

LSU Northeast Research Station

EVALUATE THE ADVANTAGES OF PPI AND PRE HERBICIDES IN A COMPLETE WEED CONTROL PROGRAM BETWEEN LL AND RRF SYSTEM

GENERAL TRIAL INFORMATION

Study Director: BAYER CROP SCIENCE
Investigator: Donnie Miller
TRIAL LOCATION: ST JOSEPH, LA

CROP AND WEED DESCRIPTION

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

Crop 1: GOSHI COTTON
Variety: DP 164 B2RF & FM1735LLB2
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	C	D
Application Date:	1/May/2008	26/May/2008	12/Jun/2008	15/Jul/2008
Time of Day:	10:00 AM	1:05 PM	9:30 AM	10:00 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PREPRE	EAPOCR	POSPOS	LAPOCR
Applic. Placement:	BROSIO	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	75 F	88 F	84 F	86 F
% Relative Humidity:	57	56	67	46
Wind Velocity, Unit:	13.1 MPH	8.1 MPH	8.2 MPH	2.3 MPH
Dew Presence (Y/N):	N	N	N	N
Water Hardness:	N	N	N	N
Soil Temp., Unit:	74 F	91 F	88 F	82 F
Soil Moisture:	DRY	DRY	DRY	MOIST
% Cloud Cover:	70	30	50	30

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GOSHI N/A	GOSHI 2-3LF	GOSHI 9 LF	GOSHI 14-16 LF

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	CASOB N/A	CASOB 2-5"	CASOB 4-5"	CASOB
Weed 2 Code, Stage:	AMARE N/A	AMARE 2-5"	AMARE 4-5"	AMARE
Weed 3 Code, Stage:	SEBEX N/A	SEBEX 2-5"	SEBEX 4-5"	SEBEX
Weed 4 Code, Stage:	IPOLA N/A	IPOLA 2-5"	IPOLA 4-5"	IPOLA
Weed 5 Code, Stage:	IPOHG N/A	IPOHG 2-5"	IPOHG 4-5"	IPOHG
Weed 6 Code, Stage:	DIGSA N/A	DIGSA 2-5"	DIGSA 4-5"	DIGSA
Weed 7 Code, Stage:	ECHCG N/A	ECHCG 2-5"	ECHCG 4-5"	ECHCG

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	CO2 BCPCCK	CO2 BCPCCK	CO2 BCPCCK	CO2 BCPCCK
Operating Pressure:	34 psi	34 psi	34 psi	34 psi
Nozzle Type:	DG	DG	DG	DG
Nozzle Size:	11002	11002	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN
Nozzles/Row:	2	2	2	2
Ground Speed, Unit:	3.2 MPH	3.2 MPH	3.2 MPH	3.2 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA

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Weed Code	ECHCG	AMARE	CASOB	SEBEX	IPOLA	IPOHG	ELEIN	DIGSA		ECHCG
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	%	%	%	%	%	%	%	%	%	%
Rating Date	2/Jun/2008	2/Jun/2008	2/Jun/2008	2/Jun/2008	2/Jun/2008	2/Jun/2008	2/Jun/2008	2/Jun/2008	2/Jun/2008	9/Jun/2008
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	14 DA-B

ARM Action Codes
Subsamples, Dec.

