WEED SCIENCE

2007 Annual Research Report

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School of Plant, Environmental, and Soil Sciences

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Introduction

Louisiana can be divided into several areas based on cropping systems, climatic conditions, soil types, and pH. These factors are important in selecting specific herbicides and rates and can directly affect herbicide efficacy, crop safety, and injury to rotational crops. South Louisiana has an abundance of weed species, some not commonly found in other areas of the state. Climatic conditions are favorable for prolific weed growth and subsequent competition with crops. Weeds can be controlled with mechanical cultivation, crop rotation, and herbicides. Louisiana producers currently use all these methods, but herbicides serve as the foundation for successful weed control programs. Steady progress has been made in the development of effective herbicides with crop safety. Research and extension personnel with the LSU AgCenter work cooperatively with agri-chemical companies to evaluate new herbicides for weed control and crop tolerance as well as their effect on rotational crops.

This progress report summarizes weed research conducted in sugarcane, soybeans, and corn during the 2007 growing season. Results of herbicide efficacy and crop tolerance studies are presented. Results are preliminary since evaluation of some of the herbicides is limited. Data presented in this report should not be considered as an endorsement or recommendation of any herbicide and should not be reproduced without permission. Registration by the Environmental Protection Agency is required before any herbicide can be legally used.

Rainfall data for the 2007 growing season are shown in Tables 1 and 2. Herbicides and adjuvants evaluated are presented in Table 3. Selected weed areas at the Ben Hur Research Farm, the Sugar Research Station, and at several off-station sites have been managed to encourage uniform weed populations. Weed species evaluated for control are presented in Table 4. Specific information on location, soil type, variety, row spacing, treatment date, sprayer type, etc. for all experiments is presented followed by a table of experimental results. Data were summarized and statistically analyzed with the Agriculture Research Manager (ARM) by Gylling Data Management, Inc., Brookings, South Dakota. Control and crop injury ratings for all experiments are based on a scale of 0 to 100%, where 0 equals no control or crop injury and 100% equals complete control or crop injury. Injury ratings are based on chlorosis, necrosis, and stand and height reductions. Where appropriate, crop yields were obtained. Soybean yields are adjusted to 13% moisture. Miscellaneous abbreviations used in this report are shown in Table 5.

For additional information concerning research activities covered in the report contact James L. Griffin, School of Agronomy, 104 Sturgis Hall, Baton Rouge, LA 70803, (225) 578-1768, or by e-mail at jgriffin@agcenter.lsu.edu. This report is also available on the LSU AgCenter web site www.agronomy.lsu.edu/weedscience/index.asp.

Acknowledgments

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Financial assistance to conduct portions of this research was provided by the following companies.

Bayer CropScience
DuPont Crop Protection
FMC Corporation
Gowan Company
Monsanto Company
Syngenta Crop Protection
Valent USA

Table 1. **Rainfall for the 2007 growing season (March - September) at the Ben Hur Research Farm, Baton Rouge, LA.**

	Month						
Day	March	April	May	June	July	August	September
	in						
1	0.02	0.01	-	-	0.07	0.94	-
2	-	0.01	-	-	-	0.01	-
3	-	0.09	1.51	0.02	2.12	-	-
4	-	0.19	1.67	0.09	0.20	-	0.44
5	-	-	-	-	0.28	-	-
6	-	-	-	-	0.14	-	-
7	-	0.14	0.04	-	0.08	-	0.76
8	-	0.10	-	-	0.27	-	0.07
9	-	-	-	0.02	-	-	-
10	-	1.01	-	0.15	0.02	-	-
11	-	-	-	-	-	-	-
12	0.53	-	-	-	0.40	-	0.76
13	-	-	0.49	-	0.23	-	1.19
14	0.87	0.39	0.01	-	0.78	0.25	0.01
15	0.25	-	1.23	-	0.55	0.01	-
16	-	-	0.02	-	0.01	1.29	-
17	-	-	-	-	0.32	0.26	-
18	-	0.11	-	1.56	-	-	-
19	-	-	-	4.20	0.16	-	-
20	-	-	-	0.01	0.04	-	-
21	-	-	-	-	-	-	-
22	-	-	0.01	-	-	-	0.43
23	-	-	0.02	-	-	-	0.04
24	-	-	0.30	-	-	-	0.80
25	-	1.37	0.01	0.10	0.10	-	0.11
26	-	0.41	0.10	-	0.33	0.15	-
27	-	-	-	-	0.38	-	-
28	-	-	-	-	-	0.14	-
29	-	-	0.53	-	0.08	0.03	-
30	-	-	0.06	-	0.17	0.01	-
31	0.25		0.16		0.67	0.01	
Total	1.92	3.83	6.16	6.15	7.40	3.10	4.61

Table 2. **Rainfall for the 2007 growing season (March - September) at the Sugar Research Station, St. Gabriel, LA.**

	Month						
Day	March	April	May	June	July	August	September
	in						
1	N/A	N/A	-	0.01	0.44	0.05	0.46
2	N/A	N/A	-	-	0.01	0.01	0.01
3	N/A	N/A	1.28	0.01	0.14	-	-
4	N/A	N/A	0.67	0.68	-	-	0.12
5	N/A	N/A	-	-	0.34	0.21	0.01
6	N/A	N/A	-	-	0.30	-	-
7	N/A	N/A	0.01	0.08	0.03	-	0.01
8	N/A	N/A	-	0.10	-	-	0.78
9	N/A	N/A	-	0.84	-	-	0.01
10	N/A	-	-	-	0.03	-	0.37
11	N/A	N/A	-	-	-	-	0.16
12	N/A	N/A	-	0.11	0.21	-	0.01
13	N/A	N/A	-	0.04	0.16	-	1.04
14	N/A	-	0.11	-	0.32	-	-
15	N/A	N/A	0.10	-	0.48	-	-
16	N/A	N/A	0.44	0.25	0.01	1.81	-
17	N/A	N/A	0.01	0.01	0.10	-	-
18	N/A	-	-	1.16	-	0.01	-
19	N/A	N/A	-	2.12	-	-	-
20	N/A	N/A	-	-	0.01	-	-
21	N/A	N/A	-	-	-	-	-
22	N/A	N/A	-	-	-	-	0.59
23	N/A	3.68	0.02	-	-	-	0.11
24	N/A	-	0.18	0.18	-	-	1.88
25	N/A	N/A	-	0.22	-	-	0.25
26	N/A	1.04	0.09	-	0.69	0.38	0.01
27	-	0.01	-	-	0.05	0.01	-
28	N/A	-	0.06	-	-	0.66	-
29	N/A	-	0.24	0.04	0.11	0.05	-
30	N/A	-	0.11	0.13	0.37	0.01	-
31	N/A	-	1.41		0.16	0.48	-
Total	N/A	4.73	4.73	5.98	3.96	3.68	5.82

Table 3. **Herbicides and adjuvants evaluated in soybeans, sugarcane, corn.**

Trade name	Common name	Manufacturer
2, 4-D Amine 4	-	Nufarm T&S
A14972	-	Syngenta
A15189	-	Syngenta
Aatrex	atrazine	Syngenta
Agridex	crop oil concentrate	Helena
Ammonium sulfate	-	American Plant Food Corp.
Asulox, Asulox XP	asulam	UPI
Authority MTZ	sulfentrazone + metribuzin	FMC
Bicep II Magnum	metolachlor + atrazine	Syngenta
Callisto	mesotrione	Syngenta
Clarity	dicamba	BASF
Classic	chlorimuron	DuPont
Command	clomazone	FMC
Direx	diuron	Griffin
Dual II Magnum	metolachlor	Syngenta DuPont K4
EDTA	manganese	Stoller Industries
Envoke	trifloxysulfuron – sodium (proposed)	Syngenta
Eptam	EPTC	Gowan
Evik	ametryn	Syngenta
Flexstar	fomesafen	Syngenta
Gramoxone Inteon	paraquat (2 L)	Syngenta
Harness Extra	acetochlor + atrazine	Monsanto
Induce	nonionic surfactant	Helena

Continued.

Table 3. **Continued.**

Trade name	Common name	Manufacturer
K4/K4 Max	hexazinone + diuron	DuPont
Karmex	diuron	DuPont
Karmex XP	diuron	DuPont
Lumax	metolachlor + mesotrione + atrazine	Syngenta
Metri DF	metribuzin	UPI
MON xxxx	glyphosate formulations	Monsanto
Palisade	trinexapac-ethyl	Syngenta
Prowl	pendimethalin	BASF
Prowl H_2O	pendimethalin	BASF
Roundup Original Max	glyphosate	Monsanto
Sencor	metribuzin	Bayer CropScience
Sequence	glyphosate + metolachlor	Syngenta
Sinbar	terbacil	DuPont
Sodium Chlorate	-	Helena
Spartan	sulfentrazone	FMC
Touchdown Total	glyphosate	Syngenta
Treflan	trifluralin	Dow AgroSciences
Trimmit	paclobutrazol	Syngenta
Valor SX	flumioxazin	Valent USA
Velpar	hexazinone	DuPont
Weedmaster	2,4-D + dicamba	BASF
Yukon	halosulfuron + dicamba	Gowan

Table 4. Bayer codes and scientific names of weed species evaluated.

Common name	WSSA abbreviation	Scientific name
annual bluegrass	POAAN	*Poa annua* L.
annual sedge	CYPCP	*Cyperus compressus* L.
barnyardgrass	ECHCG	*Echinochloa crus-galli* (L.) Beauv.
bermudagrass	CYNDA	*Cynodon dactylon* (L.) Pers.
broadleaf signalgrass	BRAPP	*Brachiaria platyphylla* (Griseb.) Nash
buttercup species	RANSS	*Ranunculus* species
carpetweed	MOLVE	*Mollugo verticillata* L.
Carolina geranium	GERCA	*Geranium carolinianum* L.
common cocklebur	XANST	*Xanthium strumarium* L.
common purslane	POROL	*Portulacca oleracea* L.
curly dock	RUMCR	*Rumex crispus* L.
cutleaf eveningprimrose	OEOLA	*Oenothera laciniata* Hill
cutleaf groundcherry	PHYAN	*Physalis angulata* L.
entireleaf morningglory	IPOHG	*Ipomoea hederacea* var. *integriuscula* Gray
fall panicum	PANDI	*Panicum dichotomiflorum* Michx.
foxtail	SETSP	*Setaria* species
groundcherry	PHYSS	*Physalis* species
henbit	LAMAM	*Lamium amplexicaule* L.
hemp sesbania	SEBEX	*Sesbania exaltata* (Raf.) Rybd. ex A. W. Hill
hophornbeam copperleaf	ACCOS	*Acalypha ostryifolia* Riddell
horseweed	ERICA	*Conyza canadensis* (L.) Cronq.
itchgrass	ROOEX	*Rottboellia cochinchinensis* (Lour.) Clayton

Continued.

Table 4. **Continued.**

Common name	WSSA abbreviation	Scientific name
ivyleaf morningglory	IPOHE	*Ipomoea hederacea* (L.) Jacq.
johnsongrass	SORHA	*Sorghum halepense* (L.) Pers.
large crabgrass	DIGSA	*Digitaria sanguinalis* (L.) Scop.
little barley	HORPU	*Hordeum pusillum* Nuttall.
medicago (clover)	MEDSS	*Medicago* species
morningglory species	IPOSS	*Ipomoea* species
mouseear chickweed	CERVU	*Cerastium vulgatum* L.
nutsedge	CYPSS	*Cyperus* species
pitted morningglory	IPOLA	*Ipomoea lacunosa* L.
prickly sida	SIDSP	*Sida spinosa* L.
purple nutsedge	CYPRO	*Cyperus rotundus* L.
purslane speedwell	VERPG	*Veronica peregrina* L.
red morningglory	IPOCC	*Ipomoea coccinea* L.
redweed	MEOCO	*Melochia corchorifolia* L.
ryegrass, Italian	LOLMU	*Lolium perenne* L. *ssp. Multiflorum* (Lam.) *Husnot*
shepherd's-purse	CAPBP	*Capsella bursa-pastoris (L.)* Medicus
sicklepod	CASOB	*Senna obtusifolia* L.
smallflower bittercress	CARPA	*Cardamine parviflora* L.
smallflower morningglory	IAQTA	*Jacquemontia tamnifolia* (L.) Griseb.
smellmelon	CUMMD	*Cucumis melo* L. var. *dudaim* Naud.
spiny sowthistle	SONAS	*Sonchus asper* (L.) Hill
spotted burclover	MEDAB	*Medicago arabica* (L.) Huds.

Continued.

Table 4. **Continued.**

Common name	WSSA abbreviation	Scientific name
spreading dayflower	COMDI	*Commelina diffusa* Burm. f.
velvetleaf	ABUTH	*Abutilion theophrasti* Medik.
Virginia pepperweed	LEPVI	*Lepidium virginicum* L.
wild poinsettia	EPHHL	*Euphorbia heterophylla* L.
yellow nutsedge	CYPES	*Cyperus esculentus* L.

Table 5. **Miscellaneous abbreviations used in the weed control studies.**

ai/A	Active ingredient per acre
Amt	Amount
AS	Aqueous solution
AP	After planting
Bdcst	Broadcast application
bu/A	Bushels per acre
B/L	Broadleaf species
CEC	Cation Exchange Capacity
CO_2bkpk	CO_2-pressurized backpack sprayer
col	Collar
cot	Cotyledon
CV	Coefficient of variation
DAP	Days after planting
DAT	Days after treatment
DBP	Days before planting
DF	Dry flowable
DG	Dispersible granule
EC	Emulsifiable concentrate
F	Flowable
fb	Followed by
FF	Flat fan nozzle
Fm	Formulation
G	Granular
GPA	Gallons per acre
gr cover	Ground cover
Grow stg	Growth stage
ht	Height
ht/collr	Height to top visible collar
ht/lleaf	Height to tip of longest leaf
ht:node	Height to node ratio
in/col	Inches to last visible collar
in/lftp	Inches to tip of longest leaf
lbs	Pounds

Continued.

Table 5. **Continued.**

lb/A	Pounds of product per acre
lb ae/A	Pounds of acid equivalent per acre
lb ai/A	Pounds active ingredient per acre on broadcast basis
lb/bu	Pounds per bushel
lf	Leaf
L	Liquid
LSD	Least significant difference
ME	Micro-encapsulated
# noz	Number of nozzels
N/A	Not applicable
NAWF	Nodes above white flower
OM	Organic matter
oz/A	Ounces product per acre
p. cloudy	Partly cloudy
PDIR	Postemergence directed
plnt	Plant
popltn	Population
POST (x)	Postemergence overtop application (first, second, etc.)
PPBD	Preplant burndown
PPI	Preplant soil incorporated
pr/A	Product per acre
PRE	Preemergence surface application
psi	Pounds per square inch pressure
rep	Replication
SC	Soluble concentration
sq	Square
std	Standard
til	Tillers
trctrCA	Tractor compressed air
TRS	Theoretical recoverable sugar
V (x)	Refers to soybean growth stage e.g. V4=vegetative with 3 fully expanded trifoliate leaves

Continued.

Table 5. **Continued.**

Trt No	Treatment number
v/v	Volume/volume basis
vin	Vining
WAE	Weeks after emergence
WAT	Weeks after treatment
WBP	Weeks before planting
WG	Water dispersible granule
WP	Wettable powder
wt/p	Weight per plant
wt/st	Weight per stem
w/w	Weight/weight basis
% emerg.	Percent panicle emergence

Louisiana State University

Department of Agronomy and Environmental Management

Sugarcane Variety Study

Experiment number ..... :	07SC01JG
Location ..... :	Sugar Research Station - St. Gabriel, LA
Experimental design ..... :	Randomized complete block
Number of reps ..... :	4
Plot size ..... :	18' x 50'
Row width/# per plot ..... :	72"/3
Soil type ..... :	silt loam
OM (%) ..... :	1.0
pH ..... :	5.9
Planting date ..... :	09-25-06
Harvest date ..... :	N/A
Crop/Variety ..... :	Sugarcane
Uniform std. treatment ..... :	09-25-06 – PRE - DuPont K4 at 4.0 lb/A

Application type ..... :	PRE
Date applied (mm-dd-yy) ..... :	09-25-06
Time (hh:mm-hh:mm) ..... :	02:00-02:30p
Incorporation equipment ..... :	N/A
Incorporation depth ..... :	N/A
Air/Soil temperature (F) ..... :	83/75
Wind (mph/direction) ..... :	3-5/NNW
Cloud cover (%) ..... :	0
Relative humidity (%) ..... :	37
Soil/Leaf surface moist ..... :	moist/N/A
Crop stage/height ..... :	N/A
Sprayer type/mph ..... :	trctr.pto/3.75
Nozzle type/size ..... :	FF/8003VS
Boom ht/#noz/spacing (in) .... :	18"/12/18"
GPA/psi (at nozzle) ..... :	15/30
Applied by ..... :	Boudreaux

Weed species (population/ft^2) . :	(height/# leaves)
N/A	

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments:

School of Plant, Environmental, and Soil Sciences

Sugarcane Variety Study

Trial ID: 07SC01JG Protocol ID: 07SC01JG
Location: St. Gabriel Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CANE 11/Apr/2007 Shoots #/40ft	CANE 15/May/2007 Shoots #/40ft	CANE 15/May/2007 Heights IN
1	LCP 85-384									217 ab	381 a	33 b
2	L 97-128									227 ab	342 a	37 a
3	HoCP 96-540									158 c	346 a	29 b
4	Ho 95-988									181bc	352 a	30 b
5	L 99-226									244 a	392 a	30 b
6	L 99-233									198 abc	337 a	38 a
LSD (P=.05)										42.9	46.2	3.5
Standard Deviation										28.4	30.7	2.3
CV										13.93	8.57	7.04
Grand Mean										204.21	358.04	32.8
Bartlett's X2										8.246	3.981	2.585
P(Bartlett's X2)										0.143	0.552	0.764
Replicate F										3.054	5.631	2.902
Replicate Prob(F)										0.0609	0.0086	0.0694
Treatment F										4.942	2.182	11.093
Treatment Prob(F)										0.0071	0.1109	0.0001

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Sugarcane Variety Study

Trial ID: 07SC01JG Protocol ID: 07SC01JG
Location: St. Gabriel Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CANE 15/May/2007 Widths IN	CANE 27/Jun/2007 Heights IN	CANE 27/Jun/2007 PAR %Reduced
1	LCP 85-384									32 bc	44 b	87 b
2	L 97-128									36 ab	57 a	87 b
3	HoCP 96-540									30 c	47 b	80 c
4	Ho 95-988									36 ab	46 b	86 b
5	L 99-226									40 a	47 b	97 a
6	L 99-233									37 ab	59 a	91 b
LSD (P=.05)										4.2	5.3	5.5
Standard Deviation										2.8	3.5	3.6
CV										7.9	7.04	4.12
Grand Mean										35.23	50.18	87.71
Bartlett's X2										10.733	9.21	5.641
P(Bartlett's X2)										0.057	0.101	0.343
Replicate F										3.792	1.028	3.985
Replicate Prob(F)										0.0331	0.4084	0.0285
Treatment F										7.114	13.501	9.571
Treatment Prob(F)										0.0014	0.0001	0.0003

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Sugarcane Variety Study

Trial ID: 07SC01JG Protocol ID: 07SC01JG
Location: St. Gabriel Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
Crop Code										CANE	CANE
Rating Date										18/Jul/2007	24/Jul/2007
Rating Data Type										PAR	Heights
Rating Unit										%Reduced	IN
1	LCP 85-384									63 b	66 b
2	L 97-128									82 a	78 a
3	HoCP 96-540									64 b	73 ab
4	Ho 95-988									86 a	66 b
5	L 99-226									91 a	67 b
6	L 99-233									82 a	80a
LSD (P=.05)										11.6	6.5
Standard Deviation										7.7	4.3
CV										9.84	6.0
Grand Mean										78.2	71.66
Bartlett's X2										3.964	2.259
P(Bartlett's X2)										0.555	0.812
Replicate F										3.153	0.306
Replicate Prob(F)										0.0560	0.8207
Treatment F										9.021	8.231
Treatment Prob(F)										0.0004	0.0007

Louisiana State University

Department of Agronomy and Environmental Management

In-Furrow Seed Piece Enhancer Study

Experiment number ..... :	07SC02JG
Location ..... :	Sugar Research Station - St. Gabriel, LA
Experimental design ..... :	Randomized complete block
Number of reps ..... :	4
Plot size ..... :	18' x 30'
Row width/# per plot ..... :	72"/3 – Only treated middle row
Soil type ..... :	silt loam
OM (%) ..... :	1.0
pH ..... :	5.9
Planting date ..... :	09-25-06
Harvest date ..... :	N/A
Crop/Variety ..... :	HoCP 96-540
Uniform std. treatment ..... :	09-25-06 – PRE – DuPont K4 @ 4.0 lb/A
Application type ..... :	In-Furrow
Date applied (mm-dd-yy) ..... :	09-25-06
Time (hh:mm-hh:mm) ..... :	01:45-02:00p
Incorporation equipment ..... :	N/A
Incorporation depth ..... :	2-3"
Air/Soil temperature (F) ..... :	83/75
Wind (mph/direction) ..... :	3-5/NNW
Cloud cover (%) ..... :	0
Relative humidity (%) ..... :	37
Soil/Leaf surface moist ..... :	moist/N/A
Crop stage/height ..... :	N/A
Sprayer type/mph ..... :	CO_2bkpk/3.0
Nozzle type/size ..... :	FF/9505EVS
Boom ht/#noz/spacing (in) .... :	18'/N/A
GPA/psi (at nozzle) ..... :	70/56
Applied by ..... :	Etheredge
Weed species (population/ft^2) . :	(height/# leaves)
N/A	

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments:

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In-Furrow Seed Piece Enhancer Study

Trial ID: 07SC02JG Protocol ID: 07SC02JG
Location: St. Gabriel Study Director: Luke M. Etheredge, Jr.
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CANE 25/Sep/2006 nodes/eyes #/plot	CANE 1/Nov/2006 shoots #/30'	CANE 20/Nov/2006 shoots #/30'
1	Palisade	2.08	EC	1.15	LB A/A	2.22	QT/A	ATPLAN	A	122 a	28 b	39 a
2	Palisade	2.08	EC	5.7	LB A/A	11	QT/A	ATPLAN	A	127 a	8 c	15 b
3	Trimmit	2.08	L	0.29	LB A/A	1.11	PT/A	ATPLAN	A	139 a	49 a	56 a
4	Trimmit	2.08	L	1.15	LB A/A	2.22	QT/A	ATPLAN	A	119 a	46 ab	52 a
5	Tilt	2.08	L	0.0455	LB A/A	2.8	OZ/A	ATPLAN	A	123 a	44 ab	46 a
6	Nontreated									133 a	51 a	59 a
LSD (P=.05)										22.8	15.1	16.1
Standard Deviation										15.2	10.1	10.7
CV										11.93	26.75	24.01
Grand Mean										127.04	37.58	44.46
Bartlett's X2										11.283	4.266	1.607
P(Bartlett's X2)										0.046*	0.512	0.90
Replicate F										0.931	4.444	3.303
Replicate Prob(F)										0.4500	0.0201	0.0493
Treatment F										1.024	11.073	9.123
Treatment Prob(F)										0.4386	0.0001	0.0004

