

LSU Northeast Research Station

Weed management in Liberty Link and Roundup Ready corn.

Trial ID: SJ05C008

Investigator:

Location:

Study Dir.: Bill Williams

GENERAL TRIAL INFORMATION**Study Director:** Bill Williams

Conclusions: The corn hybrid used for this study was tolerant to Liberty and Roundup. The study was designed to compare Liberty-Link and Roundup Ready programs. When applied alone Liberty generally resulted in slightly better broadleaf control than Roundup, while Roundup resulted in slightly better annual grass control. However, differences in weed control between Liberty and Roundup were minor and difficult to detect. Sequential applications of Liberty and Roundup were required for season long weed control and tank mixes with atrazine resulted in the best weed control. When applied with atrazine and/or applied sequentially few differences in weed control were observed between Liberty and Roundup. Though not statically significant, it was interesting that Liberty programs generally resulted in higher corn yields than Roundup programs.

CROP AND PEST DESCRIPTION

Weed 1.BRAPP	Signalgrass	2.CYPES	Yellow nutsedge	3.CASOB	Sicklepod
Weed 4.ERICA	Marestail	5.OEOLA	Primrose	6.LAMAM	Henbit
Weed 7.IPOLA	Morningglory	8.SEBEX	Hemp sesbania	9.SIDSP	Pricklysida
Weed 10.AMARE	Pigweed, r.	11.DIGSA	Crabgrass, l.		

Crop 1:ZEAMX	Corn	Variety: Pioneer 31G96LL	Planting Date: 4/4/05
Planting Method: BEDDED		Rate: 30000 S/A	Depth: 2 "
	Row Spacing: 40 "	Seed Bed: FINE/TRASHY	
	Soil Moisture: DRY	Emergence Date: 4/14/05	

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

Texture: Silt loam	% OM: 0.06	% Sand: 34	% Silt: 54	% Clay: 12
pH: 5.3	CEC: 6.3	Soil Name: Commerce	Fertility Level: EXCELLENT	

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MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1.4/6/05	5:30 AM	0.26	in	Rainfall		n/a
2.4/12/05	3:00 PM	0.88	in	Rainfall		n/a
3.4/26/05	3:00 AM	1.04	in	Rainfall		n/a
4.4/27/05	8:30 AM	0.04	in	Rainfall		n/a
5.4/30/05	3:00 AM	0.21	in	Rainfall		n/a
6.5/10/05	6:30 PM	0.25	in	Rainfall		n/a
7.5/15/05	5:30 PM	0.46	in	Rainfall		n/a
8.5/25/05	8:00 PM	0.78	in	Rainfall		n/a
9.5/29/05	1:00 AM	0.63	in	Rainfall		n/a
10.5/30/05	11:00 A	1.51	in	Rainfall		n/a
11.5/31/05	8:00 PM	0.26	in	Rainfall		n/a
12.6/2/05	4:00 PM	0.04	in	Rainfall		n/a
13.6/6/05	7:00 PM	0.39	in	Rainfall		n/a
14.6/18/05	11:00 A	0.42	in	Rainfall		n/a
15.7/3/04	6:00 PM	0.06	in	Rainfall		n/a
16.7/6/05	1:30 PM	1.6	in	Rainfall		n/a
17.7/8/05	1:45 PM	0.93	in	Rainfall		n/a
18.7/10/05	1:00 PM	0.04	in	Rainfall		n/a
19.7/14/05	2:00 PM	0.44	in	Rainfall		n/a
20.7/16/05	10:00 P	0.04	in	Rainfall		n/a
21.7/17/05	1:00 PM	0.25	in	Rainfall		n/a
22.7/18/05	7:00 PM	0.05	in	Rainfall		n/a
23.7/22/05	2:30 PM	0.15	in	Rainfall		n/a
24.8/4/05	3:30 PM	0.27	in	Rainfall		n/a
25.8/5/05	8:00 PM	0.45	in	Rainfall		n/a
26.8/6/05	6:00 PM	0.25	in	Rainfall		n/a
27.8/16/05	6:00 PM	1.31	in	Rainfall		n/a
28.8/22/05	9:00 PM	0.05	in	Rainfall		n/a

Overall Moisture Conditions: Dry

Closest Weather Station: northeast Research Station **Distance:** 0.5 **Unit:** mi