Trt	Treatment	Rate	Rate Unit	Appl Code	1	2	3	4	5	6	7	8	9	10
1	IGNITE	22	oz/a	BCD	91.25 d	92.50 b	97.50 ab	100.00 a	100.00 a	100.00 a	91.25 de	91.25 d	1.25 de	95.00 abc
2	IGNITE	29	oz/a	BCD	92.50 cd	100.00 a	96.25 b	100.00 a	100.00 a	100.00 a	92.50 cde	92.50 cd	8.33 b-e	90.00 cd
3	PROWL H2O	2	pt/a	A	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	0.00 e	100.00 a
	COTORAN	2.4	pt/a	A										
	IGNITE	22	oz/a	BCD										
4	PROWL H2O	2	pt/a	A	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	0.00 e	97.50 ab
	COTORAN	2.4	pt/a	A										
	IGNITE	29	oz/a	BCD										
5	IGNITE	43	oz/a	B	91.25 d	100.00 a	100.00 a	100.00 a	77.50 b	100.00 a	90.00 de	91.25 d	21.25 a	95.00 abc
	IGNITE	29	oz/a	C										
6	PROWL H2O	2	pt/a	A	97.50 ab	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	97.50 ab	97.50 ab	7.50 cde	98.75 ab
	COTORAN	2.4	pt/a	A										
	IGNITE	43	oz/a	B										
	IGNITE	29	oz/a	C										
7	IGNITE	22	oz/a	B	91.25 d	98.75 a	100.00 a	100.00 a	100.00 a	100.00 a	88.75 e	91.25 d	16.67 abc	93.75 bc
	DUAL MAGNUM	16	oz/a	B										
	IGNITE	22	oz/a	CD										
8	IGNITE	22	oz/a	B	85.45 e	99.83 a	96.84 b	99.97 a	98.19 a	100.00 a	83.61 f	85.45 e	12.50 a-d	86.98 d
	STAPLE LX	2	oz/a	B										
	IGNITE	22	oz/a	CD										
9	ROUNDUP WEATHERMAX	22	oz/a	BCD	96.25 abc	100.00 a	90.00 c	86.25 b	97.50 a	95.00 b	96.25 abc	96.25 abc	20.00 ab	93.75 bc
10	PROWL H2O	2	pt/a	A	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	16.25 abc	98.75 ab
	COTORAN	2.4	pt/a	A										
	ROUNDUP WEATHERMAX	22	oz/a	BCD										
11	IGNITE	43	oz/a	B	93.75 bcd	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	93.75 bcd	93.75 bcd	13.33 abc	96.25 ab
	IGNITE	43	oz/a	C										
12	PROWL H2O	2	pt/a	A	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	0.00 e	100.00 a
	COTORAN	2.4	pt/a	A										
	IGNITE	43	oz/a	B										
	IGNITE	43	oz/a	C										
13	NONTREATED				0.00 f	0.00 c	0.00 d	0.00 c	0.00 c	0.00 c	0.00 g	0.00 f	0.00 e	0.00 e
LSD (P=.05)					4.868	3.705	3.037	1.945	18.312	2.345	4.688	4.868	11.838	5.248
Standard Deviation					3.371	2.566	2.103	1.347	12.682	1.624	3.247	3.371	8.175	3.635
CV					3.85	2.8	2.32	1.48	14.05	1.77	3.72	3.85	90.76	4.12
Grand Mean					87.63	91.62	90.81	91.25	90.25	91.92	87.2	87.63	9.01	88.13
Bartlett's X2					3.131	3.728	1.005	0.0	12.189	0.0	3.681	3.131	18.345	8.85
P(Bartlett's X2)					0.873	0.053	0.80	.	0.001*	.	0.816	0.873	0.019*	0.264
Replicate F					2.887	0.691	0.448	0.969	1.057	0.972	2.327	2.887	1.111	0.611
Replicate Prob(F)					0.0493	0.5636	0.7206	0.4185	0.3799	0.4168	0.0915	0.0493	0.3613	0.6121
Treatment F					251.304	462.959	680.647	1689.221	19.230	1159.861	270.574	251.304	3.992	216.760
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0012	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.

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Weed Code	AMARE	CASOB	SEBEX	IPOLA	IPOHG	ELEIN	DIGSA		ECHCG	AMARE		
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI		
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL		