School of Plant, Environmental, and Soil Sciences

In-Furrow Seed Piece Enhancer Study

Trial ID: 07SC02JG Protocol ID: 07SC02JG
Location: St. Gabriel Study Director: Luke M. Etheredge, Jr.
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	4	5	6
Crop Code										CANE	CANE	CANE
Rating Date										11/Apr/2007	11/Apr/2007	15/May/2007
Rating Data Type										shoots	height	shoots
Rating Unit										#/30'	cm	#/30'
1	Palisade	2.08	EC	1.15	LB A/A	2.22	QT/A	ATPLAN	A	72 ab	66 a	181 a
2	Palisade	2.08	EC	5.7	LB A/A	11	QT/A	ATPLAN	A	65 ab	43 b	178 a
3	Trimmit	2.08	L	0.29	LB A/A	1.11	PT/A	ATPLAN	A	83 a	70 a	194 a
4	Trimmit	2.08	L	1.15	LB A/A	2.22	QT/A	ATPLAN	A	75 ab	63 a	197 a
5	Tilt	2.08	L	0.0455	LB A/A	2.8	OZ/A	ATPLAN	A	62 b	63 a	165 a
6	Nontreated									75 ab	67 a	186 a
LSD (P=.05)										12.3	8.5	26.4
Standard Deviation										8.2	5.7	17.5
CV										11.36	9.15	9.56
Grand Mean										72.0	62.04	183.42
Bartlett's X2										1.736	6.005	2.197
P(Bartlett's X2)										0.884	0.306	0.821
Replicate F										19.315	0.320	24.106
Replicate Prob(F)										0.0001	0.8105	0.0001
Treatment F										3.232	11.698	1.763
Treatment Prob(F)										0.0354	0.0001	0.1812

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Evaluation of Valor for Weed Control and Sugarcane Tolerance at Planting

Experiment number ..... :	07SC03JG
Location ..... :	Mike Melancon Farms - Henderson, LA
Experimental design ..... :	Randomized complete block
Number of reps ..... :	4
Plot size ..... :	18' x 50'
Row width/# per plot ..... :	72"/3
Soil type ..... :	silty clay
OM (%) ..... :	1.5
pH ..... :	6.2
Planting date ..... :	08-29-06
Harvest date ..... :	N/A
Crop/Variety ..... :	HoCP 96-540
Uniform std. treatment ..... :	N/A

Application type ..... :	Pre A
Date applied (mm-dd-yy) ..... :	08-30-06
Time (hh:mm-hh:mm) ..... :	01:00-02:00p
Incorporation equipment ..... :	N/A
Incorporation depth ..... :	N/A
Air/Soil temperature (F) ..... :	88/84
Wind (mph/direction) ..... :	3-7/N
Cloud cover (%) ..... :	30
Relative humidity (%) ..... :	53
Soil/Leaf surface moist ..... :	moist/N/A
Crop stage/height ..... :	N/A
Sprayer type/mph ..... :	trctrCA/5.0
Nozzle type/size ..... :	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18"/12/18"
GPA/psi (at nozzle) ..... :	10/35
Applied by ..... :	Etheredge

Weed species (population/ft^2) . :	(height/# leaves)
N/A	

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments:

School of Plant, Environmental, and Soil Sciences

Evaluation of Valor for Weed Control and Sugarcane Tolerance at Planting

Trial ID: 07SC03JG Protocol ID: 07SC03JG
Location: Henderson, LA Study Director: Luke M. Etheredge, Jr.
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CANE 5/Oct/2006 shoots #/50'	LOLMU 10/Nov/2006 control %	CANE 10/Nov/2006 injury %
1	Valor SX	51	WG	0.128	LB A/A	4.0	OZ/A	PRE	A	121 a	74 ab	0 a
2	Valor SX	51	WG	0.191	LB A/A	6.0	OZ/A	PRE	A	134 a	80 ab	0 a
3	Valor SX	51	WG	0.255	LB A/A	8.0	OZ/A	PRE	A	114 a	79 ab	0 a
4	Valor SX	51	WG	0.128	LB A/A	4.0	OZ/A	PRE	A	115 a	83 ab	0 a
	Prowl	3.3	EC	2.9	LB A/A	3.5	QT/A	PRE	A			
5	Valor SX	51	WG	0.191	LB A/A	6.0	OZ/A	PRE	A	119 a	88 a	0 a
	Prowl	3.3	EC	2.9	LB A/A	3.5	QT/A	PRE	A			
6	Valor SX	51	WG	0.255	LB A/A	8.0	OZ/A	PRE	A	114 a	83 ab	0 a
	Prowl	3.3	EC	2.9	LB A/A	3.5	QT/A	PRE	A			
7	Velpar	75	DF	0.519	LB A/A	11.1	OZ/A	PRE	A	129 a	80 ab	0 a
	Karmex XP	80	WG	1.84	LB A/A	2.3	LB/A	PRE	A			
8	Sencor	75	DF	1.5	LB A/A	2.0	LB/A	PRE	A	125 a	70 b	0 a
9	Prowl	3.3	EC	2.9	LB A/A	3.5	QT/A	PRE	A	115 a	74 ab	0 a
	Atrazine	4	L	2	LB A/A	2.0	QT/A	PRE	A			
LSD (P=.05)										22.4	9.3	0.0
Standard Deviation										15.3	6.4	0.0
CV										12.73	8.11	0.0
Grand Mean										120.47	78.75	0.0
Bartlett's X2										3.206	2.015	0.0
P(Bartlett's X2)										0.921	0.981	.
Replicate F										10.103	1.243	0.000
Replicate Prob(F)										0.0002	0.3162	1.0000
Treatment F										0.893	2.872	0.000
Treatment Prob(F)										0.5374	0.0215	1.0000

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Evaluation of DPX-KQG34 (K4 Max) for Weed Control and Sugarcane Tolerance at Planting

Experiment number ..... :	07SC04JG
Location ..... :	Mike Melancon Farms - Henderson, LA
Experimental design ..... :	Randomized complete block
Number of reps ..... :	4
Plot size ..... :	18' x 50'
Row width/# per plot ..... :	72"/3
Soil type ..... :	silty clay
OM (%) ..... :	1.5
pH ..... :	6.2
Planting date ..... :	08-29-06
Harvest date ..... :	N/A
Crop/Variety ..... :	HoCP 96-540
Uniform std. treatment ..... :	N/A

Application type ..... :	Pre A
Date applied (mm-dd-yy) ..... :	08-30-06
Time (hh:mm-hh:mm) ..... :	01:00-02:00p
Incorporation equipment ..... :	N/A
Incorporation depth ..... :	N/A
Air/Soil temperature (F) ..... :	88/84
Wind (mph/direction) ..... :	3-7/N
Cloud cover (%) ..... :	30
Relative humidity (%) ..... :	53
Soil/Leaf surface moist ..... :	moist/N/A
Crop stage/height ..... :	N/A
Sprayer type/mph ..... :	trctrCA/5.0
Nozzle type/size ..... :	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18"/12/18"
GPA/psi (at nozzle) ..... :	10/35
Applied by ..... :	Etheredge

Weed species (population/ft^2) . : (height/# leaves)
N/A

Rainfall (in.) data taken from Jeanerette, Iberia Parish, LA

0-24 hr/1-3 days ..... :	0.00/0.00
4-7 days/2nd week ..... :	0.00/1.92
3rd week/4th week ..... :	1.52/0.16

Comments:

School of Plant, Environmental, and Soil Sciences

Evaluation of DPX-KQG34 (K4 Max) for Weed Control and Sugarcane Tolerance at Planting

Trial ID: 07SC04JG
Location: Henderson, LA

Protocol ID: 07SC04JG
Study Director: Luke M. Etheredge, Jr.
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CANE 5/Oct/2006 shoots #/50'	LOLMU 10/Nov/2006 control %	CANE 10/Nov/2006 injury %
1	Velpar	75	DF	0.344	LB A/A	7.34	OZ/A	PRE	A	117 b	75 a	0 a
	Karmex XP	80	WG	1.23	LB A/A	1.54	LB/A	PRE	A			
2	Velpar	75	DF	0.519	LB A/A	11.1	OZ/A	PRE	A	122 b	75 a	0 a
	Karmex XP	80	WG	1.84	LB A/A	2.3	LB/A	PRE	A			
3	Velpar	75	DF	0.694	LB A/A	14.8	OZ/A	PRE	A	129 b	78 a	0 a
	Karmex XP	80	WG	2.46	LB A/A	3.08	LB/A	PRE	A			
4	Velpar	75	DF	0.794	LB A/A	17	OZ/A	PRE	A	116 b	80 a	0 a
	Karmex XP	80	WG	2.83	LB A/A	3.54	LB/A	PRE	A			
5	Velpar	75	DF	1.21	LB A/A	25.8	OZ/A	PRE	A	126 b	81 a	0 a
	Karmex XP	80	WG	4.31	LB A/A	5.4	LB/A	PRE	A			
6	Velpar	75	DF	0.519	LB A/A	11.1	OZ/A	PRE	A	194 a	83 a	0 a
	Karmex XP	80	WG	1.84	LB A/A	2.3	LB/A	PRE	A			
	Prowl	3.3	EC	1.65	LB A/A	2	QT/A	PRE	A			
7	Prowl	3.3	EC	3.3	LB A/A	4	QT/A	PRE	A	128 b	76 a	0 a
	Atrazine	4	L	4.0	LB A/A	4	QT/A	PRE	A			
8	Velpar	75	DF	0.519	LB A/A	11.1	OZ/A	PRE	A	118 b	70 a	0 a
	Karmex XP	80	WG	1.84	LB A/A	2.3	LB/A	PRE	A			
	Velpar	75	DF	0.519	LB A/A	11.1	OZ/A	Layby	B			
	Karmex XP	80	WG	1.84	LB A/A	2.3	LB/A	Layby	B			
	Induce		L	0.25	% V/V	0.25	% V/V	Layby	B			
LSD (P=.05)										38.6	8.8	0.0
Standard Deviation										26.2	6.0	0.0
CV										19.99	7.76	0.0
Grand Mean										131.22	77.19	0.0
Bartlett's X2										19.694	3.955	0.0
P(Bartlett's X2)										0.006*	0.785	.
Replicate F										4.546	6.826	0.000
Replicate Prob(F)										0.0132	0.0022	1.0000
Treatment F										3.885	1.830	0.000
Treatment Prob(F)										0.0073	0.1341	1.0000

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Asulox/Asulox XP and Envoke POST Johnsongrass Test

Experiment number ..... :	07SC07JG
Location ..... :	Sugar Research Station - St. Gabriel, LA
Experimental design ..... :	Randomized Complete Block
Number of reps ..... :	4
Plot size ..... :	18'X40'
Row width/# per plot ..... :	72"/3
Soil type ..... :	silt loam
OM (%) ..... :	1.0
pH ..... :	5.9
Planting date ..... :	3Rd Stubble
Harvest date ..... :	N/A
Crop/Variety ..... :	LCP-85-384
Uniform std. treatment ..... :	N/A

Application type ..... :	POST A
Date applied (mm-dd-yy) ..... :	04/06/07
Time (hh:mm-hh:mm) ..... :	7:00-7:30am
Incorporation equipment ..... :	N/A
Incorporation depth ..... :	N/A
Air/Soil temperature (F) ..... :	58/67
Wind (mph/direction) ..... :	4-6/NNW
Cloud cover (%) ..... :	40%
Relative humidity (%) ..... :	38%
Soil/Leaf surface moist ..... :	moist/moist
Crop stage/height ..... :	4-6lf/8-12"
Sprayer type/mph ..... :	trctrCA/5.0
Nozzle type/size ..... :	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18 /3-36"band
GPA/psi (at nozzle) ..... :	15/35
Applied by ..... :	Boudreaux

Weed species (population/ft^2) . :	(height/# leaves)
SORHA (3-5/ ft^2) ..... :	18-24"/6-10lf

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments:

School of Plant, Environmental, and Soil Sciences

Asulox/Asulox XP and Envoke POST Johnsongrass Test

Trial ID: 07SC07JG Protocol ID: 07SC07JG
Location: St. Gabriel Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SORHA	CANE	SORHA
Pest Code										SORHA		SORHA
Crop Code											CANE	
Rating Date										4/May/2007	4/May/2007	23/May/2007
Rating Data Type										Control	Injury	Control
Rating Unit										%	%	%
1	Asulox	3.34	L	3.34	LB A/A	8	PT/A	POST	A	44 b	0 b	61 c
	Induce		L	0.25	% V/V	0.25	% V/V	POST	A			
2	Asulox XP	3.13	L	3.13	LB A/A	8	PT/A	POST	A	41 b	0 b	60 c
	Induce		L	0.25	% V/V	0.25	% V/V	POST	A			
3	Asulox	3.34	L	2.5	LB A/A	6	PT/A	POST	A	65 a	10 a	78 ab
	Envoke	75	DF	0.014	LB A/A	0.3	OZ/A	POST	A			
	Induce		L	0.25	% V/V	0.25	% V/V	POST	A			
4	Asulox XP	3.13	L	2.35	LB A/A	6	PT/A	POST	A	68 a	11 a	81 a
	Envoke	75	DF	0.014	LB A/A	0.3	OZ/A	POST	A			
	Induce			0.25	% V/V	0.25	% V/V	POST	A			
5	Asulox	3.34	L	1.67	LB A/A	4	PT/A	POST	A	66 a	8 a	76 ab
	Envoke	75	DF	0.014	LB A/A	0.3	OZ/A	POST	A			
	Induce		L	0.25	% V/V	0.25	% V/V	POST	A			
6	Asulox XP	3.13	L	1.57	LB A/A	4	PT/A	POST	A	64 a	11 a	70 b
	Envoke	75	DF	0.014	LB A/A	0.3	OZ/A	POST	A			
	Induce			0.25	% V/V	0.25	% V/V	POST	A			
7	Nontreated									0 c	0 b	0 d
LSD (P=.05)										6.8	3.2	7.4
Standard Deviation										4.6	2.2	5.0
CV										9.19	37.79	8.21
Grand Mean										49.64	5.71	60.89
Bartlett's X2										5.475	1.0	5.265
P(Bartlett's X2)										0.361	0.801	0.384
Replicate F										1.200	2.043	0.417
Replicate Prob(F)										0.3381	0.1439	0.7432
Treatment F										115.171	25.851	125.810
Treatment Prob(F)										0.0001	0.0001	0.0001

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Department of Agronomy and Environmental Management

Yukon Spring Test

Experiment number ..... :	07SC09JG
Location ..... :	Sugar Research Station - St. Gabriel, LA
Experimental design ..... :	Randomized Complete Block
Number of reps ..... :	4
Plot size ..... :	18'X40'
Row width/# per plot ..... :	72"/3
Soil type ..... :	silt loam
OM (%) ..... :	1.0
pH ..... :	5.9
Planting date ..... :	10-02-06
Harvest date ..... :	N/A
Crop/Variety ..... :	L 97-128
Uniform std. treatment ..... :	N/A
Application type ..... :	POST A
Date applied (mm-dd-yy) ..... :	04/06/07
Time (hh:mm-hh:mm) ..... :	7:30-7:45am
Incorporation equipment ..... :	N/A
Incorporation depth ..... :	N/A
Air/Soil temperature (F) ..... :	58/67
Wind (mph/direction) ..... :	4-6/NNW
Cloud cover (%) ..... :	40%
Relative humidity (%) ..... :	38%
Soil/Leaf surface moist ..... :	moist/moist
Crop stage/height ..... :	4-6lf/8-12"
Sprayer type/mph ..... :	trctrCA/5.0
Nozzle type/size ..... :	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18/3-36"band
GPA/psi (at nozzle) ..... :	15/35
Applied by ..... :	Boudreaux
Weed species (population/ft^2) . :	(height/# leaves)

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments:

School of Plant, Environmental, and Soil Sciences

Yukon Spring Test

Trial ID: 07SC09JG Protocol ID: 07SC09JG
Location: St. Gabriel Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CANE 16/Apr/2007 Injury %	CANE 27/Apr/2007 Injury %
1	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	A	0 c	0 b
	2,4-D Amine 4	3.8	L	0.475	LB AE/A	1	PT/A	POST	A		
	Induce			0.25	% V/V	0.25	% V/V	POST	A		
2	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	A	28 a	8 a
	K-4	60	DG	2.25	LB A/A	3.75	LB/A	POST	A		
	Induce			0.25	% V/V	0.25	% V/V	POST	A		
3	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	A	5 b	2 b
	Evik	76	WG	0.76	LB A/A	1.0	LB/A	POST	A		
	Induce			0.25	% V/V	0.25	% V/V	POST	A		
4	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	A	0 c	0 b
	Atrazine	4	L	3	LB A/A	3	QT/A	POST	A		
	Induce			0.25	% V/V	0.25	% V/V	POST	A		
5	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	A	0 c	2 b
	Envoke	75	DF	0.014	LB A/A	0.3	OZ/A	POST	A		
	Induce			0.25	% V/V	0.25	% V/V	POST	A		
6	Nontreated									0 c	0 b
LSD (P=.05)										1.8	1.8
Standard Deviation										1.2	1.2
CV										21.76	58.13
Grand Mean										5.42	2.08
Bartlett's X2										0.0	5.297
P(Bartlett's X2)										.	0.071
Replicate F										1.000	0.341
Replicate Prob(F)										0.4199	0.7961
Treatment F										348.600	27.864
Treatment Prob(F)										0.0001	0.0001

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Johnsongrass Yukon/Asulox Test

Experiment number	07SC10JG
Location	Sugar Research Station - St. Gabriel, LA
Experimental design	Randomized Complete Block
Number of reps	4
Plot size	18'X35'
Row width/# per plot	72"/3
Soil type	silt loam
OM (%)	1.0
pH	5.9
Planting date	3rd Stubble
Harvest date	N/A
Crop/Variety	LCP-85-384
Uniform std. treatment	N/A

Application type	POST A	POST B
Date applied (mm-dd-yy)	04/06/07	05/14/07
Time (hh:mm-hh:mm)	7:30-7:45am	11:30-12:00pm
Incorporation equipment	N/A	N/A
Incorporation depth	N/A	N/A
Air/Soil temperature (F)	58/67	90/72
Wind (mph/direction)	4-6/NNW	2-3/NE
Cloud cover (%)	40	10
Relative humidity (%)	38	44
Soil/Leaf surface moist	moist/moist	dry/dry
Crop stage/height	4-6lf/8-12"	10-12lf/24-36"
Sprayer type/mph	trctrCA/5.0	trctrCA/3.75
Nozzle type/size	FF/11002VS	FF/11002VS
Boom ht/#noz/spacing (in)	18/3-36"band	18/12/18
GPA/psi (at nozzle)	15/35	15/25
Applied by	Boudreaux	Boudreaux

Weed species (population/ft^2)	(height/# leaves)
SORHA (5/ ft^2)	18-24"/6-10lf

Rainfall (in.)
0-24 hr/1-3 days :
4-7 days/2nd week :
3rd week/4th week :

Comments:

School of Plant, Environmental, and Soil Sciences

Johnsongrass Yukon/Asulox Test

Trial ID: 07SC10JG Protocol ID: 07SC10JG
Location: St. Gabriel Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SORHA 4/May/2007 Control %	CANE 4/May/2007 Injury %	SORHA 23/May/2007 Control %
1	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	A	46 b	0 b	56 b
	Asulox	3.34	L	3.34	LB A/A	4	QT/A	POST	A			
	Induce			0.25	% V/V	0.25	% V/V	POST	A			
2	Yukon	67.5	DG	0.169	LB A/A	4	OZ/A	POST	A	45 b	0 b	58 b
	Asulox	3.34	L	3.34	LB A/A	4	QT/A	POST	A			
	Induce			0.25	% V/V	0.25	% V/V	POST	A			
3	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	A	40 b	0 b	56 b
	Asulox	3.34	L	3.34	LB A/A	4	QT/A	POST	A			
	Induce			0.25	% V/V	0.25	% V/V	POST	A			
	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	B			
	Asulox	3.34	L	3.34	LB A/A	4	QT/A	POST	B			
	Induce			0.25	% V/V	0.25	% V/V	POST	B			
4	Yukon	67.5	DG	0.169	LB A/A	4	OZ/A	POST	A	44 b	0 b	59 b
	Asulox	3.34	L	3.34	LB A/A	4	QT/A	POST	A			
	Induce			0.25	% V/V	0.25	% V/V	POST	A			
	Yukon	67.5	DG	0.169	LB A/A	4	OZ/A	POST	B			
	Asulox	3.34	L	3.34	LB A/A	4	QT/A	POST	B			
	Induce			0.25	% V/V	0.25	% V/V	POST	B			
5	Asulox	3.34	L	1.67	LB A/A	2	QT/A	POST	A	69 a	11 a	76 a
	Envoke	75	DF	0.014	LB A/A	0.3	OZ/A	POST	A			
	Induce			0.25	% V/V	0.25	% V/V	POST	A			
6	Nontreated									0 c	0 b	0 c
LSD (P=.05)										5.1	1.5	7.0
Standard Deviation										3.4	1.0	4.7
CV										8.28	54.43	9.16
Grand Mean										40.63	1.88	50.83
Bartlett's X2										1.877	0.0	4.475
P(Bartlett's X2)										0.758	.	0.346
Replicate F										1.074	1.000	1.154
Replicate Prob(F)										0.3900	0.4199	0.3598
Treatment F										176.853	81.000	125.385
Treatment Prob(F)										0.0001	0.0001	0.0001

School of Plant, Environmental, and Soil Sciences

Johnsongrass Yukon/Asulox Test

Trial ID: 07SC10JG Protocol ID: 07SC10JG
Location: St. Gabriel Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	4	5
Pest Name											SORHA
Crop Code										CANE	
Rating Date										23/May/2007	15/Jun/2007
Rating Data Type										Injury	Control
Rating Unit										%	%
Trt-Eval Interval											
1	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	A	0 b	0 a
	Asulox	3.34	L	3.34	LB A/A	4	QT/A	POST	A		
	Induce			0.25	% V/V	0.25	% V/V	POST	A		
2	Yukon	67.5	DG	0.169	LB A/A	4	OZ/A	POST	A	0 b	0 a
	Asulox	3.34	L	3.34	LB A/A	4	QT/A	POST	A		
	Induce			0.25	% V/V	0.25	% V/V	POST	A		
3	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	A	0 b	0 a
	Asulox	3.34	L	3.34	LB A/A	4	QT/A	POST	A		
	Induce			0.25	% V/V	0.25	% V/V	POST	A		
	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	B		
	Asulox	3.34	L	3.34	LB A/A	4	QT/A	POST	B		
	Induce			0.25	% V/V	0.25	% V/V	POST	B		
4	Yukon	67.5	DG	0.169	LB A/A	4	OZ/A	POST	A	0 b	0 a
	Asulox	3.34	L	3.34	LB A/A	4	QT/A	POST	A		
	Induce			0.25	% V/V	0.25	% V/V	POST	A		
	Yukon	67.5	DG	0.169	LB A/A	4	OZ/A	POST	B		
	Asulox	3.34	L	3.34	LB A/A	4	QT/A	POST	B		
	Induce			0.25	% V/V	0.25	% V/V	POST	B		
5	Asulox	3.34	L	1.67	LB A/A	2	QT/A	POST	A	6 a	0 a
	Envoke	75	DF	0.014	LB A/A	0.3	OZ/A	POST	A		
	Induce			0.25	% V/V	0.25	% V/V	POST	A		
6	Nontreated									0 b	0 a
LSD (P=.05)										1.6	0.0
Standard Deviation										1.1	0.0
CV										101.42	0.0
Grand Mean										1.04	0.0
Bartlett's X2										0.0	0.0
P(Bartlett's X2)										.	.
Replicate F										0.933	0.000
Replicate Prob(F)										0.4506	1.0000
Treatment F										23.333	0.000
Treatment Prob(F)										0.0001	1.0000

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Fallow Field Weed Control with Yukon

Experiment number ..... :	07SC11JG
Location ..... :	Keith Mathern Farm – Donaldsonville, LA
Experimental design ..... :	Randomized Complete Block
Number of reps ..... :	4
Plot size ..... :	8X30FT
Row width/# per plot ..... :	N/A
Soil type ..... :	silt loam
OM (%) ..... :	1.1
pH ..... :	5.9
Planting date ..... :	N/A
Harvest date ..... :	N/A
Crop/Variety ..... :	N/A
Uniform std. treatment ..... :	N/A

