

# LSU Northeast Research Station

## METOLACHLOR FORMULATION EFFICACY

### GENERAL TRIAL INFORMATION

Investigator: Donnie Miller  
TRIAL LOCATION: ST. JOSEPH, LA

### CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. IPOLA	Morningglory, pitted	Ipomoea lacunosa
2. IPOHG	Morningglory, entireleaf	Ipomoea hederacea integruscul
3. SEBEX	Coffeebean	Sesbania exaltata
4. AMARE	Carelessweed	Amaranthus retroflexus
5. CASOB	Sickle pod	Cassia obtusifolia
6. ELEIN	Bullgrass	Eleusine indica
7. ECHCG	Barnyardgrass, common	Echinochloa crus-galli
8. DIGSA	Crabgrass, large	Digitaria sanguinalis

Crop 1: GOSHI COTTON  
Variety: DP1645B2RF  
Planting Date: 30/Apr/2008

### SITE AND DESIGN

Plot Width, Unit: 6.67 FT  
Plot Length, Unit: 25 FT  
Reps: 4  
Study Design: RANDOMIZED COMPLETE BLOCK

### SOIL DESCRIPTION

% Sand: 50      % OM: 1  
% Silt: 28      pH: 6.5  
% Clay: 22      CEC: 12.8  
Texture: SILT LOAM

### APPLICATION DESCRIPTION

	A	B
Application Date:	22/May/2008	9/Jun/2008
Time of Day:	12:00 PM	4:15
Application Method:	SPRAY	SPRAY
Application Timing:	EAPOCR	EAPOCR
Applic. Placement:	BROFOL	BRODIR
Air Temp., Unit:	84 F	91 F
% Relative Humidity:	67	41
Wind Velocity, Unit:	9.5 MPH	9.1 MPH
Dew Presence (Y/N):	N	N
Water Hardness:	N	N
Soil Temp., Unit:	87 F	101 F
Soil Moisture:	MOIST	
% Cloud Cover:	30	30

### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GOSHI >3"	GOSHI >6"

### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	IPOLA 1-2"	IPOLA 4-5"
Weed 2 Code, Stage:	IPOHG 1-2"	IPOHG 4-5"
Weed 3 Code, Stage:	SEBEX 1-2"	SEBEX 4-5"
Weed 4 Code, Stage:	AMARE 1-2"	AMARE 4-5"
Weed 5 Code, Stage:	CASOB 1-2"	CASOB 4-5"
Weed 6 Code, Stage:	ELEIN 1-2"	ELEIN 4-5"
Weed 7 Code, Stage:	ECHCG 1-2"	ECHCG 4-5"
Weed 8 Code, Stage:	DIGSA 1-2"	DIGSA 4-5"

### APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 BCPCK	CO2 BCPCK
Operating Pressure:	34 psi	23 PSI
Nozzle Type:	DG	TK
Nozzle Size:	11002	2.5
Nozzle Spacing, Unit:	20 IN	40
Nozzles/Row:	2	1
Ground Speed, Unit:	3.2 MPH	3.2 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA

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Weed Code	CASOB	SEBEX	AMARE	ELEIN	DIGSA	ECHCG	IPOLA	IPOHG	BRAPP		
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	%	%	%	%	%	%	%	%	%	%	%
Rating Date	6/Jun/2008	6/Jun/2008	6/Jun/2008	6/Jun/2008	6/Jun/2008	6/Jun/2008	6/Jun/2008	6/Jun/2008	6/Jun/2008	6/Jun/2008	6/Jun/2008
Trt-Eval Interval	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT

ARM Action Codes  
# Subsamples, Dec.

