LSU Northeast Research Station

Evaluation of Impact for weed control and corn yield.

Trial ID: SJ07C010 Protocol ID: SJ07C010
Location: Study Director: AMVAC - Total Post - South 07
Investigator: Bill Williams

General Trial Information

Study Director: AMVAC - Total Post - South 07
Investigator: Bill Williams

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DK66-23
BBCH Scale: BCOR **Planting Date:** 11/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: ABOVE NORMAL
Harvest Date: 30/Aug/07 **Harvest Equipment:** Small plot combine
Harvested Width, Unit: 6.67 ft **Harvested Length, Unit:** 16 ft
% Standard Moisture: 15.0 **Moisture Meter:** kincaid
Weighing Equipment: load cell

Pest Description

Pest 1 Type: W **Code:** BRAPP Brachiaria platyphylla
Common Name: Broadleaf signalgrass

Pest 2 Type: W **Code:** RUMCR Rumex crispus
Common Name: Curly dock

Pest 3 Type: W **Code:** CYPES Cyperus esculentus
Common Name: Yellow nut sedge

Pest 4 Type: W **Code:** LAMAM Lamium amplexicaule
Common Name: Henbit

Pest 5 Type: W **Code:** AMASP Amaranthus spinosus
Common Name: Spiny pigweed

Pest 6 Type: W **Code:** SIDSP Sida spinosa
Common Name: Teaweed

Site and Design

Plot Width, Unit: 13.3 FT **Site Type:** FIELD
Plot Length, Unit: 35 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Soil Description

Description Name: OAC
% Sand: 14 **% OM:** 2.3 **Texture:** Silty Clay
% Silt: 46 **pH:** 6.1 **Soil Name:** Tunica
% Clay: 40 **CEC:** 15.4

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	B
Application Date:	26/Apr/07	3/May/07
Application Method:	SPRAY	SPREAD
Application Timing:	EPOST	2-3W
Application Placement:	BROFOL	BROFOL
Air Temperature, Unit:	78 F	86 F
% Relative Humidity:	48	68
Wind Velocity, Unit:	4 MPH	8 MPH
Wind Direction:	SW	SE
Soil Temperature, Unit:	78 F	82 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	0	90

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	V2	V4

Stage Majority, Percent:	9"	10"

Pest Stage At Each Application

	A		B	
Pest 1 Code, Disc., Scale:	BRAPP	W	BRAPP	W
Stage Majority, Percent:	4-5 LF		3-4 LF	
Stage Minimum, Percent:	1"		1"	
Stage Maximum, Percent:	1"		3"	
Pest 2 Code, Disc., Scale:	RUMCR	W	RUMCR	W
Stage Majority, Percent:	3-4 LF			
Stage Minimum, Percent:	2"			
Stage Maximum, Percent:	2"			
Pest 3 Code, Disc., Scale:	CYPES	W	CYPES	W
Stage Majority, Percent:			6 LF	
Stage Minimum, Percent:			4"	
Stage Maximum, Percent:			5"	
Pest 4 Code, Disc., Scale:	LAMAM	W	LAMAM	W
Stage Majority, Percent:			4 LF	
Stage Minimum, Percent:			1"	
Stage Maximum, Percent:			1"	
Pest 5 Code, Disc., Scale:	AMASP	W	AMASP	W
Stage Majority, Percent:			3 LF	
Stage Minimum, Percent:			1"	
Stage Maximum, Percent:			1"	
Pest 6 Code, Disc., Scale:	SIDSP	W	SIDSP	W
Stage Majority, Percent:			COT	
Stage Minimum, Percent:			.25"	
Stage Maximum, Percent:			.25"	

Application Equipment

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

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Trial ID: SJ07C010 Protocol ID: SJ07C010
Location: Study Director: AMVAC - Total Post - South 07
Investigator: Bill Williams