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4/20/05	4/27/05	5/10/05			
Time of Day:	11:00	11:00	1:30			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	EPOST	POST	LPOST			
Applic. Placement:	BROFOL	BROFOL	BROFOL			
Air Temp., Unit:	81 F	75 F	93 F			
% Relative Humidity:	60	31	48			
Wind Velocity, Unit:	6.5 S	1 S	1 W			
Soil Temp., Unit:	84 F	75 F	89 F			
Soil Moisture:	Dry	Moist	Wet			
% Cloud Cover:	40	0	0			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		V3	V6			
Stage Scale:	4-5"	6-8"	23"			
					V2	IN

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WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
BRAPP						
Stage Scale:	1-4"	2-3"	2-3"			
Density, Unit:	3 lf	2-3 till	2-3 till			
CYPES						
Stage Scale:	4-5"	4-5"	10-12"			
Density, Unit:	5 lf	5-6 lf				
CASOB						
Stage Scale:	1"	2-3"				
Density, Unit:	cot. lf	1-2 lf				
ERICA						
Stage Scale:	8-12"	12-18"				
OEOLA						
Stage Scale:	8" runner	8-10" run				
LAMAM						
Stage Scale:	.5"					
Density, Unit:	2 lf					
IPOLA						
Stage Scale:	1"	2-3"	3-4"			
Density, Unit:	cot. lf	2-3 lf	1-2 lf			
SEBEX						
Stage Scale:	cot.	2-3"	3-4"			
		2-3 lf	3-4 lf			

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	Backpack	Backpack	Backpack			
Operating Pressure:	31	31	31			
Nozzle Type:	Greenleaf	Greenleaf	Greenleaf			
Nozzle Size:	11002	11002	11002			
Nozzle Spacing, Unit:	20 "	20 "	20 "			
Nozzles/Row:	4	4	4			
Carrier:	Water	Water	Water			
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA			
Propellant:	CO2	CO2	CO2			

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Weed management in Liberty Link and Roundup Ready corn.

Trial ID: SJ05C008
 Location:

Investigator:
 Study Dir.: Bill Williams

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	4/28/05	5/11/05	5/25/05	7/27/05
Trt-Eval Interval	8 DA-A	14 DA-B	15 DA-C	78 DA-C
PRM Data Type				
# Subsamples, Dec.				

Trt No.	Treatment Name	Rate	Unit	Grow Stg	1	2	3	4	
1	Untreated				0	b 0	d 0	c 0	f
2	Liberty	0.267	LB A/A	POST	0	b 90	ab 80	b 70	e
	AMS	2	LB A/A	POST					
3	Roundup Weathermax	22	OZ/A	POST	0	b 93	a 80	b 72	e
4	Liberty	0.267	LB A/A	POST	0	b 88	b 83	b 83	cd
	Atrazine	2.0	QT/A	POST					
	AMS	2	LB A/A	POST					
5	Roundup Weathermax	22	OZ/A	POST	0	b 93	a 85	b 83	cd
	Atrazine	2.0	QT/A	POST					
6	Liberty	0.267	LB A/A	EPOST	93	a 83	c 85	b 87	abc
	AMS	2	LB A/A	EPOST					
	Liberty	0.267	LB A/A	LPOST					
	AMS	2	LB A/A	LPOST					
7	Roundup Weathermax	22	OZ/A	EPOST	95	a 80	c 83	b 85	bcd
	Roundup Weathermax	22	OZ/A	LPOST					
8	Liberty	0.267	LB A/A	EPOST	95	a 92	ab 93	a 90	ab
	Atrazine	2.0	QT/A	EPOST					
	AMS	2	LB A/A	EPOST					
	Liberty	0.267	LB A/A	LPOST					
	AMS	2	LB A/A	LPOST					
9	Roundup Weathermax	22	OZ/A	EPOST	93	a 90	ab 92	a 82	cd
	Atrazine	2.0	QT/A	EPOST					
	Roundup Weathermax	22	OZ/A	LPOST					
10	Liberty	0.267	LB A/A	EPOST	95	a 90	ab 95	a 85	bcd
	Atrazine	1.5	QT/A	EPOST					
	AMS	2	LB A/A	EPOST					
	Liberty	0.267	LB A/A	LPOST					
	Atrazine	1	QT/A	LPOST					
	AMS	2	LB A/A	LPOST					

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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	4/28/05	5/11/05	5/25/05	7/27/05
Trt-Eval Interval	8 DA-A	14 DA-B	15 DA-C	78 DA-C
PRM Data Type				
# Subsamples, Dec.				

