

MSU Weed Science Research Program
Weed Control Systems in Narrow-Row Roundup Ready Sugarbeets

Trial ID: SB02-07BB
Conducted: Bean & Beet

Study Dir.: Armstrong, Powell, Sprague
Investigator: Christy Sprague

Date Planted: 4/20/07	Row Spacing: IN
Variety: Hilleshog 9028	No. of Reps: 4
Population:	% OM: 3.9
Soil Type: Silty Clay	pH: 7.4
Plot Size: 15 X 30 FT	Design: RANDOMIZED COMPLETE BLOCK

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	AMBEL	RAGWEED, COMMON	AMBROSIA ELATIOR L.
4.	AMARE	PIGWEEED, REDROOT	AMARANTHUS RETROFLEXUS L.
5.	POLCO	BUCKWHEAT, WILD	POLYGONUM CONVULVULUS L.
6.	SOLPT	NIGHTSHADE, EASTERN BLACK	SOLANUM PTYCANTHUM DUNAL
Crop	Code	Common Name	
1.	BETVU	BEET, SUGAR	

Application Description

	A	B	C	D	E	F
Application Timing:	Micro 1	Micro 2	2" Weeds	Micro 3	4-6" Weed	2"+4" wds
Date Treated:	4/30/07	5/10/07	5/18/07	5/22/07	5/30/07	6/12/07
Time Treated:	6:30pm	7:00pm	2:30pm	11:00am	10:30am	10:30am
% Cloud Cover:	60	30	10	0	45	0
Air Temp., Unit:	68 F	78 F	68 F	75 F	81 F	77 F
% Relative Humidity:	25	34	20	40	47	43
Wind Speed/Unit/Dir:	4 mph S	4 mph SW	5 mph SW	0 mph	4 mph S	5 mph SW
Soil Temp., Unit:	69 F	73 F	58 F	70 F	72 F	69 F
Soil/Leaf Surface M:	5 5	5 5	5 5	5 5	5 5	5 5
Soil Moist (1=w 5=d):	5	4	5	4	5	5

Crop Stage at Each Application

	A	B	C	D	E	F
Crop Name:	BETVU	BETVU	BETVU	BETVU	BETVU	BETVU
Height (In.):	1/4"	1/2-1"	3/4-2"	1-2"	3-5"	8-12"
Stage (L):	coty	coty-2	2	2-4	4-8	12

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Weed Stage at Each Application

	A	B	C	D	E	F
Weed 1 Name:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Height (In.):	1/4'	-	-	-	-	-
Stage (L):	coty	-	-	-	-	-
Weed 2 Name:	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
Height (In.):	1/8-1/4"	1/2-1.25"	1/2-2.5"	1/2-1"	1-8"	4"
Stage (L):	coty	coty-4	2-10	2-8	4-many	12
Weed 3 Name:	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Height (In.):	1/8"	1/4-1/2"	-	-	-	-
Stage (L):	coty	coty-2	-	-	-	-
Weed 4 Name:	AMARE	AMARE	AMARE	AMARE	AMARE	AMARE
Height (In.):			1/4-1/2"	-	1-3	4"
Stage (L):			2-4	-	4-10	12
Weed 5 Name:	POLCO	POLCO	POLCO	POLCO	POLCO	POLCO
Height (In.):					1-4	2"
Stage (L):					many	6
Weed 6 Name:	SOLPT	SOLPT	SOLPT	SOLPT	SOLPT	SOLPT
Height (In.):					1-2	-
Stage (L):					4-6	-

Weed Density (plants/sq. ft.)

	1	2	3	4	5	6	7	8
Date:	7/12/07	7/12/07	7/12/07	7/12/07	7/12/07	7/12/07	7/12/07	7/12/07
Weed Name:	CHEAL	THLAR	AMAPO	ABUTH	AMBEL	AMARE	POLCO	SOLPT
Density:	12	<1	<1	<1	<1	<1	1	<1
	9							
Date:	7/12/07							
Weed Name:	ANGR							
Density:	<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	21"	20	100	19	water	27
B	Cub	3.8	AirMix	11003	21"	20	100	19	water	27
C	Cub	3.8	AirMix	11003	22"	20	100	19	water	27
D	Cub	3.8	AirMix	11003	22"	20	100	19	water	27
E	Cub	3.8	AirMix	11003	25'	20	100	19	water	27
F	Cub	3.8	AirMix	11003	25"	20	100	19	water	27