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4
Pest Type								
Pest Code					LAMAM	LAMAM	LAMAM	LAMAM
Crop Code								
Part Rated					PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date					2/May/07	11/May/07	18/May/07	1/Jun/07
Rating Data Type					Control	Control	Control	Control
Rating Unit					%	%	%	%
Trt-Eval Interval					6 DA-A	8 DA-B	15 DA-B	29 DA-B
1	nontreated				0 b	0 b	0 b	0 b
2	Impact	0.75	OZ/A	2-3 in W	0 b	95 a	95 a	95 a
	Atrazine	1	PT/A	2-3 in W				
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W				
	Agridex	1	% V/V	2-3 in W				
3	Impact	0.75	OZ/A	2-3 in W	0 b	95 a	95 a	95 a
	Atrazine	3	PT/A	2-3 in W				
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W				
	Agridex	1	% V/V	2-3 in W				
4	Steadfast	0.75	OZ/A	2-3 in W	0 b	95 a	95 a	95 a
	Atrazine	3	PT/A	2-3 in W				
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W				
	Agridex	1	% V/V	2-3 in W				
5	Impact	0.5	OZ/A	2-3 in W	0 b	95 a	95 a	95 a
	Steadfast	0.75	OZ/A	2-3 in W				
	Atrazine	3	PT/A	2-3 in W				
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W				
	Agridex	1	% V/V	2-3 in W				
6	Roundup Originalmax	22	OZ/A	2-3 in W	0 b	95 a	95 a	95 a
	Atrazine	3	PT/A	2-3 in W				
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W				
7	Roundup Originalmax	22	OZ/A	2-3 in W	0 b	95 a	95 a	95 a
	Impact	0.5	OZ/A	2-3 in W				
	Atrazine	3	PT/A	2-3 in W				
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W				
8	Roundup Originalmax	22	OZ/A	2-3 in W	0 b	95 a	95 a	95 a
	Resolve	1	OZ/A	2-3 in W				
	Atrazine	3	PT/A	2-3 in W				
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W				
9	Impact	0.75	OZ/A	2-3 in W	0 b	95 a	95 a	95 a

	Resolve	1	OZ/A	2-3 in W						
	Atrazine	3	PT/A	2-3 in W						
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W						
	Agridex	1	% V/V	2-3 in W						
10	Impact	0.75	OZ/A	EPOST	95	a	95	a	95	a
	Resolve	1	OZ/A	EPOST						
	Atrazine	3	PT/A	EPOST						
	Ammonium Sulfate	8.5	LB/100 GAL	EPOST						
	Agridex	1	% V/V	EPOST						

LSD (P=.10)	0.0	0.0	0.0	0.0
Standard Deviation	0.0	0.0	0.0	0.0
CV	0.0	0.0	0.0	0.0
Grand Mean	9.5	85.5	85.5	85.5
Bartlett's X2	0.0	0.0	0.0	0.0
P(Bartlett's X2)	.	.	.	.
Replicate F	0.000	0.000	0.000	0.000
Replicate Prob(F)	1.0000	1.0000	1.0000	1.0000
Treatment F	0.000	0.000	0.000	0.000
Treatment Prob(F)	1.0000	1.0000	1.0000	1.0000

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Pest Type							
Pest Code				LAMAM	LAMAM	LAMAM	LAMAM
Crop Code							
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date				2/May/07	11/May/07	18/May/07	1/Jun/07
Rating Data Type				Control	Control	Control	Control
Rating Unit				%	%	%	%
Trt-Eval Interval				6 DA-A	8 DA-B	15 DA-B	29 DA-B
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	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.

