

MSU Weed Science Research Program

Comparison of Roundup Ready and conventional weed control systems in sugarbeet

Trial ID: SB04-10 Study Dir.: Sprague, Powell
Conducted: SVREC Investigator: Christy Sprague

Date Planted: 3/31/2010 Row Spacing: 30 IN
Variety: Hilleshog 9042 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

Table with 4 columns: Weed, Code, Common Name, Scientific Name. Lists CHEAL, POLPY, AMASS and BETVU.

Application Description

Table with 6 columns: Application Timing, Date Treated, Time Treated, % Cloud Cover, Air Temp., % Relative Humidity, Wind Speed/Unit/Dir, Soil Temp., Soil/Leaf Surface M, Soil Moist. Lists treatments A-E.

Crop Stage at Each Application

Table with 6 columns: Crop Name, Height (In.), Stage (L). Lists crop stages for treatments A-E.

Weed Stage at Each Application

Table with 6 columns: Weed Name, Height (In.), Stage (L). Lists weed stages for treatments A-E.

Weed Density (plants/sq. ft.)

Table with 3 columns: Weed Name, Density. Lists CHEAL, AMASS, POLPY densities.

Application Equipment

Table with 11 columns: Appl, Sprayer Type, Speed MPH, Nozzle Type, Nozzle Size, Nozzle Height, Nozzle Spacing, Boom Width, GPA, Carrier, PSI. Lists equipment for treatments A-E.

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

MSU Weed Science Research Program

Comparison of Roundup Ready and conventional weed control systems in sugarbeet

Trial ID: SB04-10
Conducted: SVRECStudy Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code	Crop Code	BETVU	BETVU	CHEAL	POLPY	BETVU	CHEAL
Rating Data Type	Rating Unit	injury	injury	control	control	injury	control
Rating Date	Rating Date	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	Trt-Eval Interval	5/16/2010	6/1/2010	6/1/2010	6/1/2010	6/8/2010	6/8/2010
# Subsamples, Dec.	# Subsamples, Dec.	37 DA-A	53 DA-A	53 DA-A	53 DA-A	60 DA-A	60 DA-A
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" weeds	C
1	Stinger	3	L	4	fl oz/a	2" weeds	C
1	AMS		WG	17	lb/100 gal	2" weeds	C
1	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E
1	AMS		WG	17	lb/100 gal	+4" weed	E
2	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C
2	UpBeet	50	DF	0.5	oz/a	2" weeds	C
2	AMS		WG	17	lb/100 gal	2" weeds	C
2	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E
2	AMS		WG	17	lb/100 gal	+4" weed	E
3	Nortron	4	L	3	pt/a	PRE	A
3	Betamix	1.3	L	2	pt/a	STD1	B
3	UpBeet	50	DF	0.5	oz/a	STD1	B
3	Stinger	3	L	4	fl oz/a	STD1	B
3	Activator 90		L	0.25	% v/v	STD1	B
3	Betamix	1.3	L	3	pt/a	STD2	D
3	UpBeet	50	DF	0.5	oz/a	STD2	D
3	Stinger	3	L	4	fl oz/a	STD2	D
3	Activator 90		L	0.25	% v/v	STD2	D
4	Betamix	1.3	L	2	pt/a	STD1	B
4	UpBeet	50	DF	0.5	oz/a	STD1	B
4	Stinger	3	L	4	fl oz/a	STD1	B
4	Activator 90		L	0.25	% v/v	STD1	B
4	Betamix	1.3	L	3	pt/a	STD2	D
4	UpBeet	50	DF	0.5	oz/a	STD2	D
4	Stinger	3	L	4	fl oz/a	STD2	D
4	Activator 90		L	0.25	% v/v	STD2	D
5	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C
5	AMS		WG	17	lb/100 gal	2" weeds	C
5	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E
5	AMS		WG	17	lb/100 gal	+4" weed	E
6	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	C
6	AMS		WG	17	lb/100 gal	2" weeds	C
6	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E
6	AMS		WG	17	lb/100 gal	+4" weed	E
7	Nortron	4	L	3	pt/a	PRE	A
7	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	D
7	AMS		WG	17	lb/100 gal	+4" weed	D
8	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	C
8	AMS		WG	17	lb/100 gal	2" weeds	C
8	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E
8	Stinger	3	L	3	fl oz/a	+4" weed	E
8	AMS		WG	17	lb/100 gal	+4" weed	E
9	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C
9	AMS		WG	17	lb/100 gal	2" weeds	C
9	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E
9	Outlook	6	L	16	fl oz/a	+4" weed	E
9	AMS		WG	17	lb/100 gal	+4" weed	E