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7	8	9	10
1	PARALLEL PCS	0.75	pt/a	A	73.75 b	77.50 b	85.00 abc	75.00 d	52.50 d	57.50 d	88.75 bc	88.75 cd	76.25 d	2.50 a
2	PARALLEL PCS	1.04	pt/a	A	90.00 ab	85.00 ab	77.50 cd	88.75 a-d	83.75 abc	82.50 abc	91.25 abc	91.25 bcd	87.50 a-d	1.25 a
3	PARALLEL PCS	1.33	pt/a	A	83.75 ab	80.00 ab	77.50 cd	77.50 d	51.25 d	76.25 bc	92.50 abc	92.50 a-d	82.50 d	0.00 a
4	DUAL MAGNUM	0.75	pt/a	A	81.25 ab	87.50 ab	82.50 a-d	81.25 cd	72.50 a-d	80.00 abc	92.50 abc	92.50 a-d	85.00 bcd	2.50 a
5	DUAL MAGNUM	1.04	pt/a	A	87.50 ab	77.50 b	78.75 bcd	82.50 bcd	60.00 cd	76.25 bc	95.00 abc	95.00 abc	83.75 cd	0.00 a
6	DUAL MAGNUM	1.33	pt/a	A	85.00 ab	81.25 ab	67.50 d	85.00 a-d	65.00 bcd	71.25 cd	87.50 c	86.25 d	82.50 d	1.25 a
7	PARALLEL PCS	1.33	pt/a	B										
	DIURON	1	pt/a	B										
8	DUAL MAGNUM	1.33	pt/a	B										
	DIURON	1	pt/a	B										
9	PARALLEL PCS	1	pt/a	A	95.00 a	96.25 ab	91.25 abc	97.50 a	95.00 ab	97.50 a	96.25 ab	96.25 abc	98.75 ab	0.00 a
	ROUNDUP WEATHERMAX	22	oz/a	A										
10	DUAL MAGNUM	1	pt/a	A	95.00 a	98.75 a	93.75 ab	96.25 ab	96.25 a	95.00 a	97.50 a	98.75 ab	97.50 abc	0.00 a
	ROUNDUP WEATHERMAX	22	oz/a	A										
11	PARALLEL PCS	1.33	pt/a	A	92.50 a	90.00 ab	91.25 abc	95.00 abc	90.00 abc	93.75 ab	95.00 abc	97.50 ab	97.50 abc	0.00 a
	ROUNDUP WEATHERMAX	22	oz/a	A										
12	DUAL MAGNUM	1.33	pt/a	A	96.25 a	97.50 a	95.00 a	98.75 a	97.50 a	95.00 a	98.75 a	100.00 a	100.00 a	0.00 a
	ROUNDUP WEATHERMAX	22	oz/a	A										
13	NONTREATED				0.00 c	0.00 c	0.00 e	0.00 e	0.00 e	0.00 e	0.00 d	0.00 e	0.00 e	0.00 a
LSD (P=.05)					16.285	18.893	15.642	13.910	31.078	17.924	8.308	7.722	14.423	3.499
Standard Deviation					11.278	13.085	10.833	9.633	21.523	12.413	5.754	5.348	9.989	2.423
CV					14.1	16.52	14.19	12.08	31.0	16.55	6.77	6.27	12.33	355.38
Grand Mean					80.0	79.2	76.36	79.77	69.43	75.0	85.0	85.34	81.02	0.68
Bartlett's X2					18.533	24.944	13.005	34.95	31.295	25.408	5.988	7.42	36.259	2.595
P(Bartlett's X2)					0.029*	0.003*	0.162	0.001*	0.001*	0.003*	0.649	0.386	0.001*	0.458
Replicate F					1.465	0.720	0.439	0.237	0.240	0.816	0.320	0.126	0.795	0.645
Replicate Prob(F)					0.2438	0.5478	0.7268	0.8700	0.8678	0.4951	0.8106	0.9441	0.5061	0.5921
Treatment F					23.605	17.546	24.281	33.132	7.205	19.956	97.490	114.521	31.569	0.716
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.7028

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	CASOB	SEBEX	AMARE	ELEIN	DIGSA	ECHCG	IPOLA	IPOHG	BRAPP
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%	%	%
Rating Date	19/Jun/2008	19/Jun/2008	19/Jun/2008	19/Jun/2008	19/Jun/2008	19/Jun/2008	19/Jun/2008	19/Jun/2008	19/Jun/2008
Trt-Eval Interval	28 DAT	28 DAT	28 DAT	28 DAT	28 DAT	28 DAT	28 DAT	28 DAT	28 DAT

ARM Action Codes  
# Subsamples, Dec.

