

MSU Weed Science Research Program

Encapsulated acetochlor in Roundup Ready sugarbeet

Trial ID: SB05-10
Conducted: SVREC

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Date Planted: 3/3/2010 Row Spacing: 30 IN
Variety: Hilleshog 9042 RR No. of Reps: 4
Population: 4 1/4" spacing % OM: 3.0
Soil Type: Clay pH: 6.8
Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall moldboard plow and spring field cultivator (twice)
Fertilizer: 125 lb/A of nitrogen was applied as urea prior to planting

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	POLPY	SMARTWEED, PENNSYLVANIA	POLYGONUM PENNSYLVANICUM L.
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	AMASS	REDROOT PIGWEED, POWELL AMARANTH	AMARANTHUS SP.
Crop	Code	Common Name	
1.	BETVU	BEEET, SUGAR	

Application Description

	A	B	C	D	E
Application Timing:	PRE	2-leaf	4-leaf	6-leaf	8-leaf
Date Treated:	4/1/2010	5/6/2010	5/16/2010	5/24/2010	6/1/2010
Time Treated:	10:40am	10:30am	5:00pm	12:30pm	12:35pm
% Cloud Cover:	40	45	20	20	0
Air Temp., Unit:	62 F	59 F	68 F	86 F	78 F
% Relative Humidity:	56	45	30	44	53
Wind Speed/Unit/Dir:	8 mph SE	10 mph NW	4 mph E	6 mph E	3 mph W
Soil Temp., Unit:	48 F	56 F	65 F	75 F	74 F
Soil/Leaf Surface M:	5 -	5 5	5 5	5 5	3 4
Soil Moist (1=w 5=d):	4	3	2	3	4

Crop Stage at Each Application

	A	B	C	D	E
Crop Name:	BETVU	BETVU	BETVU	BETVU	BETVU
Height (In.):	-	1"	1-2"	6-8"	5-8"
Stage (L):	-	2-4	4	6-8	10-12

Weed Stage at Each Application

	A	B	C	D	E
Weed 1 Name:	POLPY	POLPY	POLPY	POLPY	POLPY
Height (In.):	-	1-2"	1-3"	2-3"	1"
Stage (L):	-	4-5	8-12	7-9	3
Weed 2 Name:	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
Height (In.):	-	1/4-1"	1-2"	2-4"	1/8-1"
Stage (L):	-	4-6	8-16	6-20	5-8
Weed 3 Name:	AMASS	AMASS	AMASS	AMASS	AMASS
Height (In.):	-	-	-	-	-
Stage (L):	-	-	-	-	-

Weed Density (plants/sq. ft.)

	1	2	3
Weed Name:	CHEAL	POLPY	AMASS
Density:	3	2	<1

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	24"	20"	100"	19	water	28
B	Cub	3.8	AirMix	11003	21"	20"	100"	19	water	28
C	Cub	3.8	AirMix	11003	22"	20"	100"	19	water	28
D	Cub	3.8	AirMix	11003	22"	20"	100"	19	water	28
E	Cub	3.8	AirMix	11003	26"	20"	100"	19	water	28

Comments: Sugarbeet seed treatment was Tach 45 and Beta Poncho 4M.

