

LSU Northeast Research Station

EVALUATION OF ENVOKE ALONE AND IN TANK MIXTURE FOR FALLOW BED WEED CONTROL AND CROP TOLERANCE IN COTTON AND SOYBEAN

Trial ID: Study Dir.:
 Location: Investigator: Donnie Miller

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. LAMAM	Henbit	Lamium amplexicaule
2. POAAN	Annual bluegrass	Poa annua
3. OEOLA	Eveningprimrose, cutleaf	Oenothera laciniata
4. COPSS	Swinecress	Coronopus sp.
5. IPOHG	Morningglory, entireleaf	Ipomoea hederacea integriuscul
6. VISCA	Viscum capitellatum	Viscum capitellatum
7. SORHA	Johnson grass	Sorghum halepense

Crop 1: COTTON & SOYBEAN Variety: DP164B2RF,DK4967RR
 Planting Date: 2/May/2007

SITE AND DESIGN

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

SOIL DESCRIPTION

% Sand: 8 % OM: 0.75 Texture: SILTY CLAY LOAM
 % Silt: 49 pH: 5.8
 % Clay: 43 CEC: 17.3

APPLICATION DESCRIPTION

A
 Application Date: 19/Dec/2006
 Time of Day: 2:35 PM
 Application Method: SPRAY
 Application Timing: PREPLA
 Applic. Placement: BROFOL
 Air Temp., Unit: 62 F
 % Relative Humidity: 92
 Wind Velocity, Unit: 4.2 MPH
 Dew Presence (Y/N): N
 Water Hardness:
 Soil Temp., Unit: 61 F
 Soil Moisture: MOIST
 % Cloud Cover: 100

APPLICATION EQUIPMENT

A
 Appl. Equipment: CO2 BCPCK
 Operating Pressure: 37 PSI
 Nozzle Type: DG
 Nozzle Size: 11002
 Nozzle Spacing, Unit: 20 IN
 Nozzles/Row: 2
 Band Width, Unit:
 Boom Length, Unit:
 Boom Height, Unit:
 Ground Speed, Unit: 3.2 MPH
 Incorporation Equip.:
 Hours to Incorp.:
 Incorp. Depth, Unit:

Carrier: WATER
Spray Volume, Unit: 15 GPA
Spray pH:
Propellant:
Tank Mix (Y/N):

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Trial ID: Study Dir.:
 Location: Investigator: Donnie Miller

Weed Code	LAMAM	POAAN	OEOLA	COPSS	LAMAM	POAAN	OEOLA	COPSS	LAMAM
Crop Code									
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%	%	%
Rating Date	19/Jan/2007	19/Jan/2007	19/Jan/2007	19/Jan/2007	6/Mar/2007	6/Mar/2007	6/Mar/2007	6/Mar/2007	20/Apr/2007
Assessed By									@ burndown
Trt-Eval Interval	31 DA-A	31 DA-A	31 DA-A	31 DA-A	77 DA-A	77 DA-A	77 DA-A	77 DA-A	122 DA-A
ARM Action Codes									
# Subsamples, Dec.									

Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7	8	9
1	ENVOKE NIS	0.0504 oz wt/a		72.50 d	68.75 e	85.00 c	95.00 cd	61.25 e	65.00 bcd	98.75 a	100.00 a	100.00 a
		0.25 % v/v										
2	ENVOKE NIS	0.075 oz wt/a		83.75 bc	76.25 b-e	92.50 ab	93.75 d	77.50 bcd	73.75 bc	100.00 a	100.00 a	97.50 a
		0.25 % v/v										
3	ENVOKE NIS	0.101 oz wt/a		86.25 bc	72.50 cde	88.75 bc	95.00 cd	88.75 ab	76.25 b	100.00 a	100.00 a	100.00 a
		0.25 % v/v										
4	VALOR NIS	2 oz wt/a		97.50 a	70.00 e	97.50 a	97.50 ab	100.00 a	72.50 bc	100.00 a	100.00 a	82.50 bc
		0.25 % v/v										
5	ENVOKE GRAMAXONE INTEON NIS	0.0504 oz wt/a		83.75 bc	95.00 ab	92.50 ab	95.00 cd	66.25 de	93.75 a	96.25 b	100.00 a	98.75 a
		40 fl oz/a										
		0.25 % v/v										
6	ENVOKE GRAMAXONE INTEON NIS	0.075 oz wt/a		85.00 bc	90.00 a-d	93.75 ab	95.00 cd	76.25 cd	96.25 a	98.75 a	100.00 a	96.25 a
		40 fl oz/a										
		0.25 % v/v										
7	ENVOKE GRAMAXONE INTEON NIS	0.101 oz wt/a		92.50 ab	91.25 abc	96.25 a	96.25 bc	85.00 bc	95.00 a	100.00 a	100.00 a	100.00 a
		40 fl oz/a										
		0.25 % v/v										
8	VALOR GRAMAXONE INTEON NIS	2 oz wt/a		98.75 a	96.25 a	98.75 a	98.75 a	100.00 a	98.75 a	100.00 a	100.00 a	72.50 c
		40 fl oz/a										
		0.25 % v/v										
9	ENVOKE CLARITY NIS	0.0504 oz wt/a		72.50 d	65.00 e	92.50 ab	95.00 cd	60.00 e	61.25 cd	100.00 a	100.00 a	96.25 a
		8 fl oz/a										
		0.25 % v/v										
10	ENVOKE CLARITY NIS	0.075 oz wt/a		86.25 bc	71.25 de	92.50 ab	95.00 cd	82.50 bc	75.00 bc	100.00 a	100.00 a	93.75 ab
		8 fl oz/a										
		0.25 % v/v										
11	ENVOKE CLARITY NIS	0.101 oz wt/a		83.75 bc	66.25 e	88.75 bc	95.00 cd	88.75 ab	73.75 bc	100.00 a	100.00 a	100.00 a
		8 fl oz/a										
		0.25 % v/v										
12	VALOR CLARITY NIS	2 oz wt/a		97.50 a	30.00 f	97.50 a	97.50 ab	100.00 a	45.00 e	100.00 a	100.00 a	81.25 bc
		8 fl oz/a										
		0.25 % v/v										
13	ENVOKE SALVO NIS	0.0504 oz wt/a		76.25 cd	66.25 e	93.75 ab	95.00 cd	66.25 de	51.25 de	100.00 a	100.00 a	98.75 a
		13 fl oz/a										
		0.25 % v/v										
14	ENVOKE SALVO NIS	0.075 oz wt/a		85.00 bc	80.00 a-e	92.50 ab	95.00 cd	78.75 bc	72.50 bc	100.00 a	100.00 a	97.50 a
		13 fl oz/a										
		0.25 % v/v										
15	ENVOKE SALVO NIS	0.101 oz wt/a		82.50 bcd	63.75 e	88.75 bc	95.00 cd	75.00 cd	68.75 bc	100.00 a	100.00 a	97.50 a
		13 fl oz/a										
		0.25 % v/v										
16	VALOR SALVO NIS	2 oz wt/a		92.50 ab	71.25 de	96.25 a	96.25 bc	98.75 a	66.25 bc	100.00 a	100.00 a	80.00 c
		13 fl oz/a										
		0.25 % v/v										
17	NONTREATED			0.00 e	2.53 g	1.20 d	0.21 e	0.00 f	2.19 f	0.13 c	0.00 b	0.00 d

LSD (P=.05)	10.633	19.430	7.357	2.185	12.144	14.680	2.044	0.000	13.294
Standard Deviation	7.441	13.596	5.148	1.529	8.498	10.273	1.430	0.000	9.302
CV	9.19	19.65	5.88	1.7	11.07	14.71	1.53	0.0	10.6
Grand Mean	80.96	69.19	87.57	90.01	76.76	69.83	93.76	94.12	87.79
Bartlett's X2	18.973	20.399	34.41	0.164	21.231	19.539	1.795	0.0	29.471
P(Bartlett's X2)	0.215	0.118	0.003*	0.999	0.047*	0.19	0.408	.	0.002*
Replicate F	6.647	4.386	5.618	2.239	6.720	3.427	1.678	0.000	3.597
Replicate Prob(F)	0.0008	0.0084	0.0022	0.0960	0.0007	0.0245	0.1845	1.0000	0.0200
Treatment F	35.961	11.562	76.806	919.428	31.623	20.139	1139.957	0.000	27.071
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

AOV Means Table Page 5 of 12

LSU Northeast Research Station

Weed Code	POAAN	OEOLA	IPOHG	COPSS	VICSA	SORHA	GOSHI	GLXMA
Crop Code								
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	INJURY
Rating Unit	%	%	%	%	%	%	%	%
Rating Date	20/Apr/2007	20/Apr/2007	20/Apr/2007	20/Apr/2007	20/Apr/2007	20/Apr/2007	9/May/2007	9/May/2007
Assessed By	@ burndown	@ burndown	@ burndown	@ burndown	@ burndown	@ burndown		
Trt-Eval Interval	122 DA-A	122 DA-A	122 DA-A	122 DA-A	122 DA-A	122 DA-A	7 DAP	7 DAP
ARM Action Codes								
# Subsamples, Dec.								