Trt	Treatment	Rate	Unit	Grow	1	2	3	4	
No.	Name			Stg					
11	Roundup Weathermax	22	OZ/A	EPOST	95	a 92	ab 95	a 92	a
	Atrazine	1.5	QT/A	EPOST					
	Roundup Weathermax	22	OZ/A	LPOST					
	Atrazine	1	QT/A	LPOST					
12	Liberty	0.267	LB A/A	EPOST	92	a 92	ab 85	b 83	cd
	Atrazine	2.0	QT/A	EPOST					
	AMS	2	LB A/A	EPOST					
13	Roundup Weathermax	22	OZ/A	EPOST	93	a 92	ab 83	b 80	d
	Atrazine	2.0	QT/A	EPOST					
14	nontreated				0	b 0	d 0	c 0	f
LSD (P=.05)					3.5	4.4	6.5	5.8	
Bartlett's X2					1.632	2.124	3.199	4.141	
P(Bartlett's X2)					0.652	0.953	0.866	0.844	

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.

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Weed Code	DIGSA	SORHA	SORHA	SORHA
Crop Code				
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Rating Date	7/27/05	4/28/05	5/11/05	5/25/05
Trt-Eval Interval	78 DA-C	8 DA-A	14 DA-B	15 DA-C
PRM Data Type				
# Subsamples, Dec.				

Trt No.	Treatment Name	Rate	Unit	Grow Stg	5	6	7	8	
1	Untreated				0	e 0	b 0	d 0	g
2	Liberty AMS	0.267	LB A/A	POST	70	d 0	b 90	abc 80	def
3	Roundup Weathermax	22	OZ/A	POST	72	cd 0	b 85	bc 82	c-f
4	Liberty Atrazine AMS	0.267	LB A/A	POST	70	d 0	b 90	abc 78	ef
5	Roundup Weathermax Atrazine	22	OZ/A	POST	80	ab 0	b 93	a 87	abc
6	Liberty AMS	0.267	LB A/A	EPOST	67	d 92	a 83	c 85	bcd
7	Liberty AMS	0.267	LB A/A	LPOST					
7	Roundup Weathermax	22	OZ/A	EPOST	85	ab 88	a 93	a 90	ab
8	Roundup Weathermax	22	OZ/A	LPOST					
8	Liberty Atrazine AMS	0.267	LB A/A	EPOST	82	ab 88	a 90	abc 83	cde
9	Liberty AMS	0.267	LB A/A	LPOST					
9	Roundup Weathermax Atrazine	22	OZ/A	EPOST	83	ab 90	a 92	ab 85	bcd
10	Roundup Weathermax	22	OZ/A	LPOST					
10	Liberty Atrazine AMS	0.267	LB A/A	EPOST	87	a 95	a 90	abc 92	a
11	Liberty Atrazine AMS	0.267	LB A/A	LPOST					
11	Roundup Weathermax Atrazine	22	OZ/A	EPOST	78	bc 92	a 87	abc 90	ab
	Roundup Weathermax Atrazine	22	OZ/A	LPOST					
	Atrazine	1	QT/A	LPOST					

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Weed Code	DIGSA	SORHA	SORHA	SORHA
Crop Code				
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Rating Date	7/27/05	4/28/05	5/11/05	5/25/05
Trt-Eval Interval	78 DA-C	8 DA-A	14 DA-B	15 DA-C
PRM Data Type				
# Subsamples, Dec.				

Trt	Treatment	Rate	Unit	Grow	5	6	7	8	
No.	Name	Rate	Unit	Stg					
12	Liberty	0.267	LB A/A	EPOST	80	ab 90	a 92	ab 85	bcd
	Atrazine	2.0	QT/A	EPOST					
	AMS	2	LB A/A	EPOST					
13	Roundup Weathermax	22	OZ/A	EPOST	80	ab 90	a 90	abc 77	f
	Atrazine	2.0	QT/A	EPOST					
14	nontreated				0	e 0	b 0	d 0	g
LSD (P=.05)					8.2	7.0	7.3	5.8	
Bartlett's X2					8.849	2.09	5.623	3.149	
P(Bartlett's X2)					0.182	0.911	0.689	0.989	

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.

