

LSU Northeast Research Station

Effect of in season use of residual herbicides on post harvest signalgrass control.

Trial ID: SJ07C017 Protocol ID: SJ07C017
 Location: Study Director:
 Investigator: Bill Williams

General Trial Information

Investigator: Bill Williams

Crop Description

Crop 1: ZEAMX Zea mays Corn
 Variety: Pioneer 31G96
 BBCH Scale: BCOR Planting Date: 10/Apr/07
 Planting Method: SEEDED Rate, Unit: 28000 S/A
 Depth, Unit: 2.5 IN
 Row Spacing, Unit: 40 IN
 Seed Bed: MEDIUM
 Soil Moisture: NORMAL
 Harvest Equipment: Small plot combine
 Harvested Width, Unit: 6.67 FT Harvested Length, Unit: 25 FT
 % Standard Moisture: 15.0

Pest Description

Pest 1 Type: W Code: AMARE Amaranthus retroflexus
 Common Name: Redroot
 Pest 2 Type: W Code: SIDSP Sida spinosa
 Common Name: Teaweed
 Pest 3 Type: W Code: BRAPP Brachiaria platyphylla
 Common Name: Broadleaf signalgrass

Site and Design

Plot Width, Unit: 13.66 FT Site Type: FIELD
 Plot Length, Unit: 38 FT Tillage Type: CONVENTIONAL-TILL
 Replications: 3 Study Design: Randomized Complete Block

Soil Description

Description Name: New Ground
 % Sand: 16 % OM: 3.1 Texture: Clay
 % Silt: 28 pH: 6.1 Soil Name: Sharkey Clay
 % Clay: 56 CEC: 22.2 Fert. Level: EXCELLENT

Moisture and Weather Conditions

Overall Moisture Conditions: Dry
 Closest Weather Station: Northeast Research Station Distance: 0.25 Unit: MI

	Date	Amount	Unit
1.	31/Mar/07	0.25	IN
2.	1/Apr/07	0.01	IN
3.	2/Apr/07	0.01	IN
4.	3/Apr/07	0.09	IN
5.	4/Apr/07	0.19	IN

6. 7/Apr/07 0.14 IN
7. 8/Apr/07 0.1 IN
8. 10/Apr/07 1.01 IN
9. 14/Apr/07 0.39 IN
10. 18/Apr/07 0.11 IN
11. 25/Apr/07 1.37 IN
12. 26/Apr/07 0.41 IN
13. 2/May/07 0.04 IN
14. 3/May/07 1.24 IN
15. 15/May/07 0.02 IN
16. 16/May/07 0.01 IN
17. 17/May/07 0.01 IN
18. 3/Jun/07 0.02 IN
19. 16/Jun/07 0.01 IN
20. 18/Jun/07 0.02 IN
21. 19/Jun/07 0.4 IN
22. 2/Jul/07 0.3 IN
23. 3/Jul/07 0.06 IN
24. 4/Jul/07 1.14 IN
25. 5/Jul/07 0.31 IN
26. 6/Jul/07 0.27 IN
27. 7/Jul/07 1.39 IN
28. 9/Jul/07 0.36 IN
29. 10/Jul/07 0.01 IN
30. 11/Jul/07 0.27 IN
31. 13/Jul/07 0.3 IN
32. 14/Jul/07 1.96 IN
33. 15/Jul/07 2.8 IN
34. 17/Jul/07 1.56 IN
35. 20/Jul/07 0.93 IN
36. 21/Jul/07 0.1 IN
37. 22/Jul/07 0.01 IN
38. 30/Jul/07 2.35 IN

Application Description

A

Application Date: 15/May/07
Application Method: SPRAY
Application Timing: LAYBY
Application Placement: BROFOL
Air Temperature, Unit: 86 F
% Relative Humidity: 59
Wind Velocity, Unit: 5 MPH
Wind Direction: S
Soil Temperature, Unit: 85 F
% Cloud Cover: 70

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR

Pest Stage At Each Application

A

Pest 1 Code, Disc., Scale: AMARE W
Stage Minimum, Percent: 2-3 LF
Height Minimum, Maximum: 0.5 1.0
Pest 2 Code, Disc., Scale: SIDSP W
Stage Minimum, Percent: 4-5 LF
Height Minimum, Maximum: 0.5 1.0
Pest 3 Code, Disc., Scale: BRAPP W
Stage Minimum, Percent: 2-3 LF
Height Minimum, Maximum: 0.5 1.0

Application Equipment

A

Appl. Equipment: Tractor
Operating Pressure, Unit: 40 psi
Nozzle Type: Greenleaf
Nozzle Size: 11002
Nozzle Spacing, Unit: 20 in
Nozzles/Row: 2
Carrier: Water

