

MSU Weed Science Research Program

Weed Management after a Missed Micro-Rate Treatment

Trial ID: SB02-06BB Study Dir.: Sprague, Powell  
 Conducted: Saginaw Bean&Beet Investigator: Christy Sprague

Date Planted: 4/11/2006 Row Spacing: 30 IN  
 Variety: Crystal 993 No. of Reps: 4  
 Population: 4 3/8" seed spacing % OM: 3.3  
 Soil Type: Silty Clay pH: 7.8  
 Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel Plow. Spring Field Cultivate.  
 Fertilizer: Broadcast application of 125#/acre N on March 15,2006

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
2.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
3.	AMBEL	RAGWEED, COMMON	AMBROSIA ELATIOR L.
4.	POLPY	SMARTWEED, PENNSYLVANIA	POLYGONUM PENSYLVANICUM L.
5.	THLAR	PENNYCRESS, FIELD	THLASPI ARVENSE L.
Crop	Code	Common Name	
1.	BETVU	BEET, SUGAR	

Application Description

	A	B	C	D	E
Application Timing:	Micro 1	0.25" wds	0.5" wds	+ 3 days	Micro 3
Date Treated:	4/27/2006	5/17/2006	5/22/2006	5/25/2006	5/30/2006
Time Treated:	11:30 am	3:30 pm	1:15 pm	2:00 pm	2:00 pm
% Cloud Cover:	5	95	10	50	55
Air Temp., Unit:	52 F	77 F	53 F	82 F	90 F
% Relative Humidity:	36	50	25	61	40
Wind Speed/Unit/Dir:	9 mph NE	5 mph SW	9 mph NW	6 mph S	6 mph S
Soil Temp., Unit:	51 F	64 F	54 F	66 F	81 F
Soil/Leaf Surface M:	5 -	5 5	5 5	3 5	5 5
Soil Moist (1=w 5=d):	4	1	3	5	5
	<b>F</b>				
Application Timing:	Micro 4				
Date Treated:	6/8/2006				
Time Treated:	12:00 pm				
% Cloud Cover:	10				
Air Temp., Unit:	83 F				
% Relative Humidity:	21				
Wind Speed/Unit/Dir:	2 mph NE				
Soil Temp., Unit:	70 F				
Soil/Leaf Surface M:	5 5				
Soil Moist (1=w 5=d):	4				

Crop Stage at Each Application

	A	B	C	D	E
Crop Name:	BETVU	BETVU	BETVU	BETVU	BETVU
Height (In.):	1/8"-1/4"	1.5-3"	2-4"	2-4"	3-5"
Stage (L):	coty	1-4	2-6	2-6	4-8
	<b>F</b>				
Crop Name:	BETVU				
Height (In.):	7-12"				
Stage (L):	8-12				

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Weed Stage at Each Application

	A	B	C	D	E
<b>Weed 1 Name:</b>	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
<b>Height (In.):</b>	1/8"-1/4"	1/2"-3"	1/2"-4"	1/2"-2"	1/2"-3"
<b>Stage (L):</b>	coty-2	4-14	6-14	6-14	4-many
<b>Weed 2 Name:</b>	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
<b>Height (In.):</b>	1/4"	1"-1 1/2"	1"-2"	-	-
<b>Stage (L):</b>	coty	1-4	1-4	-	-
<b>Weed 3 Name:</b>	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
<b>Height (In.):</b>	-	1 1/2"	1 1/2"-2"	-	-
<b>Stage (L):</b>	-	4	2-4	-	-
<b>Weed 4 Name:</b>	POLPY	POLPY	POLPY	POLPY	POLPY
<b>Height (In.):</b>	-	-	1"-2"	-	3/4"-3"
<b>Stage (L):</b>	-	-	1-2	-	4-many
<b>Weed 5 Name:</b>	THLAR	THLAR	THLAR	THLAR	THLAR
<b>Height (In.):</b>	-	-	-	-	1/2"-8"
<b>Stage (L):</b>	-	-	-	-	flowering

**F**

<b>Weed 1 Name:</b>	CHEAL
<b>Height (In.):</b>	-
<b>Stage (L):</b>	-
<b>Weed 2 Name:</b>	ABUTH
<b>Height (In.):</b>	-
<b>Stage (L):</b>	-
<b>Weed 3 Name:</b>	AMBEL
<b>Height (In.):</b>	-
<b>Stage (L):</b>	-
<b>Weed 4 Name:</b>	POLPY
<b>Height (In.):</b>	-
<b>Stage (L):</b>	-
<b>Weed 5 Name:</b>	THLAR
<b>Height (In.):</b>	-
<b>Stage (L):</b>	-

Weed Density (plants/sq. ft.)