No.	Name	Rate	Unit	10	11	12	13	14	15	16	17
1	ENVOKE	0.0504	oz wt/a	65.00 bc	51.25 d	97.50 ab	88.75 abc	92.50 ab	100.00 a	15.00 a	0.00 a
	NIS	0.25	% v/v								
2	ENVOKE	0.075	oz wt/a	65.00 bc	62.50 cd	98.75 ab	88.75 abc	83.75 ab	92.50 ab	6.25 a	0.00 a
	NIS	0.25	% v/v								
3	ENVOKE	0.101	oz wt/a	67.50 bc	62.50 cd	98.75 ab	93.75 ab	85.00 ab	96.25 ab	12.50 a	0.00 a
	NIS	0.25	% v/v								
4	VALOR	2	oz wt/a	76.25 b	87.50 ab	100.00 a	91.25 abc	70.00 b	91.25 ab	13.75 a	0.00 a
	NIS	0.25	% v/v								
5	ENVOKE	0.0504	oz wt/a	100.00 a	68.75 bcd	100.00 a	85.00 a-d	83.75 ab	96.25 ab	5.00 a	0.00 a
	GRAMAXONE INTEON	40	fl oz/a								
	NIS	0.25	% v/v								
6	ENVOKE	0.075	oz wt/a	100.00 a	68.75 bcd	100.00 a	78.75 cde	80.00 ab	100.00 a	11.25 a	0.00 a
	GRAMAXONE INTEON	40	fl oz/a								
	NIS	0.25	% v/v								
7	ENVOKE	0.101	oz wt/a	97.50 a	68.75 bcd	100.00 a	71.25 de	87.50 ab	92.50 ab	8.75 a	0.00 a
	GRAMAXONE INTEON	40	fl oz/a								
	NIS	0.25	% v/v								
8	VALOR	2	oz wt/a	98.75 a	93.75 a	97.50 ab	80.00 bcd	100.00 a	90.00 ab	21.25 a	0.00 a
	GRAMAXONE INTEON	40	fl oz/a								
	NIS	0.25	% v/v								
9	ENVOKE	0.0504	oz wt/a	66.25 bc	66.25 bcd	98.75 ab	87.50 abc	100.00 a	95.00 ab	2.50 a	0.00 a
	CLARITY	8	fl oz/a								
	NIS	0.25	% v/v								
10	ENVOKE	0.075	oz wt/a	58.75 bcd	67.50 bcd	100.00 a	98.75 a	96.25 a	86.25 b	2.50 a	0.00 a
	CLARITY	8	fl oz/a								
	NIS	0.25	% v/v								
11	ENVOKE	0.101	oz wt/a	67.50 bc	83.75 abc	97.50 ab	95.00 a	92.50 ab	91.25 ab	3.75 a	0.00 a
	CLARITY	8	fl oz/a								
	NIS	0.25	% v/v								
12	VALOR	2	oz wt/a	41.25 d	83.75 abc	97.50 ab	65.00 e	98.75 a	95.00 ab	6.25 a	0.00 a
	CLARITY	8	fl oz/a								
	NIS	0.25	% v/v								
13	ENVOKE	0.0504	oz wt/a	50.00 cd	67.50 bcd	100.00 a	88.75 abc	85.00 ab	92.50 ab	3.75 a	0.00 a

9 ENVOKE CLARITY NIS	0.0504 oz wt/a 8 fl oz/a 0.25 % v/v	4.75 a	5.25 a	5.00 a	5.25 a	5.00 a	5.05 a	6.00 a	6.88 a
10 ENVOKE CLARITY NIS	0.075 oz wt/a 8 fl oz/a 0.25 % v/v	4.25 a	5.25 a	5.63 a	4.75 a	3.75 a	4.73 a	6.75 a	6.50 a
11 ENVOKE CLARITY NIS	0.101 oz wt/a 8 fl oz/a 0.25 % v/v	4.50 a	4.38 a	4.75 a	4.75 a	4.75 a	4.63 a	6.00 a	5.63 a
12 VALOR CLARITY NIS	2 oz wt/a 8 fl oz/a 0.25 % v/v	5.00 a	5.00 a	5.00 a	4.75 a	5.38 a	5.03 a	5.25 a	5.50 a
13 ENVOKE SALVO NIS	0.0504 oz wt/a 13 fl oz/a 0.25 % v/v	5.50 a	4.75 a	5.50 a	5.88 a	4.75 a	5.28 a	6.88 a	5.88 a
14 ENVOKE SALVO NIS	0.075 oz wt/a 13 fl oz/a 0.25 % v/v	5.13 a	5.25 a	5.50 a	5.00 a	4.63 a	5.10 a	5.00 a	5.25 a
15 ENVOKE SALVO NIS	0.101 oz wt/a 13 fl oz/a 0.25 % v/v	4.75 a	4.50 a	5.00 a	4.63 a	4.88 a	4.75 a	5.63 a	5.13 a
16 VALOR SALVO NIS	2 oz wt/a 13 fl oz/a 0.25 % v/v	5.25 a	5.38 a	5.50 a	4.88 a	4.63 a	5.13 a	5.13 a	5.75 a
17 NONTREATED		5.54 a	5.52 a	5.78 a	5.69 a	4.64 a	5.43 a	7.58 a	7.16 a
LSD (P=.05)		1.399	1.405	1.183	1.117	1.169	0.792	1.726	1.649
Standard Deviation		0.979	0.983	0.828	0.781	0.818	0.554	1.207	1.154
CV		19.98	19.86	16.12	15.62	16.63	11.13	20.93	20.29
Grand Mean		4.9	4.95	5.13	5.0	4.92	4.98	5.77	5.69
Bartlett's X2		25.726	18.074	12.742	24.838	12.29	17.816	16.632	24.24
P(Bartlett's X2)		0.058	0.32	0.622	0.073	0.724	0.335	0.41	0.084
Replicate F		1.603	2.143	0.360	2.878	0.925	2.893	0.452	2.119
Replicate Prob(F)		0.2013	0.1074	0.7823	0.0458	0.4362	0.0451	0.7173	0.1104
Treatment F		0.960	0.515	0.772	0.982	1.305	0.816	1.851	1.273
Treatment Prob(F)		0.5124	0.9260	0.7071	0.4909	0.2342	0.6619	0.0520	0.2533