MSU Weed Science Research Program

Comparison of Roundup Ready and conventional weed control systems in sugarbeet

Trial ID: SB04-10
Conducted: SVREC

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code								CHEAL		POLPY		CHEAL	
Crop Code								BETVU		BETVU		BETVU	
Rating Data Type								injury		injury		injury	
Rating Unit								percent		percent		percent	
Rating Date								5/16/2010		6/1/2010		6/1/2010	
Trt-Eval Interval								37 DA-A		53 DA-A		53 DA-A	
# Subsamples, Dec.								0		0		0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code						
10	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	0	0	99	94	0	95
10	AMS		WG	17	lb/100 gal	2" weeds	C						
10	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
10	MON 63410	3	L	3	pt/a	+4" weed	E						
10	AMS		WG	17	lb/100 gal	+4" weed	E						
11	Untreated							0	0	0	0	0	0
12	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	0	0	98	97	0	98
12	AMS		WG	17	lb/100 gal	2" weeds	C						
12	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
12	Dual Magnum	7.62	L	1.33	pt/a	+4" weed	E						
12	AMS		WG	17	lb/100 gal	+4" weed	E						
LSD (P=.05)								2.5	1.6	3.7	9.4	1.2	6.8
Standard Deviation								1.7	1.1	2.5	6.5	0.8	4.7
CV								45.28	38.53	2.91	7.84	64.28	5.66

MSU Weed Science Research Program

Comparison of Roundup Ready and conventional weed control systems in sugarbeet

Trial ID: SB04-10
Conducted: SVRECStudy Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code								POLPY	AMASS		CHEAL	POLPY	AMASS
Crop Code										BETVU			
Rating Data Type								control	control	injury	control	control	control
Rating Unit								percent	percent	percent	percent	percent	percent
Rating Date								6/8/2010	6/8/2010	6/23/2010	6/23/2010	6/23/2010	6/23/2010
Trt-Eval Interval								60 DA-A	60 DA-A	75 DA-A	75 DA-A	75 DA-A	75 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" weeds	C	91	87	0	99	98	99
1	Stinger	3	L	4	fl oz/a	2" weeds	C						
1	AMS		WG	17	lb/100 gal	2" weeds	C						
1	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
1	AMS		WG	17	lb/100 gal	+4" weed	E						
2	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	98	90	0	99	99	99
2	UpBeet	50	DF	0.5	oz/a	2" weeds	C						
2	AMS		WG	17	lb/100 gal	2" weeds	C						
2	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
2	AMS		WG	17	lb/100 gal	+4" weed	E						
3	Nortron	4	L	3	pt/a	PRE	A	83	98	0	83	72	97
3	Betamix	1.3	L	2	pt/a	STD1	B						
3	UpBeet	50	DF	0.5	oz/a	STD1	B						
3	Stinger	3	L	4	fl oz/a	STD1	B						
3	Activator 90		L	0.25	% v/v	STD1	B						
3	Betamix	1.3	L	3	pt/a	STD2	D						
3	UpBeet	50	DF	0.5	oz/a	STD2	D						
3	Stinger	3	L	4	fl oz/a	STD2	D						
3	Activator 90		L	0.25	% v/v	STD2	D						
4	Betamix	1.3	L	2	pt/a	STD1	B	85	99	0	78	77	96
4	UpBeet	50	DF	0.5	oz/a	STD1	B						
4	Stinger	3	L	4	fl oz/a	STD1	B						
4	Activator 90		L	0.25	% v/v	STD1	B						
4	Betamix	1.3	L	3	pt/a	STD2	D						
4	UpBeet	50	DF	0.5	oz/a	STD2	D						
4	Stinger	3	L	4	fl oz/a	STD2	D						
4	Activator 90		L	0.25	% v/v	STD2	D						
5	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	91	89	0	99	99	99
5	AMS		WG	17	lb/100 gal	2" weeds	C						
5	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
5	AMS		WG	17	lb/100 gal	+4" weed	E						
6	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	C	91	85	0	99	98	99
6	AMS		WG	17	lb/100 gal	2" weeds	C						
6	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
6	AMS		WG	17	lb/100 gal	+4" weed	E						
7	Nortron	4	L	3	pt/a	PRE	A	85	99	0	98	96	99
7	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	D						
7	AMS		WG	17	lb/100 gal	+4" weed	D						
8	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	C	91	93	0	99	99	99
8	AMS		WG	17	lb/100 gal	2" weeds	C						
8	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
8	Stinger	3	L	3	fl oz/a	+4" weed	E						
8	AMS		WG	17	lb/100 gal	+4" weed	E						
9	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	90	88	0	99	98	99
9	AMS		WG	17	lb/100 gal	2" weeds	C						
9	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
9	Outlook	6	L	16	fl oz/a	+4" weed	E						
9	AMS		WG	17	lb/100 gal	+4" weed	E						

