

MSU Weed Science Research Program

Comparison of Roundup Ready and conventional systems in sugarbeet

Trial ID: SB01-11 Study Dir.: Sprague, Powell
 Conducted: SVREC Investigator: Christy Sprague

Date Planted: 5/4/2011 Row Spacing: 30 IN
 Variety: Hilleshog 9042RR No. of Reps: 4
 Population: 4 1/4" spacing % OM: 2.8
 Soil Type: Clay Loam pH: 7.9
 Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall moldboard plow. Spring field cultivated (twice).
 Fertilizer: Urea (125 lb/A of nitrogen) was broadcast and incorporated prior to planting.

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.
3.	POLPY	SMARTWEED, PENNSYLVANIA	POLYGONUM PENNSYLVANICUM L.
Crop	Code	Common Name	
1.	BETVU	BEEET, SUGAR	

Application Description

	A	B	C	D	E	F
Application Timing:	PRE	STD 1	2" weeds	STD 2	4lf beets	4" weeds
Date Treated:	5/4/2011	5/30/2011	6/2/2011	6/7/2011	6/7/2011	6/25/2011
Time Treated:	6:00 pm	8:35 pm	10:00 am	2:00 pm	2:00 pm	4:50 pm
% Cloud Cover:	0	0	5	80	80	40
Air Temp., Unit:	63 F	79 F	55 F	92 F	92 F	80 F
% Relative Humidity:	28	78	60	37	37	42
Wind Speed/Unit/Dir:	2 mph SW	3 mph N	8 mph NE	2 mph SE	2 mph SE	7 mph W
Soil Temp., Unit:	- F	74 F	60 F	84 F	84 F	75 F
Soil/Leaf Surface M:	5 -	5 5	5 5	5 5	5 5	5 4
Soil Moist (1=w 5=d):	4	3	3	4	4	3

Crop Stage at Each Application

	A	B	C	D	E	F
Crop Name:	BETVU	BETVU	BETVU	BETVU	BETVU	BETVU
Height (In.):	-	1-2"	2"	2-3"	2-3"	8-10"
Stage (L):	-	2-4	3-4	4-6	4-6	11-12

Weed Stage at Each Application

	A	B	C	D	E	F
Weed 1 Name:	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
Height (In.):	-	1"	1-2.5"	2"	2"	1-4"
Stage (L):	-	4-6	7-12	4	4	6-20
Weed 2 Name:	AMAPO	AMAPO	AMAPO	AMAPO	AMAPO	AMAPO
Height (In.):	-	1/4"	1/2-1"	-	-	5-6"
Stage (L):	-	1	5-6	-	-	1-2
Weed 3 Name:	POLPY	POLPY	POLPY	POLPY	POLPY	POLPY
Height (In.):	-	1.5-2"	1.5-2.5"	2-3"	2-3"	3-4"
Stage (L):	-	2-3	4-8	3-4	3-4	4-6

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	21"	20"	100"	19	Water	28
B	Cub	3.8	AirMix	11003	21"	20"	100"	19	Water	28
C	Cub	3.8	AirMix	11003	21"	20"	100"	19	Water	28
D	Cub	3.8	AirMix	11003	21"	20"	100"	19	Water	28
E	Cub	3.8	AirMix	11003	21"	20"	100"	19	Water	28
F	Cub	3.8	AirMix	11003	26"	20"	100"	19	Water	28

Comments: Treatments 1-4 were planted with conventional (non-Roundup Ready) sugarbeets 'ACH 927'.