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

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

LSU Northeast Research Station

Weed Code											
Crop Code		GOSHI	GOSHI	GOSHI	GOSHI	GLXMA	GOSHI	GLXMA	GLXMA		
Rating Data Type		CROP HT	CROP HT	CROP HT	AVG CROP HT	INJURY	INJURY	CROP HT	CROP HT		
Rating Unit		CM	CM	CM	CM	%	%	CM	CM		
Rating Date		17/May/2007	17/May/2007	17/May/2007	17/May/2007	18/May/2007	18/May/2007	30/May/2007	30/May/2007		
Assessed By											
Trt-Eval Interval		15 DAP	15 DAP	15 DAP	15 DAP	15 DAP	15 DAP	28 DAP	28 DAP		
ARM Action Codes					T2						
# Subsamples, Dec.											
Trt Treatment	Rate	Unit									
No.	Name	Rate	Unit	26	27	28	29	30	31	32	33
1	ENVOKE NIS	0.0504 oz wt/a 0.25 % v/v		4.38 a	5.00 a	5.25 a	4.83 d	0.00 a	3.75 a	10.25 a	9.25 b-e
2	ENVOKE NIS	0.075 oz wt/a 0.25 % v/v		5.25 a	5.25 a	6.00 a	5.68 bcd	0.00 a	5.00 a	8.50 a	9.00 cde
3	ENVOKE NIS	0.101 oz wt/a 0.25 % v/v		5.50 a	5.00 a	5.25 a	5.28 bcd	0.00 a	7.50 a	10.00 a	7.25 e
4	VALOR	2 oz wt/a		5.25 a	6.25 a	5.63 a	5.58 bcd	0.00 a	2.50 a	10.25 a	10.75 a-e