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Weed Code										CHEAL	POLPY			CHEAL
Crop Code										BETVU	BETVU			BETVU
Rating Data Type										count	injury			control
Rating Unit										100' row	percent			percent
Rating Date										5/24/2010	5/20/2010			5/20/2010
Trt-Eval Interval										53 DA-A	49 DA-A			49 DA-A
# Subsamples, Dec.										0	0			0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code							
1	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	201	0	98	92	0	99	
1	AMS		WG	17	lb/100 gal	2-leaf	B							
1	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D							
1	AMS		WG	17	lb/100 gal	6-leaf	D							
2	MON 63410	3	L	3	pt/a	PRE	A	194	0	68	7	0	98	
2	Roundup PowerMax	4.5	L	22	fl oz/a	4-leaf	C							
2	AMS		WG	17	lb/100 gal	4-leaf	C							
2	Roundup PowerMax	4.5	L	22	fl oz/a	8-leaf	E							
2	AMS		WG	17	lb/100 gal	8-leaf	E							
3	MON 63410	3	L	3	pt/a	2-leaf	B	200	0	85	60	0	96	
3	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B							
3	AMS		WG	17	lb/100 gal	2-leaf	B							
3	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D							
3	AMS		WG	17	lb/100 gal	6-leaf	D							
4	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	203	0	98	92	0	98	
4	AMS		WG	17	lb/100 gal	2-leaf	B							
4	MON 63410	3	L	3	pt/a	6-leaf	D							
4	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D							
4	AMS		WG	17	lb/100 gal	6-leaf	D							
5	MON 63410	3	L	6	pt/a	PRE	A	183	3	61	15	0	99	
5	Roundup PowerMax	4.5	L	22	fl oz/a	4-leaf	C							
5	AMS		WG	17	lb/100 gal	4-leaf	C							
5	Roundup PowerMax	4.5	L	22	fl oz/a	8-leaf	E							
5	AMS		WG	17	lb/100 gal	8-leaf	E							
6	MON 63410	3	L	6	pt/a	2-leaf	B	203	0	74	42	0	97	
6	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B							
6	AMS		WG	17	lb/100 gal	2-leaf	B							
6	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D							
6	AMS		WG	17	lb/100 gal	6-leaf	D							
7	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	197	0	99	90	0	97	
7	AMS		WG	17	lb/100 gal	2-leaf	B							
7	MON 63410	3	L	6	pt/a	6-leaf	D							
7	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D							
7	AMS		WG	17	lb/100 gal	6-leaf	D							
8	Outlook	6	L	21	fl oz/a	2-leaf	B	200	5	99	98	4	99	
8	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B							
8	AMS		WG	17	lb/100 gal	2-leaf	B							
8	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D							
8	AMS		WG	17	lb/100 gal	6-leaf	D							
9	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	212	0	99	89	0	99	
9	AMS		WG	17	lb/100 gal	2-leaf	B							
9	Outlook	6	L	21	fl oz/a	6-leaf	D							
9	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D							
9	AMS		WG	17	lb/100 gal	6-leaf	D							
10	Dual II Magnum	7.62	L	1.33	pt/a	2-leaf	B	201	0	99	91	0	99	
10	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B							
10	AMS		WG	17	lb/100 gal	2-leaf	B							
10	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D							
10	AMS		WG	17	lb/100 gal	6-leaf	D							

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								BETVU	BETVU	CHEAL	POLPY	BETVU	CHEAL
								count	injury	control	control	injury	control
								100' row	percent	percent	percent	percent	percent
								5/24/2010	5/20/2010	5/20/2010	5/20/2010	6/1/2010	6/1/2010
								53 DA-A	49 DA-A	49 DA-A	49 DA-A	61 DA-A	61 DA-A
								0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
11	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	189	0	99	93	0	99
11	AMS		WG	17	lb/100 gal	2-leaf	B						
11	Dual II Magnum	7.62	L	1.33	pt/a	6-leaf	D						
11	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
11	AMS		WG	17	lb/100 gal	6-leaf	D						
12	Untreated							191	0	0	0	0	0
LSD (P=.05)								20.8	2.1	9.7	17.6	1.0	2.4
Standard Deviation								14.4	1.4	6.7	12.2	0.7	1.7
CV								7.3	230.94	8.22	19.09	230.94	1.84

