

MSU Weed Science Research Program

Canopy Comparison of Two Roundup Ready Varieties

Trial ID: SB03-07BB
 Conducted: Bean and Beet

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

Date Planted: 4/20/07
Variety: Hilleshog, 9027 9032
Population:
Soil Type: Silty Clay
Plot Size: 15 X 30 FT

Row Spacing: IN
No. of Reps: 4
% OM: 3.9
pH: 7.4
Design: RANDOMIZED COMPLETE BLOCK

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
2.	AMARE	PIGWEEED, REDROOT	AMARANTHUS RETROFLEXUS L.
Crop	Code	Common Name	
1.	BETVU	BEET, SUGAR	

Application Description

	A	B
Application Timing:	WF A	WF B
Date Treated:	5/18/07	6/6/07
Time Treated:	3:00 pm	10:00 am
% Cloud Cover:	10	0
Air Temp., Unit:	68 F	60 F
% Relative Humidity:	20	59
Wind Speed/Unit/Dir:	5 mph SW	5 mph SW
Soil Temp., Unit:	60 F	58 F
Soil/Leaf Surface M:	5 5	5 5
Soil Moist (1=w 5=d):	5	5

Crop Stage at Each Application

	A	B
Crop Name:	BETVU	BETVU
Height (In.):	1-2"	4-9"
Stage (L):	2-4	6-10

Weed Stage at Each Application

	A	B
Weed 1 Name:	CHEAL	CHEAL
Height (In.):	1/2-2"	1-2"
Stage (L):	2-10	4-8
Weed 2 Name:	AMARE	AMARE
Height (In.):	1/4-1/2"	1/2-1.5"
Stage (L):	2-4	2-4

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	22"	20	100	19	water	27
B	Cub	3.8	AirMix	11003	22"	20	100	19	water	27

Comments: Seeding population- 15" = 6" spacing, 30" = 3" spacing
 All plots kept weed free

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Weed Code									
Crop Code	BETVU	BETVU	BETVU	BETVU	BETVU	BETVU	BETVU	BETVU	BETVU
Rating Data Type	Row width	Population	Variety	Beets/100'	Beets/acre	yield	% Sugar	RWST	
Rating Unit	inch			count	count	ton/acre		lb/ton	
Rating Date	4/20/07	4/20/07	4/20/07	9/18/07	9/18/07	9/18/07	9/18/07	9/18/07	9/18/07
Trt-Eval Interval				123 DA-A	123 DA-A	123 DA-A	123 DA-A	123 DA-A	123 DA-A
Trt No.	Treatment Name	Rate Unit							
1	H 9027, 30" rows 126 beets/100'	30	1	9027	148	25701	30.4	16.7	245
2	H 9027, 30" rows 180 beets/100'	30	2	9027	187	32583	30.8	16.2	234
3	H 9027, 30" rows 234 beets/100'	30	3	9027	225	39204	31.8	16.9	248
4	H 9027, 30" rows 288 beets/100'	30	4	9027	294	51227	33.8	16.5	237
5	H 9032, 30" rows 126 beets/100'	30	1	9032	182	31625	30.4	16.4	239
6	H 9032, 30" rows 180 beets/100'	30	2	9032	215	37462	31.5	16.6	243
7	H 9032, 30" rows 234 beets/100'	30	3	9032	241	41992	30.3	16.9	246
8	H 9032, 30" rows 288 beets/100'	30	4	9032	282	49049	31.6	16.5	238
9	H 9027, 15" rows 63 beets/100'	15	1	9027	122	42340	32.9	16.6	237
10	H 9027, 15" rows 90 beets/100'	15	2	9027	122	42515	31.6	17.0	249
11	H 9027, 15" rows 117 beets/100'	15	3	9027	136	47219	34.1	16.8	241
12	H 9027, 15" rows 144 beets/100'	15	4	9027	151	52446	31.6	17.1	248
13	H 9032, 15" rows 63 beets/100'	15	1	9032	94	32583	28.0	16.5	236
14	H 9032, 15" rows 90 beets/100'	15	2	9032	95	33106	29.2	16.7	240
15	H 9032, 15" rows 117 beets/100'	15	3	9032	124	43212	30.3	16.6	240
16	H 9032, 15" rows 144 beets/100'	15	4	9032	141	49136	32.8	16.6	237
LSD (P=.05)		0.0	0.0	0.0	25.0	5414.7	3.37	0.72	14.4
Standard Deviation		0.0	0.0	0.0	17.5	3789.0	2.36	0.50	10.1
CV		0.0	0.0	0.0	10.17	9.31	7.54	3.01	4.19

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Weed Code
 Crop Code BETVU
 Rating Data Type RWSA
 Rating Unit lb/acre
 Rating Date 9/18/07
 Trt-Eval Interval 123 DA-A

Trt No.	Treatment Name	Rate Unit
1	H 9027, 30" rows 126 beets/100'	7442
2	H 9027, 30" rows 180 beets/100'	7170
3	H 9027, 30" rows 234 beets/100'	7864
4	H 9027, 30" rows 288 beets/100'	7993
5	H 9032, 30" rows 126 beets/100'	7278
6	H 9032, 30" rows 180 beets/100'	7634
7	H 9032, 30" rows 234 beets/100'	7446
8	H 9032, 30" rows 288 beets/100'	7518
9	H 9027, 15" rows 63 beets/100'	7791
10	H 9027, 15" rows 90 beets/100'	7895
11	H 9027, 15" rows 117 beets/100'	8202
12	H 9027, 15" rows 144 beets/100'	7837
13	H 9032, 15" rows 63 beets/100'	6622
14	H 9032, 15" rows 90 beets/100'	6967
15	H 9032, 15" rows 117 beets/100'	7263
16	H 9032, 15" rows 144 beets/100'	7765

LSD (P=.05)	856.2
Standard Deviation	599.1
CV	7.94