Trt No.	Treatment Name	Rate	Unit	Appl Code	11	12	13	14	15	16	17	18	19
1	PARALLEL PCS	0.75	pt/a	A	73.75 b	83.75 ab	66.25 abc	86.25 ab	37.50 bc	83.75 ab	100.00 a	77.50 b	80.00 c
2	PARALLEL PCS	1.04	pt/a	A	87.50 ab	81.25 ab	61.25 bc	82.50 ab	51.25 ab	75.00 b	100.00 a	100.00 a	90.00 abc
3	PARALLEL PCS	1.33	pt/a	A	92.50 a	83.75 ab	72.50 abc	87.50 ab	41.25 bc	81.25 ab	100.00 a	100.00 a	85.00 c
4	DUAL MAGNUM	0.75	pt/a	A	82.04 ab	88.96 ab	89.83 a	78.42 b	45.92 b	79.17 ab	99.71 a	100.00 a	87.88 bc
5	DUAL MAGNUM	1.04	pt/a	A	77.50 b	73.75 b	81.25 ab	87.50 ab	32.50 bc	75.00 b	100.00 a	98.75 a	90.00 abc
6	DUAL MAGNUM	1.33	pt/a	A	75.00 b	76.25 ab	57.50 c	82.50 ab	36.25 bc	75.00 b	100.00 a	98.75 a	78.75 c
7	PARALLEL PCS	1.33	pt/a	B									
	DIURON	1	pt/a	B									
8	DUAL MAGNUM	1.33	pt/a	B									
	DIURON	1	pt/a	B									
9	PARALLEL PCS	1	pt/a	A	83.75 ab	92.50 a	72.50 abc	92.50 a	92.50 a	88.75 a	96.25 a	95.00 ab	98.75 ab
	ROUNDUP WEATHERMAX	22	oz/a	A									
10	DUAL MAGNUM	1	pt/a	A	87.50 ab	93.75 a	81.25 ab	91.25 a	90.00 a	86.25 a	95.00 a	96.25 ab	98.75 ab
	ROUNDUP WEATHERMAX	22	oz/a	A									
11	PARALLEL PCS	1.33	pt/a	A	78.75 ab	73.75 b	82.50 ab	90.00 ab	88.75 a	82.50 ab	96.25 a	98.75 a	97.50 ab
	ROUNDUP WEATHERMAX	22	oz/a	A									
12	DUAL MAGNUM	1.33	pt/a	A	87.50 ab	92.50 a	85.00 a	92.50 a	92.50 a	87.50 a	96.25 a	100.00 a	100.00 a
	ROUNDUP WEATHERMAX	22	oz/a	A									
13	NONTREATED				0.00 c	0.00 c	0.00 d	0.00 c	0.00 c	0.00 c	0.00 b	0.00 c	0.00 d
LSD (P=.05)					13.982	18.717	23.663	12.656	41.334	10.692	5.888	19.865	11.742
Standard Deviation					9.669	12.944	16.364	8.752	28.585	7.394	4.072	13.737	8.120
CV					12.88	16.95	24.01	11.05	51.68	9.99	4.55	15.66	9.85
Grand Mean					75.07	76.38	68.17	79.17	55.31	74.02	89.41	87.73	82.42
Bartlett's X2					12.376	6.137	27.189	15.523	22.042	9.965	0.703	42.977	19.123
P(Bartlett's X2)					0.193	0.726	0.001*	0.078	0.009*	0.353	0.873	0.001*	0.014*
Replicate F					4.058	2.177	1.124	2.753	0.929	1.917	1.536	1.550	2.039
Replicate Prob(F)					0.0159	0.1122	0.3555	0.0605	0.4394	0.1490	0.2263	0.2229	0.1303
Treatment F					28.014	16.617	9.187	37.064	4.724	45.910	213.064	18.850	48.736
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0005	0.0001	0.0001	0.0001	0.0001

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Weed Code		CASOB	SEBEX	AMARE	ELEIN	DIGSA	ECHCG	IPOLA	IPOHG
Crop Code		GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%	%	%	%	%	%
Rating Date		19/Jun/2008	23/Jun/2008	23/Jun/2008	23/Jun/2008	23/Jun/2008	23/Jun/2008	23/Jun/2008	23/Jun/2008
Trt-Eval Interval		28 DAT	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
ARM Action Codes									
# Subsamples, Dec.									