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Weed Code								POLPY		CHEAL	POLPY	AMASS	CHEAL
Crop Code									BETVU				
Rating Data Type								control	injury	control	control	control	control
Rating Unit								percent	percent	percent	percent	percent	percent
Rating Date								6/1/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/23/2010
Trt-Eval Interval								61 DA-A	68 DA-A	68 DA-A	68 DA-A	68 DA-A	83 DA-A
# Subsamples, Dec.								0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	96	0	99	98	99	97
1	AMS		WG	17	lb/100 gal	2-leaf	B						
1	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
1	AMS		WG	17	lb/100 gal	6-leaf	D						
2	MON 63410	3	L	3	pt/a	PRE	A	94	1	99	96	99	99
2	Roundup PowerMax	4.5	L	22	fl oz/a	4-leaf	C						
2	AMS		WG	17	lb/100 gal	4-leaf	C						
2	Roundup PowerMax	4.5	L	22	fl oz/a	8-leaf	E						
2	AMS		WG	17	lb/100 gal	8-leaf	E						
3	MON 63410	3	L	3	pt/a	2-leaf	B	91	0	98	97	99	97
3	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B						
3	AMS		WG	17	lb/100 gal	2-leaf	B						
3	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
3	AMS		WG	17	lb/100 gal	6-leaf	D						
4	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	96	1	98	97	99	98
4	AMS		WG	17	lb/100 gal	2-leaf	B						
4	MON 63410	3	L	3	pt/a	6-leaf	D						
4	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
4	AMS		WG	17	lb/100 gal	6-leaf	D						
5	MON 63410	3	L	6	pt/a	PRE	A	94	0	99	95	99	99
5	Roundup PowerMax	4.5	L	22	fl oz/a	4-leaf	C						
5	AMS		WG	17	lb/100 gal	4-leaf	C						
5	Roundup PowerMax	4.5	L	22	fl oz/a	8-leaf	E						
5	AMS		WG	17	lb/100 gal	8-leaf	E						
6	MON 63410	3	L	6	pt/a	2-leaf	B	92	1	98	93	99	98
6	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B						
6	AMS		WG	17	lb/100 gal	2-leaf	B						
6	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
6	AMS		WG	17	lb/100 gal	6-leaf	D						
7	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	93	1	97	97	99	96
7	AMS		WG	17	lb/100 gal	2-leaf	B						
7	MON 63410	3	L	6	pt/a	6-leaf	D						
7	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
7	AMS		WG	17	lb/100 gal	6-leaf	D						
8	Outlook	6	L	21	fl oz/a	2-leaf	B	99	3	99	99	99	99
8	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B						
8	AMS		WG	17	lb/100 gal	2-leaf	B						
8	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
8	AMS		WG	17	lb/100 gal	6-leaf	D						
9	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	97	0	99	98	99	99
9	AMS		WG	17	lb/100 gal	2-leaf	B						
9	Outlook	6	L	21	fl oz/a	6-leaf	D						
9	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
9	AMS		WG	17	lb/100 gal	6-leaf	D						
10	Dual II Magnum	7.62	L	1.33	pt/a	2-leaf	B	95	1	99	96	99	99
10	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B						
10	AMS		WG	17	lb/100 gal	2-leaf	B						
10	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
10	AMS		WG	17	lb/100 gal	6-leaf	D						

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								POLPY		CHEAL	POLPY	AMASS	CHEAL
									BETVU				
								control	injury	control	control	control	control
								percent	percent	percent	percent	percent	percent
								6/1/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/23/2010
								61 DA-A	68 DA-A	68 DA-A	68 DA-A	68 DA-A	83 DA-A
								0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
11	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	95	1	99	97	99	99
11	AMS		WG	17	lb/100 gal	2-leaf	B						
11	Dual II Magnum	7.62	L	1.33	pt/a	6-leaf	D						
11	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
11	AMS		WG	17	lb/100 gal	6-leaf	D						
12	Untreated							0	0	0	0	0	0
LSD (P=.05)								4.9	2.2	1.6	3.5	0.7	1.7
Standard Deviation								3.4	1.5	1.1	2.4	0.5	1.1
CV								3.88	241.34	1.24	2.73	0.55	1.27