Application type ..... :	POST A
Date applied (mm-dd-yy) ..... :	07-10-07
Time (hh:mm-hh:mm) ..... :	11:30-11:45am
Incorporation equipment ..... :	N/A
Incorporation depth ..... :	N/A
Air/Soil temperature (F) ..... :	90/78
Wind (mph/direction) ..... :	3-6/E
Cloud cover (%) ..... :	70%
Relative humidity (%) ..... :	58%
Soil/Leaf surface moist ..... :	Dry/Dry
Crop stage/height ..... :	N/A
Sprayer type/mph ..... :	CO_2bkpk/3.0
Nozzle type/size ..... :	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18”/4/18”
GPA/psi (at nozzle) ..... :	15/25
Applied by ..... :	Boudreaux

Weed species (population/ft^2) . :	(height/# leaves)
CYPRO (2-3) ..... :	4-6”/4-6lf
CYPES (2-3) ..... :	6-8”/6-8lf

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments:

School of Plant, Environmental, and Soil Sciences

Fallow Field Weed Control with Yukon

Trial ID: 07SC11JG
Location: Donaldsonville

Protocol ID: 07SC11JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CYPSS 24/Jul/2007 Control %	CYPSS 8/Aug/2007 Control %
1	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	A	60 a	85 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A		
	Agridex			1.0	% V/V	1	% V/V	POST	A		
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B		
2	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	A	58 a	89 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A		
	Agridex			1.0	% V/V	1	% V/V	POST	A		
	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	B		
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B		
	Agridex			1.0	% V/V	1	% V/V	POST	B		
3	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	A	46 b	85 a
	Clarity	4	L	0.313	LB AE/A	10	OZ/A	POST	A		
	Agridex			1.0	% V/V	1	% V/V	POST	A		
	Roundup Original Max	5.5	L	1.0	LB A/A	23.3	OZ/A	POST	B		
4	Yukon	67.5	DG	0.253	LB A/A	6	OZ/A	POST	A	46 b	83 a
	Envoke	75	DF	0.007	LB A/A	0.15	OZ/A	POST	A		
	Agridex			1.0	% V/V	1	% V/V	POST	A		
	Roundup Original Max	5.5	L	1.0	LB A/A	23.3	OZ/A	POST	B		
5	Roundup Original Max	5.5	L	1.0	LB A/A	23.3	OZ/A	POST	A	48 b	76 b
	Roundup Original Max	5.5	L	1.0	LB A/A	23.3	OZ/A	POST	B		

LSD (P=.05)	6.5	5.8
Standard Deviation	4.2	3.7
CV	8.17	4.47
Grand Mean	51.5	83.5
Bartlett's X2	3.12	3.115
P(Bartlett's X2)	0.374	0.539
Replicate F	0.471	1.075
Replicate Prob(F)	0.7084	0.3966
Treatment F	10.129	6.134
Treatment Prob(F)	0.0008	0.0063

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Department of Agronomy and Environmental Management

Eptam Fallow Study

Experiment number	07SC12JG
Location	Sugar Research Station - St. Gabriel, LA
Experimental design	Randomized Complete Block
Number of reps	4
Plot size	18X50ft.
Row width/# per plot	72”/3
Soil type	silt loam
OM (%)	1.0
pH	5.9
Planting date	09-20-07
Harvest date	N/A
Crop/Variety	L 99-226
Uniform std. treatment	N/A

Application type	PRE	POST B	POST C
Date applied (mm-dd-yy)	06-08-07	07-10-07	07-24-07
Time (hh:mm-hh:mm)	10:00-12:00am	9:00-9:30am	9:30-10:00am
Incorporation equipment	See Comments	N/A	N/A
Incorporation depth	3”	N/A	N/A
Air/Soil temperature (F)	88/80	92/78	89/81
Wind (mph/direction)	3-6/SW	2-6/SE	1-3/S
Cloud cover (%)	50%	70%	50%
Relative humidity (%)	70%	53%	50%
Soil/Leaf surface moist	Moist/N/A	Dry/ Dry	Dry/Dry
Crop stage/height	N/A	N/A	N/A
Sprayer type/mph	trctrCA/3.75	trctrCA/3.75	trctr.pto/5.0
Nozzle type/size	FF/11002VS	FF/11002VS	FF/11003VS
Boom ht/#noz/spacing (in)	18”/12/18”	18”/12/18”	18”/12/18”
GPA/psi (at nozzle)	15/32	15/32	15/25
Applied by	Griffin	Boudreaux	Boudreaux

Weed species (population/ft^2)	(height/# leaves)		
CYNDA (1-2)		6-8” runners	6-10” runners
SORHA (<1)		18-24”/15-20lf	24-36”/15-20lf

Rainfall (in.)
0-24 hr/1-3 days
4-7 days/2nd week
3rd week/4th week

Comments:
Pre trts. incorporated with a bedder or cultivator.

School of Plant, Environmental, and Soil Sciences

Eptam Fallow Study

Trial ID: 07SC12JG Protocol ID: 07SC12JG
Location: St. Gabriel Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CYNDA 9/Jul/2007 GroundCover %	CYNDA 24/Jul/2007 GroundCover %
1	Eptam/bedder	7	E	1.75	LB A/A	2	PT/A	PRE	A	10 bc	16 ab
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
2	Eptam/bedder	7	E	2.63	LB A/A	3	PT/A	PRE	A	8 bc	12 ab
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
3	Eptam/bedder	7	E	3.5	LB A/A	4	PT/A	PRE	A	10 bc	19 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
4	Eptam/bedder	7	E	4.38	LB A/A	5	PT/A	PRE	A	7 bc	12 ab
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
5	Eptam/cultivator	7	E	1.75	LB A/A	2	PT/A	PRE	A	2 c	5 ab
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
6	Eptam/cultivator	7	E	2.63	LB A/A	3	PT/A	PRE	A	2 c	3 b
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
7	Eptam/cultivator	7	E	3.5	LB A/A	4	PT/A	PRE	A	4 c	6 ab
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
8	Eptam/cultivator	7	E	4.38	LB A/A	5	PT/A	PRE	A	2 c	5 ab
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
9	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	B	15 abc	
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
10	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	B	24 ab	
	Yukon	67.5	DG	0.253	LB A/A	6.0	OZ/A	POST	B		
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
11	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	B	26 a	
	Envoke	75	DF	0.007	LB A/A	0.15	OZ/A	POST	B		
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		

	CYNDA 9/Jul/2007 GroundCover %	CYNDA 24/Jul/2007 GroundCover %
LSD (P=.05)	11.4	9.4
Standard Deviation	7.9	6.4
CV	78.72	66.03
Grand Mean	10.0	9.72
Bartlett's X2	33.464	15.879
P(Bartlett's X2)	0.001*	0.026*
Replicate F	4.614	7.752
Replicate Prob(F)	0.0090	0.0011
Treatment F	4.638	3.454
Treatment Prob(F)	0.0005	0.0128

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Eptam Fallow Study

Trial ID: 07SC12JG
Location: St. Gabriel

Protocol ID: 07SC12JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CYNDA 24/Jul/2007 Control %	SORHA 24/Jul/2007 Control %	CYNDA 8/Aug/2007 Control %
1	Eptam/bedder	7	E	1.75	LB A/A	2	PT/A	PRE	A			97 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C			
2	Eptam/bedder	7	E	2.63	LB A/A	3	PT/A	PRE	A			97 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C			
3	Eptam/bedder	7	E	3.5	LB A/A	4	PT/A	PRE	A			99 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C			
4	Eptam/bedder	7	E	4.38	LB A/A	5	PT/A	PRE	A			97 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C			
5	Eptam/cultivator	7	E	1.75	LB A/A	2	PT/A	PRE	A			98 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C			
6	Eptam/cultivator	7	E	2.63	LB A/A	3	PT/A	PRE	A			99 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C			
7	Eptam/cultivator	7	E	3.5	LB A/A	4	PT/A	PRE	A			98 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C			
8	Eptam/cultivator	7	E	4.38	LB A/A	5	PT/A	PRE	A			99 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C			
9	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	B	95 a	95 a	97 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C			
10	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	B	95 a	95 a	96 a
	Yukon	67.5	DG	0.253	LB A/A	6.0	OZ/A	POST	B			
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C			
11	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	B	95 a	95 a	96 a
	Envoke	75	DF	0.007	LB A/A	0.15	OZ/A	POST	B			
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C			

LSD (P=.05)	0.0	0.0	2.3
Standard Deviation	0.0	0.0	1.6
CV	0.0	0.0	1.63
Grand Mean	95.0	95.0	97.45
Bartlett's X2	0.0	0.0	3.094
P(Bartlett's X2)	.	.	0.979
Replicate F	0.000	0.000	1.179
Replicate Prob(F)	1.0000	1.0000	0.3344
Treatment F	0.000	0.000	1.921
Treatment Prob(F)	1.0000	1.0000	0.0816

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Eptam Fallow Study II

Experiment number ..... :	07SC13JG		
Location ..... :	Keith Mathern Farm – Donaldsonville, LA		
Experimental design ..... :	Randomized Complete Block		
Number of reps ..... :	4		
Plot size ..... :	18X100ft.		
Row width/# per plot ..... :	72”/3		
Soil type ..... :	silt loam		
OM (%) ..... :	1.1		
pH ..... :	5.9		
Planting date ..... :	N/A		
Harvest date ..... :	N/A		
Crop/Variety ..... :	N/A		
Uniform std. treatment ..... :	N/A		
Application type ..... :	PRE A	POST B	POST C
Date applied (mm-dd-yy) ..... :	06-12-07	07-10-07	07-24-07
Time (hh:mm-hh:mm) ..... :	10:00-12:00am	11:00-11:30am	11:30-12:00am
Incorporation equipment ..... :	Chisel/Bedder	N/A	N/A
Incorporation depth ..... :	3-6”	N/A	N/A
Air/Soil temperature (F) ..... :	92/81	89/76	92/81
Wind (mph/direction) ..... :	3-6/NW	4-7/E	2-5/E
Cloud cover (%) ..... :	70%	60%	30%
Relative humidity (%) ..... :	47%	50%	57%
Soil/Leaf surface moist ..... :	Dry/N/A	Dry/Dry	Dry/Dry
Crop stage/height ..... :	N/A	N/A	N/A
Sprayer type/mph ..... :	trctrCA/3.75	trctrCA/3.75	trctr.pto/5.0
Nozzle type/size ..... :	FF/11002VS	FF/11002VS	FF/11003VS
Boom ht/#noz/spacing (in) .... :	18”/12/18”	18”/12/18”	18”/12/18”
GPA/psi (at nozzle) ..... :	15/32	15/32	15/25
Applied by ..... :	Boudreaux	Boudreaux	Boudreaux
Weed species (population/ft^2) . :	(height/# leaves)		
CYPRO (3-4) ..... :		4-6”/4-6lf	4-6”/4-6lf
CYPEX (3-4) ..... :		4-6”/4-6lf	4-6”/4-6lf

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments:

School of Plant, Environmental, and Soil Sciences

Eptam Fallow Study II

Trial ID: 07SC13JG
Location: Donaldsonville

Protocol ID: 07SC13JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CYPSS 9/Jul/2007 GroundCover %	CYPSS 24/Jul/2007 GroundCover %
1	Eptam	7	E	1.75	LB A/A	2	PT/A	PRE	A	18 b	48 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
2	Eptam	7	E	2.63	LB A/A	3	PT/A	PRE	A	13 b	45 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
3	Eptam	7	E	3.5	LB A/A	4	PT/A	PRE	A	8 b	25 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
4	Eptam	7	E	4.38	LB A/A	5	PT/A	PRE	A	4 b	24 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
5	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	B	51 a	
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
6	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	B	50 a	
	Yukon	67.5	DG	0.253	LB A/A	6.0	OZ/A	POST	B		
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
7	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	B	38 a	
	Envoke	75	DF	0.007	LB A/A	0.15	OZ/A	POST	B		
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		

	CYPSS 9/Jul/2007 GroundCover %	CYPSS 24/Jul/2007 GroundCover %
LSD (P=.05)	13.7	19.4
Standard Deviation	9.2	12.1
CV	35.66	34.38
Grand Mean	25.93	35.31
Bartlett's X2	20.739	7.994
P(Bartlett's X2)	0.002*	0.046*
Replicate F	3.256	1.057
Replicate Prob(F)	0.0458	0.4144
Treatment F	18.595	4.364
Treatment Prob(F)	0.0001	0.0371

School of Plant, Environmental, and Soil Sciences

Eptam Fallow Study II

Trial ID: 07SC13JG
Location: Donaldsonville

Protocol ID: 07SC13JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CYPSS 24/Jul/2007 Control %	CYPSS 8/Aug/2007 Control %
1	Eptam	7	E	1.75	LB A/A	2	PT/A	PRE	A		73 b
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
2	Eptam	7	E	2.63	LB A/A	3	PT/A	PRE	A		78 b
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
3	Eptam	7	E	3.5	LB A/A	4	PT/A	PRE	A		84 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
4	Eptam	7	E	4.38	LB A/A	5	PT/A	PRE	A		85 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
5	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	B	79 a	89 a
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
6	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	B	61 c	91 a
	Yukon	67.5	DG	0.253	LB A/A	6.0	OZ/A	POST	B		
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		
7	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	B	73 b	92 a
	Envoke	75	DF	0.007	LB A/A	0.15	OZ/A	POST	B		
	Roundup Original Max	5.5	L	2.0	LB A/A	46.5	OZ/A	POST	C		

	CYPSS 24/Jul/2007 Control %	CYPSS 8/Aug/2007 Control %
LSD (P=.05)	5.9	5.6
Standard Deviation	3.4	3.7
CV	4.85	4.44
Grand Mean	70.83	84.21
Bartlett's X2	1.995	2.438
P(Bartlett's X2)	0.369	0.875
Replicate F	1.176	11.079
Replicate Prob(F)	0.3942	0.0002
Treatment F	26.647	14.146
Treatment Prob(F)	0.0010	0.0001

Louisiana State University

School of Plant, Environmental, and Soil Sciences

Roundup Programs Test

Experiment number ..... :	07SB01JG		
Location ..... :	Ben Hur Research Farm- Baton Rouge LA		
Experimental design ..... :	Randomized Complete Block		
Number of reps ..... :	4		
Plot size ..... :	8 X 30 ft		
Row width/# per plot ..... :	15”/3		
Soil type ..... :	clay loam		
OM (%) ..... :	1.9		
pH ..... :	6.3		
Planting date ..... :	04-30-07		
Harvest date ..... :	N/A		
Crop/Variety ..... :	Asgrow 5903		
Uniform std. treatment ..... :	05-01-07 - Post – Roundup Original Max at 23.3oz/A		
Application type ..... :	PRE	EPOST B	POST C
Date applied (mm-dd-yy) ..... :	05-02-07	05-31-07	06-18-07
Time (hh:mm-hh:mm) ..... :	8:00-8:30am	11:30-12:00pm	8:30-8:45am
Incorporation equipment ..... :	N/A	N/A	N/A
Incorporation depth ..... :	N/A	N/A	N/A
Air/Soil temperature (F) ..... :	74/75	88/65	86/75
Wind (mph/direction) ..... :	2-3/SE	1-3/SE	4-6/SE
Cloud cover (%) ..... :	50%	70%	25%
Relative humidity (%) ..... :	80%	54%	85%
Soil/Leaf surface moist ..... :	Dry/N/A	Moist/Dry	Dry/Moist
Crop stage/height ..... :	N/A	V3-V4/10-12”	V8-V10/26-32”
Sprayer type/mph ..... :	CO_2bkpk/3.0	CO_2bkpk/3.0	CO_2bkpk/3.0
Nozzle type/size ..... :	FF/11002VS	FF/11002VS	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18”/4/18”	18”/4/18”	18”/4/18”
GPA/psi (at nozzle) ..... :	15/25	15/25	15/25
Applied by ..... :	Boudreaux	Boudreaux	Boudreaux
Weed species (population/ft^2) . :	(height/# leaves)		
ECHCG (2-3) ..... :		3-4”/8-10lf	3-6”/6-10lf
PHYAN (2) ..... :		3-4”/8-12lf	3-6”/6-12lf
IPOHE (1) ..... :		6-10” runners	8-12”runners
MEOCO (1-2) ..... :		1-2”/ 2-3lf	1-2”/2-3lf
Rainfall (in.)			
0-24 hr/1-3 days ..... :			
4-7 days/2nd week ..... :			
3rd week/4th week ..... :			

Comments:

School of Plant, Environmental, and Soil Sciences

Roundup Programs Test

Trial ID: 07SB01JG
Location: Ben Hur

Protocol ID: 07SB01JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ECHCG 31/May/2007 Control %	IPOLA 31/May/2007 Control %
1	Valor	51	WP	0.064	LB A/A	2	OZ/A	PRE	A	83 a	50 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
2	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	0 b	0 b
3	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	0 b	0 b
4	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	0 b	0 b
5	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	0 b	0 b
	Dual II Magnum	7.64	L	0.955	LB A/A	1	PT/A	EPOST	B		
6	Sequence	5.25	L	1.64	LB A/A	2.5	PT/A	EPOST	B	0 b	0 b
7	Sequence	5.25	L	1.97	LB A/A	3.0	PT/A	EPOST	B	0 b	0 b
8	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	0 b	0 b
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
9	Nontreated									0 b	0 b
LSD (P=.05)										2.4	2.0
Standard Deviation										1.7	1.4
CV										18.18	24.49
Grand Mean										9.17	5.56
Bartlett's X2										0.0	0.0
P(Bartlett's X2)										.	.
Replicate F										1.000	1.000
Replicate Prob(F)										0.4098	0.4098
Treatment F										1089.000	600.000
Treatment Prob(F)										0.0001	0.0001

School of Plant, Environmental, and Soil Sciences

Roundup Programs Test

Trial ID: 07SB01JG
Location: Ben Hur

Protocol ID: 07SB01JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	PHYAN 31/May/2007 Control %	ECHCG 14/Jun/2007 Control %
1	Valor	51	WP	0.064	LB A/A	2	OZ/A	PRE	A	100 a	86 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
2	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	0 b	90 a
3	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	0 b	83 a
4	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	0 b	90 a
5	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	0 b	86 a
	Dual II Magnum	7.64	L	0.955	LB A/A	1	PT/A	EPOST	B		
6	Sequence	5.25	L	1.64	LB A/A	2.5	PT/A	EPOST	B	0 b	89 a
7	Sequence	5.25	L	1.97	LB A/A	3.0	PT/A	EPOST	B	0 b	90 a
8	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	0 b	93 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
9	Nontreated									0 b	0 b
LSD (P=.05)										0.0	10.7
Standard Deviation										0.0	7.3
CV										0.0	9.31
Grand Mean										11.11	78.47
Bartlett's X2										0.0	3.823
P(Bartlett's X2)										.	0.80
Replicate F										0.000	1.088
Replicate Prob(F)										1.0000	0.3732
Treatment F										0.000	65.490
Treatment Prob(F)										1.0000	0.0001

School of Plant, Environmental, and Soil Sciences

Roundup Programs Test

Trial ID: 07SB01JG
Location: Ben Hur

Protocol ID: 07SB01JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	IPOLA 14/Jun/2007 Control %	PHYAN 14/Jun/2007 Control %
1	Valor	51	WP	0.064	LB A/A	2	OZ/A	PRE	A	50 a	98 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
2	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	59 a	96 a
3	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	58 a	96 a
4	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	59 a	96 a
5	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	63 a	95 a
	Dual II Magnum	7.64	L	0.955	LB A/A	1	PT/A	EPOST	B		
6	Sequence	5.25	L	1.64	LB A/A	2.5	PT/A	EPOST	B	60 a	99 a
7	Sequence	5.25	L	1.97	LB A/A	3.0	PT/A	EPOST	B	60 a	96 a
8	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	EPOST	B	70 a	98 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
9	Nontreated									0 b	0 b
LSD (P=.05)										13.0	3.3
Standard Deviation										8.9	2.3
CV										16.8	2.65
Grand Mean										53.06	86.06
Bartlett's X2										8.565	3.79
P(Bartlett's X2)										0.285	0.804
Replicate F										4.323	13.443
Replicate Prob(F)										0.0143	0.0001
Treatment F										21.280	799.775
Treatment Prob(F)										0.0001	0.0001

Louisiana State University

School of Plant, Environmental, and Soil Sciences

Manganese/Glyphosate POST Test

Experiment number ..... :	07SB03JG
Location ..... :	Ben Hur Research Farm- Baton Rouge LA
Experimental design ..... :	Randomized Complete Block
Number of reps ..... :	4
Plot size ..... :	8X30ft.
Row width/# per plot ..... :	15”/3
Soil type ..... :	clay loam
OM (%) ..... :	1.9
pH ..... :	6.3
Planting date ..... :	05-09-07
Harvest date ..... :	10-26-07
Crop/Variety ..... :	Asgrow 5903
Uniform std. treatment ..... :	

Application type ..... :	POST A	10 DAT A	POST B	10 DAT B
Date applied (mm-dd-yy) ..... :	06-05-07	06-14-07	06-25-07	07-05-07
Time (hh:mm-hh:mm) ..... :	11:00-11:45am	8:30-8:45am	10:30-10:45am	9:00-9:15am
Incorporation equipment ..... :	N/A	N/A	N/A	N/A
Incorporation depth ..... :	N/A	N/A	N/A	N/A
Air/Soil temperature (F) ..... :	86/65	82/76	80/73	81/75
Wind (mph/direction) ..... :	1-4/SE	2-5/E	3-6/S	2-6/E
Cloud cover (%) ..... :	20%	40%	40%	80%
Relative humidity (%) ..... :	75%	80%	70%	91%
Soil/Leaf surface moist ..... :	Dry/Dry	Dry/Dry	Dry/Dry	Moist/Moist
Crop stage/height ..... :	V4-V6/10-12”	V6/18-24”	V10-V12/28-32”	R1/32-34”
Sprayer type/mph ..... :	trctrCA/3.75	CO_2bkpk/3.0	CO_2bkpk/3.0	CO_2bkpk/3.0
Nozzle type/size ..... :	FF/11002VS	FF/11002VS	FF/11002VS	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18”/6/18”	18”/4/18”	18”/4/18”	18”/4/18”
GPA/psi (at nozzle) ..... :	15/32	15/25	15/25	15/25
Applied by ..... :	Boudreaux	Boudreaux	Boudreaux	Boudreaux

Weed species (population/ft^2) . : (height/# leaves)
N/A

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments:

Manganese/Glyphosate Post Test

Project Code: 07SB03JG

Application type ..... :	POST C	10 DAT C
Date applied (mm-dd-yy)..... :	07-12-07	07-23-07
Time (hh:mm-hh:mm) ..... :	9:30-9:45am	12:00-12:15pm
Incorporation equipment..... :	N/A	N/A
Incorporation depth..... :	N/A	N/A
Air/Soil temperature (F)..... :	88/80	88/80
Wind (mph/direction) ..... :	2-5/W	1-3/S
Cloud cover (%) ..... :	35%	30%
Relative humidity (%)..... :	79%	53%
Soil/Leaf surface moist ..... :	Moist/Dry	Dry/Dry
Crop stage/height ..... :	R2/36-38”	R2-R3/38”
Sprayer type/mph..... :	CO_2bkpk/3.0	CO_2bkpk/3.0
Nozzle type/size ..... :	FF/11002VS	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18”/4/18”	18”/4/18”
GPA/psi (at nozzle) ..... :	15/25	15/25
Applied by ..... :	Boudreaux	Boudreaux

Weed species (population/ft^2) . : (height/# leaves)
N/A

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week..... :
3rd week/4th week ..... :

Comments:

School of Plant, Environmental, and Soil Sciences

Manganese/Glyphosate POST Test

Trial ID: 07SB03JG
Location: Ben Hur

Protocol ID: 07SB03JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 14/Jun/2007 Injury %	SOYBEAN 29/Oct/2007 yield lbs
1	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	0 b	11.42 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B		
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
2	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	5 a	10.65 a
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	POST	A		
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B		
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
3	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	0 b	11.26 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B		
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	POST	B		
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
4	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	0 b	10.47 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B		
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
	EDTA					2	QT/A	POST	C		
5	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	0 b	10.56 a
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	10 DAT	A		
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B		
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
6	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	0 b	10.50 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B		
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	10 DAT	B		
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
7	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	0 b	10.71 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B		
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	10 DAT	C		

School of Plant, Environmental, and Soil Sciences

Manganese/Glyphosate POST Test

Trial ID: 07SB03JG
Location: Ben Hur

Protocol ID: 07SB03JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 14/Jun/2007 Injury %	SOYBEAN 29/Oct/2007 yield lbs
8	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	5 a	11.06 a
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	POST	A		
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B		
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	POST	B		
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C		
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	POST	C		
LSD (P=.05)										0.0	1.940
Standard Deviation										0.0	1.315
CV										0.0	12.15
Grand Mean										1.25	10.83
Bartlett's X2										0.0	7.732
P(Bartlett's X2)										.	0.357
Replicate F										0.000	7.650
Replicate Prob(F)										1.0000	0.0013
Treatment F										0.000	0.311
Treatment Prob(F)										1.0000	0.9406

School of Plant, Environmental, and Soil Sciences

Manganese/Glyphosate POST Test

Trial ID: 07SB03JG
Location: Ben Hur

Protocol ID: 07SB03JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Crop Code	SOYBEAN
Rating Date	29/Oct/2007
Rating Data Type	YIELD
Rating Unit	BU

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	54.31 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B	
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C	
2	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	50.65 a
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	POST	A	
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B	
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C	
3	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	53.55 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B	
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	POST	B	
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C	
4	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	49.80 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B	
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C	
	EDTA					2	QT/A	POST	C	
5	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	50.23 a
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	10 DAT	A	
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B	
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C	
6	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	49.96 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B	
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	10 DAT	B	
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C	
7	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	50.93 a
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B	
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C	
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	10 DAT	C	

School of Plant, Environmental, and Soil Sciences

Manganese/Glyphosate POST Test

Trial ID: 07SB03JG Protocol ID: 07SB03JG
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Crop Code	SOYBEAN
Rating Date	29/Oct/2007
Rating Data Type	YIELD
Rating Unit	BU

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
8	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	A	52.63 a
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	POST	A	
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	B	
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	POST	B	
	Roundup Original Max	5.5	L	1	LB A/A	23.3	OZ/A	POST	C	
	EDTA	0.6372	L	0.32	LB A/A	2	QT/A	POST	C	

LSD (P=.05)	9.228
Standard Deviation	6.256
CV	12.15
Grand Mean	51.51
Bartlett's X2	7.732
P(Bartlett's X2)	0.357
Replicate F	7.650
Replicate Prob(F)	0.0013
Treatment F	0.311
Treatment Prob(F)	0.9406

Louisiana State University

School of Plant, Environmental, and Soil Sciences

PRE Weed Control with A14972 in Soybean

Experiment number ..... :	07SB04JG		
Location ..... :	Ben Hur Research Farm - Baton Rouge, LA		
Experimental design ..... :	Randomized Complete Block		
Number of reps ..... :	4		
Plot size ..... :	8 X30 ft		
Row width/# per plot ..... :	15”/3		
Soil type ..... :	clay loam		
OM (%) ..... :	1.9		
pH ..... :	6.3		
Planting date ..... :	04-30-07		
Harvest date ..... :			
Crop/Variety ..... :	Asgrow 5903		
Uniform std. treatment ..... :	Roundup Original Max 05-01-07		
Application type ..... :	PRE	EPOST B	POST C
Date applied (mm-dd-yy) ..... :	05-02-07	05-31-07	06-18-07
Time (hh:mm-hh:mm) ..... :	8:00-8:30am	11:30-12:00pm	8:45-9:00
Incorporation equipment ..... :	N/A	N/A	N/A
Incorporation depth ..... :	N/A	N/A	N/A
Air/Soil temperature (F) ..... :	74/75	88/65	86/75
Wind (mph/direction) ..... :	2-3/SE	1-3/SE	4-6/SE
Cloud cover (%) ..... :	50%	70%	25%
Relative humidity (%) ..... :	80%	54%	85%
Soil/Leaf surface moist ..... :	Dry/N/A	Moist/Dry	Dry/Moist
Crop stage/height ..... :	N/A	V3-V4/10-12”	V8-V10/26-32”
Sprayer type/mph ..... :	CO_2bkpk/3.0	CO_2bkpk/3.0	CO_2bkpk/3.0
Nozzle type/size ..... :	FF/11002VS	FF/11002VS	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18”/4/18”	18”/4/18”	18”/4/18”
GPA/psi (at nozzle) ..... :	15/25	15/25	15/25
Applied by ..... :	Boudreaux	Boudreaux	Boudreaux
Weed species (population/ft^2) . :	(height/# leaves)		
ECHCG (2-3) ..... :		3-4”/8-10lf	3-6”/6-10lf
PHYAN (2) ..... :		3-4”/8-12lf	6-8”/6-12lf
IPOHE (1) ..... :		6-10” runners	6-8”runners
MEOCO (1-2) ..... :		1-2”/ 2-3lf	1-2”/ 2-3lf
Rainfall (in.)			
0-24 hr/1-3 days ..... :	0.00/3.18	0.16/0.02	0.00/5.76
4-7 days/2nd week ..... :	0.04/1.73	0.09/0.17	0.00/0.08
3rd week/4th week ..... :	0.03/0.95	5.77/0.10	3.15/1.53

Comments:

School of Plant, Environmental, and Soil Sciences

PRE Weed Control with A14972 in Soybean

Trial ID: 07SB04JG
Location: Ben Hur

Protocol ID: 07SB04JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ECHCG 31/May/2007 Control %	IPOLA 31/May/2007 Control %
1	A14972	5.27	EC	1.32	LB A/A	2	PT/A	PRE	A	100 a	76 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
2	A14972	5.27	EC	1.32	LB A/A	2	PT/A	PRE	A	100 a	65 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	EPOST	B		
3	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	PRE	A	100 a	58 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
4	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	PRE	A	100 a	58 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	EPOST	B		
5	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	EPOST	B	0 b	0 b
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	C		
6	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	EPOST	B	0 b	0 b
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	C		
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	POST	C		
7	Nontreated									0 b	0 b
LSD (P=.05)										0.0	16.0
Standard Deviation										0.0	10.8
CV										0.0	29.47
Grand Mean										57.14	36.61
Bartlett's X2										0.0	4.889
P(Bartlett's X2)										.	0.18
Replicate F										0.000	1.358
Replicate Prob(F)										1.0000	0.2873
Treatment F										0.000	41.655
Treatment Prob(F)										1.0000	0.0001

School of Plant, Environmental, and Soil Sciences

PRE Weed Control with A14972 in Soybean

Trial ID: 07SB04JG
Location: Ben Hur

Protocol ID: 07SB04JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	PHYAN 31/May/2007 Control %	ECHCG 14/Jun/2007 Control %
1	A14972	5.27	EC	1.32	LB A/A	2	PT/A	PRE	A	100 a	100 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
2	A14972	5.27	EC	1.32	LB A/A	2	PT/A	PRE	A	100 a	100 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	EPOST	B		
3	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	PRE	A	86 ab	100 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
4	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	PRE	A	81 b	100 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	EPOST	B		
5	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	EPOST	B	0 c	83 b
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	C		
6	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	EPOST	B	0 c	83 b
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	C		
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	POST	C		
7	Nontreated									0 c	0 c
LSD (P=.05)										12.2	4.9
Standard Deviation										8.2	3.3
CV										15.63	4.06
Grand Mean										52.5	80.71
Bartlett's X2										0.86	0.0
P(Bartlett's X2)										0.354	1.00
Replicate F										1.361	1.778
Replicate Prob(F)										0.2865	0.1874
Treatment F										145.948	498.333
Treatment Prob(F)										0.0001	0.0001

School of Plant, Environmental, and Soil Sciences

PRE Weed Control with A14972 in Soybean

Trial ID: 07SB04JG
Location: Ben Hur

Protocol ID: 07SB04JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	IPOLA 14/Jun/2007 Control %	PHYAN 14/Jun/2007 Control %
1	A14972	5.27	EC	1.32	LB A/A	2	PT/A	PRE	A	84 a	100 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
2	A14972	5.27	EC	1.32	LB A/A	2	PT/A	PRE	A	88 a	100 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	EPOST	B		
3	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	PRE	A	81 a	100 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
4	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	PRE	A	76 ab	99 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	EPOST	B		
5	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	EPOST	B	66 b	98 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	C		
6	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	EPOST	B	68 b	96 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	C		
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	POST	C		
7	Nontreated									0 c	0 b
LSD (P=.05)										9.4	3.0
Standard Deviation										6.3	2.0
CV										9.53	2.4
Grand Mean										66.07	84.57
Bartlett's X2										8.465	5.586
P(Bartlett's X2)										0.132	0.134
Replicate F										1.770	3.320
Replicate Prob(F)										0.1889	0.0433
Treatment F										91.950	1348.493
Treatment Prob(F)										0.0001	0.0001

School of Plant, Environmental, and Soil Sciences

PRE Weed Control with A14972 in Soybean

Trial ID: 07SB04JG
Location: Ben Hur

Protocol ID: 07SB04JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ECHCHG 22/Jun/2007 Control %	IPOLA 22/Jun/2007 Control %
1	A14972	5.27	EC	1.32	LB A/A	2	PT/A	PRE	A	100 a	93 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
2	A14972	5.27	EC	1.32	LB A/A	2	PT/A	PRE	A	100 a	90 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	EPOST	B		
3	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	PRE	A	100 a	90 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
4	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	PRE	A	100 a	88 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B		
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	EPOST	B		
5	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	EPOST	B	91 b	83 ab
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	C		
6	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	EPOST	B	93 b	78 b
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	C		
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	POST	C		
7	Nontreated									0 c	0 c
LSD (P=.05)										2.0	7.5
Standard Deviation										1.4	5.1
CV										1.65	6.84
Grand Mean										83.39	74.29
Bartlett's X2										0.06	0.498
P(Bartlett's X2)										0.806	0.992
Replicate F										1.737	9.508
Replicate Prob(F)										0.1953	0.0006
Treatment F										2901.000	170.492
Treatment Prob(F)										0.0001	0.0001

School of Plant, Environmental, and Soil Sciences

PRE Weed Control with A14972 in Soybean

Trial ID: 07SB04JG
Location: Ben Hur

Protocol ID: 07SB04JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Pest Code										PHYAN
Rating Date										22/Jun/2007
Rating Data Type										Control
Rating Unit										%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	A14972	5.27	EC	1.32	LB A/A	2	PT/A	PRE	A	100 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B	
2	A14972	5.27	EC	1.32	LB A/A	2	PT/A	PRE	A	100 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B	
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	EPOST	B	
3	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	PRE	A	99 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B	
4	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	PRE	A	100 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	EPOST	B	
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	EPOST	B	
5	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	EPOST	B	94 b
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	C	
6	Sequence	5.25	EW	1.64	LB AE/A	2.5	PT/A	EPOST	B	94 b
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	C	
	Flexstar	1.88	EC	0.088	LB A/A	6	OZ/A	POST	C	
7	Nontreated									0 c
LSD (P=.05)										2.4
Standard Deviation										1.6
CV										1.92
Grand Mean										83.75
Bartlett's X2										0.0
P(Bartlett's X2)										0.001*
Replicate F										1.269
Replicate Prob(F)										0.3148
Treatment F										2127.462
Treatment Prob(F)										0.0001

Louisiana State University

School of Plant, Environmental, and Soil Sciences

Harvest Aid Timing Test MG IV

Experiment number	07SB02JB
Location	Ben Hur Research Farm- Baton Rouge LA
Experimental design	Randomized Complete Block
Number of reps	4
Plot size	5X30ft.
Row width/# per plot	15”/3
Soil type	clay loam
OM (%)	1.9
pH	6.3
Planting date	04-16-07
Harvest date	N/A
Crop/Variety	Soybean/Asgrow 4403
Uniform std. treatment	N/A

Application type	POST A	POST B	POST C	POST D	POST E
Date applied (mm-dd-yy)	07-26-07	08-06-07	08-15-07	08-23-07	09-01-07
Time (hh:mm-hh:mm)	9:30-10:00am	12:00-12:15pm	9:15-9:30am	9:30-10:00am	8:30-9:0am
Incorporation equipment	N/A	N/A	N/A	N/A	N/A
Incorporation depth	N/A	N/A	N/A	N/A	N/A
Air/Soil temperature (F)	90/81	95/83	94/85	88/81	82/80
Wind (mph/direction)	2-5/W	2-5/W	4-7/E	2-5/SW	2-3/NE
Cloud cover (%)	30%	40%	40%	30%	50%
Relative humidity (%)	56%	55%	65%	46%	68%
Soil/Leaf surface moist	Dry/Moist	Dry/Dry	Dry/Dry	Dry/Moist	Dry/Moist
Crop stage/height	R6/36”	R6.5/36”	R7/36”	R7.5/36”	R8/36”
Sprayer type/mph	CO_2bkpk/3.0	CO_2bkpk/3.0	CO_2bkpk/3.0	CO_2bkpk/3.0	CO_2bkpk/3.0
Nozzle type/size	FF/11002VS	FF/11002VS	FF/1002VS	FF/11002VS	FF/11002VS
Boom ht/#noz/spacing (in)	18”/4/18”	18”/4/18”	18”/4/18”	18”/4/18”	18”/4/18”
GPA/psi (at nozzle)	15/25	15/25	15/25	15/25	15/25
Applied by	Boudreaux	Boudreaux	Boudreaux	Boudreaux	Boudreaux

Weed species (population/ft^2) : (height/# leaves)
N/A

Rainfall (in.)
0-24 hr/1-3 days :
4-7 days/2nd week :
3rd week/4th week :

Comments:

School of Plant, Environmental, and Soil Sciences

Harvest Aid Timing Test MG IV

Trial ID: 07SB02JB
Location: Ben Hur

Protocol ID: 07SB02JB
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Crop Code										SOYBEAN	SOYBEAN	SOYBEAN
Rating Date										13/Aug/2007	13/Aug/2007	13/Aug/2007
Rating Data Type										Plot wt.	Moisture	Test wt.
Rating Unit										lbs.	%	lbs/Bu
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	60% Moisture									9.93 a	11.5 a	52.9 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A			
	Induce		L	0.25	% V/V	0.25	% V/V		A			
2	60% Moisture									9.76 a	11.3 a	53.4 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		A			
	Induce		L	0.25	% V/V	0.25	% V/V		A			
3	60% Moisture									10.25 a	11.3 a	53.8 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		A			
4	50% Moisture									11.80 a	11.3 a	54.9 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B			
	Induce		L	0.25	% V/V	0.25	% V/V		B			
5	50% Moisture									12.05 a	12.3 a	54.5 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		B			
	Induce		L	0.25	% V/V	0.25	% V/V		B			
6	50% Moisture									12.37 a	11.5 a	54.4 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		B			
7	40% Moisture											
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C			
	Induce		L	0.25	% V/V	0.25	% V/V		C			
8	40% Moisture											
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		C			
	Induce		L	0.25	% V/V	0.25	% V/V		C			
9	40% Moisture											
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		C			
10	30% Moisture											
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D			
	Induce		L	0.25	% V/V	0.25	% V/V		D			
11	30% Moisture											
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		D			
	Induce		L	0.25	% V/V	0.25	% V/V		D			
12	30% Moisture											
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		D			

School of Plant, Environmental, and Soil Sciences

Harvest Aid Timing Test MG IV

Trial ID: 07SB02JB
Location: Ben Hur

Protocol ID: 07SB02JB
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
Crop Code										SOYBEAN	SOYBEAN	SOYBEAN
Rating Date										13/Aug/2007	13/Aug/2007	13/Aug/2007
Rating Data Type										Plot wt.	Moisture	Test wt.
Rating Unit										lbs.	%	lbs/Bu
13	20% Moisture											
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E			
	Induce		L	0.25	% V/V	0.25	% V/V		E			
14	20% Moisture											
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		E			
	Induce		L	0.25	% V/V	0.25	% V/V		E			
15	20% Moisture											
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		E			
16	Nontreated											
LSD (P=.05)										2.480	0.94	1.49
Standard Deviation										1.635	0.62	0.98
CV										14.83	5.37	1.82
Grand Mean										11.03	11.53	53.96
Bartlett's X2										5.887	27.015	3.668
P(Bartlett's X2)										0.317	0.001*	0.598
Replicate F										1.202	1.312	2.119
Replicate Prob(F)										0.3451	0.3098	0.1437
Treatment F										2.053	1.621	2.251
Treatment Prob(F)										0.1329	0.2187	0.1064

School of Plant, Environmental, and Soil Sciences

Harvest Aid Timing Test MG IV

Trial ID: 07SB02JB
Location: Ben Hur

Protocol ID: 07SB02JB
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 21/Aug/2007 Plot wt. lbs.	SOYBEAN 21/Aug/2007 Moisture %	SOYBEAN 21/Aug/2007 Test wt. lbs/Bu
1	60% Moisture											
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A			
	Induce		L	0.25	% V/V	0.25	% V/V		A			
2	60% Moisture											
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		A			
	Induce		L	0.25	% V/V	0.25	% V/V		A			
3	60% Moisture											
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		A			
4	50% Moisture											
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B			
	Induce		L	0.25	% V/V	0.25	% V/V		B			
5	50% Moisture											
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		B			
	Induce		L	0.25	% V/V	0.25	% V/V		B			
6	50% Moisture											
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		B			
7	40% Moisture									12.50 a	12.3 b	53.2 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C			
	Induce		L	0.25	% V/V	0.25	% V/V		C			
8	40% Moisture									13.04 a	14.0 ab	53.3 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		C			
	Induce		L	0.25	% V/V	0.25	% V/V		C			
9	40% Moisture									12.85 a	13.1 ab	53.6 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		C			
10	30% Moisture									13.05 a	14.0 ab	52.9 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D			
	Induce		L	0.25	% V/V	0.25	% V/V		D			
11	30% Moisture									12.47 a	13.4 ab	52.9 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		D			
	Induce		L	0.25	% V/V	0.25	% V/V		D			
12	30% Moisture									12.09 a	13.1 ab	52.9 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		D			

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Harvest Aid Timing Test MG IV

Trial ID: 07SB02JB Protocol ID: 07SB02JB
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 21/Aug/2007 Plot wt. lbs.	SOYBEAN 21/Aug/2007 Moisture %	SOYBEAN 21/Aug/2007 Test wt. lbs/Bu
13	20% Moisture									13.01 a	12.8 ab	53.1 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E			
	Induce		L	0.25	% V/V	0.25	% V/V		E			
14	20% Moisture									13.29 a	14.3 ab	52.7 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		E			
	Induce		L	0.25	% V/V	0.25	% V/V		E			
15	20% Moisture									13.48 a	14.4 ab	52.7 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		E			
16	Nontreated									13.33 a	15.1 a	52.5 a
LSD (P=.05)										1.775	1.47	0.97
Standard Deviation										1.218	1.01	0.67
CV										9.44	7.42	1.26
Grand Mean										12.91	13.64	52.96
Bartlett's X2										8.092	15.315	9.182
P(Bartlett's X2)										0.525	0.083	0.421
Replicate F										0.531	2.156	2.293
Replicate Prob(F)										0.6649	0.1184	0.1025
Treatment F										0.520	2.813	0.926
Treatment Prob(F)										0.8465	0.0198	0.5194

School of Plant, Environmental, and Soil Sciences

Harvest Aid Timing Test MG IV

Trial ID: 07SB02JB Protocol ID: 07SB02JB
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN Plot wt. combined	SOYBEAN Moisture combined	SOYBEAN Yield Bu/A
1	60% Moisture									9.93 bc	11.5 c	48.8 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A			
	Induce		L	0.25	% V/V	0.25	% V/V		A			
2	60% Moisture									9.76 c	11.3 c	48.2 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		A			
	Induce		L	0.25	% V/V	0.25	% V/V		A			
3	60% Moisture									10.25 abc	11.3 c	50.6 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		A			
4	50% Moisture									11.80 abc	11.3 c	58.2 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B			
	Induce		L	0.25	% V/V	0.25	% V/V		B			
5	50% Moisture									12.16 abc	12.2 bc	59.3 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		B			
	Induce		L	0.25	% V/V	0.25	% V/V		B			
6	50% Moisture									12.37 abc	11.5 c	60.9 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		B			
7	40% Moisture									12.50 abc	12.3 bc	61.0 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C			
	Induce		L	0.25	% V/V	0.25	% V/V		C			
8	40% Moisture									13.14 abc	14.1 ab	62.8 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		C			
	Induce		L	0.25	% V/V	0.25	% V/V		C			
9	40% Moisture									12.85 abc	13.1 abc	62.1 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		C			
10	30% Moisture									13.05 abc	14.0 ab	62.3 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D			
	Induce		L	0.25	% V/V	0.25	% V/V		D			
11	30% Moisture									12.47 abc	13.4 abc	60.1 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		D			
	Induce		L	0.25	% V/V	0.25	% V/V		D			
12	30% Moisture									12.09 abc	13.1 abc	58.5 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		D			

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Harvest Aid Timing Test MG IV

Trial ID: 07SB02JB Protocol ID: 07SB02JB
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN Plot wt. combined	SOYBEAN Moisture combined	SOYBEAN Yield Bu/A
13	20% Moisture									13.01 abc	12.8 bc	63.1 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E			
	Induce		L	0.25	% V/V	0.25	% V/V		E			
14	20% Moisture									13.29 ab	14.3 ab	63.4 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		E			
	Induce		L	0.25	% V/V	0.25	% V/V		E			
15	20% Moisture									13.48 a	14.4 ab	64.2 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		E			
16	Nontreated									13.33 ab	15.1 a	62.9 a
LSD (P=.05)										1.949	1.32	9.25
Standard Deviation										1.364	0.92	6.47
CV										11.16	7.19	10.94
Grand Mean										12.22	12.85	59.16
Bartlett's X2										15.348	44.387	17.466
P(Bartlett's X2)										0.427	0.001*	0.292
Replicate F										1.425	1.186	1.410
Replicate Prob(F)										0.2490	0.3265	0.2531
Treatment F										3.168	7.551	2.647
Treatment Prob(F)										0.0016	0.0001	0.0066

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Harvest Aid Timing Test MG IV

Trial ID: 07SB02JB Protocol ID: 07SB02JB
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Crop Code	SOYBEAN
Rating Date	29/Aug/2007
Rating Data Type	100 seed wt
Rating Unit	grams

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	60% Moisture									12.81 cde
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A	
	Induce		L	0.25	% V/V	0.25	% V/V		A	
2	60% Moisture									12.15 de
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A	
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		A	
	Induce		L	0.25	% V/V	0.25	% V/V		A	
3	60% Moisture									11.81 e
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		A	
4	50% Moisture									14.00 a-d
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B	
	Induce		L	0.25	% V/V	0.25	% V/V		B	
5	50% Moisture									13.09 b-e
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B	
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		B	
	Induce		L	0.25	% V/V	0.25	% V/V		B	
6	50% Moisture									13.69 a-d
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		B	
7	40% Moisture									13.92 a-d
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C	
	Induce		L	0.25	% V/V	0.25	% V/V		C	
8	40% Moisture									14.42 abc
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C	
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		C	
	Induce		L	0.25	% V/V	0.25	% V/V		C	
9	40% Moisture									14.77 abc
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		C	
10	30% Moisture									13.77 a-d
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D	
	Induce		L	0.25	% V/V	0.25	% V/V		D	
11	30% Moisture									14.49 abc
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D	
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		D	
	Induce		L	0.25	% V/V	0.25	% V/V		D	
12	30% Moisture									14.11 abc
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		D	