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Weed Code	CYPES	CYPES	CYPES	ERICA
Crop Code				
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Rating Date	4/28/05	5/11/05	5/25/05	4/28/05
Trt-Eval Interval	8 DA-A	14 DA-B	15 DA-C	8 DA-A
PRM Data Type				
# Subsamples, Dec.				

Trt No.	Treatment Name	Rate	Unit	Grow Stg	9	10	11	12	
1	Untreated				0	c 0	e 0	e 0	c
2	Liberty AMS	0.267	LB	A/A POST	0	c 68	d 60	d 0	c
3	Roundup Weathermax	22	OZ/A	POST	0	c 82	bc 60	d 0	c
4	Liberty Atrazine AMS	0.267	LB	A/A POST	0	c 87	ab 67	cd 0	c
5	Roundup Weathermax Atrazine	22	OZ/A	POST	0	c 83	abc 73	bc 0	c
6	Liberty AMS	0.267	LB	A/A EPOST	63	b 88	ab 73	bc 95	a
7	Liberty AMS	0.267	LB	A/A LPOST					
7	Roundup Weathermax	22	OZ/A	EPOST	85	a 85	abc 75	b 90	ab
8	Roundup Weathermax	22	OZ/A	LPOST					
8	Liberty Atrazine AMS	0.267	LB	A/A EPOST	87	a 72	d 80	b 95	a
9	Liberty AMS	0.267	LB	A/A LPOST					
9	Roundup Weathermax Atrazine	22	OZ/A	EPOST	83	a 92	a 77	b 88	b
10	Roundup Weathermax	22	OZ/A	LPOST					
10	Liberty Atrazine AMS	0.267	LB	A/A EPOST	90	a 88	ab 90	a 95	a
11	Liberty Atrazine AMS	0.267	LB	A/A LPOST					
11	Roundup Weathermax Atrazine	22	OZ/A	EPOST	85	a 88	ab 77	b 88	b
	Roundup Weathermax Atrazine	22	OZ/A	LPOST					
	Liberty Atrazine	1	QT/A	LPOST					

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Weed Code	CYPES	CYPES	CYPES	ERICA
Crop Code				
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Rating Date	4/28/05	5/11/05	5/25/05	4/28/05
Trt-Eval Interval	8 DA-A	14 DA-B	15 DA-C	8 DA-A
PRM Data Type				
# Subsamples, Dec.				

Trt	Treatment	Rate	Unit	Grow	Stg	9	10	11	12			
12	Liberty	0.267	LB A/A	EPOST	88	a	90	ab	77	b	95	a
	Atrazine	2.0	QT/A	EPOST								
	AMS	2	LB A/A	EPOST								
13	Roundup Weathermax	22	OZ/A	EPOST	60	b	77	cd	67	cd	85	b
	Atrazine	2.0	QT/A	EPOST								
14	nontreated				0	c	0	e	0	e	0	c
LSD (P=.05)					8.7		8.7		7.6		6.3	
Bartlett's X2					1.016		5.308		0.474		2.196	
P(Bartlett's X2)					0.985		0.915		1.00		0.533	

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.

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Weed Code	LAMAM	OEOLA	AMARE	AMARE
Crop Code				
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Rating Date	4/28/05	4/28/05	5/11/05	5/25/05
Trt-Eval Interval	8 DA-A	8 DA-A	14 DA-B	15 DA-C
PRM Data Type				
# Subsamples, Dec.				