Trt	Treatment	Rate	Rate Unit	Appl Code	20	21	22	23	24	25	26	27	28
1	PARALLEL PCS	0.75	pt/a	A	0.00 a								
2	PARALLEL PCS	1.04	pt/a	A	0.00 a								
3	PARALLEL PCS	1.33	pt/a	A	0.00 a								
4	DUAL MAGNUM	0.75	pt/a	A	0.00 a								
5	DUAL MAGNUM	1.04	pt/a	A	0.00 a								
6	DUAL MAGNUM	1.33	pt/a	A	0.00 a								
7	PARALLEL PCS	1.33	pt/a	B		100.00 a	100.00 a	100.00 a	63.75 a	92.50 a	91.25 a	100.00 a	100.00 a
	DIURON	1	pt/a	B									
8	DUAL MAGNUM	1.33	pt/a	B		100.00 a	100.00 a	100.00 a	66.25 a	81.25 a	66.25 a	100.00 a	100.00 a
	DIURON	1	pt/a	B									
9	PARALLEL PCS	1	pt/a	A	0.00 a								
	ROUNDUP WEATHERMAX	22	oz/a	A									
10	DUAL MAGNUM	1	pt/a	A	0.00 a								
	ROUNDUP WEATHERMAX	22	oz/a	A									
11	PARALLEL PCS	1.33	pt/a	A	0.00 a								
	ROUNDUP WEATHERMAX	22	oz/a	A									
12	DUAL MAGNUM	1.33	pt/a	A	0.00 a								
	ROUNDUP WEATHERMAX	22	oz/a	A									
13	NONTREATED				0.00 a								
LSD (P=.05)					0.000	0.000	0.000	0.000	40.302	24.626	44.529	0.000	0.000
Standard Deviation					0.000	0.000	0.000	0.000	17.912	10.945	19.791	0.000	0.000
CV					0.0	0.0	0.0	0.0	27.56	12.6	25.13	0.0	0.0
Grand Mean					0.0	100.0	100.0	100.0	65.0	86.88	78.75	100.0	100.0
Bartlett's X2					0.0	0.0	0.0	0.0	3.782	0.626	2.783	0.0	0.0
P(Bartlett's X2)					.	.	.	.	0.052	0.429	0.095	.	.
Replicate F					0.000	0.000	0.000	0.000	1.325	0.235	0.309	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	0.4114	0.8676	0.8200	1.0000	1.0000
Treatment F					0.000	0.000	0.000	0.000	0.039	2.113	3.191	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	0.8561	0.2420	0.1720	1.0000	1.0000

