

LSU Northeast Research Station

FALL APPLIED TREATMENTS FOR FALLOW BED WEED CONTROL

GENERAL TRIAL INFORMATION

Study Director: DOW
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: 10:40 AM
Application Method: SPRAY
Application Timing: FALPRE
Applic. Placement: BROSOI
Air Temp., Unit: 58 F
% Relative Humidity: 28
Wind Velocity, Unit: 8.4 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 BCPCCK
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 GPA

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Weed Code	LAMAM	POAAN	COPSS	OEOLA	LAMAM	POAAN	COPSS	OEOLA	CAPBP	LAMAM		
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	7/Jan/2008	7/Jan/2008	7/Jan/2008	7/Jan/2008	7/Jan/2008	4/Feb/2008		
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	53 DA-A	53 DA-A	53 DA-A	53 DA-A	53 DA-A	81 DA-A		
Trt Treatment	Rate	Appl										
No. Name	Rate Unit	Code	1	2	3	4	5	6	7	8	9	10
1 Goal	16 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	95.00 ab	98.75 a	100.00 a	100.00 a	98.75 ab
2 Grasp	0.5 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	92.50 bc	91.25 bcd	100.00 a	100.00 a	98.75 a	81.25 d
3 Grasp	1 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	92.50 bc	93.75 abc	100.00 a	100.00 a	97.50 a	92.50 bc
4 FIRSTRATE	0.3 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	97.50 abc	95.00 ab	100.00 a	100.00 a	98.75 a	98.75 ab
5 FIRSTRATE	0.45 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	97.50 abc	93.28 abc	100.00 a	100.00 a	98.75 a	97.50 ab
6 FIRSTRATE	0.6 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	96.25 ab	100.00 a	100.00 a	100.00 a	100.00 a
7 Goal	16 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	99.77 a	95.00 ab	100.00 a	100.00 a	100.00 a	100.00 a
Grasp	0.5 oz/a	A										
8 Goal	16 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	98.75 a	100.00 a	100.00 a	100.00 a	100.00 a
Grasp	1 oz/a	A										
9 FIRSTRATE	0.3 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	99.67 a	95.00 ab	100.00 a	100.00 a	100.00 a	100.00 a
Goal	16 oz/a	A										
10 FIRSTRATE	0.45 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	98.75 ab	93.75 abc	100.00 a	100.00 a	98.75 a	98.75 ab
Goal	16 oz/a	A										
11 FIRSTRATE	0.6 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	95.00 ab	100.00 a	100.00 a	100.00 a	100.00 a
Goal	16 oz/a	A										