Trt No.	Treatment Name	Rate	Unit	Grow Stg	13	14	15	16	
1	Untreated				0	c 0	c 0	d 0	c
2	Liberty	0.267	LB	A/A POST	0	c 0	c 85	c 75	b
	AMS	2	LB	A/A POST					
3	Roundup Weathermax	22	OZ/A	POST	0	c 0	c 92	b 78	b
4	Liberty	0.267	LB	A/A POST	0	c 0	c 95	a 92	a
	Atrazine	2.0	QT/A	POST					
	AMS	2	LB	A/A POST					
5	Roundup Weathermax	22	OZ/A	POST	0	c 0	c 95	a 92	a
	Atrazine	2.0	QT/A	POST					
6	Liberty	0.267	LB	A/A EPOST	95	a 95	a 92	b 93	a
	AMS	2	LB	A/A EPOST					
	Liberty	0.267	LB	A/A LPOST					
	AMS	2	LB	A/A LPOST					
7	Roundup Weathermax	22	OZ/A	EPOST	92	a 67	b 93	ab 92	a
	Roundup Weathermax	22	OZ/A	LPOST					
8	Liberty	0.267	LB	A/A EPOST	95	a 95	a 95	a 95	a
	Atrazine	2.0	QT/A	EPOST					
	AMS	2	LB	A/A EPOST					
	Liberty	0.267	LB	A/A LPOST					
	AMS	2	LB	A/A LPOST					
9	Roundup Weathermax	22	OZ/A	EPOST	95	a 93	a 95	a 95	a
	Atrazine	2.0	QT/A	EPOST					
	Roundup Weathermax	22	OZ/A	LPOST					
10	Liberty	0.267	LB	A/A EPOST	95	a 95	a 95	a 95	a
	Atrazine	1.5	QT/A	EPOST					
	AMS	2	LB	A/A EPOST					
	Liberty	0.267	LB	A/A LPOST					
	Atrazine	1	QT/A	LPOST					
	AMS	2	LB	A/A LPOST					
11	Roundup Weathermax	22	OZ/A	EPOST	95	a 95	a 95	a 95	a
	Atrazine	1.5	QT/A	EPOST					
	Roundup Weathermax	22	OZ/A	LPOST					
	Atrazine	1	QT/A	LPOST					

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Weed Code	LAMAM	OEOLA	AMARE	AMARE
Crop Code				
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Rating Date	4/28/05	4/28/05	5/11/05	5/25/05
Trt-Eval Interval	8 DA-A	8 DA-A	14 DA-B	15 DA-C
PRM Data Type				
# Subsamples, Dec.				

Trt	Treatment	Rate	Unit	Grow	Stg	13	14	15	16	
No.	Name	Rate	Unit	Stg						
12	Liberty	0.267	LB A/A	EPOST	63	b 95	a 95	a 95	a 95	a
	Atrazine	2.0	QT/A	EPOST						
	AMS	2	LB A/A	EPOST						
13	Roundup Weathermax	22	OZ/A	EPOST	95	a 95	a 95	a 93	a 93	a
	Atrazine	2.0	QT/A	EPOST						
14	nontreated				0	c 0	c 0	d 0	d 0	c
LSD (P=.05)						24.7	2.9	3.2	4.0	
Bartlett's X2						8.858	0.877	1.002	1.221	
P(Bartlett's X2)						0.003*	0.349	0.801	0.976	

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.

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Weed Code	SIDSO	SIDSO	SIDSO	IPOLA
Crop Code				
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Rating Date	5/11/05	5/25/05	7/27/05	5/11/05
Trt-Eval Interval	14 DA-B	15 DA-C	78 DA-C	14 DA-B
PRM Data Type				
# Subsamples, Dec.				

Trt No.	Treatment Name	Rate	Unit	Grow Stg	17	18	19	20	
1	Untreated				0	c 0	d 0	d 0	b
2	Liberty	0.267	LB	A/A POST	75	b 87	c 87	bc 93	a
	AMS	2	LB	A/A POST					
3	Roundup Weathermax	22	OZ/A	POST	88	a 87	c 83	c 90	a
4	Liberty	0.267	LB	A/A POST	93	a 90	bc 92	ab 95	a
	Atrazine	2.0	QT/A	POST					
	AMS	2	LB	A/A POST					
5	Roundup Weathermax	22	OZ/A	POST	95	a 92	ab 85	c 95	a
	Atrazine	2.0	QT/A	POST					
6	Liberty	0.267	LB	A/A EPOST	88	a 92	ab 93	a 93	a
	AMS	2	LB	A/A EPOST					
	Liberty	0.267	LB	A/A LPOST					
	AMS	2	LB	A/A LPOST					
7	Roundup Weathermax	22	OZ/A	EPOST	88	a 92	ab 93	a 90	a
	Roundup Weathermax	22	OZ/A	LPOST					
8	Liberty	0.267	LB	A/A EPOST	95	a 95	a 93	a 95	a
	Atrazine	2.0	QT/A	EPOST					
	AMS	2	LB	A/A EPOST					
	Liberty	0.267	LB	A/A LPOST					
	AMS	2	LB	A/A LPOST					
9	Roundup Weathermax	22	OZ/A	EPOST	95	a 95	a 93	a 95	a
	Atrazine	2.0	QT/A	EPOST					
	Roundup Weathermax	22	OZ/A	LPOST					
10	Liberty	0.267	LB	A/A EPOST	95	a 95	a 93	a 95	a
	Atrazine	1.5	QT/A	EPOST					
	AMS	2	LB	A/A EPOST					
	Liberty	0.267	LB	A/A LPOST					
	Atrazine	1	QT/A	LPOST					
	AMS	2	LB	A/A LPOST					
11	Roundup Weathermax	22	OZ/A	EPOST	95	a 95	a 93	a 95	a
	Atrazine	1.5	QT/A	EPOST					
	Roundup Weathermax	22	OZ/A	LPOST					
	Atrazine	1	QT/A	LPOST					