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Weed Code	BRAPP	GOSHI	CASOB	SEBEX	AMARE	ELEIN	DIGSA	ECHCG	IPOLA	IPOHG			
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI			
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%	%	%	%	%			
Rating Date	23/Jun/2008	23/Jun/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008			
Trt-Eval Interval	14 DA-B	14 DA-B	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A			
ARM Action Codes			28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B			
# Subsamples, Dec.													
Trt Treatment													
No. Name	Rate	Unit	Appl Code	29	30	31	32	33	34	35	36	37	38
1 PARALLEL PCS	0.75	pt/a	A			73.75 bc	85.00 abc	62.50 bc	81.25 ab	36.25 b	58.75 abc	95.00 ab	95.00 ab
2 PARALLEL PCS	1.04	pt/a	A			86.25 ab	73.75 bcd	46.25 c	70.00 bc	43.75 b	42.50 c	95.00 ab	95.00 ab
3 PARALLEL PCS	1.33	pt/a	A			87.50 ab	82.50 abc	62.50 bc	82.50 ab	42.50 b	71.25 abc	93.75 b	93.75 b
4 DUAL MAGNUM	0.75	pt/a	A			67.50 c	67.50 cd	72.50 bc	70.00 bc	31.25 b	45.00 bc	92.50 b	92.50 b
5 DUAL MAGNUM	1.04	pt/a	A			81.25 bc	62.50 d	76.25 ab	88.75 a	20.00 bc	60.00 abc	95.00 ab	95.00 ab
6 DUAL MAGNUM	1.33	pt/a	A			83.75 b	70.00 bcd	58.75 bc	91.25 a	32.50 b	50.00 abc	95.00 ab	95.00 ab
7 PARALLEL PCS	1.33	pt/a	B	100.00 a	12.50 a	100.00 a	100.00 a	100.00 a	46.25 d	93.75 a	60.00 abc	100.00 a	100.00 a
DIURON	1	pt/a	B										
8 DUAL MAGNUM	1.33	pt/a	B	100.00 a	17.50 a	98.75 a	100.00 a	100.00 a	55.00 cd	88.75 a	41.25 c	100.00 a	100.00 a
DIURON	1	pt/a	B										
9 PARALLEL PCS	1	pt/a	A			77.50 bc	83.75 abc	62.50 bc	87.50 a	86.25 a	75.00 ab	92.50 b	92.50 b
ROUNDUP WEATHERMAX	22	oz/a	A										
10 DUAL MAGNUM	1	pt/a	A			77.50 bc	83.75 abc	73.75 ab	83.75 ab	90.00 a	68.75 abc	91.25 b	91.25 b
ROUNDUP WEATHERMAX	22	oz/a	A										
11 PARALLEL PCS	1.33	pt/a	A			73.75 bc	70.00 bcd	72.50 bc	90.00 a	85.00 a	63.75 abc	96.25 ab	96.25 ab
ROUNDUP WEATHERMAX	22	oz/a	A										
12 DUAL MAGNUM	1.33	pt/a	A			80.00 bc	86.25 ab	76.25 ab	83.75 ab	91.25 a	77.50 a	96.25 ab	96.25 ab
ROUNDUP WEATHERMAX	22	oz/a	A										
13 NONTREATED						0.00 d	0.00 e	0.00 d	0.00 e	0.00 c	0.00 d	0.00 c	0.00 c
LSD (P=.05)				0.000	6.495	13.799	17.787	26.709	17.404	30.217	31.629	5.117	5.117
Standard Deviation				0.000	2.887	9.656	12.446	18.690	12.179	21.144	22.133	3.581	3.581
CV				0.0	19.25	12.71	16.77	28.13	17.02	37.08	40.31	4.07	4.07
Grand Mean				100.0	15.0	75.96	74.23	66.44	71.54	57.02	54.9	87.88	87.88
Bartlett's X2				0.0	0.0	14.989	5.606	20.011	22.304	31.416	15.026	9.071	9.071
P(Bartlett's X2)				.	1.00	0.132	0.779	0.018*	0.022*	0.001*	0.181	0.106	0.106
Replicate F				0.000	1.000	2.702	3.492	1.664	0.838	0.176	0.278	1.650	1.650
Replicate Prob(F)				1.0000	0.5000	0.0599	0.0253	0.1920	0.4817	0.9120	0.8406	0.1950	0.1950
Treatment F				0.000	6.000	26.087	16.283	7.157	17.594	9.661	3.399	219.650	219.650
Treatment Prob(F)				1.0000	0.0917	0.0001	0.0001	0.0001	0.0001	0.0001	0.0022	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)  
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Weed Code	BRAPP		CASOB		SEBEX		AMARE		ELEIN		DIGSA		ECHCG		IPOLA		IPOHG	