	1	2	3	4
<b>Date:</b>	7/21/2006	7/21/2006	7/21/2006	7/21/2006
<b>Weed Name:</b>	CHEAL	POLPY	AMARE	AMBEL
<b>Density:</b>	2	<1	<1	<1

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	18"	20"	100"	19	H2O	27	
B	Cub	3.8	AirMix 11003	20"	20"	100"	19	H2O	27	
C	Cub	3.8	AirMix 11003	20"	20"	100"	19	H2O	27	
D	Cub	3.8	AirMiw 11003	20"	20"	100"	19	H2O	27	
E	Cub	3.8	AirMix 11003	22"	20"	100"	19	H2O	27	
F	Cub	3.8	AirMix 11003	22"	20"	120"	19	water	27	

**Comments:** Previous Crop: Soybeans. Previous Herbicide: Roundup.

June 12- 3.5 oz/acre Amistar applied  
 July 7- 0.5 oz/acre Topsin applied  
 July 19- 9.2 oz/acre Headline applied  
 July 31- 13 oz/acre Emminent applied  
 August 15- 9.2 oz/acre Headline applied









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Weed Code						CHEAL		CHEAL		CHEAL		BETVU		
Crop Code						BETVU	CHEAL	BETVU	CHEAL	BETVU	CHEAL	BETVU	BETVU	
Rating Data Type						injury	control	injury	control	injury	control	stand count	% sugar	
Rating Unit						percent	percent	percent	percent	percent	percent	100' row		
Rating Date						5/30/2006	5/30/2006	6/8/2006	6/8/2006	6/15/2006	6/15/2006	9/18/2006	9/18/2006	
Trt-Eval Interval						33 DA-A	33 DA-A	42 DA-A	42 DA-A	49 DA-A	49 DA-A	144 DA-A	144 DA-A	
Trt No.	Treatment Name	Form Conc	Rate	Grow Unit	Stg	Appl Code								
14	Betamix	1.3	8	fl oz/a	micro 1	A	16	74	8	78	9	73	155	17.2
14	Upbeet	50	0.125	oz/a	micro 1	A								
14	Stinger	3	1	fl oz/a	micro 1	A								
14	MSO		1.5	% v/v	micro 1	A								
14	Betamix	1.3	16	fl oz/a	1/2" wd	C								
14	Upbeet	50	0.125	oz/a	1/2" wd	C								
14	Stinger	3	2	fl oz/a	1/2" wd	C								
14	MSO		1.5	% v/v	1/2" wd	C								
14	Betamix	1.3	8	fl oz/a	micro 3	E								
14	Upbeet	50	0.125	oz/a	micro 3	E								
14	Stinger	3	1	fl oz/a	micro 3	E								
14	MSO		1.5	% v/v	micro 3	E								
14	Betamix	1.3	8	fl oz/a	micro 4	F								
14	Upbeet	50	0.125	oz/a	micro 4	F								
14	Stinger	3	1	fl oz/a	micro 4	F								
14	MSO		1.5	% v/v	micro 4	F								
15	Betamix	1.3	8	fl oz/a	micro 1	A	16	86	6	93	4	91	152	17.4
15	Upbeet	50	0.125	oz/a	micro 1	A								
15	Stinger	3	1	fl oz/a	micro 1	A								
15	MSO		1.5	% v/v	micro 1	A								
15	Betamix	1.3	8	fl oz/a	1/2" wd	C								
15	Upbeet	50	0.125	oz/a	1/2" wd	C								
15	Stinger	3	1	fl oz/a	1/2" wd	C								
15	MSO		1.5	% v/v	1/2" wd	C								
15	Betamix (150 GDD)	1.3	8	fl oz/a	+3 d	D								
15	Upbeet (150 GDD)	50	0.125	oz/a	+3 d	D								
15	Stinger (150 GDD)	3	1	fl oz/a	+3 d	D								
15	MSO (150 GDD)		1.5	% v/v	+3 d	D								
15	Betamix	1.3	8	fl oz/a	micro 3	E								
15	Upbeet	50	0.125	oz/a	micro 3	E								
15	Stinger	3	1	fl oz/a	micro 3	E								
15	MSO		1.5	% v/v	micro 3	E								
15	Betamix	1.3	8	fl oz/a	micro 4	F								
15	Upbeet	50	0.125	oz/a	micro 4	F								
15	Stinger	3	1	fl oz/a	micro 4	F								
15	MSO		1.5	% v/v	micro 4	F								
16	Betamix	1.3	8	fl oz/a	micro 1	A	16	86	8	93	6	93	162	17.3
16	Upbeet	50	0.125	oz/a	micro 1	A								
16	Stinger	3	1	fl oz/a	micro 1	A								
16	MSO		1.5	% v/v	micro 1	A								
16	Betamix	1.3	2	pt/a	1/2" wd	C								
16	Upbeet	50	0.5	oz/a	1/2" wd	C								
16	Stinger	3	4	fl oz/a	1/2" wd	C								
16	Activator 90		0.25	% v/v	1/2" wd	C								
16	Betamix	1.3	8	fl oz/a	micro 3	E								
16	Upbeet	50	0.125	oz/a	micro 3	E								
16	Stinger	3	1	fl oz/a	micro 3	E								
16	MSO		1.5	% v/v	micro 3	E								
16	Betamix	1.3	8	fl oz/a	micro 4	F								
16	Upbeet	50	0.125	oz/a	micro 4	F								
16	Stinger	3	1	fl oz/a	micro 4	F								
16	MSO		1.5	% v/v	micro 4	F								
LSD (P=.05)							6.0	10.0	6.9	9.3	6.2	10.0	111.2	0.89
Standard Deviation							4.2	7.0	4.8	6.5	4.3	7.0	77.8	0.63
CV							38.4	9.22	70.54	8.34	72.2	9.23	44.39	3.63