12 VALOR	2 oz wt/a	A	100.00 a	100.00 a	100.00 a	100.00 a	97.50 abc	91.25 bcd	100.00 a	100.00 a	97.50 a	95.00 abc
13 DICAMBA	8 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	76.25 d	85.00 e	82.50 b	100.00 a	91.25 b	61.25 e
14 REFLEX	16 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	91.25 c	86.25 de	100.00 a	100.00 a	98.75 a	81.25 d
15 PYTHON	0.5 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	77.50 d	77.50 f	98.75 a	100.00 a	96.25 a	75.00 d
16 PYTHON	1 oz/a	A	100.00 a	100.00 a	100.00 a	100.00 a	95.00 abc	88.75 cde	100.00 a	100.00 a	97.89 a	88.75 c
17 NONTREATED		A	0.00 b	0.00 b	0.00 b	0.00 b	0.00 e	0.00 g	0.00 c	0.00 b	0.00 c	0.00 f
LSD (P=.05)			0.000	0.000	0.000	0.000	6.312	6.250	1.592	0.000	4.217	6.934
Standard Deviation			0.000	0.000	0.000	0.000	4.417	4.373	1.114	0.000	2.951	4.852
CV			0.0	0.0	0.0	0.0	4.95	5.06	1.2	0.0	3.19	5.62
Grand Mean			94.12	94.12	94.12	94.12	89.16	86.52	92.94	94.12	92.6	86.4
Bartlett's X2			0.0	0.0	0.0	0.0	17.633	11.911	0.084	0.0	9.505	24.263
P(Bartlett's X2)			0.04*	0.535	0.959	.	0.392	0.007*
Replicate F			0.000	0.000	0.000	0.000	1.040	0.744	0.790	0.000	1.568	0.723
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	0.3838	0.5311	0.5054	1.0000	0.2096	0.5429
Treatment F			0.000	0.000	0.000	0.000	119.270	109.440	1906.482	0.000	263.634	105.148
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			POAAN	COPSS	OEOLA	CAPBP	VICSA	LAMAM	POAAN	COPSS	OEOLA	CAPBP	VICSA
Rating Data Type			CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			%	%	%	%	%	%	%	%	%	%	%
Rating Date			4/Feb/2008	4/Feb/2008	4/Feb/2008	4/Feb/2008	6/Mar/2008	6/Mar/2008	6/Mar/2008	6/Mar/2008	6/Mar/2008	6/Mar/2008	3/Apr/2008
Trt-Eval Interval			81 DA-A	81 DA-A	81 DA-A	81 DA-A	112 DA-A	112 DA-A	112 DA-A	112 DA-A	112 DA-A	112 DA-A	140 DA-A
Trt Treatment													
No. Name	Rate Unit	Appl Code	11	12	13	14	15	16	17	18	19	20	21
1 Goal	16 oz/a	A	85.00 abc	93.75 a	100.00 a	98.75 ab	86.25 a	90.00 abc	75.00 cde	85.00 bcd	100.00 a	96.25 ab	90.00 a
2 Grasp	0.5 oz/a	A	71.25 de	93.75 a	100.00 a	96.25 ab	78.75 a	73.75 de	53.75 f	75.00 d	98.75 a	85.00 bc	63.75 a
3 Grasp	1 oz/a	A	83.75 bc	100.00 a	100.00 a	93.75 bc	88.75 a	87.50 bc	77.50 bcd	92.50 abc	97.50 a	90.00 ab	90.00 a
4 FIRSTRATE	0.3 oz/a	A	90.00 ab	100.00 a	100.00 a	98.75 ab	87.50 a	96.25 ab	80.00 bc	98.75 a	100.00 a	96.25 ab	78.75 a
5 FIRSTRATE	0.45 oz/a	A	92.50 ab	100.00 a	100.00 a	100.00 a	80.00 a	96.25 ab	90.00 ab	100.00 a	100.00 a	97.50 a	80.00 a