Comments: Planting populations-15" = 6" seed spacing, 20" = 4" spacing, 30" = 6" spacing
 Thinned to stand

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								CHEAL	AMAPO	THLAR	CHEAL	
								BETVU				
								injury	control	control	control	control
								percent	percent	percent	percent	percent
								6/6/07	6/6/07	6/6/07	6/6/07	7/5/07
								37 DA-A	37 DA-A	37 DA-A	37 DA-A	66 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	15" rows							0	88	99	99	99
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C					
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F					
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F					
2	15" rows							0	88	98	99	99
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C					
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F					
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	H					
	Ammonium sulfate		WG	17	lb/100 gal	Scout	H					
3	15" rows							6	75	96	90	99
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E					
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	G					
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	G					
4	15" rows							9	76	96	90	97
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E					
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E					
5	20" rows							0	85	95	99	99
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C					
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F					
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F					
6	20" rows							0	85	94	99	99
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C					
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F					
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	H					
	Ammonium sulfate		WG	17	lb/100 gal	Scout	H					
7	20" rows							6	76	98	91	98
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E					
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	G					
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	G					
8	20" rows							6	76	98	89	99
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E					
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E					
9	30" rows							0	83	89	99	99
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C					
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F					
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F					
10	30" rows							0	85	92	99	99
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C					
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F					
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	H					
	Ammonium sulfate		WG	17	lb/100 gal	Scout	H					

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								CHEAL	AMAPO	THLAR	CHEAL	
								BETVU				
								injury	control	control	control	control
								percent	percent	percent	percent	percent
								6/6/07	6/6/07	6/6/07	6/6/07	7/5/07
								37 DA-A	37 DA-A	37 DA-A	37 DA-A	66 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
19	20" rows Weed-Free							0	99	99	99	98
	Roundup WeatherMax	4.5	SL	22	fl oz/a	micro 2	B					
	Ammonium sulfate		WG	17	lb/100 gal	micro 2	B					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E					
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	F					
	Ammonium sulfate		WG	17	lb/100 gal	Scout	F					
20	20" rows							21	83	98	99	84
	Betamix	1.3	EC	8	fl oz/a	micro 1	A					
	Upbeet	50	DF	0.125	oz/a	micro 1	A					
	Stinger	3	L	1	fl oz/a	micro 1	A					
	MSO		L	1.5	% v/v	micro 1	A					
	Betamix	1.3	EC	8	fl oz/a	micro 2	B					
	Upbeet	50	DF	0.125	oz/a	micro 2	B					
	Stinger	3	L	1	fl oz/a	micro 2	B					
	MSO		L	1.5	% v/v	micro 2	B					
	Betamix	1.3	EC	8	fl oz/a	micro 3	D					
	Upbeet	50	DF	0.125	oz/a	micro 3	D					
	Stinger	3	L	1	fl oz/a	micro 3	D					
	MSO		L	1.5	% v/v	micro 3	D					
	Betamix	1.3	EC	8	fl oz/a	micro 4	E					
	Upbeet	50	DF	0.125	oz/a	micro 4	E					
	Stinger	3	L	1	fl oz/a	micro 4	E					
	MSO		L	1.5	% v/v	micro 4	E					
21	15" rows							7	76	97	95	99
	Roundup WeatherMax	4.5	SL	22	fl oz/a	6" weeds	E					
	Ammonium sulfate		WG	17	lb/100 gal	6" weeds	E					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	G					
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	G					
22	15" rows Untreated							0	0	0	0	0
23	15" rows Weed-Free							0	99	99	99	99
	Roundup WeatherMax	4.5	SL	22	fl oz/a	micro 2	B					
	Ammonium sulfate		WG	17	lb/100 gal	micro 2	B					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E					
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E					
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	F					
	Ammonium sulfate		WG	17	lb/100 gal	Scout	F					

