

MSU Weed Science Research Program

Time of weed removal in Roundup Ready sugarbeet

Trial ID: SB05-09BB Study Dir.: Sprague, Powell
Conducted: Bean & Beet Investigator: Christy Sprague

Date Planted: 4/16/2009 Row Spacing: 30 IN
Variety: Hilleshog 9042RR No. of Reps: 4
Population: 4 1/8" spacing % OM: 2.4
Soil Type: Silty Clay Loam pH: 7.9
Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall moldboard plow and spring field cultivation (2X).
Fertilizer: Broadcast 125lb N

Crop and Weed Description

Table with 4 columns: Weed, Code, Common Name, Scientific Name. Row 1: CHEAL, LAMBSQUARTERS, COMMON, CHENOPODIUM ALBUM L. Row 2: BETVU, BEET, SUGAR

Application Description

Table with 7 columns (A-F) and 11 rows of application data including timing, date, time, cloud cover, air temp, humidity, wind speed, soil temp, and soil moisture.

Crop Stage at Each Application

Table with 7 columns (A-F) and 3 rows of crop stage data including crop name, height, and stage.

Weed Stage at Each Application

Table with 7 columns (A-F) and 3 rows of weed stage data including weed name, height, and stage.

Weed Density (plants/sq. ft.)

1
Date: 7/9/2009
Weed Name: CHEAL
Density: 5

Application Equipment

Table with 12 columns: Appl, Sprayer Type, Speed MPH, Nozzle Type, Nozzle Size, Nozzle Height, Nozzle Spacing, Boom Width, GPA, Carrier, PSI. Rows A-F describe equipment for each application.

Comments: Several of the treatments did not have followup applications, due to early canopy closure and the lack of weed growth.

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Weed Code		CHEAL		CHEAL		BETVU		BETVU		BETVU		BETVU	
Crop Code		control		control		count		% sugar		yield		RWST	
Rating Data Type		percent		perent		# / 100'		9/18/2009		9/18/2009		9/18/2009	
Rating Unit		6/22/2009		9/14/2009		9/18/2009		130 DA-A		130 DA-A		130 DA-A	
Rating Date		42 DA-A		126 DA-A		130 DA-A		1		1		1	
Trt-Eval Interval		0		0		0		1		1		1	
# Subsamples, Dec.		0		0		0		1		1		1	
Trt	Treatment	Form	Form	Rate	Rate	Grow	Appl						
No.	Name	Conc	Type	Unit	Unit	Stg	Code						
1	Roundup PowerMax	4.5	L	22	fl oz/a	1" weeds	A	88	99	204	18.9	28.7	277.7
1	AMS		WG	17	lb/100 gal	1" weeds	A						
1	Roundup PowerMax	4.5	L	22	fl oz/a	+1" wds	F						
1	AMS		WG	17	lb/100 gal	+1" wds	F						
2	Roundup PowerMax	4.5	L	32	fl oz/a	1" weeds	A	94	98	183	19.2	25.1	284.1
2	AMS		WG	17	lb/100 gal	1" weeds	A						
2	Roundup PowerMax	4.5	L	22	fl oz/a	+1" wds	F						
2	AMS		WG	17	lb/100 gal	+1" wds	F						
3	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	B	99	96	219	18.9	27.7	278.8
3	AMS		WG	17	lb/100 gal	2" weeds	B						
4	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	B	99	99	220	19.2	28.6	283.4
4	AMS		WG	17	lb/100 gal	2" weeds	B						
5	Roundup PowerMax	4.5	L	22	fl oz/a	3" weeds	C	99	99	195	18.7	29.1	272.3
5	AMS		WG	17	lb/100 gal	3" weeds	C						
6	Roundup PowerMax	4.5	L	32	fl oz/a	3" weeds	C	99	99	193	19.0	27.1	283.5
6	AMS		WG	17	lb/100 gal	3" weeds	C						
7	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	D	97	99	213	18.9	26.6	281.2
7	AMS		WG	17	lb/100 gal	4" weeds	D						
8	Roundup PowerMax	4.5	L	32	fl oz/a	4" weeds	D	98	99	222	19.0	29.5	282.4
8	AMS		WG	17	lb/100 gal	4" weeds	D						
9	Untreated							0	0	196	18.7	11.2	272.3
10	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	B	99	98	221	19.2	29.7	281.1
10	AMS		WG	17	lb/100 gal	2" weeds	B						
11	Roundup PowerMax	4.5	L	32	fl oz/a	6" weeds	E	95	99	222	19.1	27.5	282.9
11	AMS		WG	17	lb/100 gal	6" weeds	E						
12	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	B	97	94	190	18.9	29.9	278.1
12	AMS		WG	17	lb/100 gal	2" weeds	B						
LSD (P=.05)								3.9	3.9	37.1	0.57	4.14	11.90
Standard Deviation								2.7	2.7	25.7	0.39	2.86	8.24
CV								3.08	3.03	12.47	2.08	10.72	2.94

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code
Crop Code BETVU
Rating Data Type RWSA
Rating Unit # / acre
Rating Date 9/18/2009
Trt-Eval Interval 130 DA-A
Subsamples, Dec. 0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	
1	Roundup PowerMax	4.5	L	22	fl oz/a	1" weeds	A	7976
1	AMS		WG	17	lb/100 gal	1" weeds	A	
1	Roundup PowerMax	4.5	L	22	fl oz/a	+1" wds	F	
1	AMS		WG	17	lb/100 gal	+1" wds	F	
2	Roundup PowerMax	4.5	L	32	fl oz/a	1" weeds	A	7106
2	AMS		WG	17	lb/100 gal	1" weeds	A	
2	Roundup PowerMax	4.5	L	22	fl oz/a	+1" wds	F	
2	AMS		WG	17	lb/100 gal	+1" wds	F	
3	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	B	7708
3	AMS		WG	17	lb/100 gal	2" weeds	B	
4	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	B	8082
4	AMS		WG	17	lb/100 gal	2" weeds	B	
5	Roundup PowerMax	4.5	L	22	fl oz/a	3" weeds	C	7909
5	AMS		WG	17	lb/100 gal	3" weeds	C	
6	Roundup PowerMax	4.5	L	32	fl oz/a	3" weeds	C	7656
6	AMS		WG	17	lb/100 gal	3" weeds	C	
7	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	D	7482
7	AMS		WG	17	lb/100 gal	4" weeds	D	
8	Roundup PowerMax	4.5	L	32	fl oz/a	4" weeds	D	8347
8	AMS		WG	17	lb/100 gal	4" weeds	D	
9	Untreated							3053
10	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	B	8317
10	AMS		WG	17	lb/100 gal	2" weeds	B	
11	Roundup PowerMax	4.5	L	32	fl oz/a	6" weeds	E	7777
11	AMS		WG	17	lb/100 gal	6" weeds	E	
12	Roundup PowerMax	4.5	L	32	fl oz/a	2" weeds	B	8337
12	AMS		WG	17	lb/100 gal	2" weeds	B	
LSD (P=.05)								1169.6
Standard Deviation								810.0
CV								10.83

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.