School of Plant, Environmental, and Soil Sciences

Harvest Aid Timing Test MG IV

Trial ID: 07SB02JB Protocol ID: 07SB02JB
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Crop Code									SOYBEAN
Rating Date									29/Aug/2007
Rating Data Type									100 seed wt
Rating Unit									grams
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
13	20% Moisture									13.72 a-d
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E	
	Induce		L	0.25	% V/V	0.25	% V/V		E	
14	20% Moisture									14.34 abc
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E	
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		E	
	Induce		L	0.25	% V/V	0.25	% V/V		E	
15	20% Moisture									14.94 ab
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		E	
16	Nontreated									15.53 a
LSD (P=.05)										1.195
Standard Deviation										0.836
CV										6.04
Grand Mean										13.85
Bartlett's X2										25.247
P(Bartlett's X2)										0.047*
Replicate F										0.346
Replicate Prob(F)										0.7920
Treatment F										5.595
Treatment Prob(F)										0.0001

Louisiana State University

School of Plant, Environmental, and Soil Sciences

Harvest Aid Timing Test MG V

Experiment number ..... :	07SB03JB
Location ..... :	Ben Hur Research Farm- Baton Rouge LA
Experimental design ..... :	Randomized Complete Block
Number of reps ..... :	4
Plot size ..... :	5X/30ft.
Row width/# per plot ..... :	15”/3
Soil type ..... :	clay loam
OM (%) ..... :	1.9
pH ..... :	6.3
Planting date ..... :	05-09-07
Harvest date ..... :	N/A
Crop/Variety ..... :	Soybean/Asgrow 5903
Uniform std. treatment ..... :	N/A

Application type ..... :	POST A	POST B	POST C	POST D	POST E
Date applied (mm-dd-yy) ..... :	08-15-07	08-24-07	09-06-07	09-20-07	10-02-07
Time (hh:mm-hh:mm) ..... :	9:30-9:45am	8:45-9:00am	9:00-9:30am	2:15-2:30pm	9:00-9:15am
Incorporation equipment ..... :	N/A	N/A	N/A	N/A	N/A
Incorporation depth ..... :	N/A	N/A	N/A	N/A	N/A
Air/Soil temperature (F) ..... :	94/85	88/82	87/81	90/84	84/79
Wind (mph/direction) ..... :	4-7/E	1-3/S	3-5/NE	3-5/SE	3-6/NE
Cloud cover (%) ..... :	40%	20%	50%	47%	30%
Relative humidity (%) ..... :	65%	73%	80%	25%	43%
Soil/Leaf surface moist ..... :	Dry/Dry	Dry/Moist	Moist/Moist	Dry/Dry	Dry/Dry
Crop stage/height ..... :	R6/38”	R6.5	R6.5/38”	R7/36”	R8/36”
Sprayer type/mph ..... :	CO_2bkpk/3.0	CO_2bkpk	CO_2bkpk/3.0	CO_2bkpk/3.0	CO_2bkpk/3.0
Nozzle type/size ..... :	FF/11002VS	FF/11002VS	FF/1002VS	FF/11002VS	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18”/4/18”	18”/4/18”	18”/4/18”	18”/4/18”	18”/4/18”
GPA/psi (at nozzle) ..... :	15/25	15/25	15/25	15/25	15/25
Applied by ..... :	Boudreaux	Boudreaux	Boudreaux	Boudreaux	Boudreaux

Weed species (population/ft^2) . : (height/# leaves)
N/A

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments:

School of Plant, Environmental, and Soil Sciences

Harvest Aid Timing Test MG V

Trial ID: 07SB03JB Protocol ID: 07SB03JB
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 15/Oct/2007 plot wt. lbs	SOYBEAN 15/Oct/2007 moisture %	SOYBEAN 15/Oct/2007 test wt. lbs/bu
1	60% Moisture									9.92 cd	15.8 a	50.1 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A			
	Induce		L	0.25	% V/V	0.25	% V/V		A			
2	60% Moisture									9.94 cd	16.0 a	52.0 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		A			
	Induce		L	0.25	% V/V	0.25	% V/V		A			
3	60% Moisture									9.64 d	14.4 abc	51.8 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		A			
4	50% Moisture									10.81 c	15.5 ab	51.0 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B			
	Induce		L	0.25	% V/V	0.25	% V/V		B			
5	50% Moisture									11.02 c	15.6 a	51.5 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		B			
	Induce		L	0.25	% V/V	0.25	% V/V		B			
6	50% Moisture									10.80 c	15.7 a	52.7 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		B			
7	40% Moisture									13.38 ab	13.6 c	52.6 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C			
	Induce		L	0.25	% V/V	0.25	% V/V		C			
8	40% Moisture									12.83 b	13.7 c	52.4 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		C			
	Induce		L	0.25	% V/V	0.25	% V/V		C			
9	40% Moisture									13.79 ab	13.9 c	53.5 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		C			
10	30% Moisture									14.00 ab	14.0 bc	51.4 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D			
	Induce		L	0.25	% V/V	0.25	% V/V		D			
11	30% Moisture									14.35 a	13.5 c	51.5 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		D			
	Induce		L	0.25	% V/V	0.25	% V/V		D			
12	30% Moisture									13.89 ab	13.9 c	50.8 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		D			

School of Plant, Environmental, and Soil Sciences

Harvest Aid Timing Test MG V

Trial ID: 07SB03JB Protocol ID: 07SB03JB
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
Crop Code										SOYBEAN	SOYBEAN	SOYBEAN
Rating Date										15/Oct/2007	15/Oct/2007	15/Oct/2007
Rating Data Type										plot wt.	moisture	test wt.
Rating Unit										lbs	%	lbs/bu
13	20% Moisture									13.56 ab	14.6 abc	50.8 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E			
	Induce		L	0.25	% V/V	0.25	% V/V		E			
14	20% Moisture									14.13 a	14.5 abc	50.6 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		E			
	Induce		L	0.25	% V/V	0.25	% V/V		E			
15	20% Moisture									13.86 ab	14.8 abc	51.1 a
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		E			
16	Nontreated									13.83 ab	15.1 abc	51.0 a
LSD (P=.05)										0.798	1.00	2.00
Standard Deviation										0.558	0.70	1.40
CV										4.47	4.76	2.72
Grand Mean										12.48	14.65	51.55
Bartlett's X2										8.951	23.411	25.629
P(Bartlett's X2)										0.88	0.076	0.042*
Replicate F										1.544	4.509	4.836
Replicate Prob(F)										0.2164	0.0076	0.0054
Treatment F										40.122	6.028	1.633
Treatment Prob(F)										0.0001	0.0001	0.1036

School of Plant, Environmental, and Soil Sciences

Harvest Aid Timing Test MG V

Trial ID: 07SB03JB
Location: Ben Hur

Protocol ID: 07SB03JB
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 15/Oct/2007 YIELD BU	SOYBEAN 16/Oct/2007 100 SEED WT grams
1	60% Moisture									46.47 c	9.32 g
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A		
	Induce		L	0.25	% V/V	0.25	% V/V		A		
2	60% Moisture									46.46 c	9.39 g
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A		
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		A		
	Induce		L	0.25	% V/V	0.25	% V/V		A		
3	60% Moisture									45.90 c	11.23 ef
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		A		
4	50% Moisture									50.80 c	10.46 fg
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B		
	Induce		L	0.25	% V/V	0.25	% V/V		B		
5	50% Moisture									51.72 c	10.53 fg
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B		
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		B		
	Induce		L	0.25	% V/V	0.25	% V/V		B		
6	50% Moisture									50.62 c	12.09 de
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		B		
7	40% Moisture									64.35 ab	13.17 cd
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C		
	Induce		L	0.25	% V/V	0.25	% V/V		C		
8	40% Moisture									61.62 b	13.38 bcd
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C		
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		C		
	Induce		L	0.25	% V/V	0.25	% V/V		C		
9	40% Moisture									66.05 ab	13.10 cd
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		C		
10	30% Moisture									66.94 ab	14.68 abc
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D		
	Induce		L	0.25	% V/V	0.25	% V/V		D		
11	30% Moisture									69.06 a	13.68 bcd
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D		
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		D		
	Induce		L	0.25	% V/V	0.25	% V/V		D		
12	30% Moisture									66.55 ab	14.71 abc
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		D		

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Harvest Aid Timing Test MG V

Trial ID: 07SB03JB Protocol ID: 07SB03JB
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
Crop Code										SOYBEAN	SOYBEAN
Rating Date										15/Oct/2007	16/Oct/2007
Rating Data Type										YIELD	100 SEED WT
Rating Unit										BU	grams
13	20% Moisture									64.41 ab	15.07 ab
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E		
	Induce		L	0.25	% V/V	0.25	% V/V		E		
14	20% Moisture									67.23 ab	16.34 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E		
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		E		
	Induce		L	0.25	% V/V	0.25	% V/V		E		
15	20% Moisture									65.70 ab	15.01 ab
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		E		
16	Nontreated									65.35 ab	16.29 a
LSD (P=.05)										3.966	1.179
Standard Deviation										2.776	0.825
CV										4.68	6.33
Grand Mean										59.33	13.03
Bartlett's X2										9.036	12.776
P(Bartlett's X2)										0.876	0.62
Replicate F										2.350	1.496
Replicate Prob(F)										0.0853	0.2288
Treatment F										40.266	31.260
Treatment Prob(F)										0.0001	0.0001

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School of Plant, Environmental, and Soil Sciences

Harvest Aid Timing Test MG VI

Experiment number ..... :	07SB04JB
Location ..... :	Ben Hur Research Farm- Baton Rouge LA
Experimental design ..... :	Randomized Complete Block
Number of reps ..... :	4
Plot size ..... :	5X30ft.
Row width/# per plot ..... :	15”/3
Soil type ..... :	clay loam
OM (%) ..... :	1.9
pH ..... :	6.3
Planting date ..... :	05-10-07
Harvest date ..... :	N/A
Crop/Variety ..... :	Soybean/Asgrow 6202
Uniform std. treatment ..... :	N/A

Application type ..... :	POST A	POST B	POST C	POST D	POST E
Date applied (mm-dd-yy) ..... :	09-06-07	09-20-07	10-02-07	10-08-07	10-12-07
Time (hh:mm-hh:mm) ..... :	9:30-10:00am	2:00-2:15pm	9:30-9:45am	9:00-9:15am	9:30-10:00am
Incorporation equipment ..... :	N/A	N/A	N/A	N/A	N/A
Incorporation depth ..... :	N/A	N/A	N/A	N/A	N/A
Air/Soil temperature (F) ..... :	87/81	90/84	84/79	84/78	75/72
Wind (mph/direction) ..... :	2-5/NE	3-5/SE	3-6/NE	4-6/E	1-3/NE
Cloud cover (%) ..... :	50%	25%	30%	10%	20%
Relative humidity (%) ..... :	80%	47%	43%	65%	40%
Soil/Leaf surface moist ..... :	Moist/Moist	Dry/Dry	Dry/Dry	Moist/Moist	Dry/Moist
Crop stage/height ..... :	R6/38”	R6/38”	R6.5/38”	R7/38”	R8/38”
Sprayer type/mph ..... :	CO_2bkpk/3.0	CO_2bkpk/3.0	CO_2bkpk/3.0	CO_2bkpk/3.0	CO_2bkpk/3.0
Nozzle type/size ..... :	FF11002VS	FF/11002VS	FF/11002VS	FF/11002VS	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18”/4/18”	18”/4/18”	18”/4/18”	18”/4/18”	18”/4/18”
GPA/psi (at nozzle) ..... :	15/25	15/25	15/25	15/25	15/25
Applied by ..... :	Boudreaux	Boudreaux	Boudreaux	Boudreaux	Boudreaux

Weed species (population/ft^2) . : (height/# leaves)
N/A

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments:

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Harvest Aid Timing Test MG VI

Trial ID: 07SB04JG
Location: Ben Hur

Protocol ID: 07SB04JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 16/Oct/2007 plot wt lbs	SOYBEAN 16/Oct/2007 moisture %	SOYBEAN 16/Oct/2007 test wt lbs/bu
	Crop Code									SOYBEAN	SOYBEAN	SOYBEAN
	Rating Date									16/Oct/2007	16/Oct/2007	16/Oct/2007
	Rating Data Type									plot wt	moisture	test wt
	Rating Unit									lbs	%	lbs/bu
1	60% Moisture									9.69 b	13.1 a-d	51.9 abc
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A			
	Induce		L	0.25	% V/V	0.25	% V/V		A			
2	60% Moisture									9.74 b	13.2 a-d	53.6 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		A			
	Induce		L	0.25	% V/V	0.25	% V/V		A			
3	60% Moisture									11.21 a	13.6 a-d	53.6 ab
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		A			
4	50% Moisture									12.16 a	12.8 bcd	51.3 abc
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B			
	Induce		L	0.25	% V/V	0.25	% V/V		B			
5	50% Moisture									12.23 a	12.6 cd	51.8 abc
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		B			
	Induce		L	0.25	% V/V	0.25	% V/V		B			
6	50% Moisture									12.39 a	12.8 bcd	52.1 abc
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		B			
7	40% Moisture									12.42 a	12.4 d	52.0 abc
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C			
	Induce		L	0.25	% V/V	0.25	% V/V		C			
8	40% Moisture									12.19 a	12.1 d	52.1 abc
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		C			
	Induce		L	0.25	% V/V	0.25	% V/V		C			
9	40% Moisture									12.71 a	12.0 d	53.3 abc
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		C			
10	30% Moisture									12.50 a	12.8 bcd	51.7 abc
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D			
	Induce		L	0.25	% V/V	0.25	% V/V		D			
11	30% Moisture									11.99 a	12.4 d	51.7 abc
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		D			
	Induce		L	0.25	% V/V	0.25	% V/V		D			
12	30% Moisture									13.20 a	13.1 a-d	51.5 abc
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		D			

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Harvest Aid Timing Test MG VI

Trial ID: 07SB04JG Protocol ID: 07SB04JG
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
Crop Code										SOYBEAN	SOYBEAN	SOYBEAN
Rating Date										16/Oct/2007	16/Oct/2007	16/Oct/2007
Rating Data Type										plot wt	moisture	test wt
Rating Unit										lbs	%	lbs/bu
13	20% Moisture									13.16 a	14.6 ab	50.9 c
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E			
	Induce		L	0.25	% V/V	0.25	% V/V		E			
14	20% Moisture									12.94 a	14.3 abc	51.2 abc
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E			
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		E			
	Induce		L	0.25	% V/V	0.25	% V/V		E			
15	20% Moisture									12.42 a	14.8 a	50.9 c
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		E			
16	Nontreated									12.51 a	14.6 ab	51.1bc
LSD (P=.05)										1.153	1.11	1.47
Standard Deviation										0.807	0.78	1.03
CV										6.67	5.89	1.98
Grand Mean										12.09	13.18	51.9
Bartlett's X2										20.781	37.235	32.378
P(Bartlett's X2)										0.144	0.001*	0.006*
Replicate F										1.636	10.560	4.710
Replicate Prob(F)										0.1963	0.0001	0.0066
Treatment F										6.630	5.512	2.975
Treatment Prob(F)										0.0001	0.0001	0.0030

School of Plant, Environmental, and Soil Sciences

Harvest Aid Timing Test MG VI

Trial ID: 07SB04JG Protocol ID: 07SB04JG
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 16/Oct/2007 YIELD BU	SOYBEAN 16/Oct/2007 100 seed wt grams
1	60% Moisture									46.86 c	14.67 b
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A		
	Induce		L	0.25	% V/V	0.25	% V/V		A		
2	60% Moisture									47.04 c	14.83 b
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		A		
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		A		
	Induce		L	0.25	% V/V	0.25	% V/V		A		
3	60% Moisture									53.90 b	15.36 ab
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		A		
4	50% Moisture									58.97 ab	16.01 ab
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B		
	Induce		L	0.25	% V/V	0.25	% V/V		B		
5	50% Moisture									59.45 ab	16.38 ab
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		B		
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		B		
	Induce		L	0.25	% V/V	0.25	% V/V		B		
6	50% Moisture									60.15 ab	16.73 ab
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		B		
7	40% Moisture									60.55 ab	16.14 ab
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C		
	Induce		L	0.25	% V/V	0.25	% V/V		C		
8	40% Moisture									59.63 ab	16.05 ab
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		C		
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		C		
	Induce		L	0.25	% V/V	0.25	% V/V		C		
9	40% Moisture									62.19 ab	17.36 ab
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		C		
10	30% Moisture									60.66 ab	16.09 ab
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D		
	Induce		L	0.25	% V/V	0.25	% V/V		D		
11	30% Moisture									58.44 ab	17.19 ab
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		D		
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		D		
	Induce		L	0.25	% V/V	0.25	% V/V		D		
12	30% Moisture									63.89 a	17.26 ab
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		D		

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Harvest Aid Timing Test MG VI

Trial ID: 07SB04JG Protocol ID: 07SB04JG
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	4	5
Crop Code										SOYBEAN	SOYBEAN
Rating Date										16/Oct/2007	16/Oct/2007
Rating Data Type										YIELD	100 seed wt
Rating Unit										BU	grams
13	20% Moisture									62.54 ab	18.34 a
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E		
	Induce		L	0.25	% V/V	0.25	% V/V		E		
14	20% Moisture									61.66 ab	17.45 ab
	Gramoxone Inteon	2	SL	1	PT/A	0.25	LB A/A		E		
	Aim	2	EC	1.4	OZ/A	0.0219	LB A/A		E		
	Induce		L	0.25	% V/V	0.25	% V/V		E		
15	20% Moisture									58.92 ab	16.48 ab
	Sodium Chlorate	6	L	4	QT/A	6	LB A/A		E		
16	Nontreated									59.45 ab	17.12 ab
LSD (P=.05)										5.470	1.855
Standard Deviation										3.828	1.298
CV										6.55	7.89
Grand Mean										58.39	16.47
Bartlett's X2										24.302	24.437
P(Bartlett's X2)										0.06	0.058
Replicate F										2.767	2.370
Replicate Prob(F)										0.0542	0.0853
Treatment F										6.769	2.318
Treatment Prob(F)										0.0001	0.0178

Louisiana State University

Department of Agronomy and Environmental Management

Soybean Row Configuration Test

Experiment number ..... :	07SB05JB
Location ..... :	Ben Hur Research Station – Baton Rouge, LA
Experimental design ..... :	Randomized Complete Block
Number of reps ..... :	4
Plot size ..... :	18X50ft.
Row width/# per plot ..... :	72”/3
Soil type ..... :	clay loam
OM (%) ..... :	1.9
pH ..... :	6.3
Planting date ..... :	04-16-07
Harvest date ..... :	08-15-07
Crop/Variety ..... :	Soybean/Asgrow 4403 RR
Uniform std. treatment ..... :	N/A

Application type ..... :	N/A
Date applied (mm-dd-yy) ..... :	N/A
Time (hh:mm-hh:mm) ..... :	N/A
Incorporation equipment ..... :	N/A
Incorporation depth ..... :	N/A
Air/Soil temperature (F) ..... :	N/A
Wind (mph/direction) ..... :	N/A
Cloud cover (%) ..... :	N/A
Relative humidity (%) ..... :	N/A
Soil/Leaf surface moist ..... :	N/A
Crop stage/height ..... :	N/A
Sprayer type/mph ..... :	N/A
Nozzle type/size ..... :	N/A
Boom ht/#noz/spacing (in) .... :	N/A
GPA/psi (at nozzle) ..... :	N/A
Applied by ..... :	N/A

Weed species (population/ft^2) . : (height/# leaves)
N/A

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments: Soybeans were planted on raised sugarcane beds spaced 72 inches apart. Row configurations/row spacings on each sugarcane bed were two rows at 18-inch spacing, two at 24-inch spacing, two rows at 30-inch spacing, and three rows at 15-inch spacing.

School of Plant, Environmental, and Soil Sciences

Soybean Row Configuration Test

Trial ID: 07SB05JB Protocol ID: 07SB05JB
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
Crop Code										SOYBEAN	SOYBEAN	SOYBEAN
Rating Date										1/Jun/2007	1/Jun/2007	1/Jun/2007
Rating Data Type										Heights	Widths	Middle
Rating Unit										IN	IN	IN
1	2 row 18" spacing									19 a	22 a	29 a
2	2 row 24" spacing									19 a	23 a	24 b
3	2 row 30" spacing									19 a	22 a	17 c
4	3 row 15" spacing									19 a	19 b	17 c
LSD (P=.05)										1.0	1.9	2.2
Standard Deviation										0.6	1.2	1.4
CV										3.23	5.4	6.35
Grand Mean										18.83	21.48	21.99
Bartlett's X2										1.12	5.184	1.183
P(Bartlett's X2)										0.772	0.159	0.757
Replicate F										1.917	0.062	1.991
Replicate Prob(F)										0.1974	0.9785	0.1860
Treatment F										2.061	6.528	71.771
Treatment Prob(F)										0.1758	0.0123	0.0001

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Soybean Row Configuration Test

Trial ID: 07SB05JB
Location: Ben Hur

Protocol ID: 07SB05JB
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
Crop Code										SOYBEAN	SOYBEAN	SOYBEAN
Rating Date										7/Jun/2007	7/Jun/2007	7/Jun/2007
Rating Data Type										Heights	Widths	Middle
Rating Unit										IN	IN	IN
1	2 row 18" spacing									28 a	23 ab	23 a
2	2 row 24" spacing									27 a	24 a	19 b
3	2 row 30" spacing									27 a	25 a	12 c
4	3 row 15" spacing									28 a	22 b	11 c
LSD (P=.05)										2.7	2.1	2.6
Standard Deviation										1.7	1.3	1.6
CV										6.12	5.57	10.21
Grand Mean										27.48	23.6	16.11
Bartlett's X2										2.887	6.065	1.741
P(Bartlett's X2)										0.409	0.109	0.628
Replicate F										0.360	0.452	1.344
Replicate Prob(F)										0.7834	0.7220	0.3203
Treatment F										0.332	5.105	51.667
Treatment Prob(F)										0.8028	0.0246	0.0001

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Soybean Row Configuration Test

Trial ID: 07SB05JB
Location: Ben Hur

Protocol ID: 07SB05JB
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
Crop Code										SOYBEAN	SOYBEAN	SOYBEAN
Rating Date										18/Jun/2007	18/Jun/2007	18/Jun/2007
Rating Data Type										Heights	Widths	Middle
Rating Unit										IN	IN	IN
1	2 row 18" spacing									34 a	26 ab	17 a
2	2 row 24" spacing									32 a	27 ab	13 b
3	2 row 30" spacing									34 a	28 a	8 c
4	3 row 15" spacing									35 a	24 b	6 c
LSD (P=.05)										4.5	3.3	3.7
Standard Deviation										2.8	2.1	2.3
CV										8.31	7.87	20.64
Grand Mean										34.06	26.33	11.08
Bartlett's X2										1.899	6.93	2.272
P(Bartlett's X2)										0.594	0.074	0.518
Replicate F										0.240	0.731	1.157
Replicate Prob(F)										0.8660	0.5592	0.3785
Treatment F										0.768	3.960	20.828
Treatment Prob(F)										0.5401	0.0471	0.0002

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Soybean Row Configuration Test