6 FIRSTRATE	0.6 oz/a	A	95.00 a	100.00 a	100.00 a	100.00 a	85.00 a	100.00 a	95.00 a	100.00 a	100.00 a	100.00 a	78.75 a
7 Goal	16 oz/a	A	93.75 ab	100.00 a	100.00 a	98.75 ab	86.25 a	92.50 abc	88.75 abc	95.00 ab	95.00 ab	97.50 a	82.50 a
Grasp	0.5 oz/a	A											
8 Goal	16 oz/a	A	95.00 a	100.00 a	100.00 a	100.00 a	91.25 a	97.50 ab	95.00 a	98.75 a	98.75 a	100.00 a	88.75 a
Grasp	1 oz/a	A											
9 FIRSTRATE	0.3 oz/a	A	92.50 ab	100.00 a	100.00 a	100.00 a	95.00 a	98.75 a	88.75 abc	100.00 a	100.00 a	100.00 a	85.00 a
Goal	16 oz/a	A											
10 FIRSTRATE	0.45 oz/a	A	91.25 ab	100.00 a	100.00 a	98.75 ab	97.50 a	100.00 a	88.75 abc	100.00 a	100.00 a	95.00 ab	95.00 a
Goal	16 oz/a	A											
11 FIRSTRATE	0.6 oz/a	A	95.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	96.25 a	100.00 a	100.00 a	100.00 a	98.75 a
Goal	16 oz/a	A											
12 VALOR	2 oz wt/a	A	77.50 cd	100.00 a	100.00 a	98.75 ab	85.00 a	83.75 cd	62.50 ef	93.75 abc	100.00 a	93.75 ab	67.50 a
13 DICAMBA	8 oz/a	A	51.25 f	66.25 b	95.00 b	90.00 c	95.00 a	45.00 f	30.00 g	37.50 e	70.00 c	42.50 d	76.25 a
14 REFLEX	16 oz/a	A	71.25 de	98.75 a	98.75 a	96.25 ab	87.50 a	67.50 e	35.00 g	82.50 cd	83.75 b	93.75 ab	61.25 a
15 PYTHON	0.5 oz/a	A	63.75 e	98.75 a	100.00 a	93.75 bc	95.00 a	66.25 e	31.25 g	97.50 a	88.75 ab	73.75 c	90.00 a
16 PYTHON	1 oz/a	A	75.00 cd	100.00 a	100.00 a	96.25 ab	96.25 a	82.50 cd	63.75 def	98.75 a	96.25 ab	93.75 ab	87.50 a
17 NONTREATED		A	0.00 g	0.00 c	0.00 c	0.00 d	0.00 b	0.00 g	0.00 h	0.00 f	0.00 d	0.00 e	0.00 b
LSD (P=.05)			10.833	10.127	2.599	6.125	24.235	10.327	14.812	12.363	12.552	12.088	39.766
Standard Deviation			7.580	7.086	1.819	4.286	16.959	7.226	10.365	8.651	8.783	8.459	27.826
CV			9.73	7.77	1.94	4.67	20.09	8.92	15.31	10.11	9.77	9.88	36.01
Grand Mean			77.87	91.25	93.75	91.76	84.41	81.03	67.72	85.59	89.93	85.59	77.28
Bartlett's X2			27.348	21.404	2.759	14.635	19.029	23.039	26.511	31.422	32.191	21.076	29.344
P(Bartlett's X2)			0.017*	0.001*	0.097	0.146	0.164	0.027*	0.033*	0.001*	0.001*	0.033*	0.015*
Replicate F			1.150	0.886	1.000	1.014	0.617	0.197	1.473	1.035	2.013	0.247	0.168
Replicate Prob(F)			0.3388	0.4552	0.4010	0.3947	0.6074	0.8978	0.2338	0.3856	0.1247	0.8633	0.9177
Treatment F			39.331	49.382	707.389	123.525	7.093	51.273	30.421	38.956	31.156	38.336	2.616
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0052

