

LSU Northeast Research Station
EFFICACY OF NEXT GENERATION FORMULATIONS

GENERAL TRIAL INFORMATION

Study Director: MONSANTO
Investigator: Donnie Miller
TRIAL LOCATION: ST JOSEPH, LA

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SEBEX Coffeebean	Sesbania exaltata
2.	ECHCG Barnyardgrass, common	Echinochloa crus-galli
3.	DIGSA Crabgrass, large	Digitaria sanguinalis

SITE AND DESIGN

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

SOIL DESCRIPTION

% Sand: 50 % OM: 0.5
% Silt: 28 pH: 6.8
% Clay: 22 CEC: 12.8
Texture: SILT LOAM

APPLICATION DESCRIPTION

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Application Date: 11/Jun/2008
Time of Day: 12:00 PM
Application Method: SPRAY
Application Timing: NONCROP
Applic. Placement: BROFOL
Air Temp., Unit: 85 F
% Relative Humidity: 66
Wind Velocity, Unit: 4.4 MPH
Dew Presence (Y/N): N
Water Hardness: N
Soil Temp., Unit: 89 F
Soil Moisture: DRY
% Cloud Cover: 60

WEED STAGE AT EACH APPLICATION

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Weed 1 Code, Stage: SEBEX 6-13"
Weed 2 Code, Stage: ECHCG 4-8"
Weed 3 Code, Stage: DIGSA 4-6"

APPLICATION EQUIPMENT

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

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			ECHCG	SEBEX	DIGSA	ECHCG	SEBEX	DIGSA
Rating Data Type			CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			%	%	%	%	%	%
Rating Date			21/Jun/2008	21/Jun/2008	21/Jun/2008	2/Jul/2008	2/Jul/2008	2/Jul/2008
Trt-Eval Interval			10 DA-A	10 DA-A	10 DA-A	21 DA-A	21 DA-A	21 DA-A
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
1 MON 76238	0.56 lb ae/a	A	85.00 a	40.00 a	95.00 a	82.50 a	38.75 de	95.00 a
2 MON 76237	0.56 lb ae/a	A	83.75 a	40.00 a	95.00 a	83.75 a	38.75 de	95.00 a
3 MON 79790	0.56 lb ae/a	A	81.25 a	37.50 a	95.00 a	82.50 a	47.50 abc	95.00 a
4 MON 76301	0.56 lb ae/a	A	85.00 a	40.00 a	92.50 a	78.75 a	43.75 a-e	95.00 a
5 MON 76410	0.56 lb ae/a	A	85.00 a	40.00 a	95.00 a	81.25 a	48.75 ab	95.00 a
6 MON 76186	0.56 lb ae/a	A	83.75 a	40.00 a	95.00 a	85.00 a	37.50 e	95.00 a
7 MON 76415	0.56 lb ae/a	A	80.00 a	40.00 a	95.00 a	78.75 a	38.75 de	95.00 a
8 MON 76238	0.75 lb ae/a	A	86.25 a	41.25 a	92.50 a	82.50 a	48.75 ab	95.00 a
9 MON 76237	0.75 lb ae/a	A	86.25 a	40.00 a	95.00 a	88.75 a	40.00 cde	95.00 a
10 MON 79790	0.75 lb ae/a	A	85.00 a	40.00 a	95.00 a	85.00 a	48.75 ab	95.00 a
11 MON 76301	0.75 lb ae/a	A	90.00 a	40.00 a	95.00 a	90.00 a	51.25 a	95.00 a
12 MON 76410	0.75 lb ae/a	A	81.25 a	40.00 a	95.00 a	83.75 a	46.25 a-d	95.00 a
13 MON 76186	0.75 lb ae/a	A	85.00 a	40.00 a	95.00 a	85.00 a	42.50 b-e	95.00 a
14 MON 76415	0.75 lb ae/a	A	86.25 a	40.00 a	95.00 a	88.75 a	42.50 b-e	95.00 a
15 MON 79616	0.75 lb ae/a	A	83.75 a	40.00 a	95.00 a	83.75 a	42.50 b-e	95.00 a
16 MON 79614	0.75 lb ae/a	A	83.75 a	41.25 a	92.50 a	86.25 a	41.25 b-e	95.00 a
NIS-LI 700	0.25 % v/v	A						
17 MON 79685	0.75 lb ae/a	A	80.00 a	37.50 a	95.00 a	82.50 a	37.50 e	95.00 a
LSD (P=.05)			6.455	2.606	2.981	7.636	8.641	0.000
Standard Deviation			4.517	1.823	2.086	5.344	6.047	0.000
CV			5.37	4.57	2.21	6.36	13.99	0.0
Grand Mean			84.19	39.85	94.56	84.04	43.24	95.0
Bartlett's X2			13.384	2.614	0.0	8.195	20.288	0.0
P(Bartlett's X2)			0.573	0.455	0.001*	0.916	0.208	.
Replicate F			0.643	2.802	1.239	1.730	1.207	0.000
Replicate Prob(F)			0.5914	0.0498	0.3058	0.1734	0.3175	1.0000
Treatment F			1.261	1.147	0.887	1.410	2.223	0.000
Treatment Prob(F)			0.2603	0.3423	0.5866	0.1775	0.0169	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.