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Weed Code	SIDSO	SIDSO	SIDSO	IPOLA
Crop Code				
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Rating Date	5/11/05	5/25/05	7/27/05	5/11/05
Trt-Eval Interval	14 DA-B	15 DA-C	78 DA-C	14 DA-B
PRM Data Type				
# Subsamples, Dec.				

Trt	Treatment	Rate	Unit	Grow	Stg	17	18	19	20
No.	Name	Rate	Unit	Stg					
12	Liberty	0.267	LB A/A	EPOST	95	a 95	a 93	a 95	a
	Atrazine	2.0	QT/A	EPOST					
	AMS	2	LB A/A	EPOST					
13	Roundup Weathermax	22	OZ/A	EPOST	95	a 93	ab 92	ab 95	a
	Atrazine	2.0	QT/A	EPOST					
14	nontreated				0	c 0	d 0	d 0	b
LSD (P=.05)					8.2	4.6	6.1	5.3	
Bartlett's X2					3.55	2.593	7.546	3.912	
P(Bartlett's X2)					0.47	0.762	0.753	0.271	

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.

LSU Northeast Research Station

Weed Code	IPOLA	CASOB	CASOB	ZEAMX
Crop Code				
Part Rated	PLATOT P	PLATOT P	PLATOT P	GRAIN C
Rating Data Type	CONTROL	CONTROL	CONTROL	lb/plt
Rating Unit	%	%	%	14% Mst
Rating Date	7/27/05	5/25/05	7/27/05	9/2/05
Trt-Eval Interval	78 DA-C	15 DA-C	78 DA-C	
PRM Data Type				
# Subsamples, Dec.				

Trt No.	Treatment Name	Rate	Unit	Grow Stg	21	22	23	24
1	Untreated				0	e 0	d 0	c 8 e
2	Liberty AMS	0.267	LB A/A	POST	80	cd 90	c 90	ab 23 cd
3	Roundup Weathermax	22	OZ/A	POST	80	cd 92	bc 83	b 22 d
4	Liberty Atrazine AMS	0.267	LB A/A	POST	93	a 90	c 88	ab 25 abc
5	Roundup Weathermax Atrazine	22	OZ/A	POST	83	bc 90	c 83	b 22 d
6	Liberty AMS	0.267	LB A/A	EPOST	90	a 92	bc 90	ab 26 ab
7	Liberty AMS	0.267	LB A/A	LPOST				
7	Roundup Weathermax	22	OZ/A	EPOST	90	a 92	bc 92	ab 22 cd
8	Roundup Weathermax	22	OZ/A	LPOST				
8	Liberty Atrazine AMS	0.267	LB A/A	EPOST	93	a 95	a 93	a 27 a
9	Liberty AMS	0.267	LB A/A	LPOST				
9	Roundup Weathermax Atrazine	22	OZ/A	EPOST	88	ab 95	a 88	ab 25 abc
10	Roundup Weathermax	22	OZ/A	LPOST				
10	Liberty Atrazine AMS	0.267	LB A/A	EPOST	93	a 95	a 93	a 23 cd
11	Liberty Atrazine AMS	0.267	LB A/A	LPOST				
11	Roundup Weathermax Atrazine	22	OZ/A	EPOST	90	a 95	a 88	ab 25 abc
	Roundup Weathermax	22	OZ/A	LPOST				
	Atrazine	1	QT/A	LPOST				