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Weed Code	CHEAL	AMAPO	POLPY	CHEAL
Crop Code	BETVU			BETVU
Rating Data Type	injury	control	control	injury
Rating Unit	percent	percent	percent	percent
Rating Date	6/9/2011	6/9/2011	6/9/2011	6/14/2011
Trt-Eval Interval	36 DA-A	36 DA-A	36 DA-A	41 DA-A
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	ACH 963 - Conv							34	96	99	99	28	99
1	Nortron	4	L	3	pt/a	PRE	A						
1	Betamix	1.3	L	2	pt/a	STD1	B						
1	Upbeet	50	WG	0.5	oz/a	STD1	B						
1	Stinger	3	L	4	fl oz/a	STD1	B						
1	Activator 90		L	0.25	% v/v	STD1	B						
1	Betamix	1.3	L	3	pt/a	STD2	D						
1	Upbeet	50	WG	0.5	oz/a	STD2	D						
1	Stinger	3	L	4	fl oz/a	STD2	D						
1	Activator 90		L	0.25	% v/v	STD2	D						
2	ACH 963 - Conv							23	95	99	85	23	95
2	Betamix	1.3	L	2	pt/a	STD1	B						
2	Upbeet	50	WG	0.5	oz/a	STD1	B						
2	Stinger	3	L	4	fl oz/a	STD1	B						
2	Activator 90		L	0.25	% v/v	STD1	B						
2	Betamix	1.3	L	3	pt/a	STD2	D						
2	Upbeet	50	WG	0.5	oz/a	STD2	D						
2	Stinger	3	L	4	fl oz/a	STD2	D						
2	Activator 90		L	0.25	% v/v	STD2	D						
3	ACH 963 - Conv							24	92	99	88	25	93
3	Betamix	1.3	L	3	pt/a	STD1	B						
3	Upbeet	50	WG	0.5	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	WG	0.5	oz/a	STD2	D						
3	Activator 90		L	0.25	% v/v	STD2	D						
4	ACH 963 - Conv							0	0	0	0	0	0
4	Untreated												
5	H9042 - RR							33	96	99	88	30	99
5	Nortron	4	L	3	pt/a	PRE	A						
5	Betamix	1.3	L	2	pt/a	STD1	B						
5	Upbeet	50	WG	0.5	oz/a	STD1	B						
5	Stinger	3	L	4	fl oz/a	STD1	B						
5	Activator 90		L	0.25	% v/v	STD1	B						
5	Betamix	1.3	L	3	pt/a	STD2	D						
5	Upbeet	50	WG	0.5	oz/a	STD2	D						
5	Stinger	3	L	4	fl oz/a	STD2	D						
5	Activator 90		L	0.25	% v/v	STD2	D						
6	H9042 - RR							33	86	99	78	26	97
6	Betamix	1.3	L	2	pt/a	STD1	B						
6	Upbeet	50	WG	0.5	oz/a	STD1	B						
6	Stinger	3	L	4	fl oz/a	STD1	B						
6	Activator 90		L	0.25	% v/v	STD1	B						
6	Betamix	1.3	L	3	pt/a	STD2	D						
6	Upbeet	50	WG	0.5	oz/a	STD2	D						
6	Stinger	3	L	4	fl oz/a	STD2	D						
6	Activator 90		L	0.25	% v/v	STD2	D						
7	H9042 - RR							14	43	99	20	9	98
7	Nortron	4	L	3	pt/a	PRE	A						
7	Roundup PowerMax	4.5	SL	22	fl oz/a	4lf beet	E						
7	AMS		WG	17	lb/100 gal	4lf beet	E						

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Weed Code								CHEAL	AMAPO	POLPY	CHEAL		
Crop Code								BETVU			BETVU		
Rating Data Type								injury	control	control	control	injury	control
Rating Unit								percent	percent	percent	percent	percent	percent
Rating Date								6/9/2011	6/9/2011	6/9/2011	6/9/2011	6/14/2011	6/14/2011
Trt-Eval Interval								36 DA-A	36 DA-A	36 DA-A	36 DA-A	41 DA-A	41 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						
8	H9042 - RR							0	0	0	0	0	
8	Untreated												
9	H9042 - RR							3	99	99	86	0	
9	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
9	AMS		WG	17	lb/100 gal	2" weeds	C						
9	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
9	AMS		WG	17	lb/100 gal	+4" weed	F						
10	H9042 - RR							0	99	99	85	0	
10	Roundup PowerMax	4.5	SL	33	fl oz/a	2" weeds	C						
10	AMS		WG	17	lb/100 gal	2" weeds	C						
10	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
10	AMS		WG	17	lb/100 gal	+4" weed	F						
11	H9042 - RR							3	99	99	90	0	
11	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
11	AMS		WG	17	lb/100 gal	2" weeds	C						
11	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
11	Upbeet	50	WG	1	oz/a	+4" weed	F						
11	AMS		WG	17	lb/100 gal	+4" weed	F						
12	H9042 - RR							0	99	99	95	0	
12	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
12	AMS		WG	17	lb/100 gal	2" weeds	C						
12	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
12	Stinger	3	L	4	fl oz/a	+4" weed	F						
12	AMS		WG	17	lb/100 gal	+4" weed	F						
13	H9042 - RR							0	98	99	86	3	
13	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
13	AMS		WG	17	lb/100 gal	2" weeds	C						
13	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
13	Outlook	6	L	16	fl oz/a	+4" weed	F						
13	AMS		WG	17	lb/100 gal	+4" weed	F						
14	H9042 - RR							0	99	99	85	0	
14	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
14	AMS		WG	17	lb/100 gal	2" weeds	C						
14	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
14	Warrant	3	L	3	pt/a	+4" weed	F						
14	AMS		WG	17	lb/100 gal	+4" weed	F						
15	H9042 - RR							3	99	99	95	0	
15	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
15	AMS		WG	17	lb/100 gal	2" weeds	C						
15	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
15	Dual Magnum	7.62	L	1.33	pt/a	+4" weed	F						
15	AMS		WG	17	lb/100 gal	+4" weed	F						
16	H9042 - RR							3	99	99	95	0	
16	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
16	AMS		WG	17	lb/100 gal	2" weeds	C						
16	Sequence	5.25	L	3	pt/a	+4" weed	F						
16	AMS		WG	17	lb/100 gal	+4" weed	F						
LSD (P=.05)								5.1	10.0	0.0	11.1	4.5	3.4
Standard Deviation								3.6	7.0	0.0	7.8	3.2	2.4
CV								34.04	8.65	0.0	10.63	35.69	2.79