Rating Unit	%	%	%	%	%	%	%	%	%	%		
Rating Date	9/Jun/2008	9/Jun/2008	9/Jun/2008	9/Jun/2008	9/Jun/2008	9/Jun/2008	9/Jun/2008	9/Jun/2008	9/Jun/2008	19/Jun/2008		
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	7 DA-C		
ARM Action Codes												
# Subsamples, Dec.												
Trt Treatment												
No. Name	Rate	Appl Code	11	12	13	14	15	16	17	18	19	20
1 IGNITE	22 oz/a	BCD	92.50 b	86.25 b	96.25 ab	98.75 ab	100.00 a	87.50 bc	87.50 cd	1.25 a	100.00 a	97.50 b
2 IGNITE	29 oz/a	BCD	98.75 a	90.00 ab	98.75 a	97.50 ab	100.00 a	85.00 c	88.75 bcd	5.00 a	100.00 a	100.00 a
3 PROWL H2O	2 pt/a	A	100.00 a	93.75 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	3.75 a	100.00 a	100.00 a
COTORAN	2.4 pt/a	A										
IGNITE	22 oz/a	BCD										
4 PROWL H2O	2 pt/a	A	100.00 a	92.50 ab	100.00 a	98.75 ab	100.00 a	98.75 a	97.50 abc	1.67 a	100.00 a	100.00 a
COTORAN	2.4 pt/a	A										
IGNITE	29 oz/a	BCD										
5 IGNITE	43 oz/a	B	95.00 ab	90.00 ab	97.50 a	97.50 ab	100.00 a	85.00 c	85.00 d	7.50 a	100.00 a	100.00 a
IGNITE	29 oz/a	C										
6 PROWL H2O	2 pt/a	A	100.00 a	87.50 ab	100.00 a	98.75 ab	100.00 a	98.75 a	95.00 a-d	2.50 a	100.00 a	100.00 a
COTORAN	2.4 pt/a	A										
IGNITE	43 oz/a	B										
IGNITE	29 oz/a	C										
7 IGNITE	22 oz/a	B	97.50 ab	88.75 ab	98.75 a	97.50 ab	98.75 a	82.50 cd	88.75 bcd	8.33 a	100.00 a	100.00 a
DUAL MAGNUM	16 oz/a	B										
IGNITE	22 oz/a	CD										
8 IGNITE	22 oz/a	B	98.51 a	92.12 ab	100.00 a	100.00 a	100.00 a	77.36 d	85.38 d	10.00 a	100.00 a	99.79 a
STAPLE LX	2 oz/a	B										
IGNITE	22 oz/a	CD										
9 ROUNDUP WEATHERMAX	22 oz/a	BCD	97.50 ab	86.25 b	90.00 b	95.00 b	96.25 b	93.75 ab	98.75 ab	8.75 a	100.00 a	100.00 a
10 PROWL H2O	2 pt/a	A	100.00 a	90.00 ab	98.75 a	100.00 a	98.75 a	100.00 a	98.75 ab	11.25 a	100.00 a	100.00 a
COTORAN	2.4 pt/a	A										
ROUNDUP WEATHERMAX	22 oz/a	BCD										
11 IGNITE	43 oz/a	B	97.50 ab	90.00 ab	96.25 ab	100.00 a	100.00 a	88.75 bc	92.50 a-d	0.00 a	100.00 a	100.00 a
IGNITE	43 oz/a	C										
12 PROWL H2O	2 pt/a	A	100.00 a	93.75 a	98.75 a	98.75 ab	100.00 a	100.00 a	98.75 ab	0.00 a	100.00 a	100.00 a
COTORAN	2.4 pt/a	A										
IGNITE	43 oz/a	B										
IGNITE	43 oz/a	C										
13 NONTREATED			0.00 c	0.00 c	0.00 c	0.00 c	0.00 c	0.00 e	0.00 e	0.00 a	0.00 b	0.00 c
LSD (P=.05)			5.805	6.261	6.399	3.874	2.452	6.793	10.800	8.549	0.000	2.023
Standard Deviation			4.020	4.336	4.432	2.683	1.698	4.705	7.479	5.904	0.000	1.401
CV			4.44	5.21	4.9	2.95	1.85	5.57	8.71	127.91	0.0	1.52
Grand Mean			90.56	83.14	90.38	90.96	91.83	84.41	85.89	4.62	92.31	92.1
Bartlett's X2			6.425	4.783	13.862	4.228	1.785	11.597	17.674	12.803	0.0	0.0
P(Bartlett's X2)			0.377	0.941	0.054	0.753	0.41	0.17	0.061	0.119	.	.
Replicate F			0.414	1.859	0.848	2.226	0.611	1.847	2.458	3.180	0.000	1.153
Replicate Prob(F)			0.7438	0.1545	0.4768	0.1024	0.6123	0.1566	0.0791	0.0393	1.0000	0.3414
Treatment F			184.476	134.108	151.687	416.237	1057.195	127.019	49.776	1.928	0.000	1560.813
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0747	1.0000	0.0001