Crop Code	GOSHI		GOSHI		GOSHI		GOSHI		GOSHI		GOSHI		GOSHI		GOSHI		GOSHI	
Rating Data Type	CONTROL		INJURY		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL	
Rating Unit	%		%		%		%		%		%		%		%		%	
Rating Date	7/Jul/2008		7/Jul/2008		21/Jul/2008		21/Jul/2008		21/Jul/2008		21/Jul/2008		21/Jul/2008		21/Jul/2008		21/Jul/2008	
Trt-Eval Interval	45 DA-A		45 DA-A		60 DA-A		60 DA-A		60 DA-A		60 DA-A		60 DA-A		60 DA-A		60 DA-A	
ARM Action Codes	28 DA-B		28 DA-B															
# Subsamples, Dec.																		
Trt	Treatment																	
No.	Name	Rate	Unit	Appl Code	39	40	41	42	43	44	45	46	47	48				
1	PARALLEL PCS	0.75	pt/a	A	88.75 c	0.00 b	77.50 a	87.50 a	66.25 ab	77.50 ab	28.75 bc	66.25 ab	90.00 ab	90.00 ab				
2	PARALLEL PCS	1.04	pt/a	A	95.00 ab	0.00 b	72.50 a	60.00 b	45.00 b	80.00 ab	32.50 b	46.25 c	90.00 ab	90.00 ab				
3	PARALLEL PCS	1.33	pt/a	A	95.00 ab	0.00 b	78.75 a	68.75 ab	63.75 ab	77.50 ab	28.75 bc	67.50 ab	88.75 ab	88.75 ab				
4	DUAL MAGNUM	0.75	pt/a	A	95.00 ab	0.00 b	72.50 a	71.25 ab	67.50 ab	68.75 b	26.25 bc	67.50 ab	90.00 ab	90.00 ab				
5	DUAL MAGNUM	1.04	pt/a	A	95.00 ab	0.00 b	81.25 a	68.75 ab	80.00 a	81.25 a	11.25 bc	58.75 bc	90.00 ab	90.00 ab				
6	DUAL MAGNUM	1.33	pt/a	A	95.00 ab	0.00 b	75.00 a	67.50 ab	51.25 b	80.00 ab	25.00 bc	65.00 ab	90.00 ab	90.00 ab				
7	PARALLEL PCS	1.33	pt/a	B	100.00 a	2.50 a												
	DIURON	1	pt/a	B														
8	DUAL MAGNUM	1.33	pt/a	B	100.00 a	0.00 b												
	DIURON	1	pt/a	B														
9	PARALLEL PCS	1	pt/a	A	93.75 bc	0.00 b	67.50 a	75.00 ab	66.25 ab	83.75 a	90.00 a	80.00 a	90.00 ab	90.00 ab				
	ROUNDUP WEATHERMAX	22	oz/a	A														
10	DUAL MAGNUM	1	pt/a	A	95.00 ab	0.00 b	75.00 a	77.50 ab	61.25 ab	83.75 a	76.25 a	62.50 abc	87.50 b	87.50 b				
	ROUNDUP WEATHERMAX	22	oz/a	A														
11	PARALLEL PCS	1.33	pt/a	A	95.00 ab	0.00 b	68.75 a	61.25 b	66.25 ab	83.75 a	82.50 a	67.50 ab	90.00 ab	90.00 ab				
	ROUNDUP WEATHERMAX	22	oz/a	A														
12	DUAL MAGNUM	1.33	pt/a	A	96.25 ab	0.00 b	71.25 a	78.75 ab	68.75 ab	81.25 a	86.25 a	77.50 a	91.25 a	91.25 a				
	ROUNDUP WEATHERMAX	22	oz/a	A														
13	NONTREATED				0.00 d	0.00 b	0.00 b	0.00 c	0.00 c	0.00 c	0.00 c	0.00 d	0.00 c	0.00 c				
LSD (P=.05)					5.165	1.144	17.455	20.618	28.231	12.162	32.288	18.586	3.289	3.289				
Standard Deviation					3.614	0.801	12.089	14.279	19.552	8.423	22.362	12.872	2.278	2.278				
CV					4.11	416.33	17.97	21.93	33.8	11.62	50.46	21.49	2.79	2.79				
Grand Mean					87.98	0.19	67.27	65.11	57.84	72.5	44.32	59.89	81.59	81.59				
Bartlett's X2					9.893	0.0	17.792	7.804	14.994	19.291	22.155	2.727	2.109	2.109				
P(Bartlett's X2)					0.007*	.	0.038*	0.554	0.091	0.007*	0.008*	0.974	0.55	0.55				
Replicate F					0.920	1.000	0.321	2.291	1.123	0.865	0.074	0.324	0.438	0.438				
Replicate Prob(F)					0.4409	0.4040	0.8098	0.0983	0.3553	0.4700	0.9734	0.8083	0.7275	0.7275				
Treatment F					216.337	3.000	14.095	10.375	4.725	33.634	8.563	11.433	565.117	565.117				
Treatment Prob(F)					0.0001	0.0053	0.0001	0.0001	0.0004	0.0001	0.0001	0.0001	0.0001	0.0001				