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Weed Code		AMAPO		POLPY		BETVU		CHEAL		AMAPO		POLPY	
Crop Code		control		control		injury		control		control		control	
Rating Data Type		percent		percent		percent		percent		percent		percent	
Rating Unit		6/14/2011		6/14/2011		6/25/2011		6/25/2011		6/25/2011		6/25/2011	
Rating Date		41 DA-A		41 DA-A		52 DA-A		52 DA-A		52 DA-A		52 DA-A	
Trt-Eval Interval		0		0		0		0		0		0	
# Subsamples, Dec.													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	ACH 963 - Conv							99	99	19	98	99	94
1	Nortron	4	L	3	pt/a	PRE	A						
1	Betamix	1.3	L	2	pt/a	STD1	B						
1	Upbeet	50	WG	0.5	oz/a	STD1	B						
1	Stinger	3	L	4	fl oz/a	STD1	B						
1	Activator 90		L	0.25	% v/v	STD1	B						
1	Betamix	1.3	L	3	pt/a	STD2	D						
1	Upbeet	50	WG	0.5	oz/a	STD2	D						
1	Stinger	3	L	4	fl oz/a	STD2	D						
1	Activator 90		L	0.25	% v/v	STD2	D						
2	ACH 963 - Conv							99	81	15	93	99	73
2	Betamix	1.3	L	2	pt/a	STD1	B						
2	Upbeet	50	WG	0.5	oz/a	STD1	B						
2	Stinger	3	L	4	fl oz/a	STD1	B						
2	Activator 90		L	0.25	% v/v	STD1	B						
2	Betamix	1.3	L	3	pt/a	STD2	D						
2	Upbeet	50	WG	0.5	oz/a	STD2	D						
2	Stinger	3	L	4	fl oz/a	STD2	D						
2	Activator 90		L	0.25	% v/v	STD2	D						
3	ACH 963 - Conv							99	88	23	86	99	81
3	Betamix	1.3	L	3	pt/a	STD1	B						
3	Upbeet	50	WG	0.5	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	WG	0.5	oz/a	STD2	D						
3	Activator 90		L	0.25	% v/v	STD2	D						
4	ACH 963 - Conv							0	0	0	0	0	0
4	Untreated												
5	H9042 - RR							99	93	8	95	99	89
5	Nortron	4	L	3	pt/a	PRE	A						
5	Betamix	1.3	L	2	pt/a	STD1	B						
5	Upbeet	50	WG	0.5	oz/a	STD1	B						
5	Stinger	3	L	4	fl oz/a	STD1	B						
5	Activator 90		L	0.25	% v/v	STD1	B						
5	Betamix	1.3	L	3	pt/a	STD2	D						
5	Upbeet	50	WG	0.5	oz/a	STD2	D						
5	Stinger	3	L	4	fl oz/a	STD2	D						
5	Activator 90		L	0.25	% v/v	STD2	D						
6	H9042 - RR							99	87	9	87	95	67
6	Betamix	1.3	L	2	pt/a	STD1	B						
6	Upbeet	50	WG	0.5	oz/a	STD1	B						
6	Stinger	3	L	4	fl oz/a	STD1	B						
6	Activator 90		L	0.25	% v/v	STD1	B						
6	Betamix	1.3	L	3	pt/a	STD2	D						
6	Upbeet	50	WG	0.5	oz/a	STD2	D						
6	Stinger	3	L	4	fl oz/a	STD2	D						
6	Activator 90		L	0.25	% v/v	STD2	D						
7	H9042 - RR							99	95	9	96	99	97
7	Nortron	4	L	3	pt/a	PRE	A						
7	Roundup PowerMax	4.5	SL	22	fl oz/a	4lf beet	E						
7	AMS		WG	17	lb/100 gal	4lf beet	E						

