

LSU Northeast Research Station

COMPARE THE EFFICACY OF GRAMAXONE INTEON AND COMPETITIVE STANDARDS AS A FALL BURNDOWN APPLIED ALONE AND IN TANK MIXES

GENERAL TRIAL INFORMATION

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

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
% Silt: 49 pH: 5.8
% Clay: 43 CEC: 17.3
Texture: SILTY CLAY LOAM

APPLICATION DESCRIPTION

A
Application Date: 15/Nov/2007
Time of Day: 9:30 AM
Application Method: SPRAY
Application Timing: FALPRE
Applic. Placement: BROSOI
Air Temp., Unit: 55 F
% Relative Humidity: 32
Wind Velocity, Unit: 7 MPH
Dew Presence (Y/N): N
Water Hardness: N
Soil Temp., Unit: 63 F
Soil Moisture: MOIST
% Cloud Cover: 0

APPLICATION EQUIPMENT

A
Appl. Equipment: CO2 BCPCK
Operating Pressure: 36 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

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Weed Code		POAAN	LAMAM	COPSS	OEOLA	POAAN	LAMAM	COPSS	OEOLA	CAPBP	POAAN	
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit		%	%	%	%	%	%	%	%	%	%	
Rating Date		13/Dec/2007	13/Dec/2007	13/Dec/2007	13/Dec/2007	10/Mar/2008	10/Mar/2008	10/Mar/2008	10/Mar/2008	10/Mar/2008	1/Apr/2008	
Trt-Eval Interval		28 DA-A	28 DA-A	28 DA-A	28 DA-A	116 DA-A	116 DA-A	116 DA-A	116 DA-A	116 DA-A	138 DA-A	
Trt Treatment	Rate											
No. Name	Unit	Appl										
		Code	1	2	3	4	5	6	7	8	9	10
1 CHECK			0.00 b	0.00 b	0.00 b	0.00 b	0.00 g	0.00 e	0.00 f	0.00 b	0.00 d	0.00 e
2 GRAMOXONE INTEON NIS	A	A	100.00 a	100.00 a	100.00 a	100.00 a	30.00 ef	47.50 c	53.75 e	100.00 a	58.75 c	51.25 d
3 CLARITY NIS	A	A	100.00 a	100.00 a	100.00 a	100.00 a	22.50 f	41.25 cd	56.25 e	100.00 a	70.00 bc	66.25 bc
4 CLARITY GRAMOXONE INTEON NIS	A	A	100.00 a	100.00 a	100.00 a	100.00 a	30.00 ef	46.25 cd	55.00 e	100.00 a	68.75 bc	61.25 bcd
5 BARRAGE NIS	A	A	100.00 a	100.00 a	100.00 a	100.00 a	41.25 de	41.25 cd	52.50 e	100.00 a	76.25 abc	55.00 bcd
6 BARRAGE GRAMOXONE INTEON NIS	A	A	100.00 a	100.00 a	100.00 a	100.00 a	31.25 ef	33.75 d	50.00 e	100.00 a	83.75 ab	65.00 bcd
7 ENVOKE NIS	A	A	100.00 a	100.00 a	100.00 a	100.00 a	81.25 ab	71.25 b	63.75 de	100.00 a	83.75 ab	87.50 a
8 ENVOKE GRAMOXONE INTEON NIS	A	A	100.00 a	100.00 a	100.00 a	100.00 a	70.00 b	68.75 b	50.00 e	100.00 a	80.00 abc	83.75 a
9 ENVOKE NIS	A	A	100.00 a	100.00 a	100.00 a	100.00 a	87.50 a	72.50 b	77.50 cd	100.00 a	75.00 abc	83.75 a
10 ENVOKE GRAMOXONE INTEON NIS	A	A	100.00 a	100.00 a	100.00 a	100.00 a	80.00 ab	71.25 b	76.25 cd	100.00 a	83.75 ab	83.75 a
11 ENVOKE NIS	A	A	100.00 a	100.00 a	100.00 a	100.00 a	86.25 a	80.00 ab	82.50 c	100.00 a	70.00 bc	93.75 a
12 ENVOKE GRAMOXONE INTEON NIS	A	A	100.00 a	100.00 a	100.00 a	100.00 a	85.00 a	80.00 ab	83.75 bc	100.00 a	62.50 bc	91.25 a
13 VALOR SX NIS	A	A	100.00 a	100.00 a	100.00 a	100.00 a	53.75 cd	90.00 a	98.75 ab	100.00 a	95.00 a	52.50 cd
14 VALOR SX GRAMOXONE INTEON NIS	A	A	100.00 a	100.00 a	100.00 a	100.00 a	56.25 c	87.50 a	100.00 a	100.00 a	92.50 a	68.75 b