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Weed Code								
Crop Code						BETVU	BETVU	BETVU
Rating Data Type						yield	RWST	RWSA
Rating Unit						ton/acre	# / ton	# / acre
Rating Date						9/18/2006	9/18/2006	9/18/2006
Trt-Eval Interval						144 DA-A	144 DA-A	144 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Grow Unit	Stg	Appl Code			
1	Betamix	1.3	8	fl oz/a	micro 1	A	27.5	252.3	6935
1	Upbeet	50	0.125	oz/a	micro 1	A			
1	Stinger	3	1	fl oz/a	micro 1	A			
1	MSO		1.5	% v/v	micro 1	A			
1	Betamix	1.3	8	fl oz/a	1/4" wd	B			
1	Upbeet	50	0.125	oz/a	1/4" wd	B			
1	Stinger	3	1	fl oz/a	1/4" wd	B			
1	MSO		1.5	% v/v	1/4" wd	B			
1	Betamix	1.3	8	fl oz/a	micro 3	E			
1	Upbeet	50	0.125	oz/a	micro 3	E			
1	Stinger	3	1	fl oz/a	micro 3	E			
1	MSO		1.5	% v/v	micro 3	E			
1	Betamix	1.3	8	fl oz/a	micro 4	F			
1	Upbeet	50	0.125	oz/a	micro 4	F			
1	Stinger	3	1	fl oz/a	micro 4	F			
1	MSO		1.5	% v/v	micro 4	F			
2	Betamix	1.3	8	fl oz/a	micro 1	A	29.5	254.3	7508
2	Upbeet	50	0.125	oz/a	micro 1	A			
2	Stinger	3	1	fl oz/a	micro 1	A			
2	MSO		1.5	% v/v	micro 1	A			
2	Betamix	1.3	12	fl oz/a	1/4" wd	B			
2	Upbeet	50	0.125	oz/a	1/4" wd	B			
2	Stinger	3	1	fl oz/a	1/4" wd	B			
2	MSO		1.5	% v/v	1/4" wd	B			
2	Betamix	1.3	8	fl oz/a	micro 3	E			
2	Upbeet	50	0.125	oz/a	micro 3	E			
2	Stinger	3	1	fl oz/a	micro 3	E			
2	MSO		1.5	% v/v	micro 3	E			
2	Betamix	1.3	8	fl oz/a	micro 4	F			
2	Upbeet	50	0.125	oz/a	micro 4	F			
2	Stinger	3	1	fl oz/a	micro 4	F			
2	MSO		1.5	% v/v	micro 4	F			
3	Betamix	1.3	8	fl oz/a	micro 1	A	26.7	256.1	6860
3	Upbeet	50	0.125	oz/a	micro 1	A			
3	Stinger	3	1	fl oz/a	micro 1	A			
3	MSO		1.5	% v/v	micro 1	A			
3	Betamix	1.3	8	fl oz/a	1/4" wd	B			
3	Nortron	4	2	fl oz/a	1/4" wd	B			
3	Upbeet	50	0.125	oz/a	1/4" wd	B			
3	Stinger	3	1	fl oz/a	1/4" wd	B			
3	MSO		1.5	% v/v	1/4" wd	B			
3	Betamix	1.3	8	fl oz/a	micro 3	E			
3	Upbeet	50	0.125	oz/a	micro 3	E			
3	Stinger	3	1	fl oz/a	micro 3	E			
3	MSO		1.5	% v/v	micro 3	E			
3	Betamix	1.3	8	fl oz/a	micro 4	F			
3	Upbeet	50	0.125	oz/a	micro 4	F			
3	Stinger	3	1	fl oz/a	micro 4	F			
3	MSO		1.5	% v/v	micro 4	F			