LSU Northeast Research Station

Weed Code				IPOLA	CASOB	CASOB		ZEAMX
Crop Code								
Part Rated				PLATOT P	PLATOT P	PLATOT P	GRAIN	C
Rating Data Type				CONTROL	CONTROL	CONTROL	lb/plt	
Rating Unit				%	%	%	14% Mst	
Rating Date				7/27/05	5/25/05	7/27/05	9/2/05	
Trt-Eval Interval				78 DA-C	15 DA-C	78 DA-C		
PRM Data Type								
# Subsamples, Dec.								
Trt	Treatment	Rate	Grow					
No.	Name	Rate	Unit	Stg	21	22	23	24
12	Liberty	0.267	LB A/A	EPOST	93	a 95	a 90	ab 24
	Atrazine	2.0	QT/A	EPOST				bcd
	AMS	2	LB A/A	EPOST				
13	Roundup Weathermax	22	OZ/A	EPOST	75	d 93	ab 83	b 25
	Atrazine	2.0	QT/A	EPOST				abc
14	nontreated				0	e 0	d 0	c 8
								e
LSD (P=.05)					5.7	2.6	8.5	3.3
Bartlett's X2					2.932	0.0	3.884	19.909
P(Bartlett's X2)					0.967	1.00	0.952	0.098

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.

LSU Northeast Research Station

Weed Code
 Crop Code
 Part Rated
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval
 PRM Data Type
 # Subsamples, Dec.

Moisture
 GRAIN C
 YIELD
 BU
 9/2/05
 TY1
 0

Trt No.	Treatment Name	Rate	Unit	Grow Stg	Moisture	Yield	Significance
					25		
1	Untreated				42		e
2	Liberty	0.267	LB	A/A POST	128		cd
	AMS	2	LB	A/A POST			
3	Roundup Weathermax	22	OZ/A	POST	119		d
4	Liberty	0.267	LB	A/A POST	140		abc
	Atrazine	2.0	QT/A	POST			
	AMS	2	LB	A/A POST			
5	Roundup Weathermax	22	OZ/A	POST	120		d
	Atrazine	2.0	QT/A	POST			
6	Liberty	0.267	LB	A/A EPOST	147		ab
	AMS	2	LB	A/A EPOST			
	Liberty	0.267	LB	A/A LPOST			
	AMS	2	LB	A/A LPOST			
7	Roundup Weathermax	22	OZ/A	EPOST	123		cd
	Roundup Weathermax	22	OZ/A	LPOST			
8	Liberty	0.267	LB	A/A EPOST	151		a
	Atrazine	2.0	QT/A	EPOST			
	AMS	2	LB	A/A EPOST			
	Liberty	0.267	LB	A/A LPOST			
	AMS	2	LB	A/A LPOST			
9	Roundup Weathermax	22	OZ/A	EPOST	139		abc
	Atrazine	2.0	QT/A	EPOST			
	Roundup Weathermax	22	OZ/A	LPOST			
10	Liberty	0.267	LB	A/A EPOST	125		cd
	Atrazine	1.5	QT/A	EPOST			
	AMS	2	LB	A/A EPOST			
	Liberty	0.267	LB	A/A LPOST			
	Atrazine	1	QT/A	LPOST			
	AMS	2	LB	A/A LPOST			
11	Roundup Weathermax	22	OZ/A	EPOST	141		abc
	Atrazine	1.5	QT/A	EPOST			
	Roundup Weathermax	22	OZ/A	LPOST			
	Atrazine	1	QT/A	LPOST			

LSU Northeast Research Station

Weed Code	
Crop Code	Moisture
Part Rated	GRAIN C
Rating Data Type	YIELD
Rating Unit	BU
Rating Date	9/2/05
Trt-Eval Interval	
PRM Data Type	TY1
# Subsamples, Dec.	0

Trt	Treatment	Rate	Unit	Grow	Stg	25	
12	Liberty	0.267	LB	A/A	EPOST	131	bcd
	Atrazine	2.0	QT/A		EPOST		
	AMS	2	LB	A/A	EPOST		
13	Roundup Weathermax	22	OZ/A		EPOST	139	abc
	Atrazine	2.0	QT/A		EPOST		
14	nontreated					42	e

LSD (P=.05)	18.6
Bartlett's X2	19.907
P(Bartlett's X2)	0.098

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.
 Column 25: TY1 = 5.553346*[24]