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Weed Code		CHEAL	AMAPO	THLAR	CHEAL
Crop Code		BETVU			
Rating Data Type		injury	control	control	control
Rating Unit		percent	percent	percent	percent
Rating Date		6/6/07	6/6/07	6/6/07	7/5/07
Trt-Eval Interval		37 DA-A	37 DA-A	37 DA-A	66 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
24	15" rows							19	80	96	99	76
	Betamix	1.3	EC	8	fl oz/a	micro 1	A					
	Upbeet	50	DF	0.125	oz/a	micro 1	A					
	Stinger	3	L	1	fl oz/a	micro 1	A					
	MSO		L	1.5	% v/v	micro 1	A					
	Betamix	1.3	EC	8	fl oz/a	micro 2	B					
	Upbeet	50	DF	0.125	oz/a	micro 2	B					
	Stinger	3	L	1	fl oz/a	micro 2	B					
	MSO		L	1.5	% v/v	micro 2	B					
	Betamix	1.3	EC	8	fl oz/a	micro 3	D					
	Upbeet	50	DF	0.125	oz/a	micro 3	D					
	Stinger	3	L	1	fl oz/a	micro 3	D					
	MSO		L	1.5	% v/v	micro 3	D					
	Betamix	1.3	EC	8	fl oz/a	micro 4	E					
	Upbeet	50	DF	0.125	oz/a	micro 4	E					
	Stinger	3	L	1	fl oz/a	micro 4	E					
	MSO		L	1.5	% v/v	micro 4	E					
LSD (P=.05)								3.7	4.6	4.2	4.4	8.0
Standard Deviation								2.6	3.2	3.0	3.1	5.6
CV								53.85	4.43	3.53	3.73	6.77

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Weed Code	AMAPO	ANGR	BETVU	BETVU
Crop Code				
Rating Data Type	control	control	count	% sugar
Rating Unit	percent	percent	#/100'	
Rating Date	7/5/07	7/5/07	9/18/07	9/18/07
Trt-Eval Interval	66 DA-A	66 DA-A	141 DA-A	141 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMAPO	ANGR	BETVU	BETVU
1	15" rows							99	99	104	16.8
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C				
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F				
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F				
2	15" rows							99	99	104	16.9
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C				
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F				
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	H				
	Ammonium sulfate		WG	17	lb/100 gal	Scout	H				
3	15" rows							99	99	92	16.8
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E				
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	G				
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	G				
4	15" rows							99	99	111	16.5
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E				
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E				
5	20" rows							99	99	132	17.2
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C				
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F				
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F				
6	20" rows							99	99	129	17.1
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C				
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F				
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	H				
	Ammonium sulfate		WG	17	lb/100 gal	Scout	H				
7	20" rows							99	99	133	16.9
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E				
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	G				
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	G				
8	20" rows							99	99	132	17.0
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E				
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E				
9	30" rows							99	99	197	16.4
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C				
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F				
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F				
10	30" rows							99	99	193	15.9
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C				
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F				
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	H				
	Ammonium sulfate		WG	17	lb/100 gal	Scout	H				

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Weed Code								AMAPO	ANGR	BETVU	BETVU
Crop Code											
Rating Data Type								control	control	count	% sugar
Rating Unit								percent	percent	#/100'	
Rating Date								7/5/07	7/5/07	9/18/07	9/18/07
Trt-Eval Interval								66 DA-A	66 DA-A	141 DA-A	141 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
19	20" rows Weed-Free							99	99	123	17.3
	Roundup WeatherMax	4.5	SL	22	fl oz/a	micro 2	B				
	Ammonium sulfate		WG	17	lb/100 gal	micro 2	B				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E				
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	F				
	Ammonium sulfate		WG	17	lb/100 gal	Scout	F				
20	20" rows							92	96	130	17.1
	Betamix	1.3	EC	8	fl oz/a	micro 1	A				
	Upbeet	50	DF	0.125	oz/a	micro 1	A				
	Stinger	3	L	1	fl oz/a	micro 1	A				
	MSO		L	1.5	% v/v	micro 1	A				
	Betamix	1.3	EC	8	fl oz/a	micro 2	B				
	Upbeet	50	DF	0.125	oz/a	micro 2	B				
	Stinger	3	L	1	fl oz/a	micro 2	B				
	MSO		L	1.5	% v/v	micro 2	B				
	Betamix	1.3	EC	8	fl oz/a	micro 3	D				
	Upbeet	50	DF	0.125	oz/a	micro 3	D				
	Stinger	3	L	1	fl oz/a	micro 3	D				
	MSO		L	1.5	% v/v	micro 3	D				
	Betamix	1.3	EC	8	fl oz/a	micro 4	E				
	Upbeet	50	DF	0.125	oz/a	micro 4	E				
	Stinger	3	L	1	fl oz/a	micro 4	E				
	MSO		L	1.5	% v/v	micro 4	E				
21	15" rows							99	99	107	16.5
	Roundup WeatherMax	4.5	SL	22	fl oz/a	6" weeds	E				
	Ammonium sulfate		WG	17	lb/100 gal	6" weeds	E				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	G				
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	G				
22	15" rows Untreated							0	0	103	16.2
23	15" rows Weed-Free							99	99	86	16.5
	Roundup WeatherMax	4.5	SL	22	fl oz/a	micro 2	B				
	Ammonium sulfate		WG	17	lb/100 gal	micro 2	B				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E				
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E				
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	F				
	Ammonium sulfate		WG	17	lb/100 gal	Scout	F				

