

MSU Weed Science Research Program

Sugarbeet Variety Trial

Trial ID: SBvarBB Study Dir.: Bollman, Sprague, Powell
 Conducted: Saginaw Bean & Beet Investigator: Christy Sprague

Date Planted: 4/6/2006 **Row Spacing:** 30 IN
Variety: See Comments **No. of Reps:** 4
Population: 4 3/8" seed spacing **% OM:** 2.9
Soil Type: Clay **pH:** 7.9
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	Code	Common Name
1.	BETVU	SUGAR BEET

Application Description

	A	B	C
Application Timing:	PRE	2-Leaf	4-Leaf
Date Treated:	4/6/2006	5/9/2006	5/22/2006
Time Treated:	5:30 PM	3:00 PM	4:00 PM
% Cloud Cover:	80	75	10
Air Temp., Unit:	61 F	74 F	55 F
% Relative Humidity:	31	22	25
Wind Speed/Unit/Dir:	5 mph sw	11 mph s	8 mph nw
Soil Temp., Unit:	50 F	62 F	54 F
Soil/Leaf Surface M:	5 -	5 5	5 5
Soil Moist (1=w 5=d):	2	5	5

Crop Stage at Each Application

	A	B	C
Crop Name:	BETVU	BETVU	BETVU
Height (In.):	-	1-2 in	2-4
Stage (L):	-	2 L	4 L

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	19"	20"	120"	19	Water	27
B	Cub	3.8	AirMix	11003	20"	20"	120"	19	Water	27
C	Cub	3.8	AirMix	11003	20"	20"	120"	19	Water	27

Comments: April 7, 2006 - 0.75 in of rain for activation

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															
Crop Code															
Rating Data Type															
Rating Unit															
Rating Date															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code	BETVU Injury percent 5/30/2006 54 DA-A	BETVU Injury percent 6/5/2006 60 DA-A	BETVU Injury percent 6/15/2006 70 DA-A	BETVU Leaf Area CM2 6/5/2006 60 DA-A	BETVU Stand Count Left Row 6/6/2006 61 DA-A	BETVU Stand Count Right Ro 6/6/2006 61 DA-A	BETVU stand count 100' row 9/19/2006 166 DA-A	BETVU % sugar 9/19/2006 166 DA-A	
43	Dual Magnum C 271	7.64	1.33	pt/a	2-lf	B	13	13	5	1118	38	51	153	16.0	
44	Dual Magnum B 4381	7.64	1.33	pt/a	2-lf	B	19	11	7	919	37	39	132	15.6	
45	Dual Magnum 2763 RZ	7.64	1.33	pt/a	2-lf	B	15	10	3	943	44	53	159	16.4	
46	Dual Magnum Beta 5310	7.64	1.33	pt/a	2-lf	B	18	14	2	1003	42	38	129	16.2	
47	Dual Magnum 2761 RZ	7.64	1.33	pt/a	2-lf	B	21	10	3	705	41	36	135	16.8	
48	Dual Magnum Prompt	7.64	1.33	pt/a	2-lf	B	23	15	4	1115	47	43	153	17.4	
49	Outlook E-17	6	16	fl oz/a	2-lf	B	31	23	7	622	41	46	146	16.1	
50	Outlook 7172 RZ	6	16	fl oz/a	2-lf	B	24	34	5	412	53	40	154	16.9	
51	Outlook C 963	6	16	fl oz/a	2-lf	B	23	19	8	688	43	41	147	17.7	
52	Outlook 2771 RZ	6	16	fl oz/a	2-lf	B	25	33	18	728	53	48	156	16.1	
53	Outlook B 5833 R	6	16	fl oz/a	2-lf	B	26	23	8	699	42	40	137	16.6	
54	Outlook B 5451	6	16	fl oz/a	2-lf	B	31	34	8	570	45	34	117	17.1	
55	Outlook C 271	6	16	fl oz/a	2-lf	B	21	23	7	791	46	45	141	16.2	
56	Outlook B 4381	6	16	fl oz/a	2-lf	B	34	23	3	667	39	34	118	16.0	
57	Outlook 2763 RZ	6	16	fl oz/a	2-lf	B	26	18	2	563	46	45	148	16.9	
58	Outlook Beta 5310	6	16	fl oz/a	2-lf	B	24	15	2	970	43	45	135	15.6	
59	Outlook 2761 RZ	6	16	fl oz/a	2-lf	B	24	20	2	611	47	45	143	16.4	
60	Outlook Prompt	6	16	fl oz/a	2-lf	B	26	17	7	843	46	47	144	17.7	
61	Dual Magnum E-17	7.64	1.33	pt/a	4-lf	C	11	7	0	824	43	34	135	16.9	
62	Dual Magnum 7172 RZ	7.64	1.33	pt/a	4-lf	C	17	17	3	594	39	39	153	16.4	
63	Dual Magnum C 963	7.64	1.33	pt/a	4-lf	C	10	5	0	1046	32	44	116	16.5	