MSU Weed Science Research Program

Comparison of Roundup Ready and conventional weed control systems in sugarbeet

Trial ID: SB04-10
Conducted: SVRECStudy Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code						POLPY		AMASS				CHEAL		POLPY		AMASS	
Crop Code										BETVU							
Rating Data Type						control		control		injury		control		control		control	
Rating Unit						percent		percent		percent		percent		percent		percent	
Rating Date						6/8/2010		6/8/2010		6/23/2010		6/23/2010		6/23/2010		6/23/2010	
Trt-Eval Interval						60 DA-A		60 DA-A		75 DA-A		75 DA-A		75 DA-A		75 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										
10	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	93	89	0	99	99	99				
10	AMS		WG	17	lb/100 gal	2" weeds	C										
10	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E										
10	MON 63410	3	L	3	pt/a	+4" weed	E										
10	AMS		WG	17	lb/100 gal	+4" weed	E										
11	Untreated							0	0	0	0	0	0	0	0	0	0
12	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	97	96	0	99	98	99				
12	AMS		WG	17	lb/100 gal	2" weeds	C										
12	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E										
12	Dual Magnum	7.62	L	1.33	pt/a	+4" weed	E										
12	AMS		WG	17	lb/100 gal	+4" weed	E										
LSD (P=.05)								11.3	8.7	0.0	2.3	10.3	2.5				
Standard Deviation								7.8	6.0	0.0	1.6	7.1	1.7				
CV								9.46	7.16	0.0	1.84	8.3	1.9				