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Crop Code						BETVU	BETVU	BETVU
Rating Data Type						yield	RWST	RWSA
Rating Unit						ton/acre	# / ton	# / acre
Rating Date						9/18/2006	9/18/2006	9/18/2006
Trt-Eval Interval						144 DA-A	144 DA-A	144 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code			
4	Betamix	1.3	8	fl oz/a	micro 1	A	29.8	251.9	7485
4	Upbeet	50	0.125	oz/a	micro 1	A			
4	Stinger	3	1	fl oz/a	micro 1	A			
4	MSO		1.5	% v/v	micro 1	A			
4	Betamix	1.3	8	fl oz/a	1/4" wd	B			
4	Nortron	4	4	fl oz/a	1/4" wd	B			
4	Upbeet	50	0.125	oz/a	1/4" wd	B			
4	Stinger	3	1	fl oz/a	1/4" wd	B			
4	MSO		1.5	% v/v	1/4" wd	B			
4	Betamix	1.3	8	fl oz/a	micro 3	E			
4	Upbeet	50	0.125	oz/a	micro 3	E			
4	Stinger	3	1	fl oz/a	micro 3	E			
4	MSO		1.5	% v/v	micro 3	E			
4	Betamix	1.3	8	fl oz/a	micro 4	F			
4	Upbeet	50	0.125	oz/a	micro 4	F			
4	Stinger	3	1	fl oz/a	micro 4	F			
4	MSO		1.5	% v/v	micro 4	F			
5	Betamix	1.3	8	fl oz/a	micro 1	A	27.7	249.7	6910
5	Upbeet	50	0.125	oz/a	micro 1	A			
5	Stinger	3	1	fl oz/a	micro 1	A			
5	MSO		1.5	% v/v	micro 1	A			
5	Betamix	1.3	12	fl oz/a	1/4" wd	B			
5	Upbeet	50	0.125	oz/a	1/4" wd	B			
5	Stinger	3	2	fl oz/a	1/4" wd	B			
5	MSO		1.5	% v/v	1/4" wd	B			
5	Betamix	1.3	8	fl oz/a	micro 3	E			
5	Upbeet	50	0.125	oz/a	micro 3	E			
5	Stinger	3	1	fl oz/a	micro 3	E			
5	MSO		1.5	% v/v	micro 3	E			
5	Betamix	1.3	8	fl oz/a	micro 4	F			
5	Upbeet	50	0.125	oz/a	micro 4	F			
5	Stinger	3	1	fl oz/a	micro 4	F			
5	MSO		1.5	% v/v	micro 4	F			
6	Betamix	1.3	8	fl oz/a	micro 1	A	31.0	244.2	7566
6	Upbeet	50	0.125	oz/a	micro 1	A			
6	Stinger	3	1	fl oz/a	micro 1	A			
6	MSO		1.5	% v/v	micro 1	A			
6	Betamix	1.3	8	fl oz/a	1/4" wd	B			
6	Upbeet	50	0.125	oz/a	1/4" wd	B			
6	Stinger	3	1	fl oz/a	1/4" wd	B			
6	MSO		1.5	% v/v	1/4" wd	B			
6	Betamix (150 GDD)	1.3	8	fl oz/a	+5 d	C			
6	Upbeet (150 GDD)	50	0.125	oz/a	+5 d	C			
6	Stinger (150 GDD)	3	1	fl oz/a	+5 d	C			
6	MSO (150 GDD)		1.5	% v/v	+5 d	C			
6	Betamix	1.3	8	fl oz/a	micro 3	E			
6	Upbeet	50	0.125	oz/a	micro 3	E			
6	Stinger	3	1	fl oz/a	micro 3	E			
6	MSO		1.5	% v/v	micro 3	E			
6	Betamix	1.3	8	fl oz/a	micro 4	F			
6	Upbeet	50	0.125	oz/a	micro 4	F			
6	Stinger	3	1	fl oz/a	micro 4	F			
6	MSO		1.5	% v/v	micro 4	F			