Trial ID: 07SB05JB
Location: Ben Hur

Protocol ID: 07SB05JB
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
Crop Code										SOYBEAN	SOYBEAN	SOYBEAN
Rating Date										25/Jun/2007	25/Jun/2007	25/Jun/2007
Rating Data Type										Heights	Widths	Middle
Rating Unit										IN	IN	IN
ARM Action Codes												
Number of Decimals												
1	2 row 18" spacing									38 a	29 ab	15 a
2	2 row 24" spacing									36 a	30 ab	13 a
3	2 row 30" spacing									37 a	31 a	2 b
4	3 row 15" spacing									39 a	27 b	1 b
LSD (P=.05)										4.5	2.4	3.9
Standard Deviation										2.8	1.5	2.4
CV										7.46	5.09	30.52
Grand Mean										37.64	29.14	7.99
Bartlett's X2										1.234	2.547	3.355
P(Bartlett's X2)										0.745	0.467	0.34
Replicate F										0.149	1.127	0.428
Replicate Prob(F)										0.9277	0.3888	0.7381
Treatment F										0.653	4.029	35.210
Treatment Prob(F)										0.6009	0.0452	0.0001

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Soybean Row Configuration Test

Trial ID: 07SB05JB
Location: Ben Hur

Protocol ID: 07SB05JB
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 2/Jul/2007 Heights IN	SOYBEAN 2/Jul/2007 Widths IN	SOYBEAN 2/Jul/2007 Middle IN
1	2 row 18" spacing									41 a	32 a	13 a
2	2 row 24" spacing									40 a	32 a	10 a
3	2 row 30" spacing									41 a	33 a	1 b
4	3 row 15" spacing									43 a	28 b	0 b
LSD (P=.05)										5.1	2.4	4.4
Standard Deviation										3.2	1.5	2.7
CV										7.76	4.85	45.92
Grand Mean										40.88	31.24	5.98
Bartlett's X2										0.134	3.35	1.86
P(Bartlett's X2)										0.987	0.341	0.394
Replicate F										0.835	1.385	1.479
Replicate Prob(F)										0.5076	0.3092	0.2849
Treatment F										0.615	6.559	22.043
Treatment Prob(F)										0.6221	0.0121	0.0002

School of Plant, Environmental, and Soil Sciences

Soybean Row Configuration Test

Trial ID: 07SB05JB
Location: Ben Hur

Protocol ID: 07SB05JB
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 9/Jul/2007 Heights IN	SOYBEAN 9/Jul/2007 Widths IN	SOYBEAN 9/Jul/2007 Middle IN
1	2 row 18" spacing									39 a	30 a	11 a
2	2 row 24" spacing									38 a	31 a	9 a
3	2 row 30" spacing									39 a	33 a	1 b
4	3 row 15" spacing									41 a	26 b	0 b
LSD (P=.05)										5.6	2.2	4.4
Standard Deviation										3.5	1.4	2.8
CV										9.0	4.6	52.59
Grand Mean										39.2	29.78	5.29
Bartlett's X2										2.205	3.191	2.195
P(Bartlett's X2)										0.531	0.363	0.334
Replicate F										0.092	0.531	0.807
Replicate Prob(F)										0.9628	0.6723	0.5209
Treatment F										0.802	17.567	16.818
Treatment Prob(F)										0.5233	0.0004	0.0005

School of Plant, Environmental, and Soil Sciences

Soybean Row Configuration Test

Trial ID: 07SB05JB
Location: Ben Hur

Protocol ID: 07SB05JB
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 16/Jul/2007 Height IN	SOYBEAN 16/Jul/2007 Width IN	SOYBEAN 16/Jul/2007 Middle IN
1	2 row 18" spacing									42 a	32 a	11 a
2	2 row 24" spacing									37 b	31 a	8 a
3	2 row 30" spacing									40 ab	32 a	0 b
4	3 row 15" spacing									44 a	30 a	0 b
LSD (P=.05)										3.9	2.7	5.5
Standard Deviation										2.5	1.7	3.5
CV										6.07	5.35	72.08
Grand Mean										40.64	31.21	4.79
Bartlett's X2										3.697	1.968	0.136
P(Bartlett's X2)										0.296	0.579	0.712
Replicate F										0.258	0.247	0.978
Replicate Prob(F)										0.8539	0.8615	0.4450
Treatment F										6.098	0.672	10.690
Treatment Prob(F)										0.0150	0.5905	0.0025

School of Plant, Environmental, and Soil Sciences

Soybean Row Configuration Test

Trial ID: 07SB05JB
Location: Ben Hur

Protocol ID: 07SB05JB
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 16/Aug/2007 Plot wt. lbs.	SOYBEAN 16/Aug/2007 Moisture %	SOYBEAN 16/Aug/2007 Test wt.
1	2 row 18" spacing									22.4 a	12.7 a	54.6 a
2	2 row 24" spacing									22.1 a	11.9 a	54.8 a
3	2 row 30" spacing									23.7 a	11.9 a	54.4 a
4	3 row 15" spacing									22.6 a	12.0 a	54.9 a
LSD (P=.05)										3.15	1.23	0.89
Standard Deviation										1.97	0.77	0.56
CV										8.68	6.34	1.02
Grand Mean										22.7	12.12	54.68
Bartlett's X2										12.028	21.561	2.269
P(Bartlett's X2)										0.007*	0.001*	0.519
Replicate F										1.380	1.975	1.394
Replicate Prob(F)										0.3103	0.1884	0.3066
Treatment F										0.493	0.960	0.598
Treatment Prob(F)										0.6961	0.4526	0.6320

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Soybean Row Configuration Test

Trial ID: 07SB05JB
Location: Ben Hur

Protocol ID: 07SB05JB
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Crop Code	SOYBEAN
Rating Date	16/Aug/2007
Rating Data Type	Yield
Rating Unit	BU

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	2 row 18" spacing									65.4 a
2	2 row 24" spacing									64.9 a
3	2 row 30" spacing									69.6 a
4	3 row 15" spacing									66.4 a

LSD (P=.05)	9.30
Standard Deviation	5.82
CV	8.74
Grand Mean	66.57
Bartlett's X2	12.74
P(Bartlett's X2)	0.005*
Replicate F	1.249
Replicate Prob(F)	0.3485
Treatment F	0.540
Treatment Prob(F)	0.6670

Louisiana State University

Department of Agronomy and Environmental Management

Evaluation of Harvest Aids in MG V "Green Beans"

Experiment number ..... :	07SB07JB
Location ..... :	Ben Hur Research Farm - Baton Rouge, LA
Experimental design ..... :	Randomized Complete Block
Number of reps ..... :	4
Plot size ..... :	5X30ft.
Row width/# per plot ..... :	15”/3
Soil type ..... :	clay loam
OM (%) ..... :	1.9
pH ..... :	6.3
Planting date ..... :	05-09-07
Harvest date ..... :	N/A
Crop/Variety ..... :	Soybean/Asgrow 5903
Uniform std. treatment ..... :	N/A

Application type ..... :	POST	POST A	POST B	POST C
Date applied (mm-dd-yy) ..... :	08-01-07	08-15-07	08-24-07	9-06-07
Time (hh:mm-hh:mm) ..... :	2:00-2:15pm	9:30-9:45am	9:00-9:15am	10:00-10:15am
Incorporation equipment ..... :	N/A	N/A	N/A	N/A
Incorporation depth ..... :	N/A	N/A	N/A	N/A
Air/Soil temperature (F) ..... :	89/80	94/84	88/82	87/81
Wind (mph/direction) ..... :	3-6/W	4-7/E	1-3/S	2-5/NE
Cloud cover (%) ..... :	75%	40%	20%	50%
Relative humidity (%) ..... :	55%	65%	73%	80%
Soil/Leaf surface moist ..... :	Moist/Dry	Dry/Dry	Dry/Moist	Moist/Moist
Crop stage/height ..... :	R6/36-38”	R6/38”	R6.5/38”	R6.9/38”
Sprayer type/mph ..... :	trctrCA/3.75	CO_2bkpk/3.0	CO_2bkpk/3.0	CO_2bkpk/3.0
Nozzle type/size ..... :	FF/11002VS	FF/11002VS	FF/11002VS	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18”/6/18”	18”/4/18”	18”/4/18”	18”/4/18”
GPA/psi (at nozzle) ..... :	15/32	15/25	15/25	15/25
Applied by ..... :	Boudreaux	Boudreaux	Boudreaux	Boudreaux

Weed species (population/ft^2) . : (height/# leaves)
N/A

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments:

Evaluation of Harvest Aids in MG V "Green Beans"

Project Code: 07SB07JB

Application type ..... :	POST D	POST E	POST E	POST E
Date applied (mm-dd-yy)..... :	09-20-07	08-30-07	09-12-07	10-02-07
Time (hh:mm-hh:mm) ..... :	2:30-2:45pm	9:00-9:30am	8:00-8:30am	10:00-10:15am
Incorporation equipment..... :	N/A	N/A	N/A	N/A
Incorporation depth..... :	N/A	N/A	N/A	N/A
Air/Soil temperature (F)..... :	90/84	87/80	82/77	84/79
Wind (mph/direction) ..... :	3-5/SE	2-4/E	1-4/SE	3-6/NE
Cloud cover (%) ..... :	25%	30%	20%	30%
Relative humidity (%)..... :	47%	56%	62%	43%
Soil/Leaf surface moist ..... :	Dry/Dry	Dry/Moist	Dry/Moist	Dry/Dry
Crop stage/height ..... :	R7/36”	R 6.5/36”	R7/36”	R7.5/36”
Sprayer type/mph..... :	CO2bkpk/3.0	CO2bkpk/3.0	CO2bkpk/3.0	CO2bkpk/3.0
Nozzle type/size ..... :	FF/11002VS	FF/11002VS	FF/11002VS	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18”/4/18”	18”/4/18”	18”/4/18”	18”/4/18”
GPA/psi (at nozzle) ..... :	15/25	15/25	15/25	15/25
Applied by ..... :	Boudreaux	Boudreaux	Boudreaux	Boudreaux

Weed species (population/ft^2) . : (height/# leaves)
N/A

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week..... :
3rd week/4th week ..... :

Comments:

School of Plant, Environmental, and Soil Sciences

Evaluation of Harvest Aids in MG V "Green Beans"

Trial ID: 07SB07JB Protocol ID: 07SB07JB
Location: Ben Hur Study Director: Joseph Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 16/Oct/2007 plot wt lbs	SOYBEAN 16/Oct/2007 moisture %
	Crop Code									SOYBEAN	SOYBEAN
	Rating Date									16/Oct/2007	16/Oct/2007
	Rating Data Type									plot wt	moisture
	Rating Unit									lbs	%
1	60% Moisture									5.46 c	19.5 ab
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		A		
	Induce			0.25	% V/V	0.25	% V/V		A		
2	7days after initiation									5.50 c	16.4 bc
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		B		
	Induce			0.25	% V/V	0.25	% V/V		B		
3	14days after initiation									8.34 abc	12.6 c
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		C		
	Induce			0.25	% V/V	0.25	% V/V		C		
4	21days after initiation									10.82 a	20.6 a
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		D		
	Induce			0.25	% V/V	0.25	% V/V		D		
5	28days after initiation									7.53 bc	15.7 bc
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		E		
	Induce			0.25	% V/V	0.25	% V/V		E		
6	Orthene as Needed 5-7 d	90	S	0.90	LB A/A	1	LB/A			11.29 a	14.2 c
	Baythroid as Needed 5-7 d	2	L	0.044	LB A/A	2.82	OZ/A				
7	Nontreated									8.83 ab	14.6 c
	LSD (P=.05)									2.267	3.35
	Standard Deviation									1.519	2.25
	CV									18.41	13.85
	Grand Mean									8.25	16.23
	Bartlett's X2									11.779	29.943
	P(Bartlett's X2)									0.067	0.001*
	Replicate F									0.283	0.170
	Replicate Prob(F)									0.8371	0.9152
	Treatment F									9.251	6.664
	Treatment Prob(F)									0.0001	0.0009

School of Plant, Environmental, and Soil Sciences

Evaluation of Harvest Aids in MG V "Green Beans"

Trial ID: 07SB07JB Protocol ID: 07SB07JB
Location: Ben Hur Study Director: Joseph Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 16/Oct/2007 test wt lbs/bu	SOYBEAN 16/Oct/2007 YIELD BU
1	60% Moisture									49.63 a	25.97 c
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		A		
	Induce			0.25	% V/V	0.25	% V/V		A		
2	7days after initiation									48.58 a	26.16 c
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		B		
	Induce			0.25	% V/V	0.25	% V/V		B		
3	14days after initiation									46.48 a	39.66 abc
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		C		
	Induce			0.25	% V/V	0.25	% V/V		C		
4	21days after initiation									42.18 a	51.44 a
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		D		
	Induce			0.25	% V/V	0.25	% V/V		D		
5	28days after initiation									42.71 a	35.81 bc
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		E		
	Induce			0.25	% V/V	0.25	% V/V		E		
6	Orthene as Needed 5-7 d	90	S	0.90	LB A/A	1	LB/A			49.28 a	53.70 a
	Baythroid as Needed 5-7 d	2	L	0.044	LB A/A	2.82	OZ/A				
7	Nontreated									45.18 a	42.00 ab
LSD (P=.05)										6.421	10.782
Standard Deviation										4.283	7.227
CV										9.25	18.41
Grand Mean										46.29	39.25
Bartlett's X2										4.786	11.778
P(Bartlett's X2)										0.572	0.067
Replicate F										1.339	0.283
Replicate Prob(F)										0.2967	0.8371
Treatment F										2.044	9.250
Treatment Prob(F)										0.1187	0.0001

School of Plant, Environmental, and Soil Sciences

Evaluation of Harvest Aids in MG V "Green Beans"

Trial ID: 07SB07JB Protocol ID: 07SB07JB
Location: Ben Hur Study Director: Joseph Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
	Crop Code									SOYBEAN	SOYBEAN
	Rating Date									16/Oct/2007	31/Oct/2007
	Rating Data Type									100 seed wt	Green leaf
	Rating Unit									grams	%
1	60% Moisture									12.11 ab	6 b
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		A		
	Induce			0.25	% V/V	0.25	% V/V		A		
2	7days after initiation									10.95 ab	4 b
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		B		
	Induce			0.25	% V/V	0.25	% V/V		B		
3	14days after initiation									10.86 ab	4 b
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		C		
	Induce			0.25	% V/V	0.25	% V/V		C		
4	21days after initiation									14.09 a	6 b
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		D		
	Induce			0.25	% V/V	0.25	% V/V		D		
5	28days after initiation									10.29 b	4 b
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		E		
	Induce			0.25	% V/V	0.25	% V/V		E		
6	Orthene as Needed 5-7 d	90	S	0.90	LB A/A	1	LB/A			13.90 a	26 a
	Baythroid as Needed 5-7 d	2	L	0.044	LB A/A	2.82	OZ/A				
7	Nontreated									10.21 b	28 a
	LSD (P=.05)									2.392	5.9
	Standard Deviation									1.596	4.0
	CV									13.56	35.97
	Grand Mean									11.77	11.0
	Bartlett's X2									14.392	12.228
	P(Bartlett's X2)									0.026*	0.057
	Replicate F									3.119	0.675
	Replicate Prob(F)									0.0555	0.5784
	Treatment F									4.238	30.262
	Treatment Prob(F)									0.0096	0.0001

School of Plant, Environmental, and Soil Sciences

Evaluation of Harvest Aids in MG V "Green Beans"

Trial ID: 07SB07JB Protocol ID: 07SB07JB
Location: Ben Hur Study Director: Joseph Boudreaux
Investigator: Dr. James L. Griffin

Crop Code										SOYBEAN
Rating Date										31/Oct/2007
Rating Data Type										Green stem
Rating Unit										%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	60% Moisture									89 a
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		A	
	Induce			0.25	% V/V	0.25	% V/V		A	
2	7days after initiation									88 a
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		B	
	Induce			0.25	% V/V	0.25	% V/V		B	
3	14days after initiation									89 a
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		C	
	Induce			0.25	% V/V	0.25	% V/V		C	
4	21days after initiation									89 a
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		D	
	Induce			0.25	% V/V	0.25	% V/V		D	
5	28days after initiation									88 a
	Gramoxone Inteon	2	SL	0.25	LB A/A	1	PT/A		E	
	Induce			0.25	% V/V	0.25	% V/V		E	
6	Orthene as Needed 5-7 d	90	S	0.90	LB A/A	1	LB/A			93 a
	Baythroid as Needed 5-7 d	2	L	0.044	LB A/A	2.82	OZ/A			
7	Nontreated									93 a

LSD (P=.05)	6.2
Standard Deviation	4.2
CV	4.7
Grand Mean	89.46
Bartlett's X2	4.956
P(Bartlett's X2)	0.55
Replicate F	0.725
Replicate Prob(F)	0.5503
Treatment F	1.045
Treatment Prob(F)	0.4297

Louisiana State University

Department of Agronomy and Environmental Management

Efficacy of Insecticides on Stinkbug Control

Experiment number ..... :	07SB08JB
Location ..... :	Ben Hur Research Farm - Baton Rouge, LA
Experimental design ..... :	Randomized Complete Block
Number of reps ..... :	4
Plot size ..... :	5X/30ft.
Row width/# per plot ..... :	15”/3
Soil type ..... :	clay loam
OM (%) ..... :	1.9
pH ..... :	6.3
Planting date ..... :	05-09-07
Harvest date ..... :	N/A
Crop/Variety ..... :	Soybean/Asgrow 5903
Uniform std. treatment ..... :	N/A
Application type ..... :	POST A
Date applied (mm-dd-yy) ..... :	08-15-07
Time (hh:mm-hh:mm) ..... :	9:45-10:15am
Incorporation equipment ..... :	N/A
Incorporation depth ..... :	N/A
Air/Soil temperature (F) ..... :	94/85
Wind (mph/direction) ..... :	4-7/E
Cloud cover (%) ..... :	40%
Relative humidity (%) ..... :	65%
Soil/Leaf surface moist ..... :	Dry/Dry
Crop stage/height ..... :	R6/38”
Sprayer type/mph ..... :	CO_2bkpk/3.0
Nozzle type/size ..... :	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18”/4/18”
GPA/psi (at nozzle) ..... :	15/25
Applied by ..... :	Boudreaux
Weed species (population/ft^2) . :	(height/# leaves)
N/A	
Rainfall (in.)	
0-24 hr/1-3 days ..... :	
4-7 days/2nd week ..... :	
3rd week/4th week ..... :	

Comments:

School of Plant, Environmental, and Soil Sciences

Efficacy of Insecticides on Stinkbug Control

Trial ID: 07SB08JB Protocol ID: 07SB08JB
Location: Ben Hur Study Director: Joseph Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Green 18/Aug/2007 #/20Sweeps 2 DAT	Brown 18/Aug/2007 #/20Sweeps 2 DAT	Red 18/Aug/2007 #/20Sweeps 2 DAT
1	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	A	1 a	0 a	3 bc
	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	B			
2	Karate	1	EC	0.03	LB A/A	3.84	OZ/A	POST	A	0 a	0 a	1 c
	Karate	1	EC	0.03	LB A/A	3.84	OZ/A	POST	B			
3	Endigo	2	L	0.047	LB A/A	3	OZ/A	POST	A	0 a	0 a	1 c
	Endigo	2	L	0.047	LB A/A	3	OZ/A	POST	B			
4	Endigo	2	L	0.0625	LB A/A	4	OZ/A	POST	A	0 a	0 a	1 c
	Endigo	2	L	0.0625	LB A/A	4	OZ/A	POST	B			
5	Orthene	90	S	0.9	LB A/A	1.0	LB/A	POST	A	0 a	0 a	6 ab
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	B			
6	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	A	0 a	0 a	1 c
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	A			
	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	B			
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	B			
7	Baythroid	2	L	0.033	LB A/A	2.11	OZ/A	POST	A	0 a	0 a	2 c
	Orthene	90	S	0.45	LB A/A	0.5	LB/A	POST	A			
	Baythroid	2	L	0.033	LB A/A	2.11	OZ/A	POST	B			
	Orthene	90	S	0.45	LB A/A	0.5	LB/A	POST	B			
8	Nontreated									1 a	0 a	8 a
LSD (P=.05)										0.9	0.3	3.1
Standard Deviation										0.6	0.2	2.1
CV										331.74	565.69	69.39
Grand Mean										0.19	0.03	3.03
Bartlett's X2										4.347	0.0	13.141
P(Bartlett's X2)										0.114	.	0.069
Replicate F										0.323	1.000	1.081
Replicate Prob(F)										0.8086	0.4123	0.3788
Treatment F										0.877	1.000	6.062
Treatment Prob(F)										0.5407	0.4586	0.0006

School of Plant, Environmental, and Soil Sciences

Efficacy of Insecticides on Stinkbug Control

Trial ID: 07SB08JB Protocol ID: 07SB08JB
Location: Ben Hur Study Director: Joseph Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Nymph 18/Aug/2007 #/20Sweeps 2 DAT	Total 18/Aug/2007 #/20Sweeps 2 DAT	Green 23/Aug/2007 #/20Sweeps 7 DAT
1	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	A	3 c	7 c	1 b
	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	B			
2	Karate	1	EC	0.03	LB A/A	3.84	OZ/A	POST	A	1 c	2 c	0 b
	Karate	1	EC	0.03	LB A/A	3.84	OZ/A	POST	B			
3	Endigo	2	L	0.047	LB A/A	3	OZ/A	POST	A	1 c	3 c	0 b
	Endigo	2	L	0.047	LB A/A	3	OZ/A	POST	B			
4	Endigo	2	L	0.0625	LB A/A	4	OZ/A	POST	A	1 c	2 c	1 b
	Endigo	2	L	0.0625	LB A/A	4	OZ/A	POST	B			
5	Orthene	90	S	0.9	LB A/A	1.0	LB/A	POST	A	7 b	14 b	1 ab
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	B			
6	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	A	3 c	4 c	0 b
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	A			
	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	B			
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	B			
7	Baythroid	2	L	0.033	LB A/A	2.11	OZ/A	POST	A	2 c	4 c	0 b
	Orthene	90	S	0.45	LB A/A	0.5	LB/A	POST	A			
	Baythroid	2	L	0.033	LB A/A	2.11	OZ/A	POST	B			
	Orthene	90	S	0.45	LB A/A	0.5	LB/A	POST	B			
8	Nontreated									15 a	23 a	2 a
LSD (P=.05)										3.2	5.1	1.1
Standard Deviation										2.2	3.4	0.7
CV										55.53	48.26	129.4
Grand Mean										3.88	7.13	0.56
Bartlett's X2										13.708	14.705	2.429
P(Bartlett's X2)										0.057	0.04*	0.488
Replicate F										0.486	1.093	2.753
Replicate Prob(F)										0.6957	0.3741	0.0681
Treatment F										19.913	18.785	4.955
Treatment Prob(F)										0.0001	0.0001	0.0020