LSU Northeast Research Station

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	5		6		7		8	
Pest Type												
Pest Code					BRAPP		BRAPP		BRAPP		BRAPP	
Crop Code												
Part Rated					PLATOT	P	PLATOT	P	PLATOT	P	PLATOT	P
Rating Date					2/May/07		11/May/07		18/May/07		1/Jun/07	
Rating Data Type					Control		Control		Control		Control	
Rating Unit					%		%		%		%	
Trt-Eval Interval					6 DA-A		8 DA-B		15 DA-B		29 DA-B	
1	nontreated				0		b 0		e 0		d 0	e
2	Impact	0.75	OZ/A	2-3 in W	0		b 30		d 57		c 60	d
	Atrazine	1	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
3	Impact	0.75	OZ/A	2-3 in W	0		b 50		c 72		b 73	c
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
4	Steadfast	0.75	OZ/A	2-3 in W	0		b 73		b 87		a 90	b
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
5	Impact	0.5	OZ/A	2-3 in W	0		b 73		b 95		a 95	a
	Steadfast	0.75	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
6	Roundup Originalmax	22	OZ/A	2-3 in W	0		b 87		a 95		a 95	a
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
7	Roundup Originalmax	22	OZ/A	2-3 in W	0		b 87		a 93		a 95	a
	Impact	0.5	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
8	Roundup Originalmax	22	OZ/A	2-3 in W	0		b 87		a 90		a 95	a
	Resolve	1	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
9	Impact	0.75	OZ/A	2-3 in W	0		b 67		b 87		a 92	ab
	Resolve	1	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
10	Impact	0.75	OZ/A	EPOST	87		a 95		a 93		a 95	a
	Resolve	1	OZ/A	EPOST								
	Atrazine	3	PT/A	EPOST								

Ammonium Sulfate	8.5	LB/100 GAL	EPOST			
Agridex	1	% V/V	EPOST			
LSD (P=.10)				2.6	6.6	5.9	2.8
Standard Deviation				1.8	4.7	4.2	1.9
CV				21.07	7.21	5.43	2.47
Grand Mean				8.67	64.83	76.83	79.0
Bartlett's X2				0.0	0.0	4.072	0.871
P(Bartlett's X2)				.	.	0.667	0.351
Replicate F				1.000	0.153	2.489	1.976
Replicate Prob(F)				0.3874	0.8596	0.1111	0.1676
Treatment F				676.000	123.936	151.431	719.610
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001

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Pest Type							
Pest Code				BRAPP	BRAPP	BRAPP	BRAPP
Crop Code							
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date				2/May/07	11/May/07	18/May/07	1/Jun/07
Rating Data Type				Control	Control	Control	Control
Rating Unit				%	%	%	%
Trt-Eval Interval				6 DA-A	8 DA-B	15 DA-B	29 DA-B
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	5	6	7	8

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.

LSU Northeast Research Station

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	9		10		11		12	
Pest Type												
Pest Code					BRAPP		BRAPP		SIDSP		SIDSP	
Crop Code												
Part Rated					PLATOT P		PLATOT P		PLATOT P		PLATOT P	
Rating Date					1/Jul/07		13/Aug/07		2/May/07		11/May/07	
Rating Data Type					Control		Control		Control		Control	
Rating Unit					%		%		%		%	
Trt-Eval Interval					59 DA-B		102 DA-B		6 DA-A		8 DA-B	
1	nontreated				0	d	0	d	0	b	0	b
2	Impact	0.75	OZ/A	2-3 in W	47	c	30	c	0	b	95	a
	Atrazine	1	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
3	Impact	0.75	OZ/A	2-3 in W	60	b	30	c	0	b	95	a
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
4	Steadfast	0.75	OZ/A	2-3 in W	87	a	73	a	0	b	95	a
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
5	Impact	0.5	OZ/A	2-3 in W	87	a	73	a	0	b	95	a
	Steadfast	0.75	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
6	Roundup Originalmax	22	OZ/A	2-3 in W	67	b	30	c	0	b	95	a
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
7	Roundup Originalmax	22	OZ/A	2-3 in W	67	b	30	c	0	b	95	a
	Impact	0.5	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
8	Roundup Originalmax	22	OZ/A	2-3 in W	90	a	67	ab	0	b	95	a
	Resolve	1	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
9	Impact	0.75	OZ/A	2-3 in W	87	a	63	b	0	b	95	a
	Resolve	1	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
10	Impact	0.75	OZ/A	EPOST	83	a	60	b	95	a	95	a
	Resolve	1	OZ/A	EPOST								
	Atrazine	3	PT/A	EPOST								

Ammonium Sulfate	8.5	LB/100 GAL	EPOST			
Agridex	1	% V/V	EPOST			
LSD (P=.10)				6.8	6.5	0.0	0.0
Standard Deviation				4.8	4.6	0.0	0.0
CV				7.17	10.06	0.0	0.0
Grand Mean				67.33	45.67	9.5	85.5
Bartlett's X2				0.0	1.081	0.0	0.0
P(Bartlett's X2)				.	0.897	.	.
Replicate F				1.000	2.053	0.000	0.000
Replicate Prob(F)				0.3874	0.1574	1.0000	1.0000
Treatment F				98.667	87.737	0.000	0.000
Treatment Prob(F)				0.0001	0.0001	1.0000	1.0000

