

Canopy Comparison of Two Roundup Ready Varieties

Trial ID: SB03-08BB
 Conducted: Bean and Beet

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

Date Planted: 4/25/08
Variety: Hillshog, 9027 9032
Population: See comments
Soil Type: Clay
Plot Size: 15 X 30 FT
Row Spacing: 1 N
No. of Reps: 4
% OM: 3.0
pH: 7.8
Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel dry bean
 Early spring field cultivate
 Shallow field cultivate 4/23/08
Fertilizer: 125#/acre Nitrogen (urea) applied and incorporated in early spring.

Crop and Weed Description			Scientific Name
Weed	Code	Common Name	
1.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
2.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
3.	AMASS	REDROOT PIGWEED, POWELL AMARANTH	AMARANTHUS SP.
Crop	Code	Common Name	
1.	BETVU	BEET, SUGAR	

Application Description		
	A	B
Application Timing:	WF "A"	WF "B"
Date Treated:	5/23/08	6/11/08
Time Treated:	1:00 pm	5:00 PM
% Cloud Cover:	80	25
Air Temp., Unit:	65 F	84 F
% Relative Humidity:	47	50
Wind Speed/Unit/Dir:	4 mph NE	4 mph E
Soil Temp., Unit:	56 F	78 F
Soil/Leaf Surface M:	5 5	5 5
Soil Moist (1=w 5=d):	5	4

Crop Stage at Each Application		
	A	B
Crop Name:	BETVU	BETVU
Height (In.):	.25-1	4-6
Stage (L):	2-4	8

Weed Stage at Each Application		
	A	B
Weed 1 Name:	CHEAL	CHEAL
Height (In.):	.5-1	1-2
Stage (L):	2-4	4-10
Weed 2 Name:	ABUTH	ABUTH
Height (In.):	1	--
Stage (L):	3	--
Weed 3 Name:	AMASS	AMASS
Height (In.):	--	.5-2
Stage (L):	--	4-8

Application Equipment										
Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom	GPA	Carrier	PSI
	Type	MPH	Type	Size	Height	Spacing	Width			
A	Cub	3.8	AirMix	11003	21	20	180	19	water	28
B	Cub	3.8	AirMix	11003	26	20	180	19	water	28

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

Previous Crop- Dry Bean

Fungicides were broadcast applied the following dates-

May 11- 40 oz/acre Quadris
 July 6- 13 oz/acre Emminent
 July 24- 9.2 oz/acre Headline
 August 12- 2.0 lb/acre Pencozeb + 0.5 lb/acre Topsin
 September 2- 9.2 oz/acre Headline

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Weed Code			
Crop Code	BETVU	BETVU	BETVU
Rating Data Type	yield	RWST	RWSA
Rating Unit	ton/A	#/ton	#/acre
Rating Date	9/25/08	9/25/08	9/25/08
Trt-Eval Interval	125 DA-A	125 DA-A	125 DA-A

Trt No.	Treatment Name	Rate Unit			
1	H 9027, 30" rows	31.5	222.5	6990	
1	126 beets/100'				
2	H 9027, 30" rows	36.9	221.6	8218	
2	180 beets/100'				
3	H 9027, 30" rows	35.1	238.3	8342	
3	234 beets/100'				
4	H 9027, 30" rows	35.2	234.8	8268	
4	288 beets/100'				
5	H 9032, 30" rows	32.6	225.1	7279	
5	126 beets/100'				
6	H 9032, 30" rows	35.3	242.7	8576	
6	180 beets/100'				
7	H 9032, 30" rows	33.0	236.0	7788	
7	234 beets/100'				
8	H 9032, 30" rows	32.0	233.7	7483	
8	288 beets/100'				
9	H 9027, 15" rows	31.3	231.9	7257	
9	63 beets/100'				
10	H 9027, 15" rows	34.5	221.7	7662	
10	90 beets/100'				
11	H 9027, 15" rows	33.5	231.1	7731	
11	117 beets/100'				
12	H 9027, 15" rows	36.0	230.4	8283	
12	144 beets/100'				
13	H 9032, 15" rows	30.2	230.0	6969	
13	63 beets/100'				
14	H 9032, 15" rows	34.1	239.5	8153	
14	90 beets/100'				
15	H 9032, 15" rows	32.3	239.6	7677	
15	117 beets/100'				
16	H 9032, 15" rows	33.3	235.1	7811	
16	144 beets/100'				

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Trt-Eval Interval	125 DA-A	125 DA-A	125 DA-A

Trt	Treatment	Rate
No.	Name	Unit

LSD (P=.10)	3.87	12.49	1000.5
Standard Deviation	3.25	10.49	840.2
CV	9.7	4.52	10.8