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Rating Data Type						yield	RWST	RWSA
Rating Unit						ton/acre	# / ton	# / acre
Rating Date						9/18/2006	9/18/2006	9/18/2006
Trt-Eval Interval						144 DA-A	144 DA-A	144 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code	yield	# / ton	# / acre
7	Betamix	1.3	8	fl oz/a	micro 1	A	28.4	265.6	7543
7	Upbeet	50	0.125	oz/a	micro 1	A			
7	Stinger	3	1	fl oz/a	micro 1	A			
7	MSO		1.5	% v/v	micro 1	A			
7	Betamix	1.3	2	pt/a	1/4" wd	B			
7	Upbeet	50	0.5	oz/a	1/4" wd	B			
7	Stinger	3	4	fl oz/a	1/4" wd	B			
7	Activator 90		0.25	% v/v	1/4" wd	B			
7	Betamix	1.3	8	fl oz/a	micro 3	E			
7	Upbeet	50	0.125	oz/a	micro 3	E			
7	Stinger	3	1	fl oz/a	micro 3	E			
7	MSO		1.5	% v/v	micro 3	E			
7	Betamix	1.3	8	fl oz/a	micro 4	F			
7	Upbeet	50	0.125	oz/a	micro 4	F			
7	Stinger	3	1	fl oz/a	micro 4	F			
7	MSO		1.5	% v/v	micro 4	F			
8	Untreated						23.9	267.2	6398
9	Betamix	1.3	8	fl oz/a	micro 1	A	26.9	260.5	7011
9	Upbeet	50	0.125	oz/a	micro 1	A			
9	Stinger	3	1	fl oz/a	micro 1	A			
9	MSO		1.5	% v/v	micro 1	A			
9	Betamix	1.3	8	fl oz/a	1/2" wd	C			
9	Upbeet	50	0.125	oz/a	1/2" wd	C			
9	Stinger	3	1	fl oz/a	1/2" wd	C			
9	MSO		1.5	% v/v	1/2" wd	C			
9	Betamix	1.3	8	fl oz/a	micro 3	E			
9	Upbeet	50	0.125	oz/a	micro 3	E			
9	Stinger	3	1	fl oz/a	micro 3	E			
9	MSO		1.5	% v/v	micro 3	E			
9	Betamix	1.3	8	fl oz/a	micro 4	F			
9	Upbeet	50	0.125	oz/a	micro 4	F			
9	Stinger	3	1	fl oz/a	micro 4	F			
9	MSO		1.5	% v/v	micro 4	F			
10	Betamix	1.3	8	fl oz/a	micro 1	A	29.8	253.1	7537
10	Upbeet	50	0.125	oz/a	micro 1	A			
10	Stinger	3	1	fl oz/a	micro 1	A			
10	MSO		1.5	% v/v	micro 1	A			
10	Betamix	1.3	12	fl oz/a	1/2" wd	C			
10	Upbeet	50	0.125	oz/a	1/2" wd	C			
10	Stinger	3	1	fl oz/a	1/2" wd	C			
10	MSO		1.5	% v/v	1/2" wd	C			
10	Betamix	1.3	8	fl oz/a	micro 3	E			
10	Upbeet	50	0.125	oz/a	micro 3	E			
10	Stinger	3	1	fl oz/a	micro 3	E			
10	MSO		1.5	% v/v	micro 3	E			
10	Betamix	1.3	8	fl oz/a	micro 4	F			
10	Upbeet	50	0.125	oz/a	micro 4	F			
10	Stinger	3	1	fl oz/a	micro 4	F			
10	MSO		1.5	% v/v	micro 4	F			