NIS	0.25 % v/v								
5 ENVOKE	0.0504 oz wt/a	5.88 a	6.00 a	5.25 a	5.55 bcd	0.00 a	2.50 a	8.50 a	7.25 e
GRAMAXONE INTEON	40 fl oz/a								
NIS	0.25 % v/v								
6 ENVOKE	0.075 oz wt/a	5.38 a	6.13 a	5.25 a	5.75 bcd	0.00 a	5.00 a	9.50 a	8.00 de
GRAMAXONE INTEON	40 fl oz/a								
NIS	0.25 % v/v								
7 ENVOKE	0.101 oz wt/a	4.63 a	5.38 a	4.38 a	5.05 cd	0.00 a	6.25 a	12.25 a	8.75 de
GRAMAXONE INTEON	40 fl oz/a								
NIS	0.25 % v/v								
8 VALOR	2 oz wt/a	5.38 a	5.00 a	5.38 a	5.28 bcd	0.00 a	6.25 a	8.75 a	11.75 a-d
GRAMAXONE INTEON	40 fl oz/a								
NIS	0.25 % v/v								
9 ENVOKE	0.0504 oz wt/a	6.13 a	6.50 a	6.00 a	6.30 ab	0.00 a	2.50 a	11.25 a	12.75 abc
CLARITY	8 fl oz/a								
NIS	0.25 % v/v								
10 ENVOKE	0.075 oz wt/a	6.00 a	5.75 a	5.00 a	6.00 bc	0.00 a	1.25 a	12.00 a	10.50 b-e
CLARITY	8 fl oz/a								
NIS	0.25 % v/v								
11 ENVOKE	0.101 oz wt/a	6.38 a	5.88 a	5.63 a	5.90 bc	0.00 a	1.25 a	12.50 a	10.00 b-e
CLARITY	8 fl oz/a								
NIS	0.25 % v/v								
12 VALOR	2 oz wt/a	5.38 a	5.88 a	6.63 a	5.73 bcd	0.00 a	3.75 a	9.50 a	9.75 b-e
CLARITY	8 fl oz/a								
NIS	0.25 % v/v								
13 ENVOKE	0.0504 oz wt/a	5.63 a	6.13 a	5.88 a	6.08 bc	0.00 a	2.50 a	11.75 a	9.00 cde
SALVO	13 fl oz/a								
NIS	0.25 % v/v								
14 ENVOKE	0.075 oz wt/a	5.75 a	5.63 a	6.50 a	5.63 bcd	0.00 a	0.00 a	12.00 a	14.50 a
SALVO	13 fl oz/a								
NIS	0.25 % v/v								
15 ENVOKE	0.101 oz wt/a	6.13 a	5.75 a	5.38 a	5.60 bcd	0.00 a	3.75 a	9.75 a	10.50 b-e
SALVO	13 fl oz/a								
NIS	0.25 % v/v								
16 VALOR	2 oz wt/a	5.25 a	6.63 a	5.63 a	5.68 bcd	0.00 a	5.00 a	13.50 a	13.00 ab
SALVO	13 fl oz/a								
NIS	0.25 % v/v								
17 NONTREATED		7.43 a	6.18 a	7.51 a	7.17 a	0.00 a	0.44 a	10.75 a	10.25 b-e
LSD (P=.05)		1.668	1.548	1.686	1.025	0.000	4.578	4.344	3.830
Standard Deviation		1.167	1.083	1.180	0.717	0.000	3.204	3.040	2.680
CV		20.74	18.73	20.78	12.56	0.0	92.0	28.55	26.45
Grand Mean		5.63	5.78	5.68	5.71	0.0	3.48	10.65	10.13
Bartlett's X2		11.634	8.697	10.155	20.259	0.0	7.339	16.105	19.468
P(Bartlett's X2)		0.706	0.893	0.858	0.209	.	0.884	0.446	0.245
Replicate F		2.427	1.882	1.209	2.909	0.000	2.477	0.233	1.345
Replicate Prob(F)		0.0772	0.1455	0.3167	0.0442	1.0000	0.0728	0.8726	0.2708
Treatment F		1.420	0.899	1.484	2.142	0.000	1.797	0.984	2.228
Treatment Prob(F)		0.1738	0.5745	0.1465	0.0220	1.0000	0.0607	0.4880	0.0167

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

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

Column 29: T2 = @AVG([24].[28])