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 Location: Study Director:
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Pest Type							
Pest Code	BRAPP	BRAPP	BRAPP	BRAPP	SIDSP		
Crop Code							
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P		
Rating Date	30/May/07	9/Jun/07	9/Jul/07	13/Aug/07	30/May/07		
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	%	%	%	%	%		
Trt-Eval Interval	15 DA-A	25 DA-A	55 DA-A	90 DA-A	15 DA-A		
Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	1	2	3	4	5
1 Roundup Weathermax 22	OZ/AEPOST	95	a95	a95	a0	c95	a
Roundup Weathermax 16	OZ/ALAYBY						
2 Roundup Weathermax 22	OZ/AEPOST	95	a95	a95	a30	b95	a
Roundup Weathermax 16	OZ/ALAYBY						
Atrazine	1.5 QT/ALAYBY						
3 Roundup Weathermax 22	OZ/AEPOST	95	a95	a95	a92	a95	a
Roundup Weathermax 16	OZ/ALAYBY						
Duall II Magnum	1.5 PT/A LAYBY						
4 Roundup Weathermax 22	OZ/AEPOST	95	a95	a95	a92	a95	a
Roundup Weathermax 16	OZ/ALAYBY						
Duall II Magnum	1.5 PT/A LAYBY						
Atrazine	1.5 QT/ALAYBY						
5 Roundup Weathermax 22	OZ/AEPOST	95	a95	a95	a92	a95	a
Roundup Weathermax 16	OZ/ALAYBY						
Harness	2.0 PT/A LAYBY						
6 Roundup Weathermax 22	OZ/AEPOST	95	a95	a95	a90	a95	a
Roundup Weathermax 16	OZ/ALAYBY						
Harness	2.0 PT/A LAYBY						
Atrazine	1.5 QT/ALAYBY						
7 Roundup Weathermax 22	OZ/AEPOST	95	a95	a95	a88	a95	a
Roundup Weathermax 16	OZ/ALAYBY						
Outlook	16 OZ/ALAYBY						
8 Roundup Weathermax 22	OZ/AEPOST	95	a95	a95	a92	a95	a
Roundup Weathermax 16	OZ/ALAYBY						
Outlook	16 OZ/ALAYBY						
Atrazine	1.5 QT/ALAYBY						
9 Roundup Weathermax 22	OZ/AEPOST	95	a95	a95	a90	a95	a
Roundup Weathermax 16	OZ/ALAYBY						
Lasso	3 QT/ALAYBY						
10 Roundup Weathermax 22	OZ/AEPOST	95	a95	a95	a83	a95	a

	Roundup Weathermax	16	OZ/ALAYBY						
	Lasso	3	QT/ALAYBY						
	Atrazine	1.5	QT/ALAYBY						
11	Roundup Weathermax	22	OZ/AEPOST	95	a95	a95	a87	a95	a
	Roundup Weathermax	16	OZ/ALAYBY						
	Prowl H2O	2.1	PT/A LAYBY						
12	Roundup Weathermax	22	OZ/AEPOST	95	a95	a95	a92	a95	a
	Roundup Weathermax	16	OZ/ALAYBY						
	Prowl H2O	2.1	PT/A LAYBY						
	Atrazine	1.5	QT/ALAYBY						
13	Roundup Weathermax	22	OZ/AEPOST	95	a95	a95	a88	a95	a
	Roundup Weathermax	16	OZ/ALAYBY						
	Resolve	1	OZ/ALAYBY						
14	Roundup Weathermax	22	OZ/AEPOST	95	a95	a95	a83	a95	a
	Roundup Weathermax	16	OZ/ALAYBY						
	Resolve	1	OZ/ALAYBY						
	Atrazine	1.5	QT/ALAYBY						
LSD (P=.10)				0.0	0.0	0.0	6.0	0.0	
Standard Deviation				0.0	0.0	0.0	4.3	0.0	
CV				0.0	0.0	0.0	5.52	0.0	
Grand Mean				95.0	95.0	95.0	78.45	95.0	
Bartlett's X2				0.0	0.0	0.0	5.777	0.0	
P(Bartlett's X2)				.	.	.	0.834	.	
Replicate F				0.000	0.000	0.000	2.130	0.000	
Replicate Prob(F)				1.0000	1.0000	1.0000	0.1392	1.0000	
Treatment F				0.000	0.000	0.000	122.643	0.000	
Treatment Prob(F)				1.0000	1.0000	1.0000	0.0001	1.0000	

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Pest Type					
Pest Code		BRAPP	BRAPP	BRAPP	SIDSP
Crop Code					
Part Rated		PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date		30/May/07	9/Jun/07	9/Jul/07	13/Aug/07
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%	%
Trt-Eval Interval		15 DA-A	25 DA-A	55 DA-A	90 DA-A
Trt Treatment	Rate	Growth			
No.	Name	RateUnit	Stage	1	2
				3	4
				5	