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	BRAPP	CASOB	SEBEX	AMARE	ELEIN	DIGSA	ECHCG	IPOLA	IPOH				
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI				
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit	%	%	%	%	%	%	%	%	%				
Rating Date	21/Jul/2008	21/Jul/2008	24/Jul/2008	24/Jul/2008	24/Jul/2008	24/Jul/2008	24/Jul/2008	24/Jul/2008	24/Jul/2008				
Trt-Eval Interval	60 DA-A	60 DA-A	45 DA-B	45 DA-B	45 DA-B	45 DA-B	45 DA-B	45 DA-B	45 DA-B				
ARM Action Codes													
# Subsamples, Dec.													
Trt Treatment													
No. Name	Rate	Unit	Appl Code	49	50	51	52	53	54	55	56	57	58
1 PARALLEL PCS	0.75	pt/a	A	90.00 a	0.00 a								
2 PARALLEL PCS	1.04	pt/a	A	90.00 a	0.00 a								
3 PARALLEL PCS	1.33	pt/a	A	90.00 a	0.00 a								
4 DUAL MAGNUM	0.75	pt/a	A	90.00 a	0.00 a								
5 DUAL MAGNUM	1.04	pt/a	A	90.00 a	0.00 a								
6 DUAL MAGNUM	1.33	pt/a	A	90.00 a	0.00 a								
7 PARALLEL PCS	1.33	pt/a	B			100.00 a	100.00 a	100.00 a	50.00 a	87.50 a	57.50 a	100.00 a	100.00 a
DIURON	1	pt/a	B										
8 DUAL MAGNUM	1.33	pt/a	B			100.00 a	100.00 a	100.00 a	72.50 a	80.00 a	37.50 a	97.50 a	97.50 a
DIURON	1	pt/a	B										
9 PARALLEL PCS	1	pt/a	A	91.25 a	0.00 a								
ROUNDUP WEATHERMAX	22	oz/a	A										
10 DUAL MAGNUM	1	pt/a	A	90.00 a	0.00 a								
ROUNDUP WEATHERMAX	22	oz/a	A										
11 PARALLEL PCS	1.33	pt/a	A	90.00 a	0.00 a								
ROUNDUP WEATHERMAX	22	oz/a	A										
12 DUAL MAGNUM	1.33	pt/a	A	91.25 a	0.00 a								
ROUNDUP WEATHERMAX	22	oz/a	A										
13 NONTREATED				0.00 b	0.00 a								
LSD (P=.05)				1.565	0.000	0.000	0.000	0.000	41.335	18.937	87.143	7.955	7.955
Standard Deviation				1.084	0.000	0.000	0.000	0.000	18.371	8.416	38.730	3.536	3.536
CV				1.32	0.0	0.0	0.0	0.0	29.99	10.05	81.54	3.58	3.58
Grand Mean				82.05	0.0	100.0	100.0	100.0	61.25	83.75	47.5	98.75	98.75
Bartlett's X2				0.0	0.0	0.0	0.0	0.0	1.216	0.034	0.085	0.0	0.0
P(Bartlett's X2)				1.00	.	.	.	.	0.27	0.854	0.771	.	.
Replicate F				0.645	0.000	0.000	0.000	0.000	1.000	4.529	0.322	1.000	1.000
Replicate Prob(F)				0.5921	1.0000	1.0000	1.0000	1.0000	0.5000	0.1232	0.8114	0.5000	0.5000
Treatment F				2523.194	0.000	0.000	0.000	0.000	3.000	1.588	0.533	1.000	1.000
Treatment Prob(F)				0.0001	1.0000	1.0000	1.0000	1.0000	0.1817	0.2967	0.5181	0.3910	0.3910