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Weed Code	BETVU	BETVU	BETVU	BETVU	BETVU	BETVU	BETVU	BETVU		
Crop Code										
Rating Data Type	Injury	Injury	Injury	Leaf Area	Stand Count	Stand Count	stand count	% sugar		
Rating Unit	percent	percent	percent	CM2	Left Row	Right Ro	100' row			
Rating Date	5/30/2006	6/5/2006	6/15/2006	6/5/2006	6/6/2006	6/6/2006	9/19/2006	9/19/2006		
Trt-Eval Interval	54 DA-A	60 DA-A	70 DA-A	60 DA-A	61 DA-A	61 DA-A	166 DA-A	166 DA-A		
Trt No.	Treatment Name	Form Conc	Rate	Grow Stg	Appl Code					
LSD (P=.05)			12.1	14.0	8.9	742.5	11.7	12.4	29.7	1.43
Standard Deviation			8.7	10.1	5.5	535.7	8.5	8.9	18.4	0.89
CV			35.49	48.83	76.26	60.42	20.29	23.0	14.02	5.36

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Weed Code									
Crop Code						BETVU	BETVU	BETVU	
Rating Data Type						yield	RWST	RWSA	
Rating Unit						ton/acre	# / ton	# / ton	
Rating Date						9/19/2006	9/19/2006	9/19/2006	
Trt-Eval Interval						166 DA-A	166 DA-A	166 DA-A	

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code			
64	Dual Magnum 2771 RZ	7.64	1.33	pt/a	4-lf	C	28.3	248	7033
65	Dual Magnum B 5833 R	7.64	1.33	pt/a	4-lf	C	27.5	232	6360
66	Dual Magnum B 5451	7.64	1.33	pt/a	4-lf	C	22.3	228	5086
67	Dual Magnum C 271	7.64	1.33	pt/a	4-lf	C	24.0	238	5712
68	Dual Magnum B 4381	7.64	1.33	pt/a	4-lf	C	25.6	240	6106
69	Dual Magnum 2763 RZ	7.64	1.33	pt/a	4-lf	C	27.4	242	6646
70	Dual Magnum Beta 5310	7.64	1.33	pt/a	4-lf	C	23.2	240	5536
71	Dual Magnum 2761 RZ	7.64	1.33	pt/a	4-lf	C	27.2	221	6070
72	Dual Magnum Prompt	7.64	1.33	pt/a	4-lf	C	18.5	249	4604
73	Outlook E-17	6	16	fl oz/a	4-lf	C	27.0	255	6892
74	Outlook 7172 RZ	6	16	fl oz/a	4-lf	C	18.9	234	4406
75	Outlook C 963	6	16	fl oz/a	4-lf	C	21.9	262	5726
76	Outlook 2771 RZ	6	16	fl oz/a	4-lf	C	25.0	246	6142
77	Outlook B 5833 R	6	16	fl oz/a	4-lf	C	27.5	228	6237
78	Outlook B 5451	6	16	fl oz/a	4-lf	C	21.9	252	5494
79	Outlook C 271	6	16	fl oz/a	4-lf	C	23.2	252	5818
80	Outlook B 4381	6	16	fl oz/a	4-lf	C	24.5	241	5907
81	Outlook 2763 RZ	6	16	fl oz/a	4-lf	C	22.9	245	5626
82	Outlook B 5310	6	16	fl oz/a	4-lf	C	21.7	234	5046
83	Outlook 2761 RZ	6	16	fl oz/a	4-lf	C	21.2	230	4898
84	Outlook Prompt	6	16	fl oz/a	4-lf	C	20.6	239	4916

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Rating Data Type	yield	RWST	RWSA
Rating Unit	ton/acre	# / ton	# / ton
Rating Date	9/19/2006	9/19/2006	9/19/2006
Trt-Eval Interval	166 DA-A	166 DA-A	166 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code
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LSD (P=.05)			4.45		24.6	1143.8
Standard Deviation			2.76		15.2	707.5
CV			11.75		6.31	12.56