LSU Northeast Research Station

Weed Code		GLXMA	GLXMA	GLXMA	GLXMA	GOSHI	GOSHI	GOSHI	GOSHI
Crop Code		CROP HT	CROP HT	CROP HT	AVG CROP HT	CROP HT	CROP HT	CROP HT	CROP HT
Rating Data Type		CM	CM	CM	CM	CM	CM	CM	CM
Rating Unit		CM	CM	CM	CM	CM	CM	CM	CM
Rating Date		30/May/2007	30/May/2007	30/May/2007	30/May/2007	30/May/2007	30/May/2007	30/May/2007	30/May/2007
Assessed By		28 DAP	28 DAP	28 DAP	28 DAP	28 DAP	28 DAP	28 DAP	28 DAP
Trt-Eval Interval		28 DAP	28 DAP	28 DAP	28 DAP	28 DAP	28 DAP	28 DAP	28 DAP
ARM Action Codes					T3				
# Subsamples, Dec.									
Trt Treatment									
No. Name	Rate	34	35	36	37	38	39	40	41
1 ENVOKE	0.0504 oz wt/a	9.25 a	11.50 a	7.25 a	9.50 a	9.00 a	7.75 a	7.25 a	7.50 a
NIS	0.25 % v/v								
2 ENVOKE	0.075 oz wt/a	11.50 a	9.75 a	8.25 a	9.40 a	11.00 a	7.50 a	9.75 a	9.00 a
NIS	0.25 % v/v								
3 ENVOKE	0.101 oz wt/a	9.25 a	10.00 a	7.25 a	8.75 a	8.25 a	12.00 a	9.50 a	10.00 a
NIS	0.25 % v/v								
4 VALOR	2 oz wt/a	9.50 a	11.00 a	10.25 a	10.35 a	9.00 a	8.00 a	8.25 a	8.00 a
NIS	0.25 % v/v								
5 ENVOKE	0.0504 oz wt/a	9.25 a	9.00 a	8.50 a	8.50 a	7.00 a	11.50 a	11.25 a	11.75 a
GRAMAXONE INTEON	40 fl oz/a								
NIS	0.25 % v/v								
6 ENVOKE	0.075 oz wt/a	9.75 a	10.00 a	9.25 a	9.30 a	10.75 a	12.00 a	10.75 a	11.25 a
GRAMAXONE INTEON	40 fl oz/a								
NIS	0.25 % v/v								
7 ENVOKE	0.101 oz wt/a	9.00 a	8.50 a	8.50 a	9.40 a	11.00 a	8.00 a	11.75 a	9.75 a
GRAMAXONE INTEON	40 fl oz/a								
NIS	0.25 % v/v								
8 VALOR	2 oz wt/a	8.00 a	10.25 a	10.25 a	9.80 a	11.75 a	10.00 a	11.50 a	12.00 a
GRAMAXONE INTEON	40 fl oz/a								
NIS	0.25 % v/v								
9 ENVOKE	0.0504 oz wt/a	10.75 a	10.75 a	9.50 a	11.00 a	12.00 a	11.50 a	11.50 a	12.25 a
CLARITY	8 fl oz/a								
NIS	0.25 % v/v								
10 ENVOKE	0.075 oz wt/a	12.75 a	11.50 a	10.25 a	11.40 a	10.25 a	13.25 a	14.00 a	8.50 a
CLARITY	8 fl oz/a								
NIS	0.25 % v/v								
11 ENVOKE	0.101 oz wt/a	11.25 a	12.50 a	11.00 a	11.45 a	11.50 a	11.25 a	12.50 a	11.50 a
CLARITY	8 fl oz/a								
NIS	0.25 % v/v								
12 VALOR	2 oz wt/a	12.25 a	10.50 a	12.00 a	10.80 a	10.00 a	12.75 a	12.25 a	10.25 a
CLARITY	8 fl oz/a								
NIS	0.25 % v/v								
13 ENVOKE	0.0504 oz wt/a	12.75 a	10.25 a	10.00 a	10.75 a	9.50 a	8.75 a	8.50 a	11.25 a
SALVO	13 fl oz/a								
NIS	0.25 % v/v								
14 ENVOKE	0.075 oz wt/a	11.25 a	12.50 a	14.25 a	12.90 a	13.00 a	12.75 a	12.75 a	13.75 a
SALVO	13 fl oz/a								
NIS	0.25 % v/v								
15 ENVOKE	0.101 oz wt/a	9.25 a	12.25 a	12.00 a	10.75 a	10.75 a	10.00 a	13.50 a	13.00 a
SALVO	13 fl oz/a								
NIS	0.25 % v/v								
16 VALOR	2 oz wt/a	13.50 a	12.00 a	12.25 a	12.85 a	11.25 a	13.50 a	13.25 a	10.00 a
SALVO	13 fl oz/a								
NIS	0.25 % v/v								
17 NONTREATED		9.00 a	12.25 a	11.00 a	10.65 a	12.00 a	10.25 a	10.00 a	12.00 a
LSD (P=.05)		3.648	4.322	5.633	2.881	5.261	5.614	5.253	5.037
Standard Deviation		2.553	3.024	3.942	2.016	3.681	3.929	3.676	3.525
CV		24.35	27.87	39.02	19.3	35.16	36.95	33.19	32.97

Grand Mean	10.49	10.85	10.1	10.44	10.47	10.63	11.07	10.69
Bartlett's X2	18.157	19.266	18.763	13.485	8.122	21.716	20.461	15.827
P(Bartlett's X2)	0.315	0.255	0.281	0.637	0.945	0.153	0.20	0.465
Replicate F	0.941	0.418	0.041	0.297	0.738	0.570	3.116	0.692
Replicate Prob(F)	0.4283	0.7409	0.9887	0.8275	0.5346	0.6374	0.0347	0.5612
Treatment F	1.647	0.656	0.911	1.591	0.694	1.071	1.128	1.007
Treatment Prob(F)	0.0924	0.8205	0.5618	0.1081	0.7856	0.4065	0.3578	0.4657

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

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

Column 37: T3 = @AVG([32].[36])