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Weed Code								
Crop Code						BETVU	BETVU	BETVU
Rating Data Type						yield	RWST	RWSA
Rating Unit						ton/acre	# / ton	# / acre
Rating Date						9/18/2006	9/18/2006	9/18/2006
Trt-Eval Interval						144 DA-A	144 DA-A	144 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code	yield	# / ton	# / acre
11	Betamix	1.3	8	fl oz/a	micro 1	A	27.5	253.3	6981
11	Upbeet	50	0.125	oz/a	micro 1	A			
11	Stinger	3	1	fl oz/a	micro 1	A			
11	MSO		1.5	% v/v	micro 1	A			
11	Betamix	1.3	16	fl oz/a	1/2" wd	C			
11	Upbeet	50	0.125	oz/a	1/2" wd	C			
11	Stinger	3	1	fl oz/a	1/2" wd	C			
11	MSO		1.5	% v/v	1/2" wd	C			
11	Betamix	1.3	8	fl oz/a	micro 3	E			
11	Upbeet	50	0.125	oz/a	micro 3	E			
11	Stinger	3	1	fl oz/a	micro 3	E			
11	MSO		1.5	% v/v	micro 3	E			
11	Betamix	1.3	8	fl oz/a	micro 4	F			
11	Upbeet	50	0.125	oz/a	micro 4	F			
11	Stinger	3	1	fl oz/a	micro 4	F			
11	MSO		1.5	% v/v	micro 4	F			
12	Betamix	1.3	8	fl oz/a	micro 1	A	26.9	249.0	6662
12	Upbeet	50	0.125	oz/a	micro 1	A			
12	Stinger	3	1	fl oz/a	micro 1	A			
12	MSO		1.5	% v/v	micro 1	A			
12	Betamix	1.3	8	fl oz/a	1/2" wd	C			
12	Nortron	4	2	fl oz/a	1/2" wd	C			
12	Upbeet	50	0.125	oz/a	1/2" wd	C			
12	Stinger	3	1	fl oz/a	1/2" wd	C			
12	MSO		1.5	% v/v	1/2" wd	C			
12	Betamix	1.3	8	fl oz/a	micro 3	E			
12	Upbeet	50	0.125	oz/a	micro 3	E			
12	Stinger	3	1	fl oz/a	micro 3	E			
12	MSO		1.5	% v/v	micro 3	E			
12	Betamix	1.3	8	fl oz/a	micro 4	F			
12	Upbeet	50	0.125	oz/a	micro 4	F			
12	Stinger	3	1	fl oz/a	micro 4	F			
12	MSO		1.5	% v/v	micro 4	F			
13	Betamix	1.3	8	fl oz/a	micro 1	A	27.6	254.0	7017
13	Upbeet	50	0.125	oz/a	micro 1	A			
13	Stinger	3	1	fl oz/a	micro 1	A			
13	MSO		1.5	% v/v	micro 1	A			
13	Betamix	1.3	8	fl oz/a	1/2" wd	C			
13	Nortron	4	4	fl oz/a	1/2" wd	C			
13	Upbeet	50	0.125	oz/a	1/2" wd	C			
13	Stinger	3	1	fl oz/a	1/2" wd	C			
13	MSO		1.5	% v/v	1/2" wd	C			
13	Betamix	1.3	8	fl oz/a	micro 3	E			
13	Upbeet	50	0.125	oz/a	micro 3	E			
13	Stinger	3	1	fl oz/a	micro 3	E			
13	MSO		1.5	% v/v	micro 3	E			
13	Betamix	1.3	8	fl oz/a	micro 4	F			
13	Upbeet	50	0.125	oz/a	micro 4	F			
13	Stinger	3	1	fl oz/a	micro 4	F			
13	MSO		1.5	% v/v	micro 4	F			