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Weed Code	CASOB	SEBEX	IPOLA	IPOHG	ELEIN	DIGSA		ECHCG	AMARE
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI		GOSHI	GOSHI
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		INJURY	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	23/Jun/2008
Trt-Eval Interval	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C		7 DA-C	28 DA-B
ARM Action Codes									
# Subsamples, Dec.									

Trt No.	Treatment Name	Rate	Appl Unit	Code	21	22	23	24	25	26	27	28	29
1	IGNITE	22 oz/a	BCD		100.00 a	100.00 a	100.00 a	100.00 a	88.75 cd	98.75 ab	0.00 a	100.00 a	97.50 b
2	IGNITE	29 oz/a	BCD		100.00 a	100.00 a	100.00 a	100.00 a	87.50 cd	98.75 ab	0.00 a	100.00 a	100.00 a
3	PROWL H2O	2 pt/a	A		97.50 ab	100.00 a	100.00 a	100.00 a	97.50 ab	98.75 ab	0.00 a	100.00 a	100.00 a
	COTORAN	2.4 pt/a	A										
	IGNITE	22 oz/a	BCD										
4	PROWL H2O	2 pt/a	A		100.00 a	100.00 a	100.00 a	100.00 a	96.25 ab	100.00 a	0.00 a	100.00 a	100.00 a
	COTORAN	2.4 pt/a	A										
	IGNITE	29 oz/a	BCD										
5	IGNITE	43 oz/a	B		100.00 a	100.00 a	100.00 a	100.00 a	83.75 d	92.50 cd	0.00 a	100.00 a	100.00 a
	IGNITE	29 oz/a	C										
6	PROWL H2O	2 pt/a	A		100.00 a	100.00 a	100.00 a	100.00 a	97.50 ab	95.00 abc	0.00 a	100.00 a	100.00 a
	COTORAN	2.4 pt/a	A										
	IGNITE	43 oz/a	B										
	IGNITE	29 oz/a	C										
7	IGNITE	22 oz/a	B		98.75 ab	100.00 a	100.00 a	100.00 a	83.75 d	91.25 cd	0.00 a	100.00 a	100.00 a
	DUAL MAGNUM	16 oz/a	B										
	IGNITE	22 oz/a	CD										
8	IGNITE	22 oz/a	B		100.00 a	100.00 a	99.97 a	100.00 a	76.25 e	88.51 d	0.00 a	100.00 a	99.79 a
	STAPLE LX	2 oz/a	B										
	IGNITE	22 oz/a	CD										
9	ROUNDUP WEATHERMAX	22 oz/a	BCD		92.50 c	95.00 b	97.50 b	100.00 a	100.00 a	100.00 a	8.75 a	100.00 a	100.00 a
10	PROWL H2O	2 pt/a	A		96.25 b	100.00 a	98.75 ab	98.75 b	100.00 a	100.00 a	2.50 a	100.00 a	100.00 a
	COTORAN	2.4 pt/a	A										
	ROUNDUP WEATHERMAX	22 oz/a	BCD										
11	IGNITE	43 oz/a	B		100.00 a	100.00 a	100.00 a	100.00 a	91.25 bc	93.75 bcd	0.00 a	100.00 a	100.00 a
	IGNITE	43 oz/a	C										
12	PROWL H2O	2 pt/a	A		100.00 a	100.00 a	100.00 a	100.00 a	98.75 a	100.00 a	0.00 a	100.00 a	100.00 a
	COTORAN	2.4 pt/a	A										
	IGNITE	43 oz/a	B										
	IGNITE	43 oz/a	C										
13	NONTREATED				0.00 d	0.00 c	0.00 c	0.00 c	0.00 f	0.00 e	0.00 a	0.00 b	0.00 c
LSD (P=.05)					3.308	2.872	1.514	1.015	6.567	6.187	5.148	0.000	2.023
Standard Deviation					2.291	1.989	1.049	0.703	4.548	4.285	3.555	0.000	1.401
CV					2.51	2.16	1.14	0.76	5.37	4.81	410.79	0.0	1.52
Grand Mean					91.15	91.92	92.02	92.21	84.71	89.02	0.87	92.31	92.1
Bartlett's X2					2.011	0.0	0.061	0.0	7.561	9.227	1.431	0.0	0.0
P(Bartlett's X2)					0.57	.	0.805	.	0.579	0.237	0.232	.	.
Replicate F					0.244	0.972	1.598	0.972	1.325	2.599	1.053	0.000	1.153
Replicate Prob(F)					0.8648	0.4168	0.2075	0.4168	0.2819	0.0677	0.3849	1.0000	0.3414
Treatment F					575.591	773.241	2782.088	6210.232	136.014	159.152	1.928	0.000	1560.813
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0747	1.0000	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)
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Weed Code	CASOB	SEBEX	IPOLA	IPOHG	ELEIN	DIGSA		ECHCG	AMARE
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI		GOSHI	GOSHI
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		INJURY	CONTROL
Rating Unit	%	%	%	%	%	%		%	%
Rating Date	23/Jun/2008	23/Jun/2008	23/Jun/2008	23/Jun/2008	23/Jun/2008	23/Jun/2008		23/Jun/2008	10/Jul/2008
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B		28 DA-B	28 DA-C
ARM Action Codes									
# Subsamples, Dec.									