School of Plant, Environmental, and Soil Sciences

Efficacy of Insecticides on Stinkbug Control

Trial ID: 07SB08JB Protocol ID: 07SB08JB
Location: Ben Hur Study Director: Joseph Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Brown 23/Aug/2007 #/20Sweeps 7 DAT	Red 23/Aug/2007 #/20Sweeps 7 DAT	Nymph 23/Aug/2007 #/20Sweeps 7 DAT
1	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	A	0 a	6 a	3 ab
	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	B			
2	Karate	1	EC	0.03	LB A/A	3.84	OZ/A	POST	A	0 a	2 a	0 b
	Karate	1	EC	0.03	LB A/A	3.84	OZ/A	POST	B			
3	Endigo	2	L	0.047	LB A/A	3	OZ/A	POST	A	0 a	9 a	1 b
	Endigo	2	L	0.047	LB A/A	3	OZ/A	POST	B			
4	Endigo	2	L	0.0625	LB A/A	4	OZ/A	POST	A	0 a	7 a	2 ab
	Endigo	2	L	0.0625	LB A/A	4	OZ/A	POST	B			
5	Orthene	90	S	0.9	LB A/A	1.0	LB/A	POST	A	0 a	7 a	5 ab
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	B			
6	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	A	0 a	2 a	6 ab
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	A			
	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	B			
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	B			
7	Baythroid	2	L	0.033	LB A/A	2.11	OZ/A	POST	A	0 a	8 a	5 ab
	Orthene	90	S	0.45	LB A/A	0.5	LB/A	POST	A			
	Baythroid	2	L	0.033	LB A/A	2.11	OZ/A	POST	B			
	Orthene	90	S	0.45	LB A/A	0.5	LB/A	POST	B			
8	Nontreated									0 a	11 a	11 a
LSD (P=.05)										0.0	5.9	6.2
Standard Deviation										0.0	4.0	4.2
CV										0.0	61.19	104.67
Grand Mean										0.0	6.5	4.03
Bartlett's X2										0.0	11.382	20.584
P(Bartlett's X2)										.	0.123	0.004*
Replicate F										0.000	0.553	0.128
Replicate Prob(F)										1.0000	0.6517	0.9423
Treatment F										0.000	2.325	2.682
Treatment Prob(F)										1.0000	0.0636	0.0377

School of Plant, Environmental, and Soil Sciences

Efficacy of Insecticides on Stinkbug Control

Trial ID: 07SB08JB Protocol ID: 07SB08JB
Location: Ben Hur Study Director: Joseph Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Total 23/Aug/2007 #/20Sweeps 7 DAT	Green 27/Aug/2007 #/20Sweeps 10 DAT	Brown 27/Aug/2007 #/20Sweeps 10 DAT
1	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	A	9 ab	0 a	0 a
	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	B			
2	Karate	1	EC	0.03	LB A/A	3.84	OZ/A	POST	A	3 b	0 a	0 a
	Karate	1	EC	0.03	LB A/A	3.84	OZ/A	POST	B			
3	Endigo	2	L	0.047	LB A/A	3	OZ/A	POST	A	9 ab	0 a	0 a
	Endigo	2	L	0.047	LB A/A	3	OZ/A	POST	B			
4	Endigo	2	L	0.0625	LB A/A	4	OZ/A	POST	A	9 ab	0 a	0 a
	Endigo	2	L	0.0625	LB A/A	4	OZ/A	POST	B			
5	Orthene	90	S	0.9	LB A/A	1.0	LB/A	POST	A	14 ab	1 a	0 a
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	B			
6	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	A	8 b	0 a	0 a
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	A			
	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	B			
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	B			
7	Baythroid	2	L	0.033	LB A/A	2.11	OZ/A	POST	A	13 ab	0 a	0 a
	Orthene	90	S	0.45	LB A/A	0.5	LB/A	POST	A			
	Baythroid	2	L	0.033	LB A/A	2.11	OZ/A	POST	B			
	Orthene	90	S	0.45	LB A/A	0.5	LB/A	POST	B			
8	Nontreated									24 a	2 a	0 a
LSD (P=.05)										10.0	1.7	0.3
Standard Deviation										6.8	1.2	0.2
CV										61.57	287.55	565.69
Grand Mean										11.09	0.41	0.03
Bartlett's X2										6.553	9.128	0.0
P(Bartlett's X2)										0.477	0.01*	.
Replicate F										0.151	1.366	1.000
Replicate Prob(F)										0.9281	0.2803	0.4123
Treatment F										3.307	1.829	1.000
Treatment Prob(F)										0.0156	0.1343	0.4586

School of Plant, Environmental, and Soil Sciences

Efficacy of Insecticides on Stinkbug Control

Trial ID: 07SB08JB Protocol ID: 07SB08JB
Location: Ben Hur Study Director: Joseph Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Red	Nymph	Total
Pest Name										Red	Nymph	Total
Rating Date										27/Aug/2007	27/Aug/2007	27/Aug/2007
Rating Data Type										#/20Sweeps	#/20Sweeps	#/20Sweeps
Trt-Eval Interval										10 DAT	10 DAT	10 DAT
1	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	A	14 a	5 b	19 b
	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	B			
2	Karate	1	EC	0.03	LB A/A	3.84	OZ/A	POST	A	9 a	1 b	10 b
	Karate	1	EC	0.03	LB A/A	3.84	OZ/A	POST	B			
3	Endigo	2	L	0.047	LB A/A	3	OZ/A	POST	A	12 a	2 b	14 b
	Endigo	2	L	0.047	LB A/A	3	OZ/A	POST	B			
4	Endigo	2	L	0.0625	LB A/A	4	OZ/A	POST	A	10 a	2 b	12 b
	Endigo	2	L	0.0625	LB A/A	4	OZ/A	POST	B			
5	Orthene	90	S	0.9	LB A/A	1.0	LB/A	POST	A	6 a	7 b	14 b
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	B			
6	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	A	8 a	2 b	10 b
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	A			
	Baythroid	2	L	0.044	LB A/A	2.82	OZ/A	POST	B			
	Orthene	90	S	0.9	LB A/A	1	LB/A	POST	B			
7	Baythroid	2	L	0.033	LB A/A	2.11	OZ/A	POST	A	10 a	3 b	13 b
	Orthene	90	S	0.45	LB A/A	0.5	LB/A	POST	A			
	Baythroid	2	L	0.033	LB A/A	2.11	OZ/A	POST	B			
	Orthene	90	S	0.45	LB A/A	0.5	LB/A	POST	B			
8	Nontreated									11 a	17 a	29 a
LSD (P=.05)										5.3	4.8	9.2
Standard Deviation										3.6	3.2	6.3
CV										36.6	68.69	41.81
Grand Mean										9.81	4.72	14.97
Bartlett's X2										6.688	15.032	6.71
P(Bartlett's X2)										0.462	0.036*	0.46
Replicate F										0.740	2.319	0.647
Replicate Prob(F)										0.5402	0.1047	0.5932
Treatment F										1.832	10.397	4.224
Treatment Prob(F)										0.1337	0.0001	0.0047

Louisiana State University

Department of Agronomy and Environmental Management

Soybean Row Configuration Test (New Iberia)

Experiment number ..... :	07SB10JB
Location ..... :	Ronnie Gounsoulin Farms - New Iberia, LA
Experimental design ..... :	Randomized Complete Block
Number of reps ..... :	4
Plot size ..... :	18 X 100 ft
Row width/# per plot ..... :	68”/3
Soil type ..... :	silt loam
OM (%) ..... :	1.0
pH ..... :	5.9
Planting date ..... :	05-02-07
Harvest date ..... :	N/A
Crop/Variety ..... :	Delta Pine 3861 RR
Uniform std. treatment ..... :	N/A

Application type ..... :	N/A
Date applied (mm-dd-yy) ..... :	N/A
Time (hh:mm-hh:mm) ..... :	N/A
Incorporation equipment ..... :	N/A
Incorporation depth ..... :	N/A
Air/Soil temperature (F) ..... :	N/A
Wind (mph/direction) ..... :	N/A
Cloud cover (%) ..... :	N/A
Relative humidity (%) ..... :	N/A
Soil/Leaf surface moist ..... :	N/A
Crop stage/height ..... :	N/A
Sprayer type/mph ..... :	N/A
Nozzle type/size ..... :	N/A
Boom ht/#noz/spacing (in) .... :	N/A
GPA/psi (at nozzle) ..... :	N/A
Applied by ..... :	N/A

Weed species (population/ft^2) . :	(height/# leaves)
N/A	

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments: Soybeans were planted on raised sugarcane beds spaced 68 inches apart. Row configurations/row spacings on each sugarcane bed were two rows at 18-inch spacing, two at 24-inch spacing, two rows at 30-inch spacing, and three rows at 15-inch spacing.

School of Plant, Environmental, and Soil Sciences

Soybean Row Configuration Test (New Iberia)

Trial ID: 07SB10JB Protocol ID: 07SB05JB
Location: New Iberia Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
Crop Code										SOYBEAN	SOYBEAN	SOYBEAN
Rating Date										2/Jul/2007	2/Jul/2007	2/Jul/2007
Rating Data Type										Heights	Widths	Middle
Rating Unit										IN	IN	IN
1	2 row 18" spacing									26 a	23 a	26 a
2	2 row 24" spacing									25 a	22 a	20 b
3	2 row 30" spacing									25 a	23 a	13 c
4	3 row 15" spacing									25 a	19 b	14 c
LSD (P=.05)										2.5	1.7	3.0
Standard Deviation										1.6	1.1	1.8
CV										6.24	4.95	10.2
Grand Mean										25.26	21.95	18.13
Bartlett's X2										3.242	3.261	1.282
P(Bartlett's X2)										0.356	0.353	0.733
Replicate F										1.664	1.531	2.029
Replicate Prob(F)										0.2433	0.2723	0.1804
Treatment F										0.264	10.419	42.744
Treatment Prob(F)										0.8495	0.0028	0.0001

School of Plant, Environmental, and Soil Sciences

Soybean Row Configuration Test (New Iberia)

Trial ID: 07SB10JB Protocol ID: 07SB05JB
Location: New Iberia Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
Crop Code										SOYBEAN	SOYBEAN	SOYBEAN
Rating Date										9/Jul/2007	9/Jul/2007	9/Jul/2007
Rating Data Type										Heights	Widths	Middle
Rating Unit										IN	IN	IN
1	2 row 18" spacing									30 a	25 b	19 a
2	2 row 24" spacing									30 a	26 ab	15 b
3	2 row 30" spacing									30 a	27 a	8 c
4	3 row 15" spacing									30 a	22 c	8 c
LSD (P=.05)										1.4	1.0	1.3
Standard Deviation										0.9	0.6	0.8
CV										2.91	2.49	6.55
Grand Mean										29.8	24.96	12.63
Bartlett's X2										2.669	2.02	2.292
P(Bartlett's X2)										0.446	0.568	0.514
Replicate F										3.789	1.576	7.195
Replicate Prob(F)										0.0523	0.2622	0.0092
Treatment F										0.133	55.142	187.068
Treatment Prob(F)										0.9380	0.0001	0.0001

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Soybean Row Configuration Test (New Iberia)

Trial ID: 07SB10JB Protocol ID: 07SB05JB
Location: New Iberia Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
Crop Code										SOYBEAN	SOYBEAN	SOYBEAN
Rating Date										17/Jul/2007	17/Jul/2007	17/Jul/2007
Rating Data Type										Heights	Widths	Middle
Rating Unit										IN	IN	IN
1	2 row 18" spacing									36 a	29 a	16 a
2	2 row 24" spacing									37 a	28 a	10 b
3	2 row 30" spacing									38 a	29 a	4 c
4	3 row 15" spacing									37 a	25 b	1 d
LSD (P=.05)										2.1	1.2	2.3
Standard Deviation										1.3	0.8	1.5
CV										3.54	2.78	19.81
Grand Mean										37.21	27.76	7.35
Bartlett's X2										11.414	3.538	1.406
P(Bartlett's X2)										0.01*	0.316	0.704
Replicate F										1.076	4.332	2.368
Replicate Prob(F)										0.4070	0.0378	0.1386
Treatment F										0.676	17.346	84.248
Treatment Prob(F)										0.5885	0.0004	0.0001

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Soybean Row Configuration Test (New Iberia)

Trial ID: 07SB10JB Protocol ID: 07SB05JB
Location: New Iberia Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 23/Jul/2007 Heights IN	SOYBEAN 23/Jul/2007 Widths IN	SOYBEAN 23/Jul/2007 Middle IN
1	2 row 18" spacing									39 a	31 a	15 a
2	2 row 24" spacing									40 a	31 a	9 b
3	2 row 30" spacing									39 a	30 a	2 c
4	3 row 15" spacing									39 a	28 b	0 c
LSD (P=.05)										2.0	1.1	2.0
Standard Deviation										1.2	0.7	1.3
CV										3.15	2.18	19.91
Grand Mean										39.56	30.09	6.34
Bartlett's X2										3.534	0.388	0.758
P(Bartlett's X2)										0.316	0.943	0.685
Replicate F										0.018	6.977	3.035
Replicate Prob(F)										0.9963	0.0101	0.0856
Treatment F										0.172	12.835	114.894
Treatment Prob(F)										0.9123	0.0013	0.0001

School of Plant, Environmental, and Soil Sciences

Soybean Row Configuration Test (New Iberia)

Trial ID: 07SB10JB Protocol ID: 07SB05JB
Location: New Iberia Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 29/Jul/2007 Heights IN	SOYBEAN 29/Jul/2007 Widths IN	SOYBEAN 29/Jul/2007 Middle IN
1	2 row 18" spacing									39 a	30 b	10 a
2	2 row 24" spacing									39 a	31 ab	6 b
3	2 row 30" spacing									39 a	32 a	0 c
4	3 row 15" spacing									39 a	25 c	0 c
LSD (P=.05)										1.8	1.2	1.1
Standard Deviation										1.1	0.7	0.7
CV										2.84	2.47	17.46
Grand Mean										39.06	29.48	4.05
Bartlett's X2										5.032	4.131	1.442
P(Bartlett's X2)										0.169	0.248	0.23
Replicate F										0.067	7.341	2.013
Replicate Prob(F)										0.9760	0.0086	0.1826
Treatment F										0.137	73.746	192.241
Treatment Prob(F)										0.9352	0.0001	0.0001

School of Plant, Environmental, and Soil Sciences

Soybean Row Configuration Test (New Iberia)

Trial ID: 07SB10JB Protocol ID: 07SB05JB
Location: New Iberia Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SOYBEAN 6/Aug/2007 Heights IN	SOYBEAN 6/Aug/2007 Widths IN	SOYBEAN 6/Aug/2007 Middle IN
1	2 row 18" spacing									40 a	30 a	9 a
2	2 row 24" spacing									41 a	31 a	5 b
3	2 row 30" spacing									40 a	31 a	0 c
4	3 row 15" spacing									40 a	27 b	0 c
LSD (P=.05)										1.6	1.7	1.7
Standard Deviation										1.0	1.1	1.1
CV										2.52	3.63	30.83
Grand Mean										40.38	29.71	3.49
Bartlett's X2										1.207	11.624	0.259
P(Bartlett's X2)										0.751	0.009*	0.611
Replicate F										1.765	0.985	1.335
Replicate Prob(F)										0.2235	0.4424	0.3231
Treatment F										0.453	11.390	61.487
Treatment Prob(F)										0.7213	0.0020	0.0001

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Louisiana State University

School of Plant, Environmental, and Soil Sciences

Evaluation of A15189 for POST Weed Control in Corn

Experiment number	07CN01JG
Location	Ben Hur Research Farm- Baton Rouge LA
Experimental design	Randomized Complete Block
Number of reps	4
Plot size	6X30ft.
Row width/# per plot	38”/2
Soil type	clay loam
OM (%)	1.9
pH	6.3
Planting date	3/20/07
Harvest date	N/A
Crop/Variety	DeKalb 69-71 RR BT
Uniform std. treatment	N/A

Application type	PRE	POST B	POST C	POST D
Date applied (mm-dd-yy)	03/28/07	04/09/07	04/17/07	05/01/07
Time (hh:mm-hh:mm)	2:00-2:30pm	3:45-4:00pm	12:00-12:15pm	11:30-11:45am
Incorporation equipment	N/A	N/A	N/A	N/A
Incorporation depth	N/A	N/A	N/A	N/A
Air/Soil temperature (F)	82/75	70/62	78/80	85/80
Wind (mph/direction)	3-5/E	3-6/SW	2-3/SE	3-5/E
Cloud cover (%)	30%	75%	20%	30%
Relative humidity (%)	58%	45%	28%	57%
Soil/Leaf surface moist	Dry/Dry	Dry/Dry	Dry/Dry	Dry/Dry
Crop stage/height	V2-V3/2-3”	V4-V5/8-10”	V5-V6/10-14”	V10-V12/32-36”
Sprayer type/mph	CO_2bkpk/3.0	CO_2bkpk/3.0	CO_2bkpk/3.0	CO_2bkpk/3.0
Nozzle type/size	FF/11002VS	FF/11002VS	FF/11002VS	FF/11004VS
Boom ht/#noz/spacing (in)	18”/4/18”	18”/4/18”	18”/4/18”	18”/3/38”
GPA/psi (at nozzle)	15/25	15/25	15/25	15/28
Applied by	Boudreaux	Boudreaux	Boudreaux	Boudreaux
Weed species (population/ft^2)	(height/# leaves)			
IPOHE (.25 ft^2)	1”/cot-2lf	2-3”/3-6lf	3-5”/6-10lf	1-2”/cot-2lf
LAMAM (1/ ft^2)	2-3”/2-4lf	2-3”/4-6lf	3-6”/10-12lf	
Rainfall (in.)				
0-24 hr/1-3 days	0.00/0.00	0.00/1.01	0.00/0.11	0.00/1.51
4-7 days/2nd week	0.36/1.44	0.50/1.78	0.00/1.48	1.81/0.50
3rd week/4th week	0.39/0.11	1.51/1.73	3.18/0.50	1.25/0.44

Comments:
Roundup Original Max added to PRE treatments at 22oz/a to control emerged weeds.
POST D application post directed under canopy.

School of Plant, Environmental, and Soil Sciences

Evaluation of A15189 for POST Weed Control in Corn

Trial ID: 07CN01JG
Location: Ben Hur

Protocol ID: 07CN01JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
Pest Code											IPOHE
Crop Code										CORN	
Rating Date										16/Apr/2007	16/Apr/2007
Rating Data Type										Injury	Control
Rating Unit										%	%
1	A15189	4.38	SC	2.2	LB A/A	4	PT/A	EPOST	B	0 a	49 c
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	EPOST	B		
	Induce			0.25	% V/V	0.25	% V/V	EPOST	B		
2	A15189	4.38	SC	2.2	LB A/A	4	PT/A	EPOST	B	0 a	80 b
	AAtrex	4	L	0.5	LB A/A	1	PT/A	EPOST	B		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	EPOST	B		
	Induce			0.25	% V/V	0.25	% V/V	EPOST	B		
3	Lumax	3.94	SE	1.97	LB A/A	2	QT/A	PRE	A	0 a	100 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	D		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	D		
4	Harness Xtra	5.6	L	2.1	LB A/A	1.5	QT/A	PRE	A	0 a	100 a
	Roundup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	D		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	D		
5	Roudup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	C	0 a	0 d
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	C		
6	Roundup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	C	0 a	0 d
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	C		
	Roundup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	D		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	D		
7	Nontreated									0 a	0 d
LSD (P=.05)										0.0	2.5
Standard Deviation										0.0	1.7
CV										0.0	3.61
Grand Mean										0.0	46.96
Bartlett's X2										0.0	0.678
P(Bartlett's X2)										.	0.41
Replicate F										0.000	1.966
Replicate Prob(F)										1.0000	0.1553
Treatment F										0.000	3090.518
Treatment Prob(F)										1.0000	0.0001

School of Plant, Environmental, and Soil Sciences

Evaluation of A15189 for POST Weed Control in Corn

Trial ID: 07CN01JG
Location: Ben Hur

Protocol ID: 07CN01JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
Pest Code											IPOHE
Crop Code										CORN	
Rating Date										24/Apr/2007	24/Apr/2007
Rating Data Type										Injury	Control
Rating Unit										%	%
1	A15189	4.38	SC	2.2	LB A/A	4	PT/A	EPOST	B	0 a	93 b
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	EPOST	B		
	Induce			0.25	% V/V	0.25	% V/V	EPOST	B		
2	A15189	4.38	SC	2.2	LB A/A	4	PT/A	EPOST	B	0 a	97 ab
	AAtrex	4	L	0.5	LB A/A	1	PT/A	EPOST	B		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	EPOST	B		
	Induce			0.25	% V/V	0.25	% V/V	EPOST	B		
3	Lumax	3.94	SE	1.97	LB A/A	2	QT/A	PRE	A	0 a	100 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	D		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	D		
4	Harness Xtra	5.6	L	2.1	LB A/A	1.5	QT/A	PRE	A	0 a	100 a
	Roundup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	D		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	D		
5	Roudup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	C	0 a	39 c
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	C		
6	Roundup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	C	0 a	38 c
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	C		
	Roundup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	D		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	D		
7	Nontreated									0 a	0 d
LSD (P=.05)										0.0	4.1
Standard Deviation										0.0	2.8
CV										0.0	4.14
Grand Mean										0.0	66.43
Bartlett's X2										0.0	12.116
P(Bartlett's X2)										.	0.033*
Replicate F										0.000	0.842
Replicate Prob(F)										1.0000	0.4884
Treatment F										0.000	864.803
Treatment Prob(F)										1.0000	0.0001

School of Plant, Environmental, and Soil Sciences

Evaluation of A15189 for POST Weed Control in Corn

Trial ID: 07CN01JG
Location: Ben Hur

Protocol ID: 07CN01JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
Pest Code											IPOHE
Crop Code										CORN	
Rating Date										1/May/2007	1/May/2007
Rating Data Type										Injury	Control
Rating Unit										%	%
1	A15189	4.38	SC	2.2	LB A/A	4	PT/A	EPOST	B	0 a	94 a
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	EPOST	B		
	Induce			0.25	% V/V	0.25	% V/V	EPOST	B		
2	A15189	4.38	SC	2.2	LB A/A	4	PT/A	EPOST	B	0 a	98 a
	AAtrex	4	L	0.5	LB A/A	1	PT/A	EPOST	B		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	EPOST	B		
	Induce			0.25	% V/V	0.25	% V/V	EPOST	B		
3	Lumax	3.94	SE	1.97	LB A/A	2	QT/A	PRE	A	0 a	98 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	D		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	D		
4	Harness Xtra	5.6	L	2.1	LB A/A	1.5	QT/A	PRE	A	0 a	90 a
	Roundup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	D		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	D		
5	Roudup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	C	0 a	50 b
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	C		
6	Roundup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	C	0 a	75 ab
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	C		
	Roundup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	D		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	D		
7	Nontreated									0 a	15 c
LSD (P=.05)										0.0	31.0
Standard Deviation										0.0	20.8
CV										0.0	28.02
Grand Mean										0.0	74.36
Bartlett's X2										0.0	43.359
P(Bartlett's X2)										.	0.001*
Replicate F										0.000	0.027
Replicate Prob(F)										1.0000	0.9938
Treatment F										0.000	9.044
Treatment Prob(F)										1.0000	0.0001

School of Plant, Environmental, and Soil Sciences

Evaluation of A15189 for POST Weed Control in Corn

Trial ID: 07CN01JG
Location: Ben Hur

Protocol ID: 07CN01JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ECHCG	IPOHE
	Pest Code									ECHCG	IPOHE
	Crop Code										
	Rating Date									31/May/2007	31/May/2007
	Rating Data Type									Control	Control
	Rating Unit									%	%
1	A15189	4.38	SC	2.2	LB A/A	4	PT/A	EPOST	B	100 a	98 a
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	EPOST	B		
	Induce			0.25	% V/V	0.25	% V/V	EPOST	B		
2	A15189	4.38	SC	2.2	LB A/A	4	PT/A	EPOST	B	100 a	97 a
	AAtrex	4	L	0.5	LB A/A	1	PT/A	EPOST	B		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	EPOST	B		
	Induce			0.25	% V/V	0.25	% V/V	EPOST	B		
3	Lumax	3.94	SE	1.97	LB A/A	2	QT/A	PRE	A	100 a	99 a
	Touchdown Total	4.17	SL	0.78	LB AE/A	24	OZ/A	POST	D		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	D		
4	Harness Xtra	5.6	L	2.1	LB A/A	1.5	QT/A	PRE	A	100 a	100 a
	Roundup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	D		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	D		
5	Roudup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	C	75 a	97 a
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	C		
6	Roundup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	C	100 a	97 a
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	C		
	Roundup Original Max	4.5	SL	0.77	LB AE/A	22	OZ/A	POST	D		
	Ammonium Sulfate		SG	1.0	% W/V	1.0	% W/V	POST	D		
7	Nontreated									0 b	0 b
	LSD (P=.05)									27.9	2.9
	Standard Deviation									18.8	2.0
	CV									22.88	2.34
	Grand Mean									82.07	83.71
	Bartlett's X2									0.0	2.534
	P(Bartlett's X2)									.	0.771
	Replicate F									1.000	0.099
	Replicate Prob(F)									0.4155	0.9596
	Treatment F									15.886	1415.941
	Treatment Prob(F)									0.0001	0.0001

