal	2-LF	A				
3	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
3	AMS		WG	17	lb/100 gal	6-LF	B				
3	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
3	AMS		WG	17	lb/100 gal	55 DSV1	C				
3	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
3	AMS		WG	17	lb/100 gal	55 DSV2	D				
4	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	17.8	27.4	259.8	7122.7
4	Headline	2.09	L	9.2	fl oz/a	2-LF	A				
4	AMS		WG	17	lb/100 gal	2-LF	A				
4	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
4	AMS		WG	17	lb/100 gal	6-LF	B				
4	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
4	AMS		WG	17	lb/100 gal	55 DSV1	C				
4	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
4	AMS		WG	17	lb/100 gal	55 DSV2	D				
5	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	18.2	28.2	257.6	7273.7
5	AMS		WG	17	lb/100 gal	2-LF	A				
5	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
5	Quadris	2.08	FL	9.2	fl oz/a	6-LF	B				
5	AMS		WG	17	lb/100 gal	6-LF	B				
5	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
5	AMS		WG	17	lb/100 gal	55 DSV1	C				
5	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
5	AMS		WG	17	lb/100 gal	55 DSV2	D				
6	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	18.2	29.4	266.9	7853.0
6	AMS		WG	17	lb/100 gal	2-LF	A				
6	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
6	GEM	500	SC	3.5	fl oz/a	6-LF	B				
6	AMS		WG	17	lb/100 gal	6-LF	B				
6	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
6	AMS		WG	17	lb/100 gal	55 DSV1	C				
6	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
6	AMS		WG	17	lb/100 gal	55 DSV2	D				

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Trt-Eval Interval

BETVU	BETVU	BETVU	BETVU
% sugar	yield	RWST	RWSA
	ton/acre	# / ton	# / acre
9/25/07	9/25/07	9/25/07	9/25/07
130 DA-A	130 DA-A	130 DA-A	130 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code				
7	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	18.1	25.9	266.9	6911.7
7	AMS		WG	17	lb/100 gal	2-LF	A				
7	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
7	Headline	2.09	L	9.2	fl oz/a	6-LF	B				
7	AMS		WG	17	lb/100 gal	6-LF	B				
7	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
7	AMS		WG	17	lb/100 gal	55 DSV1	C				
7	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
7	AMS		WG	17	lb/100 gal	55 DSV2	D				
8	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	17.6	27.2	252.2	6857.6
8	AMS		WG	17	lb/100 gal	2-LF	A				
8	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
8	Quadris	2.08	FL	9.2	fl oz/a	6-LF	B				
8	Dual Magnum	7.64	SL	1.33	pt/a	6-LF	B				
8	AMS		WG	17	lb/100 gal	6-LF	B				
8	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
8	AMS		WG	17	lb/100 gal	55 DSV1	C				
8	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
8	AMS		WG	17	lb/100 gal	55 DSV2	D				
9	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	18.0	27.6	261.9	7207.6
9	AMS		WG	17	lb/100 gal	2-LF	A				
9	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
9	Quadris	2.08	FL	9.2	fl oz/a	6-LF	B				
9	Outlook	6	EC	16	fl oz/a	6-LF	B				
9	AMS		WG	17	lb/100 gal	6-LF	B				
9	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
9	AMS		WG	17	lb/100 gal	55 DSV1	C				
9	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
9	AMS		WG	17	lb/100 gal	55 DSV2	D				
10	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	17.9	30.8	262.9	8098.2
10	AMS		WG	17	lb/100 gal	2-LF	A				
10	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
10	AMS		WG	17	lb/100 gal	6-LF	B				
10	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
10	Champ II (Copper)		FL	2	pt/a	55 DSV1	C				
10	AMS		WG	17	lb/100 gal	55 DSV1	C				
10	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
10	Champ II (Copper)		FL	2	pt/a	55 DSV2	D				
10	AMS		WG	17	lb/100 gal	55 DSV2	D				
11	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	16.9	27.9	236.5	6613.5
11	AMS		WG	17	lb/100 gal	2-LF	A				
11	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
11	AMS		WG	17	lb/100 gal	6-LF	B				
11	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
11	Penncozeb	75	DF	2	lb/a	55 DSV1	C				
11	AMS		WG	17	lb/100 gal	55 DSV1	C				
11	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
11	Penncozeb	75	DF	2	lb/a	55 DSV2	D				
11	AMS		WG	17	lb/100 gal	55 DSV2	D				