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Pest Type							
Pest Code				BRAPP	BRAPP	SIDSP	SIDSP
Crop Code							
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date				1/Jul/07	13/Aug/07	2/May/07	11/May/07
Rating Data Type				Control	Control	Control	Control
Rating Unit				%	%	%	%
Trt-Eval Interval				59 DA-B	102 DA-B	6 DA-A	8 DA-B
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	9	10	11	12

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)
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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	13		14		15		16	
Pest Type												
Pest Code					SIDSP		SIDSP		SIDSP		SIDSP	
Crop Code												
Part Rated					PLATOT	P	PLATOT	P	PLATOT	P	PLATOT	P
Rating Date					18/May/07		1/Jun/07		1/Jul/07		13/Aug/07	
Rating Data Type					Control		Control		Control		Control	
Rating Unit					%		%		%		%	
Trt-Eval Interval					15 DA-B		29 DA-B		59 DA-B		102 DA-B	
1	nontreated				0	b	0	b	0	b	0	c
2	Impact	0.75	OZ/A	2-3 in W	95	a	95	a	95	a	95	a
	Atrazine	1	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
3	Impact	0.75	OZ/A	2-3 in W	95	a	95	a	95	a	95	a
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
4	Steadfast	0.75	OZ/A	2-3 in W	95	a	95	a	95	a	95	a
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
5	Impact	0.5	OZ/A	2-3 in W	95	a	95	a	95	a	95	a
	Steadfast	0.75	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
6	Roundup Originalmax	22	OZ/A	2-3 in W	95	a	95	a	95	a	95	a
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
7	Roundup Originalmax	22	OZ/A	2-3 in W	95	a	95	a	95	a	95	a
	Impact	0.5	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
8	Roundup Originalmax	22	OZ/A	2-3 in W	95	a	95	a	95	a	95	a
	Resolve	1	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
9	Impact	0.75	OZ/A	2-3 in W	95	a	95	a	95	a	95	a
	Resolve	1	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
10	Impact	0.75	OZ/A	EPOST	95	a	95	a	95	a	92	b
	Resolve	1	OZ/A	EPOST								
	Atrazine	3	PT/A	EPOST								

Ammonium Sulfate	8.5	LB/100 GAL	EPOST			
Agridex	1	% V/V	EPOST			
LSD (P=.10)				0.0	0.0	0.0	1.3
Standard Deviation				0.0	0.0	0.0	0.9
CV				0.0	0.0	0.0	1.07
Grand Mean				85.5	85.5	85.5	85.17
Bartlett's X2				0.0	0.0	0.0	0.0
P(Bartlett's X2)				.	.	.	.
Replicate F				0.000	0.000	0.000	1.000
Replicate Prob(F)				1.0000	1.0000	1.0000	0.3874
Treatment F				0.000	0.000	0.000	3227.667
Treatment Prob(F)				1.0000	1.0000	1.0000	0.0001

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Pest Type							
Pest Code				SIDSP	SIDSP	SIDSP	SIDSP
Crop Code							
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date				18/May/07	1/Jun/07	1/Jul/07	13/Aug/07
Rating Data Type				Control	Control	Control	Control
Rating Unit				%	%	%	%
Trt-Eval Interval				15 DA-B	29 DA-B	59 DA-B	102 DA-B
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	13	14	15	16

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.

