

MSU Weed Science Research Program

Volunteer corn density effects on sugarbeet

Trial ID: SB05-13 Study Dir.: Harden, Sprague, Powell  
Conducted: SVREC Investigator: Christy Sprague

**Date Planted:** May/02/2013 **Row Spacing:** IN  
**Variety:** HM-173 RR **No. of Reps:** 4  
**Population:** 4" spacing **% OM:** 3.2  
**Soil Type:** Clay loam **pH:** 8.0  
**Plot Size:** 10 X 30 FT **Design:** RANDOMIZED COMPLETE BLOCK

**Tillage:** Previous crop wheat. Fall moldboard plow, spring field cultivate and soil finish

**Crop and Weed Description**

<b>Weed</b>	<b>Code</b>	<b>Common Name</b>	<b>Scientific Name</b>
1.	ZEAMX	CORN, VOLUNTEER	ZEA MAYS L.
<b>Crop</b>	<b>Code</b>	<b>Common Name</b>	
1.	BETVU	BEET, SUGAR	

**Crop Stage at Each Application**

**Crop Name:** A  
BETVU

**Weed Stage at Each Application**

**Weed 1 Name:** A  
ZEAMX

**Application Equipment**

**App1**

A

**Comments:** All treatments were kept weed-free with applications of Roundup PowerMax (22 fl oz/A) + AMS (17 lb/100 gal) - 6/3/13 & 7/10/13

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Weed Code					
Crop Code	BETVU	BETVU	BETVU	BETVU	BETVU
Rating Data Type	stand count	% sugar	yield	RWST	RWSA
Rating Unit	100' row		ton/acre	# / ton	# / acre
Rating Date	Sep/24/2013	Sep/25/2013	Sep/25/2013	Sep/25/2013	Sep/25/2013
Trt-Eval Interval					
# Subsamples, Dec.	0	1	1	0	0

Trt No.	Treatment Name	Rate Unit	stand count	% sugar	yield ton/acre	RWST # / ton	RWSA # / acre
1	30-inch rows 0 v. corn/plot	303	19.7	17.4	295	5123	
2	30-inch rows 3 v. corn/plot	306	19.6	17.8	294	5249	
3	30-inch rows 6 v. corn/plot	292	19.9	16.3	301	4913	
4	30-inch rows 12 v. corn/plot	260	19.9	13.8	299	4151	
5	15-inch rows 0 v. corn/plot	280	19.9	17.3	302	5221	
6	15-inch rows 3 v. corn/plot	281	19.7	18.2	297	5393	
7	15-inch rows 6 v. corn/plot	273	20.4	17.7	310	5484	
8	15-inch rows 12 v. corn/plot	264	20.3	16.5	308	5091	
9	15-inch rows 24 v. corn/plot	219	20.3	13.0	308	3999	
10	15-inch rows 48 v. corn/plot	208	20.0	12.0	301	3593	
11	15-inch rows 6 v. corn clumps/plot	273	20.5	17.5	309	5436	
12	15-inch rows 24 v. corn clumps/plot	217	20.3	12.5	310	3884	
13	30-inch rows 24 v. corn/plot	198	19.4	8.0	294	2350	
14	30-inch rows 48 v. corn/plot	220	19.9	10.8	299	3234	
15	30-inch rows 6 v. corn clumps/plot	295	19.9	16.0	298	4748	
16	30-inch rows 24 v. corn clumps/plot	210	19.8	8.3	300	2478	
LSD (P=.05)		52.9	1.15	4.10	18.0	1233.0	
CV		14.45	4.04	19.7	4.17	19.63	

Means followed by same letter do not significantly differ (P=.05, LSD)