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	BRAPP		CASOB	SEBEX	AMARE	ELEIN	DIGSA	ECHCG	IPOLA	IPOHG
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%	%	%	%
Rating Date	24/Jul/2008	24/Jul/2008	8/Aug/2008	8/Aug/2008	8/Aug/2008	8/Aug/2008	8/Aug/2008	8/Aug/2008	8/Aug/2008	8/Aug/2008
Trt-Eval Interval	45 DA-B	45 DA-B	60 DA-B	60 DA-B	60 DA-B	60 DA-B	60 DA-B	60 DA-B	60 DA-B	60 DA-B

ARM Action Codes  
# Subsamples, Dec.

Trt	Treatment	Rate	Rate Unit	Appl Code	59	60	61	62	63	64	65	66	67	68
1	PARALLEL PCS	0.75	pt/a	A										
2	PARALLEL PCS	1.04	pt/a	A										
3	PARALLEL PCS	1.33	pt/a	A										
4	DUAL MAGNUM	0.75	pt/a	A										
5	DUAL MAGNUM	1.04	pt/a	A										
6	DUAL MAGNUM	1.33	pt/a	A										
7	PARALLEL PCS	1.33	pt/a	B	100.00 a	0.00 a	100.00 a	100.00 a	100.00 a	63.75 a	55.00 a	51.25 a	100.00 a	100.00 a
	DIURON	1	pt/a	B										
8	DUAL MAGNUM	1.33	pt/a	B	100.00 a	0.00 a	100.00 a	100.00 a	98.75 a	81.25 a	48.75 a	35.00 a	100.00 a	100.00 a
	DIURON	1	pt/a	B										
9	PARALLEL PCS	1	pt/a	A										
	ROUNDUP WEATHERMAX	22	oz/a	A										
10	DUAL MAGNUM	1	pt/a	A										
	ROUNDUP WEATHERMAX	22	oz/a	A										
11	PARALLEL PCS	1.33	pt/a	A										
	ROUNDUP WEATHERMAX	22	oz/a	A										
12	DUAL MAGNUM	1.33	pt/a	A										
	ROUNDUP WEATHERMAX	22	oz/a	A										
13	NONTREATED													
LSD (P=.05)		0.000			0.000	0.000	0.000	0.000	3.978	49.253	43.753	48.334	0.000	0.000
Standard Deviation		0.000			0.000	0.000	0.000	0.000	1.768	21.890	19.445	21.482	0.000	0.000
CV		0.0			0.0	0.0	0.0	0.0	1.78	30.19	37.49	49.81	0.0	0.0
Grand Mean		100.0			0.0	100.0	100.0	100.0	99.38	72.5	51.88	43.13	100.0	100.0
Bartlett's X2		0.0			0.0	0.0	0.0	0.0	0.0	7.036	0.157	0.468	0.0	0.0
P(Bartlett's X2)		.			.	.	.	.	.	0.008*	0.692	0.494	.	.
Replicate F		0.000			0.000	0.000	0.000	0.000	1.000	1.009	0.868	0.169	0.000	0.000
Replicate Prob(F)		1.0000			1.0000	1.0000	1.0000	1.0000	0.5000	0.4972	0.5450	0.9106	1.0000	1.0000
Treatment F		0.000			0.000	0.000	0.000	0.000	1.000	1.278	0.207	1.144	0.000	0.000
Treatment Prob(F)		1.0000			1.0000	1.0000	1.0000	1.0000	0.3910	0.3404	0.6803	0.3631	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)  
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# LSU Northeast Research Station

Weed Code	BRAPP			
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI
Rating Data Type	CONTROL	INJURY	YIELD	YIELD
Rating Unit	%	%	LB	LB/A
Rating Date	8/Aug/2008	8/Aug/2008	16/Oct/2008	16/Oct/2008
Trt-Eval Interval	60 DA-B	60 DA-B		
ARM Action Codes				TY1
# Subsamples, Dec.				1

Trt Treatment	Rate	Rate Unit	Appl Code	69	70	71	72
1 PARALLEL PCS	0.75	pt/a	A			0.63 a-d	163.3 a-d
2 PARALLEL PCS	1.04	pt/a	A			0.08 cd	20.9 cd
3 PARALLEL PCS	1.33	pt/a	A			0.38 bcd	99.3 bcd
4 DUAL MAGNUM	0.75	pt/a	A			0.69 a-d	178.9 a-d
5 DUAL MAGNUM	1.04	pt/a	A			0.00 d	0.0 d
6 DUAL MAGNUM	1.33	pt/a	A			0.00 d	0.0 d
7 PARALLEL PCS	1.33	pt/a	B	100.00 a	0.00 a	1.60 a	418.0 a
DIURON	1	pt/a	B				
8 DUAL MAGNUM	1.33	pt/a	B	100.00 a	0.00 a	1.08 abc	282.1 abc
DIURON	1	pt/a	B				
9 PARALLEL PCS	1	pt/a	A			1.43 ab	373.6 ab
ROUNDUP WEATHERMAX	22	oz/a	A				
10 DUAL MAGNUM	1	pt/a	A			0.83 a-d	215.5 a-d
ROUNDUP WEATHERMAX	22	oz/a	A				
11 PARALLEL PCS	1.33	pt/a	A			1.14 abc	296.5 abc
ROUNDUP WEATHERMAX	22	oz/a	A				
12 DUAL MAGNUM	1.33	pt/a	A			1.60 a	418.0 a
ROUNDUP WEATHERMAX	22	oz/a	A				
13 NONTREATED						0.32 cd	83.6 cd
LSD (P=.05)				0.000	0.000	1.060	276.96
Standard Deviation				0.000	0.000	0.742	193.81
CV				0.0	0.0	98.82	98.82
Grand Mean				100.0	0.0	0.75	196.12
Bartlett's X2				0.0	0.0	12.027	12.027
P(Bartlett's X2)				.	.	0.283	0.283
Replicate F				0.000	0.000	0.801	0.801
Replicate Prob(F)				1.0000	1.0000	0.5015	0.5015
Treatment F				0.000	0.000	2.474	2.474
Treatment Prob(F)				1.0000	1.0000	0.0178	0.0178

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 Column 72: TY1 = 261.2294\*[71]