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Weed Code	LAMAM	POAAN	COPSS	OEOLA	CAPBP	VICSA	LAMAM	POAAN	COPSS	OEOLA	CAPBP		
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	%	%	%	%	%	%	%	%	%	%	%		
Rating Date	3/Apr/2008	3/Apr/2008	3/Apr/2008	3/Apr/2008	3/Apr/2008	1/May/2008	1/May/2008	1/May/2008	1/May/2008	1/May/2008	1/May/2008		
Trt-Eval Interval	140 DA-A	140 DA-A	140 DA-A	140 DA-A	140 DA-A	168 DA-A	168 DA-A	168 DA-A	168 DA-A	168 DA-A	168 DA-A		
Trt Treatment	Rate	Appl											
No. Name	Rate Unit	Code	22	23	24	25	26	27	28	29	30	31	32
1 Goal	16 oz/a	A	88.75 de	83.75 cde	78.75 c	96.25 ab	93.75 abc	92.50 a	96.25 ab	100.00 a	77.50 b	92.50 a	100.00 a
2 Grasp	0.5 oz/a	A	92.50 a-e	77.50 ef	78.75 c	98.75 ab	85.00 cd	55.00 a	98.75 ab	100.00 a	68.75 b	92.50 a	100.00 a
3 Grasp	1 oz/a	A	96.25 a-d	87.50 a-e	87.50 bc	91.25 ab	88.75 bc	78.75 a	97.50 ab	100.00 a	95.00 a	75.00 ab	100.00 a
4 FIRSTRATE	0.3 oz/a	A	100.00 a	86.25 b-e	97.50 a	100.00 a	96.25 ab	68.75 a	98.75 ab	100.00 a	98.75 a	100.00 a	100.00 a
5 FIRSTRATE	0.45 oz/a	A	96.25 a-d	90.00 a-d	98.75 a	96.25 ab	95.00 abc	80.00 a	98.75 ab	100.00 a	100.00 a	91.25 a	100.00 a
6 FIRSTRATE	0.6 oz/a	A	100.00 a	92.50 abc	100.00 a	100.00 a	98.75 ab	81.25 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a
7 Goal	16 oz/a	A	97.50 abc	95.00 ab	95.00 ab	88.75 ab	93.75 abc	76.25 a	93.75 b	100.00 a	95.00 a	77.50 ab	100.00 a
Grasp	0.5 oz/a	A											
8 Goal	16 oz/a	A	98.75 ab	97.50 a	98.75 a	95.00 ab	100.00 a	87.50 a	93.75 b	100.00 a	100.00 a	77.50 ab	100.00 a
Grasp	1 oz/a	A											
9 FIRSTRATE	0.3 oz/a	A	100.00 a	92.50 abc	97.50 a	100.00 a	100.00 a	85.00 a	96.25 ab	100.00 a	100.00 a	98.75 a	100.00 a
Goal	16 oz/a	A											
10 FIRSTRATE	0.45 oz/a	A	100.00 a	93.75 abc	100.00 a	100.00 a	97.50 ab	96.25 a	100.00 a	100.00 a	100.00 a	91.25 a	100.00 a
Goal	16 oz/a	A											
11 FIRSTRATE	0.6 oz/a	A	100.00 a	97.50 a	100.00 a	100.00 a	100.00 a	100.00 a	97.50 ab	100.00 a	100.00 a	100.00 a	100.00 a
Goal	16 oz/a	A											
12 VALOR	2 oz wt/a	A	91.25 b-e	80.00 de	97.50 a	100.00 a	93.75 abc	77.50 a	87.50 c	100.00 a	100.00 a	96.25 a	97.50 b
13 DICAMBA	8 oz/a	A	85.00 e	62.50 g	60.00 d	86.25 b	63.75 e	76.25 a	100.00 a	100.00 a	62.50 b	53.75 b	100.00 a
14 REFLEX	16 oz/a	A	90.00 cde	66.25 g	97.50 a	91.25 ab	100.00 a	62.50 a	100.00 a	100.00 a	93.75 a	72.50 ab	100.00 a
15 PYTHON	0.5 oz/a	A	87.50 e	60.00 g	98.75 a	87.50 ab	75.00 d	77.50 a	100.00 a	100.00 a	98.75 a	71.25 ab	100.00 a
16 PYTHON	1 oz/a	A	92.50 a-e	67.50 fg	98.75 a	96.25 ab	93.75 abc	86.25 a	98.75 ab	97.50 b	100.00 a	88.75 ab	100.00 a
17 NONTREATED		A	0.00 f	0.00 h	0.00 e	0.00 c	0.00 f	0.00 b	0.00 d	0.00 c	0.00 c	0.00 c	0.00 c
LSD (P=.05)			8.690	11.122	9.846	13.728	10.286	46.029	5.660	1.733	15.127	35.563	1.733
Standard Deviation			6.081	7.783	6.890	9.606	7.198	32.209	3.961	1.213	10.585	24.885	1.213
CV			6.82	9.95	7.89	10.69	8.3	42.74	4.32	1.29	12.08	30.68	1.29
Grand Mean			89.19	78.24	87.35	89.85	86.76	75.37	91.62	93.97	87.65	81.1	93.97
Bartlett's X2			13.564	15.574	36.838	12.854	14.021	16.555	13.247	0.0	27.928	28.245	0.0
P(Bartlett's X2)			0.194	0.411	0.001*	0.169	0.232	0.281	0.21	.	0.001*	0.005*	0.001*
Replicate F			0.169	1.473	0.764	0.707	0.246	0.100	1.531	1.000	1.181	0.582	1.000
Replicate Prob(F)			0.9168	0.2337	0.5198	0.5528	0.8638	0.9599	0.2184	0.4010	0.3267	0.6300	0.4010
Treatment F			59.809	36.954	52.644	24.229	45.919	1.947	144.820	1596.000	23.177	3.914	1596.000
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	0.0387	0.0001	0.0001	0.0001	0.0001	0.0001

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