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Weed Code	AMAPO	POLPY	BETVU	CHEAL	AMAPO	POLPY
Crop Code						
Rating Data Type	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Rating Date	6/14/2011	6/14/2011	6/25/2011	6/25/2011	6/25/2011	6/25/2011
Trt-Eval Interval	41 DA-A	41 DA-A	52 DA-A	52 DA-A	52 DA-A	52 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	AMAPO	POLPY	BETVU	CHEAL	AMAPO	POLPY
8	H9042 - RR							0	0	0	0	0	0
8	Untreated												
9	H9042 - RR							99	80	0	87	78	95
9	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
9	AMS		WG	17	lb/100 gal	2" weeds	C						
9	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
9	AMS		WG	17	lb/100 gal	+4" weed	F						
10	H9042 - RR							99	88	0	90	79	96
10	Roundup PowerMax	4.5	SL	33	fl oz/a	2" weeds	C						
10	AMS		WG	17	lb/100 gal	2" weeds	C						
10	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
10	AMS		WG	17	lb/100 gal	+4" weed	F						
11	H9042 - RR							99	93	0	90	85	95
11	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
11	AMS		WG	17	lb/100 gal	2" weeds	C						
11	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
11	Upbeet	50	WG	1	oz/a	+4" weed	F						
11	AMS		WG	17	lb/100 gal	+4" weed	F						
12	H9042 - RR							98	97	0	92	84	93
12	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
12	AMS		WG	17	lb/100 gal	2" weeds	C						
12	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
12	Stinger	3	L	4	fl oz/a	+4" weed	F						
12	AMS		WG	17	lb/100 gal	+4" weed	F						
13	H9042 - RR							94	87	0	86	77	96
13	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
13	AMS		WG	17	lb/100 gal	2" weeds	C						
13	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
13	Outlook	6	L	16	fl oz/a	+4" weed	F						
13	AMS		WG	17	lb/100 gal	+4" weed	F						
14	H9042 - RR							99	83	0	92	83	86
14	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
14	AMS		WG	17	lb/100 gal	2" weeds	C						
14	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
14	Warrant	3	L	3	pt/a	+4" weed	F						
14	AMS		WG	17	lb/100 gal	+4" weed	F						
15	H9042 - RR							99	94	0	97	86	97
15	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
15	AMS		WG	17	lb/100 gal	2" weeds	C						
15	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	F						
15	Dual Magnum	7.62	L	1.33	pt/a	+4" weed	F						
15	AMS		WG	17	lb/100 gal	+4" weed	F						
16	H9042 - RR							99	94	0	91	85	94
16	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	C						
16	AMS		WG	17	lb/100 gal	2" weeds	C						
16	Sequence	5.25	L	3	pt/a	+4" weed	F						
16	AMS		WG	17	lb/100 gal	+4" weed	F						

LSD (P=.05)	2.3	9.3	3.4	9.5	6.8	8.5
Standard Deviation	1.6	6.5	2.4	6.6	4.7	6.0
CV	1.88	8.3	45.94	8.3	6.07	7.65