LSU Northeast Research Station

Weed Code									
Crop Code		GOSHI		GOSHI		GOSHI		GLXMA	
Rating Data Type		CROP HT	AVG CROP HT	INJURY	INJURY	AVG CROP HT	AVG CROP HT	YIELD	
Rating Unit		CM	CM	%	%	CM	CM	LB	
Rating Date		30/May/2007	30/May/2007	30/May/2007	30/May/2007	27/Jun/2007	27/Jun/2007	17/Sep/2007	
Assessed By									
Trt-Eval Interval		28 DAP	28 DAP	28 DAP	28 DAP	56 DAP	56 DAP	272 DA-A	
ARM Action Codes									
# Subsamples, Dec.									
Trt	Treatment	Rate							
No.	Name	Rate Unit	42	43	44	45	46	47	48
1	ENVOKE	0.0504 oz wt/a	7.50 a	7.80 a	0.00 a	0.00 a	21.85 e	24.55 ef	1.97 a
	NIS	0.25 % v/v							
2	ENVOKE	0.075 oz wt/a	5.75 a	8.60 a	0.00 a	0.00 a	27.40 cde	26.05 ef	4.55 a
	NIS	0.25 % v/v							
3	ENVOKE	0.101 oz wt/a	10.00 a	9.95 a	0.00 a	0.00 a	32.90 b-e	30.40 c-f	1.80 a
	NIS	0.25 % v/v							
4	VALOR	2 oz wt/a	9.25 a	8.50 a	0.00 a	0.00 a	24.50 de	20.10 f	2.87 a
	NIS	0.25 % v/v							
5	ENVOKE	0.0504 oz wt/a	10.00 a	10.30 a	0.00 a	0.00 a	31.70 cde	27.75 def	2.40 a
	GRAMAXONE INTEON	40 fl oz/a							
	NIS	0.25 % v/v							
6	ENVOKE	0.075 oz wt/a	6.50 a	10.25 a	0.00 a	0.00 a	30.95 cde	32.05 b-f	3.30 a
	GRAMAXONE INTEON	40 fl oz/a							
	NIS	0.25 % v/v							
7	ENVOKE	0.101 oz wt/a	9.75 a	10.05 a	0.00 a	0.00 a	39.60 abc	45.40 abc	2.85 a
	GRAMAXONE INTEON	40 fl oz/a							
	NIS	0.25 % v/v							
8	VALOR	2 oz wt/a	10.00 a	11.05 a	0.00 a	0.00 a	34.10 b-e	36.55 a-f	2.95 a
	GRAMAXONE INTEON	40 fl oz/a							
	NIS	0.25 % v/v							
9	ENVOKE	0.0504 oz wt/a	11.75 a	11.80 a	0.00 a	0.00 a	41.70 abc	42.13 a-e	3.10 a
	CLARITY	8 fl oz/a							
	NIS	0.25 % v/v							
10	ENVOKE	0.075 oz wt/a	12.00 a	11.60 a	0.00 a	0.00 a	47.20 ab	44.85 a-d	2.83 a
	CLARITY	8 fl oz/a							
	NIS	0.25 % v/v							
11	ENVOKE	0.101 oz wt/a	12.25 a	11.80 a	0.00 a	0.00 a	38.70 a-d	41.85 a-e	3.95 a
	CLARITY	8 fl oz/a							
	NIS	0.25 % v/v							
12	VALOR	2 oz wt/a	10.25 a	11.10 a	0.00 a	0.00 a	51.40 a	52.35 a	4.08 a
	CLARITY	8 fl oz/a							
	NIS	0.25 % v/v							
13	ENVOKE	0.0504 oz wt/a	9.50 a	9.50 a	0.00 a	0.00 a	38.30 a-d	41.95 a-e	3.43 a

SALVO	13 fl oz/a							
NIS	0.25 % v/v							
14 ENVOKE	0.075 oz wt/a	11.00 a	12.65 a	0.00 a	0.00 a	40.90 abc	47.75 abc	3.50 a
SALVO	13 fl oz/a							
NIS	0.25 % v/v							
15 ENVOKE	0.101 oz wt/a	11.25 a	11.70 a	0.00 a	0.00 a	36.25 b-e	47.80 abc	3.15 a
SALVO	13 fl oz/a							
NIS	0.25 % v/v							
16 VALOR	2 oz wt/a	13.00 a	12.20 a	0.00 a	0.00 a	46.50 ab	49.10 ab	4.05 a
SALVO	13 fl oz/a							
NIS	0.25 % v/v							
17 NONTREATED		6.25 a	10.10 a	0.00 a	0.00 a	40.70 abc	35.60 a-f	2.70 a
LSD (P=.05)		4.858	3.569	0.000	0.000	14.752	17.604	1.758
Standard Deviation		3.400	2.497	0.000	0.000	10.323	12.319	1.217
CV		34.82	23.72	0.0	0.0	28.09	32.41	38.71
Grand Mean		9.76	10.53	0.0	0.0	36.74	38.01	3.14
Bartlett's X2		24.809	13.872	0.0	0.0	16.501	21.02	12.337
P(Bartlett's X2)		0.073	0.608	.	.	0.419	0.178	0.579
Replicate F		1.910	0.791	0.000	0.000	3.497	1.439	0.358
Replicate Prob(F)		0.1405	0.5051	1.0000	1.0000	0.0224	0.2430	0.7838
Treatment F		1.607	1.237	0.000	0.000	2.419	2.503	1.483
Treatment Prob(F)		0.1033	0.2763	1.0000	1.0000	0.0094	0.0073	0.1633

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

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

Column 43: T4 = @AVG([38].[42])

