

University of Georgia

Evaluating methyl bromide alternatives in large acreage on farm trials.

Trial ID: Veg43-06

Study Dir.: Martin Flora

Location: Southern Valley (B6)

Investigator: Stanley Culpepper

Weed Code	PORPI CPSAN	AMAPA CPSAN	plant 1 CPSAN	plant 2 CPSAN	plant 3 CPSAN	plant 4 CPSAN	plant 5 CPSAN	plant 6 CPSAN	plant 7 CPSAN		
Crop Code	#	#	ht	ht	ht	ht	ht	ht	ht		
Rating Data Type	per plot	per plot	cm	cm	cm	cm	cm	cm	cm		
Rating Unit	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06		
Rating Date	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A		
Trt-Eval Interval	ARM Action Codes										
Trt No.	Treatment Name	Rate	1	2	3	4	5	6	7	8	9
1	MB 400		0 a	0 a	21 a	20 a	19 a	20 a	20 a	20 a	21 a
2	Telone II 12 G Pic 150 lb Vapam 75 G		1 a	0 a	18 b	19 a	19 a	21 a	21 a	17 a	21 a
LSD (P=.05)	1.4	0.6	3.8	8.2	2.2	3.4	4.6	4.8	2.6		
Standard Deviation	0.8	0.3	2.1	4.7	1.3	2.0	2.6	2.7	1.5		
CV	201.56	316.23	11.0	23.62	6.69	9.43	12.77	14.55	7.02		
Bartlett's X2	1.68	0.0	0.034	0.103	1.146	0.0	0.238	2.184	0.593		
P(Bartlett's X2)	0.195	.	0.854	0.749	0.284	0.985	0.626	0.139	0.441		

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code	plant 8	plant 9	plant 10	plant 11	plant 12	plant 13	plant 14	plant 15	plant 16
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06
Trt-Eval Interval	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A
ARM Action Codes									
Trt No.	10	11	12	13	14	15	16	17	18
Treatment Name									
Rate									
Unit									
1 MB 400	19 a	20 a	24 a	12 a	19 a	20 a	18 b	20 a	21 a
2 Telone II 12 G Pic 150 lb Vapam 75 G	20 a	19 a	20 a	14 a	18 a	21 a	22 a	21 a	20 a
LSD (P=.05)	4.6	3.0	5.9	3.1	5.2	5.4	2.0	4.3	3.6
Standard Deviation	2.6	1.7	3.4	1.8	3.0	3.1	1.1	2.4	2.0
CV	13.22	8.53	15.38	13.65	16.13	14.7	5.7	12.19	9.84
Bartlett's X2	0.05	6.804	1.111	0.083	1.015	0.057	0.488	0.037	0.649
P(Bartlett's X2)	0.823	0.009*	0.292	0.774	0.314	0.811	0.485	0.847	0.421

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code	plant 17	plant 18	plant 19	plant 20	plant 21	plant 22	plant 23	plant 24	plant 25
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06
Trt-Eval Interval	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A
ARM Action Codes									
Trt No.	19	20	21	22	23	24	25	26	27
Treatment Name									
Rate									
Unit									
1 MB 400	21 a	19 a	22 a	21 a	19 a	19 a	20 a	20 a	20 a
2 Telone II 12 G Pic 150 lb Vapam 75 G	18 a	21 a	20 a	21 a	15 a	19 a	19 a	20 a	19 a
LSD (P=.05)	4.6	5.3	2.4	2.3	10.0	5.9	2.2	5.0	5.1
Standard Deviation	2.6	3.0	1.4	1.3	5.7	3.4	1.3	2.9	2.9
CV	13.42	14.86	6.56	6.09	32.64	17.64	6.39	14.13	14.59
Bartlett's X2	0.377	0.038	1.39	2.153	7.057	0.068	0.109	2.034	0.154
P(Bartlett's X2)	0.539	0.846	0.238	0.142	0.008*	0.795	0.741	0.154	0.695

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code	plant 26	plant 27	plant 28	plant 29	plant 30	plant 31	plant 32	plant 33	plant 34			
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06			
Trt-Eval Interval	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A			
ARM Action Codes												
Trt No.	Treatment Name	Rate	Unit	28	29	30	31	32	33	34	35	36
1	MB 400			21 a	20 a	21 a	21 a	21 a	19 a	21 a	19 a	23 a
2	Telone II 12 G Pic 150 lb Vapam 75 G			20 a	19 a	20 a	19 a	19 a	17 a	18 a	18 a	18 b
LSD (P=.05)				2.2	3.2	4.4	2.6	4.1	14.2	4.4	8.4	2.4
Standard Deviation				1.3	1.8	2.5	1.5	2.3	8.1	2.5	4.8	1.4
CV				6.08	9.53	12.32	7.33	11.57	44.91	12.91	25.87	6.72
Bartlett's X2				1.337	0.42	0.06	4.033	0.104	5.205	0.063	5.391	0.53
P(Bartlett's X2)				0.248	0.517	0.806	0.045*	0.747	0.023*	0.802	0.02*	0.467