Louisiana State University

School of Plant, Environmental, and Soil Sciences

Weed Control with Callisto PRE and POST

Experiment number ..... :	07GN03JG	
Location ..... :	Ben Hur Research Farm- Baton Rouge LA	
Experimental design ..... :	Randomized Complete Block	
Number of reps ..... :	4	
Plot size ..... :	10X25ft.	
Row width/# per plot ..... :	N/A	
Soil type ..... :	clay loam	
OM (%) ..... :	1.9	
pH ..... :	6.3	
Planting date ..... :	N/A	
Harvest date ..... :	N/A	
Crop/Variety ..... :	N/A	
Uniform std. treatment ..... :	N/A	
Application type ..... :	PRE	POST B
Date applied (mm-dd-yy) ..... :	05-11-07	06-18-07
Time (hh:mm-hh:mm) ..... :	8:45-9:30am	8:15-8:30am
Incorporation equipment ..... :	N/A	N/A
Incorporation depth ..... :	N/A	N/A
Air/Soil temperature (F) ..... :	80/72	86/75
Wind (mph/direction) ..... :	2-5/NE	4-6/SE
Cloud cover (%) ..... :	80%	25%
Relative humidity (%) ..... :	80%	87%
Soil/Leaf surface moist ..... :	Dry/N/A	Dry/Moist
Crop stage/height ..... :	N/A	N/A
Sprayer type/mph ..... :	CO_2bkpk/3.0	CO_2bkpk/3.0
Nozzle type/size ..... :	FF/11002VS	FF/11002VS
Boom ht/#noz/spacing (in) .... :	18”/4/18”	18”/4/18”
GPA/psi (at nozzle) ..... :	15/25	15/25
Applied by ..... :	Boudreaux	Boudreaux
Weed species (population/ft^2) . :	(height/# leaves)	
ECHCG (2-3) ..... :		8-10”/15-18lf
IPOLA (1) ..... :		6-8” runners

Rainfall (in.)		
0-24 hr/1-3 days ..... :	0.00/0.49	0.00/5.76
4-7 days/2nd week ..... :	1.26/0.33	0.00/0.08
3rd week/4th week ..... :	1.00/0.11	3.15/1.53

Comments:

School of Plant, Environmental, and Soil Sciences

Weed Control with Callisto PRE and POST

Trial ID: 07GN03JG
Location: Ben Hur

Protocol ID: 07GN03JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ECHCG 6/Jun/2007 Control %	IPOLA 6/Jun/2007 Control %	ECHCG 22/Jun/2007 Control %
1	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A	84 ab	94 a	69 ab
2	AAtrex	4	L	2	LB A/A	2	QT/A	PRE	A	74 ab	91 a	58 b
3	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	PRE	A	84 ab	90 a	69 ab
	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A			
4	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	PRE	A	75 ab	89 a	66 ab
	AAtrex	4	L	2	LB A/A	2	QT/A	PRE	A			
5	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A	83 ab	91 a	78 ab
	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	POST	B			
	AAtrex	4	L	2	LB A/A	2	QT/A	POST	B			
	Agridex			1.0	% V/V	1	% V/V	POST	B			
6	AAtrex	4	L	2	LB A/A	2	QT/A	PRE	A	58 b	89 a	59 b
	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	POST	B			
	AAtrex	4	L	2	LB A/A	2	QT/A	POST	B			
	Agridex			1.0	% V/V	1	% V/V	POST	B			
7	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	PRE	A	89 a	93 a	83 ab
	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A			
	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	POST	B			
	AAtrex	4	L	2	LB A/A	2	QT/A	POST	B			
	Agridex			1.0	% V/V	1	% V/V	POST	B			
8	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	PRE	A	74 ab	93 a	71 ab
	AAtrex	4	L	2	LB A/A	2	QT/A	PRE	A			
	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	POST	B			
	AAtrex	4	L	2	LB A/A	2	QT/A	POST	B			
	Agridex			1.0	% V/V	1	% V/V	POST	B			
9	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A	84 ab	89 a	74 ab
	Envoke	75	WG	0.014	LB A/A	0.3	OZ/A	POST	B			
	Asulox	3.34	L	1.67	LB A/A	64	OZ/A	POST	B			
	Induce			0.25	% V/V	0.25	% V/V	POST	B			
10	AAtrex	4	L	2	LB A/A	2	QT/A	PRE	A	66 ab	90 a	69 ab
	Envoke	75	WG	0.014	LB A/A	0.3	OZ/A	POST	B			
	Asulox	3.34	L	1.67	LB A/A	64	OZ/A	POST	B			
	Induce			0.25	% V/V	0.25	% V/V	POST	B			
11	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	PRE	A	90 a	97 a	87 a
	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A			
	Envoke	75	WG	0.014	LB A/A	0.3	OZ/A	POST	B			
	Asulox	3.34	L	1.67	LB A/A	64	OZ/A	POST	B			
	Induce			0.25	% V/V	0.25	% V/V	POST	B			

School of Plant, Environmental, and Soil Sciences

Weed Control with Callisto PRE and POST

Trial ID: 07GN03JG
Location: Ben Hur

Protocol ID: 07GN03JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ECHCG 6/Jun/2007 Control %	IPOLA 6/Jun/2007 Control %	ECHCG 22/Jun/2007 Control %
12	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	PRE	A	76 ab	89 a	71 ab
	AAtrex	4	L	2	LB A/A	2	QT/A	PRE	A			
	Enovke	75	WG	0.014	LB A/A	0.3	OZ/A	POST	B			
	Asulox	3.34	L	1.67	LB A/A	64	OZ/A	POST	B			
	Induce			0.25	% V/V	0.25	% V/V	POST	B			
13	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A	69 ab	86 a	68 ab
	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	POST	B			
	Asulox	3.34	L	1.67	LB A/A	64	OZ/A	POST	B			
	Agridex			0.25	% V/V	0.25	% V/V	POST	B			
14	Callisto	4	SC	0.24	LB A/A	7.7	OZ/A	PRE	A	93 a	98 a	90 a
	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A			
	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	POST	B			
	AAtrex	4	L	2	LB A/A	2	QT/A	POST	B			
	Agridex			1.0	% V/V	1	% V/V	POST	B			
15	Nontreated									0 c	0 b	0 c
LSD (P=.05)										16.1	7.7	15.1
Standard Deviation										11.3	5.4	10.6
CV										15.43	6.34	15.69
Grand Mean										73.21	85.23	67.27
Bartlett's X2										10.357	13.571	16.241
P(Bartlett's X2)										0.664	0.405	0.236
Replicate F										4.131	5.062	4.642
Replicate Prob(F)										0.0120	0.0045	0.0068
Treatment F										15.793	77.602	15.373
Treatment Prob(F)										0.0001	0.0001	0.0001

School of Plant, Environmental, and Soil Sciences

Weed Control with Callisto PRE and POST

Trial ID: 07GN03JG
Location: Ben Hur

Protocol ID: 07GN03JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Pest Code	IPOLA
Rating Date	22/Jun/2007
Rating Data Type	Control
Rating Unit	%

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A	95 a
2	AAtrex	4	L	2	LB A/A	2	QT/A	PRE	A	84 a
3	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	PRE	A	84 a
	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A	
4	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	PRE	A	90 a
	AAtrex	4	L	2	LB A/A	2	QT/A	PRE	A	
5	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A	94 a
	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	POST	B	
	AAtrex	4	L	2	LB A/A	2	QT/A	POST	B	
	Agridex			1.0	% V/V	1	% V/V	POST	B	
6	AAtrex	4	L	2	LB A/A	2	QT/A	PRE	A	80 a
	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	POST	B	
	AAtrex	4	L	2	LB A/A	2	QT/A	POST	B	
	Agridex			1.0	% V/V	1	% V/V	POST	B	
7	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	PRE	A	95 a
	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A	
	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	POST	B	
	AAtrex	4	L	2	LB A/A	2	QT/A	POST	B	
	Agridex			1.0	% V/V	1	% V/V	POST	B	
8	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	PRE	A	94 a
	AAtrex	4	L	2	LB A/A	2	QT/A	PRE	A	
	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	POST	B	
	AAtrex	4	L	2	LB A/A	2	QT/A	POST	B	
	Agridex			1.0	% V/V	1	% V/V	POST	B	
9	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A	84 a
	Envoke	75	WG	0.014	LB A/A	0.3	OZ/A	POST	B	
	Asulox	3.34	L	1.67	LB A/A	64	OZ/A	POST	B	
	Induce			0.25	% V/V	0.25	% V/V	POST	B	
10	AAtrex	4	L	2	LB A/A	2	QT/A	PRE	A	94 a
	Envoke	75	WG	0.014	LB A/A	0.3	OZ/A	POST	B	
	Asulox	3.34	L	1.67	LB A/A	64	OZ/A	POST	B	
	Induce			0.25	% V/V	0.25	% V/V	POST	B	
11	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	PRE	A	93 a
	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A	
	Envoke	75	WG	0.014	LB A/A	0.3	OZ/A	POST	B	
	Asulox	3.34	L	1.67	LB A/A	64	OZ/A	POST	B	
	Induce			0.25	% V/V	0.25	% V/V	POST	B	

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Weed Control with Callisto PRE and POST

Trial ID: 07GN03JG
Location: Ben Hur

Protocol ID: 07GN03JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Pest Code	IPOLA
Rating Date	22/Jun/2007
Rating Data Type	Control
Rating Unit	%

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
12	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	PRE	A	88 a
	AAtrex	4	L	2	LB A/A	2	QT/A	PRE	A	
	Enovke	75	WG	0.014	LB A/A	0.3	OZ/A	POST	B	
	Asulox	3.34	L	1.67	LB A/A	64	OZ/A	POST	B	
	Induce			0.25	% V/V	0.25	% V/V	POST	B	
13	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A	75 a
	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	POST	B	
	Asulox	3.34	L	1.67	LB A/A	64	OZ/A	POST	B	
	Agridex			0.25	% V/V	0.25	% V/V	POST	B	
14	Callisto	4	SC	0.24	LB A/A	7.7	OZ/A	PRE	A	95 a
	AAtrex	4	L	4	LB A/A	4	QT/A	PRE	A	
	Callisto	4	SC	0.094	LB A/A	3.0	OZ/A	POST	B	
	AAtrex	4	L	2	LB A/A	2	QT/A	POST	B	
	Agridex			1.0	% V/V	1	% V/V	POST	B	
15	Nontreated									0 b

LSD (P=.05)	16.3
Standard Deviation	11.4
CV	13.76
Grand Mean	82.83
Bartlett's X2	31.865
P(Bartlett's X2)	0.001*
Replicate F	1.048
Replicate Prob(F)	0.3813
Treatment F	17.384
Treatment Prob(F)	0.0001

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Efficacy of Glyphosate Formulations

Experiment number ..... :	07GN05JG
Location ..... :	Ben Hur Research Farm- Baton Rouge LA
Experimental design ..... :	Randomized Complete Block
Number of reps ..... :	4
Plot size ..... :	8' x 25'
Row width/# per plot ..... :	8'/1
Soil type ..... :	Clay loam
OM (%) ..... :	1.9
pH ..... :	6.3
Planting date ..... :	N/A
Harvest date ..... :	N/A
Crop/Variety ..... :	N/A
Uniform std. treatment ..... :	N/A

Application type ..... :	POST A
Date applied (mm-dd-yy) ..... :	05-24-07
Time (hh:mm-hh:mm) ..... :	7:30-8:00am
Incorporation equipment ..... :	N/A
Incorporation depth ..... :	N/A
Air/Soil temperature (F) ..... :	77/60
Wind (mph/direction) ..... :	1-2/NE
Cloud cover (%) ..... :	0
Relative humidity (%) ..... :	71
Soil/Leaf surface moist ..... :	dry/moist
Crop stage/height ..... :	N/A
Sprayer type/mph ..... :	CO_2bkpk/3.0
Nozzle type/size ..... :	FF11015VS
Boom ht/#noz/spacing (in) .... :	18/3/15
GPA/psi (at nozzle) ..... :	15/32
Applied by ..... :	Boudreaux

Weed species (population/ft^2) . :	(height/# leaves)
ECHCG (1-2) ..... :	4-6"/10-12
IPOHE (1) ..... :	6-10" runners
CUMMD (1) ..... :	4-6"/4-6
AMACH (1) ..... :	6-8"/6-10
MEOCO (1) ..... :	2-4"/4-6

Rainfall (in.)

0-24 hr/1-3 days ..... :	0.30/0.41
4-7 days/2nd week ..... :	0.59/0.27
3rd week/4th week ..... :	0.17/

Comments:

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Efficacy of Glyphosate Formulations

Trial ID: 07GN05JG Protocol ID: 07GN01JG
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ECHCG 31/May/2007 Control %	IPOHE 31/May/2007 Control %	AMACH 31/May/2007 Control %
1	MON 76111	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	79 a	35 a	85 a
2	MON 76351	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	83 a	46 a	93 a
3	MON 76105	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	78 a	43 a	90 a
4	MON 76165	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	79 a	39 a	90 a
5	MON 79789	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	74 a	38 a	91 a
6	MON 76204	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	76 a	39 a	85 a
7	MON 79770	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	78 a	45 a	93 a
8	MON 79831	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	79 a	44 a	95 a
9	MON 79614	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	75 a	40 a	88 a
	LI 700			0.25	% V/V	0.25	% V/V	POST	A			
10	MON 79616	4.2	SL	0.75	LB AE/A	22.9	OZ/A	POST	A	79 a	44 a	92 a
11	MON 79685	4	SL	0.75	LB AE/A	24	OZ/A	POST	A	83 a	49 a	88 a
12	Nontreated									0 b	0 b	0 b
LSD (P=.05)										5.9	9.3	6.3
Standard Deviation										4.1	6.4	4.3
CV										5.7	16.79	5.17
Grand Mean										71.67	38.33	82.4
Bartlett's X2										10.748	5.483	2.111
P(Bartlett's X2)										0.293	0.857	0.953
Replicate F										8.250	6.808	0.248
Replicate Prob(F)										0.0003	0.0011	0.8616
Treatment F										123.841	15.595	150.680
Treatment Prob(F)										0.0001	0.0001	0.0001

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Efficacy of Glyphosate Formulations

Trial ID: 07GN05JG Protocol ID: 07GN01JG
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CUMMD 31/May/2007 Control %	ECHCG 6/Jun/2007 Control %	IPOHE 6/Jun/2007 Control %
1	MON 76111	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	29 b	95 a	59 a
2	MON 76351	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	33 ab	96 a	70 a
3	MON 76105	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	33 ab	96 a	71 a
4	MON 76165	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	29 b	96 a	68 a
5	MON 79789	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	30 b	95 a	70 a
6	MON 76204	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	34 ab	96 a	66 a
7	MON 79770	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	52 a	97 a	70 a
8	MON 79831	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	43 ab	95 a	69 a
9	MON 79614	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	30 b	95 a	68 a
	LI 700			0.25	% V/V	0.25	% V/V	POST	A			
10	MON 79616	4.2	SL	0.75	LB AE/A	22.9	OZ/A	POST	A	50 ab	96 a	70 a
11	MON 79685	4	SL	0.75	LB AE/A	24	OZ/A	POST	A	35 ab	97 a	70 a
12	Nontreated									0 c	0 b	0 b
LSD (P=.05)										12.6	1.9	7.4
Standard Deviation										8.6	1.3	5.1
CV										26.02	1.46	8.19
Grand Mean										33.02	87.65	62.56
Bartlett's X2										7.392	1.374	5.983
P(Bartlett's X2)										0.596	0.986	0.817
Replicate F										0.462	3.159	6.086
Replicate Prob(F)										0.7116	0.0375	0.0021
Treatment F										9.236	1856.511	60.750
Treatment Prob(F)										0.0001	0.0001	0.0001

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Efficacy of Glyphosate Formulations

Trial ID: 07GN05JG Protocol ID: 07GN01JG
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CUMMD 6/Jun/2007 Control %	ECHCG 14/Jun/2007 Control %	IPOLA 14/Jun/2007 Control %
1	MON 76111	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	58 a	97 a	54 a
2	MON 76351	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	61 a	96 a	60 a
3	MON 76105	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	61 a	95 a	60 a
4	MON 76165	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	61 a	96 a	58 a
5	MON 79789	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	68 a	96 a	63 a
6	MON 76204	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	59 a	96 a	54 a
7	MON 79770	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	64 a	96 a	60 a
8	MON 79831	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	63 a	96 a	63 a
9	MON 79614	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	65 a	96 a	63 a
	LI 700			0.25	% V/V	0.25	% V/V	POST	A			
10	MON 79616	4.2	SL	0.75	LB AE/A	22.9	OZ/A	POST	A	61 a	97 a	61 a
11	MON 79685	4	SL	0.75	LB AE/A	24	OZ/A	POST	A	69 a	97 a	61 a
12	Nontreated									0 b	0 b	0 b
LSD (P=.05)										11.3	1.6	5.8
Standard Deviation										7.8	1.1	4.0
CV										13.62	1.24	7.37
Grand Mean										57.32	87.9	54.58
Bartlett's X2										2.638	0.247	9.0
P(Bartlett's X2)										0.989	1.00	0.437
Replicate F										3.463	9.842	1.891
Replicate Prob(F)										0.0295	0.0001	0.1504
Treatment F										22.123	2581.453	75.469
Treatment Prob(F)										0.0001	0.0001	0.0001

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Efficacy of Glyphosate Formulations

Trial ID: 07GN05JG Protocol ID: 07GN01JG
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Pest Code	CUMMD
Rating Date	14/Jun/2007
Rating Data Type	Control
Rating Unit	%

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	MON 76111	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	58 a
2	MON 76351	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	55 a
3	MON 76105	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	56 a
4	MON 76165	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	63 a
5	MON 79789	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	60 a
6	MON 76204	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	55 a
7	MON 79770	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	61 a
8	MON 79831	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	59 a
9	MON 79614	4.5	SL	0.75	LB AE/A	21.3	OZ/A	POST	A	61 a
	LI 700			0.25	% V/V	0.25	% V/V	POST	A	
10	MON 79616	4.2	SL	0.75	LB AE/A	22.9	OZ/A	POST	A	60 a
11	MON 79685	4	SL	0.75	LB AE/A	24	OZ/A	POST	A	59 a
12	Nontreated									0 b

LSD (P=.05)	6.6
Standard Deviation	4.6
CV	8.48
Grand Mean	53.85
Bartlett's X2	6.747
P(Bartlett's X2)	0.749
Replicate F	9.684
Replicate Prob(F)	0.0001
Treatment F	56.328
Treatment Prob(F)	0.0001

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Bermudagrass Shade Study

Experiment number ..... :	07GN06JG
Location ..... :	Ben Hur Research Farm- Baton Rouge LA
Experimental design ..... :	Randomized Complete Block
Number of reps ..... :	4
Plot size ..... :	2X2ft.
Row width/# per plot ..... :	N/A
Soil type ..... :	clay loam
OM (%) ..... :	1.9
pH ..... :	6.3
Planting date ..... :	06-07-07
Harvest date ..... :	08-01-07
Crop/Variety ..... :	Bermudagrss/Common
Uniform std. treatment ..... :	Rotary Tiller 06-07-07

Application type ..... :	
Date applied (mm-dd-yy) ..... :	06-07-07
Time (hh:mm-hh:mm) ..... :	11:30am
Incorporation equipment ..... :	N/A
Incorporation depth ..... :	N/A
Air/Soil temperature (F) ..... :	N/A
Wind (mph/direction) ..... :	N/A
Cloud cover (%) ..... :	N/A
Relative humidity (%) ..... :	N/A
Soil/Leaf surface moist ..... :	N/A
Crop stage/height ..... :	N/A
Sprayer type/mph ..... :	N/A
Nozzle type/size ..... :	N/A
Boom ht/#noz/spacing (in) .... :	N/A
GPA/psi (at nozzle) ..... :	N/A
Applied by ..... :	N/A

Weed species (population/ft^2) . :	(height/# leaves)
N/A	

Rainfall (in.)
0-24 hr/1-3 days ..... :
4-7 days/2nd week ..... :
3rd week/4th week ..... :

Comments:

Bermudagrass shade study initiated 06-07-07
Wet wts. Measured 08-01-07

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Bermudagrass Shade Study

Trial ID: 07GN06JG Protocol ID: 07GN06JG
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
Pest Code										CYNDA	CYNDA	CYNDA
Rating Date										9/Jul/2007	9/Jul/2007	19/Jul/2007
Rating Data Type										GroundCover	Heights	GroundCover
Rating Unit										%	cm	%
1	90% Shade									23 b	24 b	19 b
2	70% Shade									34 b	29 a	30 b
3	50% Shade									54 a	27 ab	64 a
4	30% Shade									56 a	26 ab	60 a
5	No Shade									72 a	16 c	76 a
LSD (P=.05)										15.1	3.5	16.0
Standard Deviation										9.7	2.2	10.3
CV										20.33	9.18	20.68
Grand Mean										47.68	24.23	49.63
Bartlett's X2										10.415	3.704	10.161
P(Bartlett's X2)										0.034*	0.448	0.017*
Replicate F										3.235	2.610	4.299
Replicate Prob(F)										0.0645	0.1040	0.0309
Treatment F										15.707	20.872	22.039
Treatment Prob(F)										0.0002	0.0001	0.0001

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Bermudagrass Shade Study

Trial ID: 07GN06JG
Location: Ben Hur

Protocol ID: 07GN06JG
Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
Pest Code										CYNDA	CYNDA	CYNDA
Rating Date										19/Jul/2007	1/Aug/2007	1/Aug/2007
Rating Data Type										Heights	GroundCover	Heights
Rating Unit										cm	%	cm
1	90% Shade									28 a	15 d	34 ab
2	70% Shade									33 a	30 c	40 a
3	50% Shade									35 a	66 b	41 a
4	30% Shade									33 a	73 b	37 ab
5	No Shade									27 a	88 a	30 b
LSD (P=.05)										11.3	10.0	6.3
Standard Deviation										7.3	6.4	4.0
CV										23.27	11.83	11.03
Grand Mean										31.17	54.44	36.51
Bartlett's X2										1.639	0.666	1.6
P(Bartlett's X2)										0.802	0.881	0.809
Replicate F										1.023	2.140	2.723
Replicate Prob(F)										0.4196	0.1531	0.0952
Treatment F										1.033	90.934	4.882
Treatment Prob(F)										0.4329	0.0001	0.0165

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Bermudagrass Shade Study

Trial ID: 07GN06JG Protocol ID: 07GN06JG
Location: Ben Hur Study Director: Joseph M. Boudreaux
Investigator: Dr. James L. Griffin

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	CYNDA 1/Aug/2007 Wet Weight grams	CYNDA 3/Aug/2007 Dry Weight grams
1	90% Shade									34 b	14 c
2	70% Shade									68 b	25 c
3	50% Shade									260 a	121 b
4	30% Shade									327 a	152 b
5	No Shade									320 a	220 a
LSD (P=.05)										124.2	48.3
Standard Deviation										79.8	31.0
CV										39.59	29.16
Grand Mean										201.59	106.35
Bartlett's X2										22.263	23.503
P(Bartlett's X2)										0.001*	0.001*
Replicate F										1.585	3.339
Replicate Prob(F)										0.2488	0.0597
Treatment F										12.408	31.673
Treatment Prob(F)										0.0005	0.0001