Trt	Treatment	Rate	Rate Unit	Appl Code	30	31	32	33	34	35	36	37	38
1	IGNITE	22	oz/a	BCD	100.00 a	100.00 a	100.00 a	100.00 a	80.00 d	88.75 cd	0.00 a	88.75 c	96.25 b
2	IGNITE	29	oz/a	BCD	100.00 a	100.00 a	100.00 a	100.00 a	85.00 cd	88.75 cd	0.00 a	92.50 bc	100.00 a
3	PROWL H2O	2	pt/a	A	98.75 ab	100.00 a	100.00 a	100.00 a	96.25 ab	100.00 a	0.00 a	97.50 ab	100.00 a
	COTORAN	2.4	pt/a	A									
	IGNITE	22	oz/a	BCD									
4	PROWL H2O	2	pt/a	A	100.00 a	100.00 a	100.00 a	100.00 a	93.75 abc	95.00 abc	0.00 a	92.50 bc	100.00 a
	COTORAN	2.4	pt/a	A									
	IGNITE	29	oz/a	BCD									
5	IGNITE	43	oz/a	B	100.00 a	100.00 a	100.00 a	100.00 a	85.00 cd	91.25 bcd	0.00 a	95.00 abc	100.00 a
	IGNITE	29	oz/a	C									
6	PROWL H2O	2	pt/a	A	100.00 a	100.00 a	100.00 a	100.00 a	97.50 ab	97.50 ab	0.00 a	95.00 abc	100.00 a
	COTORAN	2.4	pt/a	A									
	IGNITE	43	oz/a	B									
	IGNITE	29	oz/a	C									
7	IGNITE	22	oz/a	B	98.75 ab	100.00 a	100.00 a	100.00 a	77.50 d	87.50 cd	0.00 a	93.75 abc	100.00 a
	DUAL MAGNUM	16	oz/a	B									
	IGNITE	22	oz/a	CD									
8	IGNITE	22	oz/a	B	99.93 a	100.00 a	100.00 a	100.00 a	63.96 e	83.26 d	0.00 a	92.74 bc	99.69 a
	STAPLE LX	2	oz/a	B									
	IGNITE	22	oz/a	CD									
9	ROUNDUP WEATHERMAX	22	oz/a	BCD	97.50 b	95.00 b	98.75 b	100.00 a	100.00 a	100.00 a	6.25 a	91.25 bc	100.00 a
10	PROWL H2O	2	pt/a	A	97.50 b	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	100.00 a	100.00 a
	COTORAN	2.4	pt/a	A									
	ROUNDUP WEATHERMAX	22	oz/a	BCD									
11	IGNITE	43	oz/a	B	100.00 a	100.00 a	100.00 a	100.00 a	90.00 bc	93.75 abc	0.00 a	96.25 ab	100.00 a
	IGNITE	43	oz/a	C									
12	PROWL H2O	2	pt/a	A	100.00 a	100.00 a	100.00 a	100.00 a	97.50 ab	100.00 a	0.00 a	93.75 abc	100.00 a
	COTORAN	2.4	pt/a	A									
	IGNITE	43	oz/a	B									
	IGNITE	43	oz/a	C									
13	NONTREATED				0.00 c	0.00 c	0.00 c	0.00 b	0.00 f	0.00 e	0.00 a	0.00 d	0.00 c
LSD (P=.05)					2.153	0.000	1.015	0.000	9.711	8.253	4.311	7.256	3.036
Standard Deviation					1.491	0.000	0.703	0.000	6.726	5.716	2.977	5.026	2.102
CV					1.63	0.0	0.76	0.0	8.2	6.6	619.12	5.79	2.29
Grand Mean					91.73	91.92	92.21	92.31	82.04	86.6	0.48	86.85	92.0
Bartlett's X2					0.12	0.0	0.0	0.0	12.454	6.203	0.0	16.015	0.0
P(Bartlett's X2)					0.989	.	.	.	0.189	0.516	.	0.067	.
Replicate F					1.458	0.000	0.972	0.000	1.786	0.491	0.778	3.374	1.149
Replicate Prob(F)					0.2428	1.0000	0.4168	1.0000	0.1679	0.6905	0.5163	0.0291	0.3430
Treatment F					1367.919	0.000	6210.232	0.000	63.561	86.729	1.357	109.113	692.451
Treatment Prob(F)					0.0001	1.0000	0.0001	1.0000	0.0001	0.0001	0.2439	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	CASOB	SEBEX	IPOLA	IPOHG	ELEIN	DIGSA	GOSHI	ECHCG	AMARE	CASOB			
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%	%	%	%	%			
Rating Date	10/Jul/2008	10/Jul/2008	10/Jul/2008	10/Jul/2008	10/Jul/2008	10/Jul/2008	10/Jul/2008	22/Jul/2008	22/Jul/2008	22/Jul/2008			
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	7 DA-D	7 DA-D	7 DA-D			
ARM Action Codes													
# Subsamples, Dec.													
Trt Treatment													
