

Select vs V10117 for Control of Volunteer Roundup Ready Corn.

Project Code: 03-52-W40      Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country:      Belleville      IL 62221 USA  
 Trial Status: Final      Updated:      9-3-03

**Objective:**

Compare Select and V10117 for control of Volunteer Roundup Ready corn in glyphosate tank mixtures.

**Weed Code      Common Name      Scientific Name**

1. ZEAMX corn, volunteer Zea mays L.
2. SETFA foxtail, giant Setaria faberi Herrm.

Crop 1:              ZEAMX corn, field      **Variety:**      DKC 60-17 RR  
 Planting Method: Seeded      **Planting Date:** 6-19-03  
 Rate:              28000 S/A      **Depth:**      1.5 IN  
 Row Spacing:      30 IN

Plot Width, Unit: 10 FT      **Plot Length, Unit:** 25 FT      **Reps:** 3  
 Tillage Type:      Reduced-Till      **Study Design:** Randomized complete block  
 Previous Crop, Year: GLXMA, 2002

**Field Prep./Maintenance:** N 150 LB/A, P205 50 LB/A, K20 200 LB/A

Soil Name: Weir      **% OM:** 1.9      **pH:** 7.1      **CEC:** 12  
 Texture: Silt loam      **Fert. Level:** P1: 97 LB/A, K: 282 LB/A

**APPLICATION DESCRIPTION**

A

Application Date: 7-8-03  
 Time of Day: 6:00  
 Application Method: Spray  
 Application Timing: 20-24"VCN  
 Applic. Placement: BROFOL  
 Air Temp., Unit: 84 F  
 % Relative Humidity: 60  
 Wind Velocity, Unit: 0 MPH

**CROP STAGE AT EACH APPLICATION**

A

Crop 1 Code, Stage: ZEAMX V6-V9  
 Height, Unit: 24-36 IN

**WEED STAGE AT EACH APPLICATION**

A

Weed 1 Code: ZEAMX  
 Stage(leaves): 6-9  
 Height(inches): 24-36  
 Density: Medium

Weed 2 Code: SETFA  
 Stage(leaves): 3-7  
 Height(inches): 12-24  
 Density: Medium

**APPLICATION EQUIPMENT**

A

Appl. Equipment: CO2 sprayer  
 Operating Pressure: 40 PSI  
 Nozzle Type: Flat fan  
 Nozzle Size: 8002  
 Boom Length, Unit: 7.5 FT  
 Spray Volume, Unit: 20 GPA

**NOTES:**  
Not harvested.

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Weed Code	ZEAMX	ZEAMX	ZEAMX	SETFA	SETFA	SETFA
Crop Code						
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	7-15-03	7-22-03	8-5-03	7-15-03	7-22-03	8-5-03
Trt-Eval Interval	7 DA-A	14 DA-A	28 DA-A	7 DA-A	14 DA-A	28 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX	ZEAMX	ZEAMX	SETFA	SETFA	SETFA
1	NONTREATED									0	0	0	0	0	0
2	SELECT	2	EC	0.078	LB A/A	5	FL OZ/A	20-24"	VCN A	50	90	87	97	99	99
2	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	20-24"	VCN A						
2	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	20-24"	VCN A						
3	V-10117	1.88	EC	0.0734	LB A/A	5	FL OZ/A	20-24"	VCN A	52	90	89	96	99	99
3	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	20-24"	VCN A						
3	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	20-24"	VCN A						
4	ASSURE II	0.88	EC	0.0344	LB A/A	5	FL OZ/A	20-24"	VCN A	37	90	87	93	99	99
4	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	20-24"	VCN A						
4	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	20-24"	VCN A						
5	V-10137	0.94	EC	0.0734	LB A/A	10	FL OZ/A	20-24"	VCN A	45	90	90	93	99	99
5	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	20-24"	VCN A						
5	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	20-24"	VCN A						
6	V-10139	1.6	EC	0.075	LB A/A	6	FL OZ/A	20-24"	VCN A	48	90	88	94	99	99
6	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	20-24"	VCN A						
6	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	20-24"	VCN A						
7	V-10137	0.94	EC	0.0734	LB A/A	10	FL OZ/A	20-24"	VCN A	43	90	89	96	99	99
7	ROUNDUP ORIGINAL	3	SL	0.75	LB AE/A	32	FL OZ/A	20-24"	VCN A						
7	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	20-24"	VCN A						
7	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	20-24"	VCN A						
8	V-10139	1.6	EC	0.075	LB A/A	6	FL OZ/A	20-24"	VCN A	50	90	90	95	99	99
8	ROUNDUP ORIGINAL	3	SL	0.75	LB AE/A	32	FL OZ/A	20-24"	VCN A						
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	20-24"	VCN A						
8	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	20-24"	VCN A						
9	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	20-24"	VCN A	2	0	0	97	99	99
9	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	20-24"	VCN A						
10	NONTREATED									0	0	0	0	0	0
LSD (P=.05)										11.6	0.0	2.6	1.7	0.0	0.0
Replicate F										1.771	0.000	1.900	5.776	0.000	0.000
Replicate Prob(F)										0.1986	1.0000	0.1784	0.0115	1.0000	1.0000
Treatment F										33.477	0.000	2435.812	4872.104	0.000	0.000
Treatment Prob(F)										0.0001	1.0000	0.0001	0.0001	1.0000	1.0000

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#### Trial Comments

1. Protocol: Valent.
2. Ratings: CI and WC 7, 14 and 28 DAT.
3. Roundup Ready corn was planted in 30 inch rows.
4. This study was originally planned as 03-22-MS50.
5. DA-A = days after 20-24"VCN application.