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Type			
Pest Code		SIDSP	SIDSP
Crop Code			
Part Rated		PLATOT P	PLATOT P
Rating Date		9/Jun/07	9/Jul/07
Rating Data Type		CONTROL	CONTROL
Rating Unit		%	%
Trt-Eval Interval		25 DA-A	55 DA-A

Trt No.	Trt Treatment Name	Rate	Growth Unit	Stage	6	7	8
1	Roundup Weathermax	22	OZ/AEPOST	95	a95	a88	a
	Roundup Weathermax	16	OZ/ALAYBY				
2	Roundup Weathermax	22	OZ/AEPOST	95	a95	a92	a
	Roundup Weathermax	16	OZ/ALAYBY				
	Atrazine	1.5	QT/ALAYBY				
3	Roundup Weathermax	22	OZ/AEPOST	95	a95	a90	a
	Roundup Weathermax	16	OZ/ALAYBY				
	Duall II Magnum	1.5	PT/A LAYBY				
4	Roundup Weathermax	22	OZ/AEPOST	95	a95	a90	a
	Roundup Weathermax	16	OZ/ALAYBY				
	Duall II Magnum	1.5	PT/A LAYBY				
	Atrazine	1.5	QT/ALAYBY				
5	Roundup Weathermax	22	OZ/AEPOST	95	a95	a92	a
	Roundup Weathermax	16	OZ/ALAYBY				
	Harness	2.0	PT/A LAYBY				
6	Roundup Weathermax	22	OZ/AEPOST	95	a95	a92	a
	Roundup Weathermax	16	OZ/ALAYBY				
	Harness	2.0	PT/A LAYBY				
	Atrazine	1.5	QT/ALAYBY				
7	Roundup Weathermax	22	OZ/AEPOST	95	a95	a90	a
	Roundup Weathermax	16	OZ/ALAYBY				
	Outlook	16	OZ/ALAYBY				
8	Roundup Weathermax	22	OZ/AEPOST	95	a95	a90	a
	Roundup Weathermax	16	OZ/ALAYBY				
	Outlook	16	OZ/ALAYBY				
	Atrazine	1.5	QT/ALAYBY				
9	Roundup Weathermax	22	OZ/AEPOST	95	a95	a90	a
	Roundup Weathermax	16	OZ/ALAYBY				
	Lasso	3	QT/ALAYBY				
10	Roundup Weathermax	22	OZ/AEPOST	95	a95	a90	a
	Roundup Weathermax	16	OZ/ALAYBY				
	Lasso	3	QT/ALAYBY				
	Atrazine	1.5	QT/ALAYBY				
11	Roundup Weathermax	22	OZ/AEPOST	95	a95	a87	a
	Roundup Weathermax	16	OZ/ALAYBY				
	Prowl H2O	2.1	PT/A LAYBY				
12	Roundup Weathermax	22	OZ/AEPOST	95	a95	a92	a

	Roundup Weathermax 16	OZ/ALAYBY				
	Prowl H2O 2.1	PT/A LAYBY				
	Atrazine 1.5	QT/ALAYBY				
13	Roundup Weathermax 22	OZ/AEPOST 95	a95	a90	a	
	Roundup Weathermax 16	OZ/ALAYBY				
	Resolve 1	OZ/ALAYBY				
14	Roundup Weathermax 22	OZ/AEPOST 95	a95	a88	a	
	Roundup Weathermax 16	OZ/ALAYBY				
	Resolve 1	OZ/ALAYBY				
	Atrazine 1.5	QT/ALAYBY				
LSD (P=.10)			0.0	0.0	3.4	
Standard Deviation			0.0	0.0	2.4	
CV			0.0	0.0	2.69	
Grand Mean			95.0	95.0	90.0	
Bartlett's X2			0.0	0.0	2.053	
P(Bartlett's X2)			.	.	0.915	
Replicate F			0.000	0.000	1.219	
Replicate Prob(F)			1.0000	1.0000	0.3119	
Treatment F			0.000	0.000	1.094	
Treatment Prob(F)			1.0000	1.0000	0.4057	

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Pest Type			
Pest Code	SIDSP	SIDSP	SIDSP
Crop Code			
Part Rated	PLATOT P	PLATOT P	PLATOT P
Rating Date	9/Jun/07	9/Jul/07	13/Aug/07
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%
Trt-Eval Interval	25 DA-A	55 DA-A	90 DA-A
Trt Treatment	Rate	Growth	
No. Name	Rate Unit	Stage	6 7 8

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