LSU Northeast Research Station

Weed Code		GLXMA	GLXMA	GOSHI	GOSHI	GOSHI	
Crop Code		MOISTURE	YIELD	YIELDw/bag	YIELDw/obag	YIELD	
Rating Data Type		%	BU/A	LB	LB	LB/A	
Rating Unit							
Rating Date		17/Sep/2007	17/Sep/2007	7/Nov/2007	7/Nov/2007	7/Nov/2007	
Assessed By			1 ROW		BAG=0.4LB	1 ROW	
Trt-Eval Interval		272 DA-A	272 DA-A	323 DA-A	323 DA-A	323 DA-A	
ARM Action Codes			TY5		T6	TY7	
# Subsamples, Dec.			1			1	
Trt Treatment							
No. Name	Rate	Rate	49	50	51	52	53
	Unit	Unit					
1 ENVOKE	0.0504 oz wt/a		17.93 a	16.2 a	4.68 a	4.28 a	2236.9 a
NIS	0.25 % v/v						
2 ENVOKE	0.075 oz wt/a		24.45 a	35.0 a	6.60 a	6.20 a	3244.1 a
NIS	0.25 % v/v						
3 ENVOKE	0.101 oz wt/a		18.60 a	14.5 a	7.05 a	6.65 a	3479.6 a
NIS	0.25 % v/v						
4 VALOR	2 oz wt/a		45.37 a	15.8 a	5.65 a	5.25 a	2747.0 a
NIS	0.25 % v/v						
5 ENVOKE	0.0504 oz wt/a		13.90 a	20.7 a	8.20 a	7.80 a	4081.3 a
GRAMAXONE INTEON	40 fl oz/a						
NIS	0.25 % v/v						
6 ENVOKE	0.075 oz wt/a		35.33 a	22.2 a	7.20 a	6.80 a	3558.1 a
GRAMAXONE INTEON	40 fl oz/a						
NIS	0.25 % v/v						
7 ENVOKE	0.101 oz wt/a		32.45 a	18.8 a	7.58 a	7.18 a	3754.3 a
GRAMAXONE INTEON	40 fl oz/a						
NIS	0.25 % v/v						

8 VALOR GRAMAXONE INTEON NIS	2 oz wt/a 40 fl oz/a 0.25 % v/v	26.93 a	22.1 a	5.30 a	4.90 a	2563.9 a
9 ENVOKE CLARITY NIS	0.0504 oz wt/a 8 fl oz/a 0.25 % v/v	31.67 a	20.0 a	8.75 a	8.35 a	4369.1 a
10 ENVOKE CLARITY NIS	0.075 oz wt/a 8 fl oz/a 0.25 % v/v	23.70 a	21.4 a	8.43 a	8.03 a	4199.0 a
11 ENVOKE CLARITY NIS	0.101 oz wt/a 8 fl oz/a 0.25 % v/v	25.30 a	29.9 a	7.08 a	6.68 a	3492.6 a
12 VALOR CLARITY NIS	2 oz wt/a 8 fl oz/a 0.25 % v/v	39.18 a	24.2 a	6.55 a	6.15 a	3217.9 a
13 ENVOKE SALVO NIS	0.0504 oz wt/a 13 fl oz/a 0.25 % v/v	33.00 a	24.0 a	7.93 a	7.53 a	3937.4 a
14 ENVOKE SALVO NIS	0.075 oz wt/a 13 fl oz/a 0.25 % v/v	28.43 a	26.1 a	6.60 a	6.20 a	3244.1 a
15 ENVOKE SALVO NIS	0.101 oz wt/a 13 fl oz/a 0.25 % v/v	36.73 a	19.9 a	8.97 a	8.57 a	4484.6 a
16 VALOR SALVO NIS	2 oz wt/a 13 fl oz/a 0.25 % v/v	40.75 a	24.7 a	6.63 a	6.23 a	3257.2 a
17 NONTREATED		28.70 a	19.3 a	7.40 a	7.00 a	3662.7 a
LSD (P=.05)		24.966	15.78	2.746	2.746	1436.79
Standard Deviation		17.291	10.93	1.921	1.921	1005.41
CV		58.51	49.58	27.09	28.71	28.71
Grand Mean		29.55	22.05	7.09	6.69	3501.75
Bartlett's X2		22.183	6.55	13.935	13.935	13.935
P(Bartlett's X2)		0.075	0.951	0.604	0.604	0.604
Replicate F		0.552	0.208	1.528	1.529	1.528
Replicate Prob(F)		0.6506	0.8901	0.2195	0.2194	0.2195
Treatment F		0.974	0.880	1.520	1.520	1.520
Treatment Prob(F)		0.5035	0.5956	0.1327	0.1326	0.1327

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

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

Column 50: TY5 = 8.720721*[48]*(100-@MVAVGREP([49]))/87