

North Carolina State University

LIQUID FASTBURN FORMULATIONS - EFFICACY EVALUATION (MON SERIES #4)

Trial ID: 03-T28

Study Director: L.S. WARREN

Location: NCSU TURF FIELD LAB

Investigator: Fred Yelverton

Pest Stage At Each Application

	A	
Pest 1 Code, Disc., Scale:	FESAR	W
Stage Majority, Percent:	MOWED	100
Height, Unit:	4	IN

Application Equipment

	A	
Appl. Equipment:	BACSPR	
Operating Pressure:	32	
Pressure Unit:	PSI	
Nozzle Type:	FLAT FAN	
Nozzle Size:	SS 8003	
Nozzle Spacing, Unit:	10	IN
Band Width, Unit:	40	IN
Boom Length, Unit:	40	IN
Boom Height, Unit:	10	IN
Ground Speed, Unit:	3	MPH
Carrier:	WATER	
Spray Volume:	50	
Volume Unit:	GPA	
Propellant:	COMCO2	
Tank Mix (Y/N):	N	

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Pest Code											FESAR	FESAR	FESAR
Rating Date											7-8-03	7-9-03	7-11-03
Rating Data Type											PHYTO	PHYTO	PHYTO
Rating Unit											PERCENT	PERCENT	PERCENT
Assessed By											L.S. WARREN	L.S. WARREN	L.S. WARREN
Days After Last Applic.											1	2	4
Trt-Eval Interval											1 DA-A	2 DA-A	4 DA-A
ARM Action Codes											P	P	P
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Spray Volume			
1	MON 79141	18.5	SL	6.166	lb ai/a			JUL 7	A		62.5 abc	97.3 a	99.0 a
2	MON 79141	18.5	SL	7.194	lb ai/a			JUL 7	A		65.0 ab	98.0 a	99.0 a
3	MON 79141	18.5	SL	8.222	lb ai/a			JUL 7	A		66.3 ab	98.0 a	99.0 a
4	MON 78908	18.5	SL	6.166	lb ai/a			JUL 7	A		58.8 bc	98.0 a	99.0 a
5	MON 78908	18.5	SL	7.194	lb ai/a			JUL 7	A		68.8 ab	98.0 a	99.0 a
6	MON 78908	18.5	SL	8.222	lb ai/a			JUL 7	A		73.8 a	98.0 a	99.0 a
7	QUIKPRO	68.14	WG	6	lb ai/a			JUL 7	A		43.8 d	93.3 a	98.0 a
8	QUIKPRO	68.14	WG	7	lb ai/a			JUL 7	A		51.3 cd	97.3 a	99.0 a
9	QUIKPRO	68.14	WG	8	lb ai/a			JUL 7	A		61.3 bc	98.0 a	99.0 a
10	MON 78567	1.777	SL	6	lb ai/a			JUL 7	A		11.3 ef	50.0 c	81.3 c
11	MON 78567	1.777	SL	7	lb ai/a			JUL 7	A		12.5 e	57.5 bc	85.0 bc
12	MON 78567	1.777	SL	8	lb ai/a			JUL 7	A		12.5 e	58.8 b	87.5 b
13	ROUNDUP PRO	3.0	SL	4.5	lb ae/a			JUL 7	A		0.0 f	6.3 e	21.3 e
14	ROUNDUP PRO	3.0	SL	5.25	lb ae/a			JUL 7	A		1.3 ef	7.5 e	23.8 e
15	ROUNDUP PRO	3.0	SL	6	lb ae/a			JUL 7	A		0.0 f	7.5 e	20.0 e
16	FINALE	1.0	SL	1.5	lb ai/a			JUL 7	A		1.3 ef	27.5 d	61.3 d
17	CHECK										0.0 f	0.0 e	0.0 f
LSD (P=.05)											12.30	8.71	4.26
Standard Deviation											8.61	6.09	2.98
CV											24.8	9.49	3.99
Grand Mean											34.71	64.16	74.71
Bartlett's X2											24.129	29.729	4.819
P(Bartlett's X2)											0.03*	0.001*	0.682
Replicate F											2.951	0.595	1.352
Replicate Prob(F)											0.0419	0.6212	0.2687
Treatment F											48.570	171.202	557.339
Treatment Prob(F)											0.0001	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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Location: NCSU TURF FIELD LAB