LSD (P=.05)			0.000	0.000	0.000	0.000	12.999	12.788	15.762	0.000	22.319	14.652
Standard Deviation			0.000	0.000	0.000	0.000	9.096	8.948	11.030	0.000	15.618	10.253
CV			0.0	0.0	0.0	0.0	16.87	15.07	17.16	0.0	21.86	15.21
Grand Mean			92.86	92.86	92.86	92.86	53.93	59.38	64.29	92.86	71.43	67.41
Bartlett's X2			0.0	0.0	0.0	0.0	10.706	18.278	19.785	0.0	6.653	25.233
P(Bartlett's X2)			0.554	0.108	0.048*	.	0.88	0.014*
Replicate F			0.000	0.000	0.000	0.000	3.367	0.972	0.391	0.000	4.715	1.488
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	0.0281	0.4157	0.7598	1.0000	0.0067	0.2328
Treatment F			0.000	0.000	0.000	0.000	39.209	31.796	21.330	0.000	8.727	22.525
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code		COPSS	OEOLA	CAPBP	POAAN	COPSS	OEOLA	CAPBP
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%	%	%	%	%
Rating Date		1/Apr/2008	1/Apr/2008	1/Apr/2008	1/May/2008	1/May/2008	1/May/2008	1/May/2008
Trt-Eval Interval		138 DA-A	138 DA-A	138 DA-A	168 DA-A	168 DA-A	168 DA-A	168 DA-A
Trt Treatment	Rate Appl							
No. Name	Unit Code	11	12	13	14	15	16	17
1 CHECK		0.00 d	0.00 c	0.00 e	0.00 c	0.00 e	0.00 c	0.00 b
2 GRAMOXONE INTEON NIS	A A	77.50 ab	100.00 a	57.50 d	100.00 a	68.75 a-d	100.00 a	100.00 a
3 CLARITY NIS	A A	78.75 ab	100.00 a	68.75 bcd	100.00 a	66.25 a-d	100.00 a	100.00 a
4 CLARITY GRAMOXONE INTEON NIS	A A A	75.00 ab	100.00 a	63.75 cd	100.00 a	66.25 a-d	100.00 a	100.00 a
5 BARRAGE NIS	A A	76.25 ab	100.00 a	81.25 abc	100.00 a	73.75 a-d	100.00 a	100.00 a
6 BARRAGE GRAMOXONE INTEON NIS	A A A	53.75 bc	100.00 a	78.75 abc	100.00 a	56.25 bcd	100.00 a	100.00 a
7 ENVOKE NIS	A A	46.25 c	100.00 a	85.00 ab	100.00 a	50.00 cd	100.00 a	100.00 a
8 ENVOKE GRAMOXONE INTEON NIS	A A A	41.25 c	92.50 b	81.25 abc	100.00 a	43.75 d	95.00 ab	100.00 a
9 ENVOKE NIS	A A	73.75 ab	100.00 a	76.25 a-d	95.00 b	82.50 ab	98.75 a	100.00 a
10 ENVOKE GRAMOXONE INTEON NIS	A A A	77.50 ab	100.00 a	82.50 abc	100.00 a	78.75 abc	100.00 a	100.00 a
11 ENVOKE NIS	A A	81.25 a	98.75 a	67.50 bcd	100.00 a	83.75 ab	92.50 b	100.00 a
12 ENVOKE GRAMOXONE INTEON NIS	A A A	73.75 ab	100.00 a	62.50 cd	100.00 a	77.50 abc	100.00 a	100.00 a
13 VALOR SX NIS	A A	96.25 a	100.00 a	93.75 a	98.75 ab	96.25 a	100.00 a	100.00 a
14 VALOR SX GRAMOXONE INTEON NIS	A A A	96.25 a	100.00 a	92.50 a	100.00 a	92.50 a	100.00 a	100.00 a
LSD (P=.05)		27.017	5.832	21.249	3.961	30.048	5.078	0.000
Standard Deviation		18.905	4.081	14.869	2.771	21.026	3.553	0.000
CV		27.93	4.42	21.0	3.0	31.44	3.87	0.0
Grand Mean		67.68	92.23	70.8	92.41	66.88	91.88	92.86
Bartlett's X2		22.67	6.677	6.927	4.469	20.738	4.549	0.0
P(Bartlett's X2)		0.031*	0.01*	0.862	0.035*	0.054	0.103	.
Replicate F		3.216	0.885	2.086	0.833	1.471	1.355	0.000
Replicate Prob(F)		0.0331	0.4576	0.1178	0.4838	0.2373	0.2706	1.0000
Treatment F		7.115	170.204	9.701	369.358	5.400	223.194	0.000
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000

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