No. Name	Rate	Unit	Appl Code	39	40	41	42	43	44	45	46	47	48
1 IGNITE	22	oz/a	BCD	87.50 bc	98.75 ab	97.50 bc	97.50 abc	72.50 cd	97.50 a	0.00 a	100.00 a	100.00 a	100.00 a
2 IGNITE	29	oz/a	BCD	86.25 bc	98.75 ab	96.25 c	96.25 bc	72.50 cd	93.75 a	0.00 a	100.00 a	100.00 a	100.00 a
3 PROWL H2O	2	pt/a	A	92.50 b	100.00 a	97.50 bc	95.00 c	93.75 ab	96.25 a	0.00 a	100.00 a	100.00 a	100.00 a
COTORAN	2.4	pt/a	A										
IGNITE	22	oz/a	BCD										
4 PROWL H2O	2	pt/a	A	88.75 bc	100.00 a	98.75 ab	98.75 ab	90.00 abc	100.00 a	0.00 a	100.00 a	100.00 a	100.00 a
COTORAN	2.4	pt/a	A										
IGNITE	29	oz/a	BCD										
5 IGNITE	43	oz/a	B	88.75 bc	100.00 a	98.75 ab	98.75 ab	68.75 d	97.50 a	0.00 a			
IGNITE	29	oz/a	C										
6 PROWL H2O	2	pt/a	A	87.50 bc	100.00 a	98.75 ab	98.75 ab	91.25 ab	95.00 a	0.00 a			
COTORAN	2.4	pt/a	A										
IGNITE	43	oz/a	B										
IGNITE	29	oz/a	C										
7 IGNITE	22	oz/a	B	86.25 bc	98.75 ab	98.75 ab	98.75 ab	63.75 d	92.50 a	0.00 a	100.00 a	100.00 a	100.00 a
DUAL MAGNUM	16	oz/a	B										
IGNITE	22	oz/a	CD										
8 IGNITE	22	oz/a	B	100.00 a	100.00 a	98.96 ab	98.82 ab	45.83 e	92.47 a	0.00 a	100.00 a	100.00 a	100.00 a
STAPLE LX	2	oz/a	B										
IGNITE	22	oz/a	CD										
9 ROUNDUP WEATHERMAX	22	oz/a	BCD	87.50 bc	95.00 b	98.75 ab	98.75 ab	95.00 ab	100.00 a	0.00 a	98.75 b	100.00 a	96.25 b
10 PROWL H2O	2	pt/a	A	90.00 bc	98.75 ab	100.00 a	100.00 a	98.75 a	100.00 a	0.00 a	100.00 a	100.00 a	97.50 ab
COTORAN	2.4	pt/a	A										
ROUNDUP WEATHERMAX	22	oz/a	BCD										
11 IGNITE	43	oz/a	B	85.00 c	100.00 a	98.75 ab	98.75 ab	80.00 bcd	98.75 a	0.00 a			
IGNITE	43	oz/a	C										
12 PROWL H2O	2	pt/a	A	91.25 bc	98.75 ab	98.75 ab	96.25 bc	93.75 ab	100.00 a	0.00 a			
COTORAN	2.4	pt/a	A										
IGNITE	43	oz/a	B										
IGNITE	43	oz/a	C										
13 NONTREATED				0.00 d	0.00 c	0.00 d	0.00 d	0.00 f	0.00 b	0.00 a	0.00 c	0.00 b	0.00 c
LSD (P=.05)				7.275	3.769	2.314	3.517	17.660	8.056	0.000	1.245	0.000	2.738
Standard Deviation				5.038	2.610	1.603	2.436	12.231	5.579	0.000	0.851	0.000	1.877
CV				6.11	2.85	1.76	2.69	16.46	6.23	0.0	0.96	0.0	2.12
Grand Mean				82.4	91.44	90.88	90.49	74.29	89.52	0.0	88.75	88.89	88.19
Bartlett's X2				6.224	7.314	2.772	8.899	16.394	16.33	0.0	0.0	0.0	1.322
P(Bartlett's X2)				0.796	0.198	0.973	0.447	0.089	0.022*	.	.	.	0.25
Replicate F				0.069	0.259	22.457	13.152	3.050	5.527	0.000	0.958	0.000	1.256
Replicate Prob(F)				0.9759	0.8546	0.0001	0.0001	0.0413	0.0033	1.0000	0.4291	1.0000	0.3128
Treatment F				98.914	444.274	1162.148	499.695	19.673	93.985	0.000	6115.126	0.000	1251.418
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	1.0000	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	SEBEX	IPLA	IPOHG	ELEIN	DIGSA	GOSHI	ECHCG	AMARE	CASOB	SEBEX
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%	%	%	%
Rating Date	22/Jul/2008	22/Jul/2008	22/Jul/2008	22/Jul/2008	22/Jul/2008	22/Jul/2008	28/Jul/2008	28/Jul/2008	28/Jul/2008	28/Jul/2008
Trt-Eval Interval	7 DA-D	7 DA-D	7 DA-D	7 DA-D	7 DA-D	7 DA-D	14 DA-D	14 DA-D	14 DA-D	14 DA-D