Investigator: Fred Yelverton

Pest Code											FESAR	FESAR	FESAR	
Rating Date											7-14-03	7-22-03	8-5-03	
Rating Data Type											CONTROL	CONTROL	CONTROL	
Rating Unit											PERCENT	PERCENT	PERCENT	
Assessed By											S. MCELROY	L.S. WARREN	L.S. WARREN	
Days After Last Applic.											7	15	29	
Trt-Eval Interval											7 DA-A	15 DA-A	29 DA-A	
ARM Action Codes											P	P	P	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Form Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Spray Volume				
1	MON 79141	18.5	SL	6.166	lb ai/a			JUL 7	A		98.0	abc	98.8	a
2	MON 79141	18.5	SL	7.194	lb ai/a			JUL 7	A		98.3	ab	99.3	a
3	MON 79141	18.5	SL	8.222	lb ai/a			JUL 7	A		98.0	abc	98.5	a
4	MON 78908	18.5	SL	6.166	lb ai/a			JUL 7	A		98.0	abc	99.0	a
5	MON 78908	18.5	SL	7.194	lb ai/a			JUL 7	A		96.5	abc	98.8	a
6	MON 78908	18.5	SL	8.222	lb ai/a			JUL 7	A		98.0	abc	98.8	a
7	QUIKPRO	68.14	WG	6	lb ai/a			JUL 7	A		97.8	abc	99.0	a
8	QUIKPRO	68.14	WG	7	lb ai/a			JUL 7	A		98.0	abc	98.8	a
9	QUIKPRO	68.14	WG	8	lb ai/a			JUL 7	A		99.0	a	99.0	a
10	MON 78567	1.777	SL	6	lb ai/a			JUL 7	A		91.0	de	99.0	a
11	MON 78567	1.777	SL	7	lb ai/a			JUL 7	A		93.0	cde	99.0	a
12	MON 78567	1.777	SL	8	lb ai/a			JUL 7	A		95.0	a-d	99.3	a
13	ROUNDUP PRO	3.0	SL	4.5	lb ae/a			JUL 7	A		88.5	e	100.0	a
14	ROUNDUP PRO	3.0	SL	5.25	lb ae/a			JUL 7	A		95.0	a-d	100.0	a
15	ROUNDUP PRO	3.0	SL	6	lb ae/a			JUL 7	A		93.3	b-e	100.0	a
16	FINALE	1.0	SL	1.5	lb ai/a			JUL 7	A		60.5	f	85.0	b
17	CHECK							JUL 7	A		0.0	g	0.0	c
LSD (P=.05)											5.14	1.44	2.44	
Standard Deviation											3.59	1.01	1.71	
CV											4.08	1.09	1.84	
Grand Mean											88.1	92.5	92.74	
Bartlett's X2											40.545	26.304	62.011	
P(Bartlett's X2)											0.001*	0.001*	0.001*	
Replicate F											1.790	1.453	1.898	
Replicate Prob(F)											0.1617	0.2392	0.1426	
Treatment F											184.928	2292.407	798.307	
Treatment Prob(F)											0.0001	0.0001	0.0001	

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Trial ID: 03-T28

Study Director: L.S. WARREN

Location: NCSU TURF FIELD LAB

Investigator: Fred Yelverton

Pest Code											FESAR	FESAR
Rating Date											9-4-03	9-29-03
Rating Data Type											CONTROL	CONTROL
Rating Unit											PERCENT	PERCENT
Assessed By											L.S. WARREN	L.S. WARREN
Days After Last Applic.											59	84
Trt-Eval Interval											59 DA-A	84 DA-A
ARM Action Codes											P	P
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Form Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Spray Volume		
1	MON 79141	18.5	SL	6.166	lb ai/a			JUL 7	A		99.5 a	99.3 a
2	MON 79141	18.5	SL	7.194	lb ai/a			JUL 7	A		100.0 a	100.0 a
3	MON 79141	18.5	SL	8.222	lb ai/a			JUL 7	A		100.0 a	99.8 a
4	MON 78908	18.5	SL	6.166	lb ai/a			JUL 7	A		99.5 a	99.8 a
5	MON 78908	18.5	SL	7.194	lb ai/a			JUL 7	A		99.8 a	99.5 a
6	MON 78908	18.5	SL	8.222	lb ai/a			JUL 7	A		100.0 a	100.0 a
7	QUIKPRO	68.14	WG	6	lb ai/a			JUL 7	A		100.0 a	100.0 a
8	QUIKPRO	68.14	WG	7	lb ai/a			JUL 7	A		100.0 a	100.0 a
9	QUIKPRO	68.14	WG	8	lb ai/a			JUL 7	A		100.0 a	100.0 a
10	MON 78567	1.777	SL	6	lb ai/a			JUL 7	A		100.0 a	100.0 a
11	MON 78567	1.777	SL	7	lb ai/a			JUL 7	A		100.0 a	100.0 a
12	MON 78567	1.777	SL	8	lb ai/a			JUL 7	A		100.0 a	100.0 a
13	ROUNDUP PRO	3.0	SL	4.5	lb ae/a			JUL 7	A		100.0 a	100.0 a
14	ROUNDUP PRO	3.0	SL	5.25	lb ae/a			JUL 7	A		99.8 a	100.0 a
15	ROUNDUP PRO	3.0	SL	6	lb ae/a			JUL 7	A		100.0 a	100.0 a
16	FINALE	1.0	SL	1.5	lb ai/a			JUL 7	A		60.0 b	27.5 b
17	CHECK										0.0 c	0.0 c
LSD (P=.05)											3.76	1.11
Standard Deviation											2.63	0.78
CV											2.87	0.86
Grand Mean											91.68	89.75
Bartlett's X2											46.568	15.548
P(Bartlett's X2)											0.001*	0.004*
Replicate F											1.023	0.741
Replicate Prob(F)											0.3910	0.5331
Treatment F											376.429	5591.271
Treatment Prob(F)											0.0001	0.0001

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Trial Comments

07-07-03: APPLIED TREATMENTS WITH SS 8003 NOZZLES AT 50 GPA, 32 PSI, 3 MPH; THEREFORE, MADE 2 PASSES PER PLOT FOR TOTAL 100 GPA SPRAY VOLUME

FESAR PHYTO RATINGS BASED ON LEAF BURN (NECROSIS)