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Crop Code										count	% sugar
Rating Data Type								control	control	#/100'	
Rating Unit								percent	percent		
Rating Date								7/5/07	7/5/07	9/18/07	9/18/07
Trt-Eval Interval								66 DA-A	66 DA-A	141 DA-A	141 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code				
24	15" rows							87	96	106	16.9
	Betamix	1.3	EC	8	fl oz/a	micro 1	A				
	Upbeet	50	DF	0.125	oz/a	micro 1	A				
	Stinger	3	L	1	fl oz/a	micro 1	A				
	MSO		L	1.5	% v/v	micro 1	A				
	Betamix	1.3	EC	8	fl oz/a	micro 2	B				
	Upbeet	50	DF	0.125	oz/a	micro 2	B				
	Stinger	3	L	1	fl oz/a	micro 2	B				
	MSO		L	1.5	% v/v	micro 2	B				
	Betamix	1.3	EC	8	fl oz/a	micro 3	D				
	Upbeet	50	DF	0.125	oz/a	micro 3	D				
	Stinger	3	L	1	fl oz/a	micro 3	D				
	MSO		L	1.5	% v/v	micro 3	D				
	Betamix	1.3	EC	8	fl oz/a	micro 4	E				
	Upbeet	50	DF	0.125	oz/a	micro 4	E				
	Stinger	3	L	1	fl oz/a	micro 4	E				
	MSO		L	1.5	% v/v	micro 4	E				
LSD (P=.05)								7.4	2.4	21.7	0.63
Standard Deviation								5.3	1.7	15.4	0.45
CV								6.2	2.0	10.81	2.67

MSU Weed Science Research Program

Weed Control Systems in Narrow-Row Roundup Ready Sugarbeets

Trial ID: SB02-07BB
 Conducted: Bean & Beet

Study Dir.: Armstrong, Powell, Sprague
 Investigator: Christy Sprague

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

BETVU BETVU BETVU
 yield RWST RWSA
 ton/acre #/ton ton/acre
 9/18/07 9/18/07 9/18/07
 141 DA-A 141 DA-A 141 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
1	15" rows							29.1	241.0	3.54
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C			
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F			
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F			
2	15" rows							30.5	245.2	3.73
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C			
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F			
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	H			
	Ammonium sulfate		WG	17	lb/100 gal	Scout	H			
3	15" rows							28.3	245.3	3.48
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E			
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	G			
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	G			
4	15" rows							28.8	240.5	3.45
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E			
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E			
5	20" rows							34.1	251.6	4.29
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C			
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F			
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F			
6	20" rows							35.9	250.7	4.50
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C			
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F			
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	H			
	Ammonium sulfate		WG	17	lb/100 gal	Scout	H			
7	20" rows							32.5	249.2	4.04
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E			
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	G			
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	G			
8	20" rows							35.8	249.8	4.47
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E			
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E			
9	30" rows							29.7	236.5	3.51
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C			
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F			
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F			
10	30" rows							28.7	229.9	3.29
	Roundup WeatherMax	4.5	SL	22	fl oz/a	2" weeds	C			
	Ammonium sulfate		WG	17	lb/100 gal	2" weeds	C			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	F			
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	F			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	H			
	Ammonium sulfate		WG	17	lb/100 gal	Scout	H			