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Weed Code								POLPY	AMASS	CHEAL	POLPY	AMASS	BETVU
Crop Code													
Rating Data Type								control	control	control	control	control	count
Rating Unit								percent	percent	percent	percent	percent	100' row
Rating Date								6/23/2010	6/23/2010	9/14/2010	9/14/2010	9/14/2010	9/14/2010
Trt-Eval Interval								83 DA-A	83 DA-A	166 DA-A	166 DA-A	166 DA-A	166 DA-A
# Subsamples, Dec.								0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	96	97	97	94	93	188
1	AMS		WG	17	lb/100 gal	2-leaf	B						
1	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
1	AMS		WG	17	lb/100 gal	6-leaf	D						
2	MON 63410	3	L	3	pt/a	PRE	A	99	99	99	99	99	197
2	Roundup PowerMax	4.5	L	22	fl oz/a	4-leaf	C						
2	AMS		WG	17	lb/100 gal	4-leaf	C						
2	Roundup PowerMax	4.5	L	22	fl oz/a	8-leaf	E						
2	AMS		WG	17	lb/100 gal	8-leaf	E						
3	MON 63410	3	L	3	pt/a	2-leaf	B	96	96	98	96	96	181
3	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B						
3	AMS		WG	17	lb/100 gal	2-leaf	B						
3	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
3	AMS		WG	17	lb/100 gal	6-leaf	D						
4	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	98	99	98	97	96	196
4	AMS		WG	17	lb/100 gal	2-leaf	B						
4	MON 63410	3	L	3	pt/a	6-leaf	D						
4	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
4	AMS		WG	17	lb/100 gal	6-leaf	D						
5	MON 63410	3	L	6	pt/a	PRE	A	99	99	99	99	99	184
5	Roundup PowerMax	4.5	L	22	fl oz/a	4-leaf	C						
5	AMS		WG	17	lb/100 gal	4-leaf	C						
5	Roundup PowerMax	4.5	L	22	fl oz/a	8-leaf	E						
5	AMS		WG	17	lb/100 gal	8-leaf	E						
6	MON 63410	3	L	6	pt/a	2-leaf	B	98	99	95	96	96	189
6	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B						
6	AMS		WG	17	lb/100 gal	2-leaf	B						
6	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
6	AMS		WG	17	lb/100 gal	6-leaf	D						
7	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	97	99	95	97	98	191
7	AMS		WG	17	lb/100 gal	2-leaf	B						
7	MON 63410	3	L	6	pt/a	6-leaf	D						
7	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
7	AMS		WG	17	lb/100 gal	6-leaf	D						
8	Outlook	6	L	21	fl oz/a	2-leaf	B	99	99	99	99	99	187
8	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B						
8	AMS		WG	17	lb/100 gal	2-leaf	B						
8	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
8	AMS		WG	17	lb/100 gal	6-leaf	D						
9	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	98	98	98	99	98	196
9	AMS		WG	17	lb/100 gal	2-leaf	B						
9	Outlook	6	L	21	fl oz/a	6-leaf	D						
9	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
9	AMS		WG	17	lb/100 gal	6-leaf	D						
10	Dual II Magnum	7.62	L	1.33	pt/a	2-leaf	B	96	99	99	95	98	191
10	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B						
10	AMS		WG	17	lb/100 gal	2-leaf	B						
10	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
10	AMS		WG	17	lb/100 gal	6-leaf	D						

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Weed Code													
Crop Code													
Rating Data Type								control	control	control	control	control	count
Rating Unit								percent	percent	percent	percent	percent	100' row
Rating Date								6/23/2010	6/23/2010	9/14/2010	9/14/2010	9/14/2010	9/14/2010
Trt-Eval Interval								83 DA-A	83 DA-A	166 DA-A	166 DA-A	166 DA-A	166 DA-A
# Subsamples, Dec.								0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
11	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	95	96	99	96	97	186
11	AMS		WG	17	lb/100 gal	2-leaf	B						
11	Dual II Magnum	7.62	L	1.33	pt/a	6-leaf	D						
11	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D						
11	AMS		WG	17	lb/100 gal	6-leaf	D						
12	Untreated							0	0	0	0	0	151
LSD (P=.05)								4.4	2.5	3.4	5.1	4.7	22.1
Standard Deviation								3.0	1.7	2.4	3.5	3.3	15.3
CV								3.42	1.91	2.64	3.95	3.69	8.23

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Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

Subsamples, Dec.