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Weed Code								CHEAL	AMAPO	POLPY	BETVU	BETVU	
Crop Code								control	control	control	count	% sugar	
Rating Data Type								injury	percent	percent	100' row		
Rating Unit								percent	percent	percent	count	% sugar	
Rating Date								9/12/2011	9/12/2011	9/12/2011	9/15/2011	9/15/2011	
Trt-Eval Interval								131 DA-A	131 DA-A	131 DA-A	134 DA-A	134 DA-A	
# Subsamples, Dec.								0	0	0	0	1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	ACH 963 - Conv							0	98	99	84	163	18.2
1	Nortron	4	L	3	pt/a	PRE	A						
1	Betamix	1.3	L	2	pt/a	STD1	B						
1	Upbeet	50	WG	0.5	oz/a	STD1	B						
1	Stinger	3	L	4	fl oz/a	STD1	B						
1	Activator 90		L	0.25	% v/v	STD1	B						
1	Betamix	1.3	L	3	pt/a	STD2	D						
1	Upbeet	50	WG	0.5	oz/a	STD2	D						
1	Stinger	3	L	4	fl oz/a	STD2	D						
1	Activator 90		L	0.25	% v/v	STD2	D						
2	ACH 963 - Conv							0	86	93	70	178	18.3
2	Betamix	1.3	L	2	pt/a	STD1	B						
2	Upbeet	50	WG	0.5	oz/a	STD1	B						
2	Stinger	3	L	4	fl oz/a	STD1	B						
2	Activator 90		L	0.25	% v/v	STD1	B						
2	Betamix	1.3	L	3	pt/a	STD2	D						
2	Upbeet	50	WG	0.5	oz/a	STD2	D						
2	Stinger	3	L	4	fl oz/a	STD2	D						
2	Activator 90		L	0.25	% v/v	STD2	D						
3	ACH 963 - Conv							0	71	81	71	159	17.6
3	Betamix	1.3	L	3	pt/a	STD1	B						
3	Upbeet	50	WG	0.5	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	WG	0.5	oz/a	STD2	D						
3	Activator 90		L	0.25	% v/v	STD2	D						
4	ACH 963 - Conv							0	0	0	0	143	18.3
4	Untreated												
5	H9042 - RR							0	98	97	90	207	19.1
5	Nortron	4	L	3	pt/a	PRE	A						
5	Betamix	1.3	L	2	pt/a	STD1	B						
5	Upbeet	50	WG	0.5	oz/a	STD1	B						
5	Stinger	3	L	4	fl oz/a	STD1	B						
5	Activator 90		L	0.25	% v/v	STD1	B						
5	Betamix	1.3	L	3	pt/a	STD2	D						
5	Upbeet	50	WG	0.5	oz/a	STD2	D						
5	Stinger	3	L	4	fl oz/a	STD2	D						
5	Activator 90		L	0.25	% v/v	STD2	D						
6	H9042 - RR							0	96	99	78	235	19.5
6	Betamix	1.3	L	2	pt/a	STD1	B						
6	Upbeet	50	WG	0.5	oz/a	STD1	B						
6	Stinger	3	L	4	fl oz/a	STD1	B						
6	Activator 90		L	0.25	% v/v	STD1	B						
6	Betamix	1.3	L	3	pt/a	STD2	D						
6	Upbeet	50	WG	0.5	oz/a	STD2	D						
6	Stinger	3	L	4	fl oz/a	STD2	D						
6	Activator 90		L	0.25	% v/v	STD2	D						
7	H9042 - RR							0	97	99	99	220	19.6
7	Nortron	4	L	3	pt/a	PRE	A						
7	Roundup PowerMax	4.5	SL	22	fl oz/a	4lf beet	E						
7	AMS		WG	17	lb/100 gal	4lf beet	E						

MSU Weed Science Research Program

Comparison of Roundup Ready and conventional systems in sugarbeet

Trial ID: SB01-11 Study Dir.: Sprague, Powell
Conducted: SVREC Investigator: Christy Sprague

Table with columns: Weed Code, Crop Code, Rating Data Type, Rating Unit, Rating Date, Trt-Eval Interval, # Subsamples, Dec., CHEAL, AMAPO, POLPY, BETVU injury percent, BETVU control percent, BETVU count 100' row, BETVU % sugar.

Main data table with columns: Trt No., Treatment Name, Form Conc, Form Type, Rate, Rate Unit, Grow Stg, Appl Code, CHEAL, AMAPO, POLPY, BETVU injury percent, BETVU control percent, BETVU count 100' row, BETVU % sugar.

Summary statistics table with columns: LSD (P=.05), Standard Deviation, CV, CHEAL, AMAPO, POLPY, BETVU count 100' row, BETVU % sugar.