MSU Weed Science Research Program

Comparison of Roundup Ready and conventional weed control systems in sugarbeet

Trial ID: SB04-10
Conducted: SVRECStudy Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code								CHEAL	POLPY	AMASS	BETVU	BETVU	BETVU
Crop Code											count	% sugar	yield
Rating Data Type								control	control	control	100' row	percent	ton/acre
Rating Unit								percent	percent	percent	100' row	percent	ton/acre
Rating Date								9/14/2010	9/14/2010	9/14/2010	9/14/2010	9/14/2010	9/14/2010
Trt-Eval Interval								158 DA-A	158 DA-A	158 DA-A	158 DA-A	158 DA-A	158 DA-A
# Subsamples, Dec.								0	0	0	0	1	1
Trt	Treatment	Form	Form	Rate	Rate	Grow	Appl						
No.	Name	Conc	Type	Unit	Unit	Stg	Code						
1	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	99	99	98	201	17.8	24.5
1	Stinger	3	L	4	fl oz/a	2" weeds	C						
1	AMS		WG	17	lb/100 gal	2" weeds	C						
1	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
1	AMS		WG	17	lb/100 gal	+4" weed	E						
2	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	97	98	99	186	17.8	23.6
2	UpBeet	50	DF	0.5	oz/a	2" weeds	C						
2	AMS		WG	17	lb/100 gal	2" weeds	C						
2	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
2	AMS		WG	17	lb/100 gal	+4" weed	E						
3	Nortron	4	L	3	pt/a	PRE	A	82	70	96	178	17.5	19.0
3	Betamix	1.3	L	2	pt/a	STD1	B						
3	UpBeet	50	DF	0.5	oz/a	STD1	B						
3	Stinger	3	L	4	fl oz/a	STD1	B						
3	Activator 90		L	0.25	% v/v	STD1	B						
3	Betamix	1.3	L	3	pt/a	STD2	D						
3	UpBeet	50	DF	0.5	oz/a	STD2	D						
3	Stinger	3	L	4	fl oz/a	STD2	D						
3	Activator 90		L	0.25	% v/v	STD2	D						
4	Betamix	1.3	L	2	pt/a	STD1	B	75	74	94	181	17.3	21.3
4	UpBeet	50	DF	0.5	oz/a	STD1	B						
4	Stinger	3	L	4	fl oz/a	STD1	B						
4	Activator 90		L	0.25	% v/v	STD1	B						
4	Betamix	1.3	L	3	pt/a	STD2	D						
4	UpBeet	50	DF	0.5	oz/a	STD2	D						
4	Stinger	3	L	4	fl oz/a	STD2	D						
4	Activator 90		L	0.25	% v/v	STD2	D						
5	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	99	99	99	203	18.0	24.4
5	AMS		WG	17	lb/100 gal	2" weeds	C						
5	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
5	AMS		WG	17	lb/100 gal	+4" weed	E						
6	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	C	99	99	96	193	18.4	24.1
6	AMS		WG	17	lb/100 gal	2" weeds	C						
6	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
6	AMS		WG	17	lb/100 gal	+4" weed	E						
7	Nortron	4	L	3	pt/a	PRE	A	97	93	93	192	17.4	23.7
7	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	D						
7	AMS		WG	17	lb/100 gal	+4" weed	D						
8	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	C	99	99	99	205	18.1	23.6
8	AMS		WG	17	lb/100 gal	2" weeds	C						
8	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
8	Stinger	3	L	3	fl oz/a	+4" weed	E						
8	AMS		WG	17	lb/100 gal	+4" weed	E						
9	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	99	99	99	201	18.4	23.8
9	AMS		WG	17	lb/100 gal	2" weeds	C						
9	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
9	Outlook	6	L	16	fl oz/a	+4" weed	E						
9	AMS		WG	17	lb/100 gal	+4" weed	E						

MSU Weed Science Research Program

Comparison of Roundup Ready and conventional weed control systems in sugarbeet

Trial ID: SB04-10
Conducted: SVREC

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code								CHEAL	POLPY	AMASS	BETVU	BETVU	BETVU
Crop Code											count	% sugar	yield
Rating Data Type								control	control	control	100' row	percent	ton/acre
Rating Unit								percent	percent	percent	100' row	percent	ton/acre
Rating Date								9/14/2010	9/14/2010	9/14/2010	9/14/2010	9/14/2010	9/14/2010
Trt-Eval Interval								158 DA-A	158 DA-A	158 DA-A	158 DA-A	158 DA-A	158 DA-A
# Subsamples, Dec.								0	0	0	0	1	1
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code						
10	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	99	99	97	187	18.2	23.7
10	AMS		WG	17	lb/100 gal	2" weeds	C						
10	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
10	MON 63410	3	L	3	pt/a	+4" weed	E						
10	AMS		WG	17	lb/100 gal	+4" weed	E						
11	Untreated							0	0	0	142	17.2	3.9
12	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	99	99	99	205	17.8	25.0
12	AMS		WG	17	lb/100 gal	2" weeds	C						
12	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E						
12	Dual Magnum	7.62	L	1.33	pt/a	+4" weed	E						
12	AMS		WG	17	lb/100 gal	+4" weed	E						
LSD (P=.05)								2.9	11.8	5.5	23.8	0.86	3.09
Standard Deviation								2.0	8.2	3.8	16.5	0.60	2.14
CV								2.32	9.56	4.26	8.69	3.35	9.87

MSU Weed Science Research Program

Comparison of Roundup Ready and conventional weed control systems in sugarbeet

Trial ID: SB04-10
Conducted: SVRECStudy Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

Subsamples, Dec.