ARM Action Codes
Subsamples, Dec.

Trt	Treatment	Rate	Appl Code	49	50	51	52	53	54	55	56	57	58
1	IGNITE	22 oz/a	BCD	100.00 a	100.00 a	100.00 a	82.50 c	98.75 a	0.00 a	100.00 a	98.75 b	100.00 a	100.00 a
2	IGNITE	29 oz/a	BCD	100.00 a	100.00 a	100.00 a	83.75 c	95.00 a	0.00 a	100.00 a	100.00 a	100.00 a	100.00 a
3	PROWL H2O	2 pt/a	A	100.00 a	100.00 a	100.00 a	96.25 ab	97.50 a	0.00 a	100.00 a	100.00 a	100.00 a	100.00 a
	COTORAN	2.4 pt/a	A										
	IGNITE	22 oz/a	BCD										
4	PROWL H2O	2 pt/a	A	100.00 a	100.00 a	100.00 a	92.50 b	96.25 a	0.00 a	100.00 a	100.00 a	100.00 a	100.00 a
	COTORAN	2.4 pt/a	A										
	IGNITE	29 oz/a	BCD										
5	IGNITE	43 oz/a	B										
	IGNITE	29 oz/a	C										
6	PROWL H2O	2 pt/a	A										
	COTORAN	2.4 pt/a	A										
	IGNITE	43 oz/a	B										
	IGNITE	29 oz/a	C										
7	IGNITE	22 oz/a	B	100.00 a	100.00 a	100.00 a	82.50 c	95.00 a	0.00 a	100.00 a	100.00 a	100.00 a	100.00 a
	DUAL MAGNUM	16 oz/a	B										
	IGNITE	22 oz/a	CD										
8	IGNITE	22 oz/a	B	100.00 a	100.00 a	100.00 a	82.81 c	95.73 a	0.00 a	100.00 a	99.84 ab	100.00 a	99.84 ab
	STAPLE LX	2 oz/a	B										
	IGNITE	22 oz/a	CD										
9	ROUNDUP WEATHERMAX	22 oz/a	BCD	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	95.00 b	100.00 a	98.75 b	98.75 b
10	PROWL H2O	2 pt/a	A	98.75 b	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	98.75 a	100.00 a	100.00 a	100.00 a
	COTORAN	2.4 pt/a	A										
	ROUNDUP WEATHERMAX	22 oz/a	BCD										
11	IGNITE	43 oz/a	B										
	IGNITE	43 oz/a	C										
12	PROWL H2O	2 pt/a	A										
	COTORAN	2.4 pt/a	A										
	IGNITE	43 oz/a	B										
	IGNITE	43 oz/a	C										
13	NONTREATED			0.00 c	0.00 b	0.00 b	0.00 d	0.00 b	0.00 a	0.00 c	0.00 c	0.00 c	0.00 c
LSD (P=.05)				1.245	0.000	0.000	6.209	9.172	0.000	2.274	1.236	1.245	1.236
Standard Deviation				0.851	0.000	0.000	4.244	6.270	0.000	1.554	0.845	0.851	0.845
CV				0.96	0.0	0.0	5.3	7.25	0.0	1.76	0.95	0.96	0.96
Grand Mean				88.75	88.89	88.89	80.03	86.47	0.0	88.19	88.73	88.75	88.75
Bartlett's X2				0.0	0.0	0.0	7.07	5.663	0.0	0.686	0.0	0.0	0.0
P(Bartlett's X2)				.	.	.	0.215	0.34	.	0.408	.	.	.
Replicate F				0.958	0.000	0.000	1.262	0.974	0.000	1.821	1.232	0.958	1.232
Replicate Prob(F)				0.4291	1.0000	1.0000	0.3107	0.4222	1.0000	0.1715	0.3208	0.4291	0.3208
Treatment F				6115.126	0.000	0.000	212.511	107.392	0.000	1815.850	6209.742	6115.126	6209.742
Treatment Prob(F)				0.0001	1.0000	1.0000	0.0001	0.0001	1.0000	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	IPOLA	IPOHG	ELEIN	DIGSA		ECHCG	AMARE	CASOB	SEBEX
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%	%	%
Rating Date	28/Jul/2008	28/Jul/2008	28/Jul/2008	28/Jul/2008	28/Jul/2008	12/Aug/2008	12/Aug/2008	12/Aug/2008	12/Aug/2008
Trt-Eval Interval	14 DA-D	14 DA-D	14 DA-D	14 DA-D	14 DA-D	28 DA-D	28 DA-D	28 DA-D	28 DA-D
ARM Action Codes									
# Subsamples, Dec.									

Trt	Treatment	Rate	Rate Unit	Appl Code	59	60	61	62	63	64	65	66	67
1	IGNITE	22	oz/a	BCD	100.00 a	100.00 a	96.25 ab	100.00 a	0.00 a	96.25 ab	100.00 a	96.25 abc	100.00 a
2	IGNITE	29	oz/a	BCD	100.00 a	100.00 a	91.25 bc	96.25 ab	0.00 a	96.25 ab	100.00 a	93.75 bc	100.00 a
3	PROWL H2O	2	pt/a	A	100.00 a	100.00 a	97.50 ab	98.75 a	0.00 a	96.25 ab	100.00 a	96.25 abc	100.00 a
	COTORAN	2.4	pt/a	A									
	IGNITE	22	oz/a	BCD									
4	PROWL H2O	2	pt/a	A	100.00 a	100.00 a	98.75 a	100.00 a	0.00 a	98.75 ab	100.00 a	95.00 bc	100.00 a
	COTORAN	2.4	pt/a	A									
	IGNITE	29	oz/a	BCD									
5	IGNITE	43	oz/a	B									
	IGNITE	29	oz/a	C									
6	PROWL H2O	2	pt/a	A									
	COTORAN	2.4	pt/a	A									
	IGNITE	43	oz/a	B									
	IGNITE	29	oz/a	C									
7	IGNITE	22	oz/a	B	100.00 a	100.00 a	91.25 bc	96.25 ab	0.00 a	97.50 ab	100.00 a	97.50 ab	100.00 a
	DUAL MAGNUM	16	oz/a	B									
	IGNITE	22	oz/a	CD									
8	IGNITE	22	oz/a	B	100.00 a	100.00 a	86.04 c	93.49 b	0.00 a	94.43 b	100.00 a	99.74 a	100.00 a
	STAPLE LX	2	oz/a	B									
	IGNITE	22	oz/a	CD									
9	ROUNDUP WEATHERMAX	22	oz/a	BCD	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	98.75 ab	100.00 a	92.50 c	100.00 a
10	PROWL H2O	2	pt/a	A	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	100.00 a	100.00 a	95.00 bc	100.00 a
	COTORAN	2.4	pt/a	A									
	ROUNDUP WEATHERMAX	22	oz/a	BCD									
11	IGNITE	43	oz/a	B									
	IGNITE	43	oz/a	C									
12	PROWL H2O	2	pt/a	A									
	COTORAN	2.4	pt/a	A									
	IGNITE	43	oz/a	B									
	IGNITE	43	oz/a	C									
13	NONTREATED				0.00 b	0.00 b	0.00 d	0.00 c	0.00 a	0.00 c	0.00 b	0.00 d	0.00 b
LSD (P=.05)					0.000	0.000	6.856	4.395	0.000	4.896	0.000	4.291	0.000
Standard Deviation					0.000	0.000	4.686	3.004	0.000	3.347	0.000	2.933	0.000
CV					0.0	0.0	5.54	3.45	0.0	3.87	0.0	3.45	0.0
Grand Mean					88.89	88.89	84.56	87.19	0.0	86.46	88.89	85.11	88.89
Bartlett's X2					0.0	0.0	3.671	1.733	0.0	8.46	0.0	2.4	0.0
P(Bartlett's X2)					.	.	0.598	0.63	.	0.206	.	0.879	.
Replicate F					0.000	0.000	1.006	0.576	0.000	1.937	0.000	2.293	0.000
Replicate Prob(F)					1.0000	1.0000	0.4082	0.6363	1.0000	0.1517	1.0000	0.1048	1.0000
Treatment F					0.000	0.000	187.248	476.179	0.000	376.505	0.000	475.651	0.000
Treatment Prob(F)					1.0000	1.0000	0.0001	0.0001	1.0000	0.0001	1.0000	0.0001	1.0000