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code	plant 35	plant 36	plant 37	plant 38	plant 39	plant 40	avg40plt	Harv 1			
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	jumbo			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	#			
Rating Date	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	May-18-06			
Trt-Eval Interval	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	85 DA-A			
ARM Action Codes							T1				
Trt No.	Treatment Name	Rate	Unit	37	38	39	40	41	42	43	44
1	MB 400			22 a	23 a	19 a	19 a	19 a	22 a	20 a	30 b
2	Telone II 12 G Pic 150 lb Vapam 75 G			22 a	20 a	20 a	20 a	21 a	17 a	19 a	125 a
LSD (P=.05)		2.6	3.7	3.6	3.8	5.1	5.2	1.1	60.6		
Standard Deviation		1.5	2.1	2.1	2.2	2.9	3.0	0.6	34.5		
CV		6.73	9.76	10.68	10.95	14.42	15.02	3.18	44.5		
Bartlett's X2		0.101	0.118	2.496	0.429	0.264	1.221	0.612	0.11		
P(Bartlett's X2)		0.75	0.732	0.114	0.513	0.608	0.269	0.434	0.74		

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Column 43: T1 = @AVG([C3],[C42])

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Weed Code	Harv 1	Harv1	Harv1	Harv1	Harv1	Harv1	Harv1	Harv 1
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Rating Data Type	jumbo	exlarge	exlarge	large	large	choppers	choppers	cull
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Date	May-18-06	May-18-06	May-18-06	May-18-06	May-18-06	May-18-06	May-18-06	May-18-06
Trt-Eval Interval	85 DA-A	85 DA-A	85 DA-A	85 DA-A	85 DA-A	85 DA-A	85 DA-A	85 DA-A
ARM Action Codes								
Trt No.	45	46	47	48	49	50	51	52
Treatment Name								
Rate								
Unit								
1 MB 400	16 b	219 a	86 a	153 a	50 a	217 a	81 a	11 a
2 Telone II 12 G Pic 150 lb Vapam 75 G	68 a	237 a	100 a	143 a	46 a	253 a	99 a	8 a
LSD (P=.05)	32.0	25.6	18.4	99.1	30.4	99.8	40.2	13.8
Standard Deviation	18.2	14.6	10.5	56.5	17.3	56.8	22.9	7.8
CV	43.14	6.39	11.28	38.15	35.9	24.18	25.51	81.62
Bartlett's X2	0.345	0.395	0.508	2.815	2.664	0.459	1.675	4.218
P(Bartlett's X2)	0.557	0.53	0.476	0.093	0.103	0.498	0.196	0.04*

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code	Harv 1	Har1	Har1
Crop Code	CPSAN	CPSAN	CPSAN
Rating Data Type	cull	Jum,EX-L, L	Jum,EX-L,L
Rating Unit	wt/lb	#	wt/lb
Rating Date	May-18-06	May-18-06	May-18-06
Trt-Eval Interval	85 DA-A	85 DA-A	85 DA-A
ARM Action Codes		T2	T3
Trt No.			
Treatment Name			
Rate			
Unit			
53	54	55	
1 MB 400	4 a	199 b	152 b
2 Telone II 12 G Pic 150 lb Vapam 75 G	3 a	337 a	214 a
LSD (P=.05)	4.6	105.6	37.1
Standard Deviation	2.6	60.1	21.1
CV	73.97	22.45	11.53
Bartlett's X2	1.978	0.078	1.552
P(Bartlett's X2)	0.16	0.78	0.213

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Column 54: T2 = [C44]+[C45]+[C48]

Column 55: T3 = [C45]+[C47]+[C49]

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MAINTENANCE

Field Prep./Maintenance:

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.							

SOIL DESCRIPTION

% Sand: _____ % OM: _____ Texture: _____
 % Silt: _____ pH: _____ Soil Name: _____
 % Clay: _____ CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: _____

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A
Application Date:	Feb-22-06
Time of Day:	9 am
Application Method:	band
Application Timing:	preplant
Applic. Placement:	in bed
Air Temp., Unit:	65 F
% Relative Humidity:	48
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	60 F
Soil Moisture:	moist
% Cloud Cover:	35

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CPSAN preplant
Stage Scale:	not up
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	PORPI preplant
Stage Scale:	not up
Density, Unit:	
Weed 2 Code, Stage:	AMAPA preplant
Stage Scale:	not up
Density, Unit:	

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	
Operating Pressure:	
Nozzle Type:	see
Nozzle Size:	comments
Nozzle Spacing, Unit:	
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	
Ground Speed, Unit:	
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	
Spray Volume, Unit:	
Spray pH:	
Propellant:	
Tank Mix (Y/N):	

Trt No	Treatment Application Comment