LSU Northeast Research Station

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	17		18		19		20	
Pest Type												
Pest Code					IPOLA		IPOLA		IPOLA		IPOLA	
Crop Code												
Part Rated					PLATOT	P	PLATOT	P	PLATOT	P	PLATOT	P
Rating Date					2/May/07		11/May/07		18/May/07		1/Jun/07	
Rating Data Type					Control		Control		Control		Control	
Rating Unit					%		%		%		%	
Trt-Eval Interval					6 DA-A		8 DA-B		15 DA-B		29 DA-B	
1	nontreated				0	b	0	b	0	b	0	b
2	Impact	0.75	OZ/A	2-3 in W	0	b	95	a	95	a	95	a
	Atrazine	1	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
3	Impact	0.75	OZ/A	2-3 in W	0	b	95	a	95	a	95	a
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
4	Steadfast	0.75	OZ/A	2-3 in W	0	b	95	a	95	a	95	a
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
5	Impact	0.5	OZ/A	2-3 in W	0	b	95	a	95	a	95	a
	Steadfast	0.75	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
6	Roundup Originalmax	22	OZ/A	2-3 in W	0	b	95	a	95	a	95	a
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
7	Roundup Originalmax	22	OZ/A	2-3 in W	0	b	95	a	95	a	95	a
	Impact	0.5	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
8	Roundup Originalmax	22	OZ/A	2-3 in W	0	b	95	a	95	a	95	a
	Resolve	1	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
9	Impact	0.75	OZ/A	2-3 in W	0	b	95	a	95	a	95	a
	Resolve	1	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
10	Impact	0.75	OZ/A	EPOST	95	a	95	a	95	a	95	a
	Resolve	1	OZ/A	EPOST								
	Atrazine	3	PT/A	EPOST								

Ammonium Sulfate	8.5	LB/100 GAL	EPOST				
Agridex	1	% V/V	EPOST				
LSD (P=.10)				0.0	0.0	0.0	0.0
Standard Deviation				0.0	0.0	0.0	0.0
CV				0.0	0.0	0.0	0.0
Grand Mean				9.5	85.5	85.5	85.5
Bartlett's X2				0.0	0.0	0.0	0.0
P(Bartlett's X2)				.	.	.	.
Replicate F				0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000

LSU Northeast Research Station

Pest Type							
Pest Code				IPOLA	IPOLA	IPOLA	IPOLA
Crop Code							
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date				2/May/07	11/May/07	18/May/07	1/Jun/07
Rating Data Type				Control	Control	Control	Control
Rating Unit				%	%	%	%
Trt-Eval Interval				6 DA-A	8 DA-B	15 DA-B	29 DA-B
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	17	18	19	20

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.

LSU Northeast Research Station

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	21		22		23		24	
	Pest Type											
	Pest Code				IPOLA		IPOLA					
	Crop Code								ZEAMX		ZEAMX	
	Part Rated				PLATOT	P	PLATOT	P	GRAIN	C	GRAIN	C
	Rating Date				1/Jul/07		13/Aug/07		30/Aug/07		30/Aug/07	
	Rating Data Type				Control		Control		Yield		Moisture	
	Rating Unit				%		%		lb/plt		%	
	Trt-Eval Interval				59 DA-B		102 DA-B					
1	nontreated				0	b	0	b	0	b	15	a
2	Impact	0.75	OZ/A	2-3 in W	95	a	95	a	15	a	15	a
	Atrazine	1	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
3	Impact	0.75	OZ/A	2-3 in W	95	a	95	a	14	a	6	a
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
4	Steadfast	0.75	OZ/A	2-3 in W	95	a	95	a	16	a	15	a
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
5	Impact	0.5	OZ/A	2-3 in W	95	a	95	a	17	a	15	a
	Steadfast	0.75	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
6	Roundup Originalmax	22	OZ/A	2-3 in W	95	a	95	a	12	a	7	a
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
7	Roundup Originalmax	22	OZ/A	2-3 in W	95	a	95	a	15	a	14	a
	Impact	0.5	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
8	Roundup Originalmax	22	OZ/A	2-3 in W	95	a	95	a	14	a	10	a
	Resolve	1	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
9	Impact	0.75	OZ/A	2-3 in W	95	a	95	a	16	a	11	a
	Resolve	1	OZ/A	2-3 in W								
	Atrazine	3	PT/A	2-3 in W								
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W								
	Agridex	1	% V/V	2-3 in W								
10	Impact	0.75	OZ/A	EPOST	95	a	93	a	16	a	15	a
	Resolve	1	OZ/A	EPOST								
	Atrazine	3	PT/A	EPOST								

