

MSU Weed Science Research Program

Control of volunteer Roundup Ready corn in Roundup Ready sugarbeet

Trial ID: SB01-09BB 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
2x Triple K Spring
Fertilizer: Broadcast 125lb N

Crop and Weed Description

Table with 4 columns: Weed, Code, Common Name, Scientific Name. Contains entries for LAMBSQUARTERS, COMMON and CORN, VOLUNTEER.

Application Description

A
Application Timing: 4" weeds
Date Treated: 5/29/2009
Time Treated: 9:00am
% Cloud Cover: 0
Air Temp., Unit: 64 F
% Relative Humidity: 74
Wind Speed/Unit/Dir: 6 mph SW
Soil Temp., Unit: 57 F
Soil/Leaf Surface M: 3 5
Soil Moist (1=w 5=d): 3

Crop Stage at Each Application

A
Crop Name: BETVU
Height (In.): 3-5
Stage (L): 6

Weed Stage at Each Application

A
Weed 1 Name: CHEAL
Height (In.): 4
Stage (L): Many
Weed 2 Name: ZEAMX
Height (In.): 3-7
Stage (L): 3

Weed Density (plants/sq. ft.)

Table with 2 columns: 1, 2. Rows for Date, Weed Name, and Density.

Application Equipment

Table with 10 columns: Appl, Sprayer, Speed, Nozzle, Nozzle, Nozzle, Nozzle, Boom, Width, GPA, Carrier, PSI.

Comments: Drilled 2 year old Pioneer 37Y14 corn seed with 1590JD drill (setting 20).
Worked in after drilling with field cultivator, then planted beets.

MSU Weed Science Research Program

Control of volunteer Roundup Ready corn in Roundup Ready sugarbeet

Trial ID: SB01-09BB
Conducted: Bean & Beet

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code								ZEAMX		CHEAL		ZEAMX		CHEAL	
Crop Code								BETVU		BETVU		BETVU		BETVU	
Rating Data Type								injury		control		injury		control	
Rating Unit								percent		percent		percent		percent	
Rating Date								6/3/2009		6/3/2009		6/11/2009		6/11/2009	
Trt-Eval Interval								5 DA-A		5 DA-A		13 DA-A		13 DA-A	
# Subsamples, Dec.								0		0		0		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	4" weeds	A	0	0	74	1	0	99		
1	Class Act NG		L	2.5	% v/v	4" weeds	A								
2	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	2	61	71	0	91	99		
2	Select	2	EC	4	fl oz/a	4" weeds	A								
2	Class Act NG		L	2.5	% v/v	4" weeds	A								
3	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	11	69	78	2	95	99		
3	Select	2	EC	4	fl oz/a	4" weeds	A								
3	Class Act NG		L	2.5	% v/v	4" weeds	A								
3	InterLock		L	4	fl oz/a	4" weeds	A								
4	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	5	61	75	1	95	99		
4	Select	2	EC	4	fl oz/a	4" weeds	A								
4	Superb HC		L	0.5	% v/v	4" weeds	A								
4	Class Act NG		L	2.5	% v/v	4" weeds	A								
5	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	2	66	69	0	93	99		
5	Select	2	EC	4	fl oz/a	4" weeds	A								
5	Destiny HC		L	0.5	% v/v	4" weeds	A								
5	Class Act NG		L	2.5	% v/v	4" weeds	A								
6	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	2	65	73	0	97	99		
6	Select	2	EC	4	fl oz/a	4" weeds	A								
6	Destiny HC		L	0.5	% v/v	4" weeds	A								
6	Class Act NG		L	2.5	% v/v	4" weeds	A								
6	InterLock		L	4	fl oz/a	4" weeds	A								
7	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	0	64	74	0	93	99		
7	Select Max	0.97	EC	6	fl oz/a	4" weeds	A								
7	Class Act NG		L	2.5	% v/v	4" weeds	A								
8	Durango	4	L	24	fl oz/a	4" weeds	A	0	61	73	0	96	99		
8	Targa	0.88	L	5	fl oz/a	4" weeds	A								
8	Activator 90 (NIS)		L	0.125	% v/v	4" weeds	A								
8	AMS		WG	17	lb/100 gal	4" weeds	A								
LSD (P=.05)								2.3	5.0	6.0	2.0	5.5	0.0		
Standard Deviation								1.5	3.4	4.0	1.4	3.7	0.0		
CV								56.27	6.13	5.53	315.95	4.52	0.0		

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.