MSU Weed Science Research Program

Comparison of Roundup Ready and conventional systems in sugarbeet

Trial ID: SB01-11
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 yield ton/acre	BETVU RWST # / ton	BETVU RWSA # / acre
9/15/2011 134 DA-A 1	9/15/2011 134 DA-A 0	9/15/2011 134 DA-A 0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
1	ACH 963 - Conv							14.1	260	3646
1	Nortron	4	L	3	pt/a	PRE	A			
1	Betamix	1.3	L	2	pt/a	STD1	B			
1	Upbeet	50	WG	0.5	oz/a	STD1	B			
1	Stinger	3	L	4	fl oz/a	STD1	B			
1	Activator 90		L	0.25	% v/v	STD1	B			
1	Betamix	1.3	L	3	pt/a	STD2	D			
1	Upbeet	50	WG	0.5	oz/a	STD2	D			
1	Stinger	3	L	4	fl oz/a	STD2	D			
1	Activator 90		L	0.25	% v/v	STD2	D			
2	ACH 963 - Conv							13.3	264	3534
2	Betamix	1.3	L	2	pt/a	STD1	B			
2	Upbeet	50	WG	0.5	oz/a	STD1	B			
2	Stinger	3	L	4	fl oz/a	STD1	B			
2	Activator 90		L	0.25	% v/v	STD1	B			
2	Betamix	1.3	L	3	pt/a	STD2	D			
2	Upbeet	50	WG	0.5	oz/a	STD2	D			
2	Stinger	3	L	4	fl oz/a	STD2	D			
2	Activator 90		L	0.25	% v/v	STD2	D			
3	ACH 963 - Conv							11.8	253	2981
3	Betamix	1.3	L	3	pt/a	STD1	B			
3	Upbeet	50	WG	0.5	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	WG	0.5	oz/a	STD2	D			
3	Activator 90		L	0.25	% v/v	STD2	D			
4	ACH 963 - Conv							8.1	265	2154
4	Untreated									
5	H9042 - RR							18.8	272	5113
5	Nortron	4	L	3	pt/a	PRE	A			
5	Betamix	1.3	L	2	pt/a	STD1	B			
5	Upbeet	50	WG	0.5	oz/a	STD1	B			
5	Stinger	3	L	4	fl oz/a	STD1	B			
5	Activator 90		L	0.25	% v/v	STD1	B			
5	Betamix	1.3	L	3	pt/a	STD2	D			
5	Upbeet	50	WG	0.5	oz/a	STD2	D			
5	Stinger	3	L	4	fl oz/a	STD2	D			
5	Activator 90		L	0.25	% v/v	STD2	D			
6	H9042 - RR							20.8	285	5985
6	Betamix	1.3	L	2	pt/a	STD1	B			
6	Upbeet	50	WG	0.5	oz/a	STD1	B			
6	Stinger	3	L	4	fl oz/a	STD1	B			
6	Activator 90		L	0.25	% v/v	STD1	B			
6	Betamix	1.3	L	3	pt/a	STD2	D			
6	Upbeet	50	WG	0.5	oz/a	STD2	D			
6	Stinger	3	L	4	fl oz/a	STD2	D			
6	Activator 90		L	0.25	% v/v	STD2	D			
7	H9042 - RR							21.5	286	6150
7	Nortron	4	L	3	pt/a	PRE	A			
7	Roundup PowerMax	4.5	SL	22	fl oz/a	4lf beet	E			
7	AMS		WG	17	lb/100 gal	4lf beet	E			

MSU Weed Science Research Program

Comparison of Roundup Ready and conventional systems in sugarbeet

Trial ID: SB01-11 Study Dir.: Sprague, Powell
Conducted: SVREC Investigator: Christy Sprague

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval
Subsamples, Dec.
BETVU yield ton/acre 9/15/2011 134 DA-A 1
BETVU RWST # / ton 9/15/2011 134 DA-A 0
BETVU RWSA # / acre 9/15/2011 134 DA-A 0

Table with columns: Trt No., Treatment Name, Form Conc, Form Type, Rate, Rate Unit, Grow Stg, Appl Code, and yield values (12.2, 21.0, 22.7, 21.7, 20.5, 20.8, 21.3, 21.2, 20.7).

LSD (P=.05) 4.03 13.0 1133.4
Standard Deviation 2.82 9.1 793.1
CV 15.52 3.28 15.63