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Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

BETVU yield ton/acre 9/18/07 141 DA-A
 BETVU RWST #/ton 9/18/07 141 DA-A
 BETVU RWSA ton/acre 9/18/07 141 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	BETVU yield ton/acre	BETVU RWST #/ton	BETVU RWSA ton/acre
19	20" rows Weed-Free							30.6	252.1	3.86
	Roundup WeatherMax	4.5	SL	22	fl oz/a	micro 2	B			
	Ammonium sulfate		WG	17	lb/100 gal	micro 2	B			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E			
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	F			
	Ammonium sulfate		WG	17	lb/100 gal	Scout	F			
20	20" rows							31.1	253.0	3.94
	Betamix	1.3	EC	8	fl oz/a	micro 1	A			
	Upbeet	50	DF	0.125	oz/a	micro 1	A			
	Stinger	3	L	1	fl oz/a	micro 1	A			
	MSO		L	1.5	% v/v	micro 1	A			
	Betamix	1.3	EC	8	fl oz/a	micro 2	B			
	Upbeet	50	DF	0.125	oz/a	micro 2	B			
	Stinger	3	L	1	fl oz/a	micro 2	B			
	MSO		L	1.5	% v/v	micro 2	B			
	Betamix	1.3	EC	8	fl oz/a	micro 3	D			
	Upbeet	50	DF	0.125	oz/a	micro 3	D			
	Stinger	3	L	1	fl oz/a	micro 3	D			
	MSO		L	1.5	% v/v	micro 3	D			
	Betamix	1.3	EC	8	fl oz/a	micro 4	E			
	Upbeet	50	DF	0.125	oz/a	micro 4	E			
	Stinger	3	L	1	fl oz/a	micro 4	E			
	MSO		L	1.5	% v/v	micro 4	E			
21	15" rows							32.5	244.4	3.99
	Roundup WeatherMax	4.5	SL	22	fl oz/a	6" weeds	E			
	Ammonium sulfate		WG	17	lb/100 gal	6" weeds	E			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	+ 4" wds	G			
	Ammonium sulfate		WG	17	lb/100 gal	+ 4" wds	G			
22	15" rows Untreated							6.2	241.0	1.34
23	15" rows Weed-Free							28.7	242.0	3.48
	Roundup WeatherMax	4.5	SL	22	fl oz/a	micro 2	B			
	Ammonium sulfate		WG	17	lb/100 gal	micro 2	B			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	4" weeds	E			
	Ammonium sulfate		WG	17	lb/100 gal	4" weeds	E			
	Roundup WeatherMax	4.5	SL	22	fl oz/a	Scout	F			
	Ammonium sulfate		WG	17	lb/100 gal	Scout	F			

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Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

BETVU BETVU BETVU
 yield RWST RWSA
 ton/acre #/ton ton/acre
 9/18/07 9/18/07 9/18/07
 141 DA-A 141 DA-A 141 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
24	15" rows							29.7	245.1	3.64
	Betamix	1.3	EC	8	fl oz/a	micro 1	A			
	Upbeet	50	DF	0.125	oz/a	micro 1	A			
	Stinger	3	L	1	fl oz/a	micro 1	A			
	MSO		L	1.5	% v/v	micro 1	A			
	Betamix	1.3	EC	8	fl oz/a	micro 2	B			
	Upbeet	50	DF	0.125	oz/a	micro 2	B			
	Stinger	3	L	1	fl oz/a	micro 2	B			
	MSO		L	1.5	% v/v	micro 2	B			
	Betamix	1.3	EC	8	fl oz/a	micro 3	D			
	Upbeet	50	DF	0.125	oz/a	micro 3	D			
	Stinger	3	L	1	fl oz/a	micro 3	D			
	MSO		L	1.5	% v/v	micro 3	D			
	Betamix	1.3	EC	8	fl oz/a	micro 4	E			
	Upbeet	50	DF	0.125	oz/a	micro 4	E			
	Stinger	3	L	1	fl oz/a	micro 4	E			
	MSO		L	1.5	% v/v	micro 4	E			
LSD (P=.05)								6.03	11.79	0.793
Standard Deviation								4.26	8.33	0.561
CV								15.68	3.42	15.64