MSU Weed Science Research Program

Control of volunteer Roundup Ready corn in Roundup Ready sugarbeet

Trial ID: SB01-09BB
Conducted: Bean & Beet

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code						ZEAMX		CHEAL		BETVU		BETVU		BETVU	
Crop Code						control		control		count		% sugar		yield	
Rating Data Type						percent		percent		# / 100'				ton/acre	
Rating Unit						6/22/2009		6/22/2009		9/18/2009		9/18/2009		9/18/2009	
Rating Date						24 DA-A		24 DA-A		112 DA-A		112 DA-A		112 DA-A	
Trt-Eval Interval						0		0		0		1		1	
# Subsamples, Dec.															
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	4" weeds	A	0	98	230	18.1	6.1			
1	Class Act NG		L	2.5	% v/v	4" weeds	A								
2	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	96	99	227	19.3	25.5			
2	Select	2	EC	4	fl oz/a	4" weeds	A								
2	Class Act NG		L	2.5	% v/v	4" weeds	A								
3	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	99	98	225	19.2	25.4			
3	Select	2	EC	4	fl oz/a	4" weeds	A								
3	Class Act NG		L	2.5	% v/v	4" weeds	A								
3	InterLock		L	4	fl oz/a	4" weeds	A								
4	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	99	99	222	19.4	29.4			
4	Select	2	EC	4	fl oz/a	4" weeds	A								
4	Superb HC		L	0.5	% v/v	4" weeds	A								
4	Class Act NG		L	2.5	% v/v	4" weeds	A								
5	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	99	99	243	19.1	26.0			
5	Select	2	EC	4	fl oz/a	4" weeds	A								
5	Destiny HC		L	0.5	% v/v	4" weeds	A								
5	Class Act NG		L	2.5	% v/v	4" weeds	A								
6	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	99	98	213	19.4	27.0			
6	Select	2	EC	4	fl oz/a	4" weeds	A								
6	Destiny HC		L	0.5	% v/v	4" weeds	A								
6	Class Act NG		L	2.5	% v/v	4" weeds	A								
6	InterLock		L	4	fl oz/a	4" weeds	A								
7	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	98	99	231	19.2	27.5			
7	Select Max	0.97	EC	6	fl oz/a	4" weeds	A								
7	Class Act NG		L	2.5	% v/v	4" weeds	A								
8	Durango	4	L	24	fl oz/a	4" weeds	A	98	98	241	19.2	29.9			
8	Targa	0.88	L	5	fl oz/a	4" weeds	A								
8	Activator 90 (NIS)		L	0.125	% v/v	4" weeds	A								
8	AMS		WG	17	lb/100 gal	4" weeds	A								
LSD (P=.05)								2.0	1.9	26.7	0.56	4.70			
Standard Deviation								1.4	1.3	18.1	0.38	3.20			
CV								1.59	1.32	7.93	1.97	13.0			

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.

MSU Weed Science Research Program

Control of volunteer Roundup Ready corn in Roundup Ready sugarbeet

Trial ID: SB01-09BB
Conducted: Bean & Beet

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code

Crop Code	BETVU	BETVU
Rating Data Type	RWST	RWSA
Rating Unit	# / ton	# / acre
Rating Date	9/18/2009	9/18/2009
Trt-Eval Interval	112 DA-A	112 DA-A
# Subsamples, Dec.	1	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	4" weeds	A	264.7	1594
1	Class Act NG		L	2.5	% v/v	4" weeds	A		
2	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	285.8	7294
2	Select	2	EC	4	fl oz/a	4" weeds	A		
2	Class Act NG		L	2.5	% v/v	4" weeds	A		
3	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	287.1	7279
3	Select	2	EC	4	fl oz/a	4" weeds	A		
3	Class Act NG		L	2.5	% v/v	4" weeds	A		
3	InterLock		L	4	fl oz/a	4" weeds	A		
4	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	289.0	8499
4	Select	2	EC	4	fl oz/a	4" weeds	A		
4	Superb HC		L	0.5	% v/v	4" weeds	A		
4	Class Act NG		L	2.5	% v/v	4" weeds	A		
5	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	282.6	7361
5	Select	2	EC	4	fl oz/a	4" weeds	A		
5	Destiny HC		L	0.5	% v/v	4" weeds	A		
5	Class Act NG		L	2.5	% v/v	4" weeds	A		
6	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	288.5	7803
6	Select	2	EC	4	fl oz/a	4" weeds	A		
6	Destiny HC		L	0.5	% v/v	4" weeds	A		
6	Class Act NG		L	2.5	% v/v	4" weeds	A		
6	InterLock		L	4	fl oz/a	4" weeds	A		
7	Roundup PowerMax	4.5	L	22	fl oz/a	4" weeds	A	284.6	7830
7	Select Max	0.97	EC	6	fl oz/a	4" weeds	A		
7	Class Act NG		L	2.5	% v/v	4" weeds	A		
8	Durango	4	L	24	fl oz/a	4" weeds	A	284.5	8486
8	Targa	0.88	L	5	fl oz/a	4" weeds	A		
8	Activator 90 (NIS)		L	0.125	% v/v	4" weeds	A		
8	AMS		WG	17	lb/100 gal	4" weeds	A		

LSD (P=.05)	8.88	1355.1
Standard Deviation	6.02	918.7
CV	2.12	13.09

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.