Ammonium Sulfate	8.5	LB/100 GAL	EPOST			
Agridex	1	% V/V	EPOST			
LSD (P=.10)				0.0	1.3	3.0	5.7
Standard Deviation				0.0	0.9	2.1	4.0
CV				0.0	1.07	15.81	32.56
Grand Mean				85.5	85.33	13.37	12.38
Bartlett's X2				0.0	0.0	17.587	34.355
P(Bartlett's X2)				.	.	0.04*	0.001*
Replicate F				0.000	1.000	0.925	1.847
Replicate Prob(F)				1.0000	0.3874	0.4144	0.1863
Treatment F				0.000	3237.334	15.428	2.354
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0584

LSU Northeast Research Station

Pest Type							
Pest Code				IPOLA	IPOLA		
Crop Code						ZEAMX	ZEAMX
Part Rated				PLATOT P	PLATOT P	GRAIN C	GRAIN C
Rating Date				1/Jul/07	13/Aug/07	30/Aug/07	30/Aug/07
Rating Data Type				Control	Control	Yield	Moisture
Rating Unit				%	%	lb/plt	%
Trt-Eval Interval				59 DA-B	102 DA-B		
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	21	22	23	24

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.

LSU Northeast Research Station

Pest Type	
Pest Code	
Crop Code	ZEAMX
Part Rated	GRAIN C
Rating Date	30/Aug/07
Rating Data Type	YIELD
Rating Unit	BU
Trt-Eval Interval	

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	25	
1	nontreated				3	b
2	Impact	0.75	OZ/A	2-3 in W	111	a
	Atrazine	1	PT/A	2-3 in W		
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W		
	Agridex	1	% V/V	2-3 in W		
3	Impact	0.75	OZ/A	2-3 in W	111	a
	Atrazine	3	PT/A	2-3 in W		
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W		
	Agridex	1	% V/V	2-3 in W		
4	Steadfast	0.75	OZ/A	2-3 in W	116	a
	Atrazine	3	PT/A	2-3 in W		
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W		
	Agridex	1	% V/V	2-3 in W		
5	Impact	0.5	OZ/A	2-3 in W	123	a
	Steadfast	0.75	OZ/A	2-3 in W		
	Atrazine	3	PT/A	2-3 in W		
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W		
	Agridex	1	% V/V	2-3 in W		
6	Roundup Originalmax	22	OZ/A	2-3 in W	91	a
	Atrazine	3	PT/A	2-3 in W		
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W		
7	Roundup Originalmax	22	OZ/A	2-3 in W	111	a
	Impact	0.5	OZ/A	2-3 in W		
	Atrazine	3	PT/A	2-3 in W		
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W		
8	Roundup Originalmax	22	OZ/A	2-3 in W	103	a
	Resolve	1	OZ/A	2-3 in W		
	Atrazine	3	PT/A	2-3 in W		
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W		
9	Impact	0.75	OZ/A	2-3 in W	118	a
	Resolve	1	OZ/A	2-3 in W		
	Atrazine	3	PT/A	2-3 in W		
	Ammonium Sulfate	8.5	LB/100 GAL	2-3 in W		
	Agridex	1	% V/V	2-3 in W		
10	Impact	0.75	OZ/A	EPOST	114	a
	Resolve	1	OZ/A	EPOST		
	Atrazine	3	PT/A	EPOST		

Ammonium Sulfate	8.5	LB/100 GAL	EPOST
Agridex	1	% V/V	EPOST

LSD (P=.10)	21.4
Standard Deviation	15.1
CV	15.08
Grand Mean	100.28
Bartlett's X2	15.241
P(Bartlett's X2)	0.085
Replicate F	0.718
Replicate Prob(F)	0.5013
Treatment F	16.259
Treatment Prob(F)	0.0001

LSU Northeast Research Station

Pest Type	
Pest Code	
Crop Code	ZEAMX
Part Rated	GRAIN C
Rating Date	30/Aug/07
Rating Data Type	YIELD
Rating Unit	BU
Trt-Eval Interval	

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	25

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.
Column 25: TY1 = 7.288766*[23]*(100-[24])/85