MSU Weed Science Research Program

Weed Management after a Missed Micro-Rate Treatment

Trial ID: SB02-06BB Study Dir.: Sprague, Powell  
 Conducted: Saginaw Bean&Beet Investigator: Christy Sprague

Weed Code								
Crop Code						BETVU	BETVU	BETVU
Rating Data Type						yield	RWST	RWSA
Rating Unit						ton/acre	# / ton	# / acre
Rating Date						9/18/2006	9/18/2006	9/18/2006
Trt-Eval Interval						144 DA-A	144 DA-A	144 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code			
14	Betamix	1.3	8	fl oz/a	micro 1	A	28.9	253.7	7370
14	Upbeet	50	0.125	oz/a	micro 1	A			
14	Stinger	3	1	fl oz/a	micro 1	A			
14	MSO		1.5	% v/v	micro 1	A			
14	Betamix	1.3	16	fl oz/a	1/2" wd	C			
14	Upbeet	50	0.125	oz/a	1/2" wd	C			
14	Stinger	3	2	fl oz/a	1/2" wd	C			
14	MSO		1.5	% v/v	1/2" wd	C			
14	Betamix	1.3	8	fl oz/a	micro 3	E			
14	Upbeet	50	0.125	oz/a	micro 3	E			
14	Stinger	3	1	fl oz/a	micro 3	E			
14	MSO		1.5	% v/v	micro 3	E			
14	Betamix	1.3	8	fl oz/a	micro 4	F			
14	Upbeet	50	0.125	oz/a	micro 4	F			
14	Stinger	3	1	fl oz/a	micro 4	F			
14	MSO		1.5	% v/v	micro 4	F			
15	Betamix	1.3	8	fl oz/a	micro 1	A	28.2	258.6	7280
15	Upbeet	50	0.125	oz/a	micro 1	A			
15	Stinger	3	1	fl oz/a	micro 1	A			
15	MSO		1.5	% v/v	micro 1	A			
15	Betamix	1.3	8	fl oz/a	1/2" wd	C			
15	Upbeet	50	0.125	oz/a	1/2" wd	C			
15	Stinger	3	1	fl oz/a	1/2" wd	C			
15	MSO		1.5	% v/v	1/2" wd	C			
15	Betamix (150 GDD)	1.3	8	fl oz/a	+3 d	D			
15	Upbeet (150 GDD)	50	0.125	oz/a	+3 d	D			
15	Stinger (150 GDD)	3	1	fl oz/a	+3 d	D			
15	MSO (150 GDD)		1.5	% v/v	+3 d	D			
15	Betamix	1.3	8	fl oz/a	micro 3	E			
15	Upbeet	50	0.125	oz/a	micro 3	E			
15	Stinger	3	1	fl oz/a	micro 3	E			
15	MSO		1.5	% v/v	micro 3	E			
15	Betamix	1.3	8	fl oz/a	micro 4	F			
15	Upbeet	50	0.125	oz/a	micro 4	F			
15	Stinger	3	1	fl oz/a	micro 4	F			
15	MSO		1.5	% v/v	micro 4	F			
16	Betamix	1.3	8	fl oz/a	micro 1	A	30.1	254.4	7663
16	Upbeet	50	0.125	oz/a	micro 1	A			
16	Stinger	3	1	fl oz/a	micro 1	A			
16	MSO		1.5	% v/v	micro 1	A			
16	Betamix	1.3	2	pt/a	1/2" wd	C			
16	Upbeet	50	0.5	oz/a	1/2" wd	C			
16	Stinger	3	4	fl oz/a	1/2" wd	C			
16	Activator 90		0.25	% v/v	1/2" wd	C			
16	Betamix	1.3	8	fl oz/a	micro 3	E			
16	Upbeet	50	0.125	oz/a	micro 3	E			
16	Stinger	3	1	fl oz/a	micro 3	E			
16	MSO		1.5	% v/v	micro 3	E			
16	Betamix	1.3	8	fl oz/a	micro 4	F			
16	Upbeet	50	0.125	oz/a	micro 4	F			
16	Stinger	3	1	fl oz/a	micro 4	F			
16	MSO		1.5	% v/v	micro 4	F			
LSD (P=.05)							3.21	15.24	857.2
Standard Deviation							2.25	10.66	599.9
CV							7.98	4.18	8.37