

LSU Northeast Research Station

Evaluation of postemergence broadleaf signalgrass control in corn

Trial ID: SJ07C018 Investigator:
Location: Study Dir.: Bill Williams

Crop 1: ZEAMX Field corn Variety: DK66-23 Planting Date: 3/Apr/07
Planting Method: SEEDED Rate: 28000 S/A Depth: 2.5 IN
Row Spacing: 40 IN Seed Bed: MEDIUM
Soil Moisture: NORMAL

Plot Width, Unit: 15 FT Plot Length, Unit: 25 FT Reps: 3
Site Type: FIELD
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: Silt loam % OM: 34 % Sand: 54 % Silt: 12 % Clay: 0.6
pH: 5.3 CEC: 6.3 Soil Name: Commerce Silt Lo Fertility Level: EXCELLENT

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	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			

Closest Weather Station: NERS Distance: 0.4 Unit: M

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	25/Apr/07					
Application Method:	SPRAY					
Application Timing:	EPOST					
Applic. Placement:	BROFOL					
Air Temp., Unit:	80 F					
% Relative Humidity:	47					
Wind Velocity, Unit:	5 N					
Soil Temp., Unit:	79 F					
Soil Moisture:	WET					
% Cloud Cover:	90					

CROP STAGE AT EACH APPLICATION

ZEAMX

A B C D E F

APPLICATION EQUIPMENT

A B C D E F

Appl. Equipment: Backpack
Operating Pressure: 31 PSI
Nozzle Type: Greenleaf
Nozzle Size: 11002
Nozzle Spacing, Unit: 20 in
Nozzles/Row: 2
Ground Speed, Unit: 2.8 MPH
Carrier: Water
Spray Volume, Unit: 15 GPA
Propellant: CO2

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Weed Code			BRAPP	BRAPP	BRAPP	BRAPP
Crop Code						
Part Rated			PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type			CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			%	%	%	%
Rating Date			2/May/07	18/May/07	18/Jun/07	15/Aug/07
Trt-Eval Interval			7 DA-A	23 DA-A	54 DA-A	112 DA-A
Trt Treatment	Rate	Grow				
No. Name	Rate Unit	Stg	1	2	3	4
1 NONTREATED			0	d 0	c 0	d 0 c
2 OPTION	1.5 OZ WT/A	EPOST	82	c 83	a 80	ab 67 ab
MSO	1.5 PT/A	EPOST				
UAN	2.0 QT/A	EPOST				
3 OPTION	1.5 OZ WT/A	EPOST	83	bc 87	a 83	ab 77 a
ATRAZINE	1.5 QT/A	EPOST				
MSO	1.5 PT/A	EPOST				
UAN	2.0 QT/A	EPOST				
4 OPTION	1.5 OZ WT/A	EPOST	83	bc 88	a 87	a 77 a
Prowl	2.0 PT/A	EPOST				
ATRAZINE	1.5 QT/A	EPOST				
MSO	1.5 PT/A	EPOST				
UAN	2.0 QT/A	EPOST				
5 EQUIP CORN HERBICIDE	1.5 OZ WT/A	EPOST	82	c 88	a 80	ab 67 ab
MSO	1.5 PT/A	EPOST				
UAN	2.0 QT/A	EPOST				
6 EQUIP CORN HERBICIDE	1.5 OZ WT/A	EPOST	88	ab 87	a 80	ab 73 a
ATRAZINE	1.5 QT/A	EPOST				
MSO	1.5 PT/A	EPOST				
UAN	2.0 QT/A	EPOST				
7 EQUIP CORN HERBICIDE	1.5 OZ WT/A	EPOST	87	abc 87	a 83	ab 73 a
Prowl	2 PT/A	EPOST				
ATRAZINE	1.5 QT/A	EPOST				
MSO	1.5 PT/A	EPOST				
UAN	2.0 QT/A	EPOST				
8 STEADFAST	0.75 OZ WT/A	EPOST	87	abc 90	a 80	ab 63 b
COC	1 % V/V	EPOST				
UAN	2. QT/A	EPOST				
9 STEADFAST	0.75 OZ WT/A	EPOST	90	a 90	a 80	ab 73 a
ATRAZINE	1.5 QT/A	EPOST				
COC	1 % V/V	EPOST				
UAN	2. QT/A	EPOST				
10 STEADFAST	0.75 OZ WT/A	EPOST	90	a 90	a 83	ab 73 a
Prowl	2 PT/A	EPOST				

	ATRAZINE	1.5	QT/A	EPOST						
	COC	1	% V/V	EPOST						
	UAN	2	QT/A	EPOST						
11	Accent	0.5	OZ WT/A	EPOST	82	c	70	b70	c 67	ab
	COC	1	% V/V	EPOST						
	UAN	2.	QT/A	EPOST						
12	Accent	0.5	OZ WT/A	EPOST	87	abc	82	a 80	ab73	a
	ATRAZINE	1.5	QT/A	EPOST						
	COC	1	% V/V	EPOST						
	UAN	2.	QT/A	EPOST						
13	Accent	0.5	OZ WT/A	EPOST	83	bc	70	b77	b 77	a
	Prowl	2	PT/A	EPOST						
	ATRAZINE	1.5	QT/A	EPOST						
	COC	1	% V/V	EPOST						
	UAN	2	QT/A	EPOST						
LSD (P=.10)					2.9		4.8	4.9	5.5	
Standard Deviation					2.1		3.4	3.5	3.9	
CV					2.62		4.43	4.75	5.93	
Grand Mean					78.67		77.82	74.1	66.15	
Bartlett's X2					3.64		2.656	0.0	0.0	
P(Bartlett's X2)					0.933		0.851	1.00	1.00	
Replicate F					18.995		1.351	1.448	14.000	
Replicate Prob(F)					0.0001		0.2779	0.2548	0.0001	
Treatment F					401.840		150.189	123.793	80.833	
Treatment Prob(F)					0.0001		0.0001	0.0001	0.0001	

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Trt Treatment		Rate					
No. Name		Rate Unit	Grow	1	2	3	4

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.