BETVU	BETVU
RWST	RWSA
# / ton	# / acre
9/14/2010	9/14/2010
158 DA-A	158 DA-A
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" weeds	C	257.1	6315
1	Stinger	3	L	4	fl oz/a	2" weeds	C		
1	AMS		WG	17	lb/100 gal	2" weeds	C		
1	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E		
1	AMS		WG	17	lb/100 gal	+4" weed	E		
2	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	257.6	6071
2	UpBeet	50	DF	0.5	oz/a	2" weeds	C		
2	AMS		WG	17	lb/100 gal	2" weeds	C		
2	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E		
2	AMS		WG	17	lb/100 gal	+4" weed	E		
3	Nortron	4	L	3	pt/a	PRE	A	251.6	4768
3	Betamix	1.3	L	2	pt/a	STD1	B		
3	UpBeet	50	DF	0.5	oz/a	STD1	B		
3	Stinger	3	L	4	fl oz/a	STD1	B		
3	Activator 90		L	0.25	% v/v	STD1	B		
3	Betamix	1.3	L	3	pt/a	STD2	D		
3	UpBeet	50	DF	0.5	oz/a	STD2	D		
3	Stinger	3	L	4	fl oz/a	STD2	D		
3	Activator 90		L	0.25	% v/v	STD2	D		
4	Betamix	1.3	L	2	pt/a	STD1	B	251.8	5365
4	UpBeet	50	DF	0.5	oz/a	STD1	B		
4	Stinger	3	L	4	fl oz/a	STD1	B		
4	Activator 90		L	0.25	% v/v	STD1	B		
4	Betamix	1.3	L	3	pt/a	STD2	D		
4	UpBeet	50	DF	0.5	oz/a	STD2	D		
4	Stinger	3	L	4	fl oz/a	STD2	D		
4	Activator 90		L	0.25	% v/v	STD2	D		
5	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	260.1	6378
5	AMS		WG	17	lb/100 gal	2" weeds	C		
5	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E		
5	AMS		WG	17	lb/100 gal	+4" weed	E		
6	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	C	257.0	6188
6	AMS		WG	17	lb/100 gal	2" weeds	C		
6	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E		
6	AMS		WG	17	lb/100 gal	+4" weed	E		
7	Nortron	4	L	3	pt/a	PRE	A	251.2	5974
7	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	D		
7	AMS		WG	17	lb/100 gal	+4" weed	D		
8	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	C	263.9	6226
8	AMS		WG	17	lb/100 gal	2" weeds	C		
8	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E		
8	Stinger	3	L	3	fl oz/a	+4" weed	E		
8	AMS		WG	17	lb/100 gal	+4" weed	E		
9	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	268.8	6399
9	AMS		WG	17	lb/100 gal	2" weeds	C		
9	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E		
9	Outlook	6	L	16	fl oz/a	+4" weed	E		
9	AMS		WG	17	lb/100 gal	+4" weed	E		

MSU Weed Science Research Program

Comparison of Roundup Ready and conventional weed control systems in sugarbeet

Trial ID: SB04-10
Conducted: SVREC

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code

Crop Code	BETVU	BETVU
Rating Data Type	RWST	RWSA
Rating Unit	# / ton	# / acre
Rating Date	9/14/2010	9/14/2010
Trt-Eval Interval	158 DA-A	158 DA-A
# Subsamples, Dec.	1	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
10	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	262.9	6230
10	AMS		WG	17	lb/100 gal	2" weeds	C		
10	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E		
10	MON 63410	3	L	3	pt/a	+4" weed	E		
10	AMS		WG	17	lb/100 gal	+4" weed	E		
11	Untreated							247.5	959
12	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	C	261.9	6555
12	AMS		WG	17	lb/100 gal	2" weeds	C		
12	Roundup PowerMax	4.5	L	22	fl oz/a	+4" weed	E		
12	Dual Magnum	7.62	L	1.33	pt/a	+4" weed	E		
12	AMS		WG	17	lb/100 gal	+4" weed	E		
LSD (P=.05)								12.69	924.1
Standard Deviation								8.79	640.0
CV								3.41	11.39