BETVU	BETVU	BETVU	BETVU
% sugar	yield	RWST	RWSA
percent	ton/acre	# / ton	# / acre
9/14/2010	9/14/2010	9/14/2010	9/14/2010
166 DA-A	166 DA-A	166 DA-A	166 DA-A
1	1	1	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	18.3	23.2	269.0	6251
1	AMS		WG	17	lb/100 gal	2-leaf	B				
1	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D				
1	AMS		WG	17	lb/100 gal	6-leaf	D				
2	MON 63410	3	L	3	pt/a	PRE	A	18.6	22.9	274.4	6285
2	Roundup PowerMax	4.5	L	22	fl oz/a	4-leaf	C				
2	AMS		WG	17	lb/100 gal	4-leaf	C				
2	Roundup PowerMax	4.5	L	22	fl oz/a	8-leaf	E				
2	AMS		WG	17	lb/100 gal	8-leaf	E				
3	MON 63410	3	L	3	pt/a	2-leaf	B	17.8	23.3	261.0	6094
3	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B				
3	AMS		WG	17	lb/100 gal	2-leaf	B				
3	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D				
3	AMS		WG	17	lb/100 gal	6-leaf	D				
4	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	18.1	24.8	267.2	6622
4	AMS		WG	17	lb/100 gal	2-leaf	B				
4	MON 63410	3	L	3	pt/a	6-leaf	D				
4	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D				
4	AMS		WG	17	lb/100 gal	6-leaf	D				
5	MON 63410	3	L	6	pt/a	PRE	A	18.3	23.4	268.5	6296
5	Roundup PowerMax	4.5	L	22	fl oz/a	4-leaf	C				
5	AMS		WG	17	lb/100 gal	4-leaf	C				
5	Roundup PowerMax	4.5	L	22	fl oz/a	8-leaf	E				
5	AMS		WG	17	lb/100 gal	8-leaf	E				
6	MON 63410	3	L	6	pt/a	2-leaf	B	18.8	22.6	273.5	6183
6	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B				
6	AMS		WG	17	lb/100 gal	2-leaf	B				
6	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D				
6	AMS		WG	17	lb/100 gal	6-leaf	D				
7	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	17.8	22.8	260.3	5937
7	AMS		WG	17	lb/100 gal	2-leaf	B				
7	MON 63410	3	L	6	pt/a	6-leaf	D				
7	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D				
7	AMS		WG	17	lb/100 gal	6-leaf	D				
8	Outlook	6	L	21	fl oz/a	2-leaf	B	17.6	23.3	260.3	6043
8	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B				
8	AMS		WG	17	lb/100 gal	2-leaf	B				
8	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D				
8	AMS		WG	17	lb/100 gal	6-leaf	D				
9	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	18.4	23.0	269.9	6204
9	AMS		WG	17	lb/100 gal	2-leaf	B				
9	Outlook	6	L	21	fl oz/a	6-leaf	D				
9	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D				
9	AMS		WG	17	lb/100 gal	6-leaf	D				
10	Dual II Magnum	7.62	L	1.33	pt/a	2-leaf	B	18.3	23.4	268.3	6290
10	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B				
10	AMS		WG	17	lb/100 gal	2-leaf	B				
10	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D				
10	AMS		WG	17	lb/100 gal	6-leaf	D				

MSU Weed Science Research Program

Encapsulated acetochlor in Roundup Ready sugarbeet

Trial ID: SB05-10
Conducted: SVREC

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code

Crop Code	BETVU	BETVU	BETVU	BETVU
Rating Data Type	% sugar	yield	RWST	RWSA
Rating Unit	percent	ton/acre	# / ton	# / acre
Rating Date	9/14/2010	9/14/2010	9/14/2010	9/14/2010
Trt-Eval Interval	166 DA-A	166 DA-A	166 DA-A	166 DA-A
# Subsamples, Dec.	1	1	1	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
11	Roundup PowerMax	4.5	L	22	fl oz/a	2-leaf	B	18.0	22.1	260.9	5783
11	AMS		WG	17	lb/100 gal	2-leaf	B				
11	Dual II Magnum	7.62	L	1.33	pt/a	6-leaf	D				
11	Roundup PowerMax	4.5	L	22	fl oz/a	6-leaf	D				
11	AMS		WG	17	lb/100 gal	6-leaf	D				
12	Untreated							17.1	6.5	247.0	1690
LSD (P=.05)								1.19	4.00	19.60	1136.3
Standard Deviation								0.82	2.77	13.57	787.0
CV								4.55	12.71	5.12	13.55