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	IPOHG	ELEIN	DIGSA			
Crop Code			GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Rating Data Type			CONTROL	CONTROL	CONTROL	CONTROL	INJURY	YIELD	YIELD
Rating Unit			%	%	%	%	%	LB	LB/A
Rating Date			12/Aug/2008	12/Aug/2008	12/Aug/2008	12/Aug/2008	12/Aug/2008	10/Oct/2008	10/Oct/2008
Trt-Eval Interval			28 DA-D	28 DA-D	28 DA-D	28 DA-D	28 DA-D		
ARM Action Codes									TY1
# Subsamples, Dec.									1
Trt Treatment									
No. Name	Rate	Unit	68	69	70	71	72	73	74
1 IGNITE	22 oz/a	BCD	100.00 a	100.00 a	88.75 ab	98.75 a	0.00 a	1.68 cde	437.6 cde
2 IGNITE	29 oz/a	BCD	100.00 a	100.00 a	87.50 ab	98.75 a	0.00 a	2.53 bcd	660.9 bcd
3 PROWL H2O	2 pt/a	A	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	3.96 b	1033.2 b
COTORAN	2.4 pt/a	A							
IGNITE	22 oz/a	BCD							
4 PROWL H2O	2 pt/a	A	100.00 a	100.00 a	95.00 ab	100.00 a	0.00 a	2.40 bcd	627.0 bcd
COTORAN	2.4 pt/a	A							
IGNITE	29 oz/a	BCD							
5 IGNITE	43 oz/a	B						3.38 bc	881.6 bc
IGNITE	29 oz/a	C							
6 PROWL H2O	2 pt/a	A						3.45 bc	902.3 bc
COTORAN	2.4 pt/a	A							
IGNITE	43 oz/a	B							
IGNITE	29 oz/a	C							
7 IGNITE	22 oz/a	B	100.00 a	100.00 a	78.75 b	86.25 a	0.00 a	2.00 cd	522.5 cd
DUAL MAGNUM	16 oz/a	B							
IGNITE	22 oz/a	CD							
8 IGNITE	22 oz/a	B	100.00 a	100.00 a	56.04 c	68.80 b	0.00 a	0.91 de	236.7 de
STAPLE LX	2 oz/a	B							
IGNITE	22 oz/a	CD							
9 ROUNDUP WEATHERMAX	22 oz/a	BCD	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	6.05 a	1580.4 a
10 PROWL H2O	2 pt/a	A	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	6.13 a	1600.0 a
COTORAN	2.4 pt/a	A							
ROUNDUP WEATHERMAX	22 oz/a	BCD							
11 IGNITE	43 oz/a	B						2.03 cd	529.0 cd
IGNITE	43 oz/a	C							
12 PROWL H2O	2 pt/a	A						2.58 bcd	672.7 bcd
COTORAN	2.4 pt/a	A							
IGNITE	43 oz/a	B							
IGNITE	43 oz/a	C							
13 NONTREATED			0.00 b	0.00 b	0.00 d	0.00 c	0.00 a	0.00 e	0.0 e
LSD (P=.05)			0.000	0.000	18.697	14.344	0.000	1.925	502.86
Standard Deviation			0.000	0.000	12.780	9.805	0.000	1.333	348.26
CV			0.0	0.0	16.29	11.73	0.0	46.75	46.75
Grand Mean			88.89	88.89	78.45	83.62	0.0	2.85	744.91
Bartlett's X2			0.0	0.0	10.327	17.022	0.0	4.901	4.901
P(Bartlett's X2)			.	.	0.035*	0.001*	.	0.936	0.936
Replicate F			0.000	0.000	1.382	0.397	0.000	2.073	2.073
Replicate Prob(F)			1.0000	1.0000	0.2732	0.7564	1.0000	0.1227	0.1227
Treatment F			0.000	0.000	26.058	45.509	0.000	7.107	7.107
Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001	1.0000	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.
 Column 74: TY1 = 261.2294*[73]