MSU Weed Science Research Program

Glyphosate-Fungicide Interaction Study in Roundup Ready Sugarbeets

Trial ID: SB05-07

Study Dir.: Sprague, Powell

Conducted: Bean & Beet Farm

Investigator: Christy Sprague

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

BETVU	BETVU	BETVU	BETVU
% sugar	yield	RWST	RWSA
	ton/acre	# / ton	# / acre
9/25/07	9/25/07	9/25/07	9/25/07
130 DA-A	130 DA-A	130 DA-A	130 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
12	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	17.5	29.6	250.2	7414.5
12	AMS		WG	17	lb/100 gal	2-LF	A				
12	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
12	AMS		WG	17	lb/100 gal	6-LF	B				
12	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
12	Eminent	1	SL	13	fl oz/a	55 DSV1	C				
12	AMS		WG	17	lb/100 gal	55 DSV1	C				
12	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
12	Eminent	1	SL	13	fl oz/a	55 DSV2	D				
12	AMS		WG	17	lb/100 gal	55 DSV2	D				
13	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	18.3	27.1	270.8	7329.3
13	AMS		WG	17	lb/100 gal	2-LF	A				
13	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
13	AMS		WG	17	lb/100 gal	6-LF	B				
13	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
13	GEM	500	SC	3.5	fl oz/a	55 DSV1	C				
13	AMS		WG	17	lb/100 gal	55 DSV1	C				
13	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
13	GEM	500	SC	3.5	fl oz/a	55 DSV2	D				
13	AMS		WG	17	lb/100 gal	55 DSV2	D				
14	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	17.9	30.8	267.2	8176.8
14	AMS		WG	17	lb/100 gal	2-LF	A				
14	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
14	AMS		WG	17	lb/100 gal	6-LF	B				
14	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
14	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C				
14	AMS		WG	17	lb/100 gal	55 DSV1	C				
14	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
14	Headline	2.09	L	9.2	fl oz/a	55 DSV2	D				
14	AMS		WG	17	lb/100 gal	55 DSV2	D				
15	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	18.0	26.3	264.3	6910.8
15	AMS		WG	17	lb/100 gal	2-LF	A				
15	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
15	AMS		WG	17	lb/100 gal	6-LF	B				
15	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
15	SuperTin	80	WP	5	oz/a	55 DSV1	C				
15	AMS		WG	17	lb/100 gal	55 DSV1	C				
15	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
15	SuperTin	80	WP	5	oz/a	55 DSV2	D				
15	AMS		WG	17	lb/100 gal	55 DSV2	D				
16	Roundup OriginalMax	4.5	SL	22	fl oz/a	2-LF	A	18.0	31.6	264.3	8341.9
16	AMS		WG	17	lb/100 gal	2-LF	A				
16	Roundup OriginalMax	4.5	SL	22	fl oz/a	6-LF	B				
16	AMS		WG	17	lb/100 gal	6-LF	B				
16	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV1	C				
16	Topsin M	70	WG	0.5	lb/a	55 DSV1	C				
16	Penncozeb	75	DF	2	lb/a	55 DSV1	C				
16	AMS		WG	17	lb/100 gal	55 DSV1	C				
16	Roundup OriginalMax	4.5	SL	22	fl oz/a	55 DSV2	D				
16	Topsin M	70	WG	0.5	lb/a	55 DSV2	D				
16	Penncozeb	75	DF	2	lb/a	55 DSV2	D				
16	AMS		WG	17	lb/100 gal	55 DSV2	D				
LSD (P=.05)								0.86	3.68	17.28	1035.50
Standard Deviation								0.60	2.58	12.10	724.60
CV								3.39	9.15	4.66	9.93