

University of Georgia

Evaluating methyl bromide alternatives in large acreage on farm trials.

Trial ID: Veg48-06

Study Dir.: Bill Brim

Location: LTF (cantaloupe)

Investigator: Stanley Culpepper

Weed Code	CYPZZ CUMMC	CYPZZ CUMMC	CYPZZ CUMMC	CYPZZ CUMMC	CYPZZ CUMMC	plant 1 CUMMC	plant 2 CUMMC	plant 3 CUMMC	plant 4 CUMMC	
Crop Code	#	#	#	#	#	ht	ht	ht	ht	
Rating Data Type	per plot	bed 1	bed 2	bed 3	per plot	cm	cm	cm	cm	
Rating Unit	Apr-03-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	
Rating Date	26 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	
Trt-Eval Interval	ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	
		1	2	3	4	5	6	7	8	
1	MB 400 lb	0 b	0 b	0 b	0 a	1 b	45 a	45 a	35 b	37 a
2	Telone II 12 G Pic 150 lb Vapam 75 G	0 b	0 b	1 b	2 a	2 b	43 a	56 a	50 ab	42 a
3	Pic 150 lb Vapam 75 G	5 a	7 a	4 a	1 a	11 a	57 a	52 a	49 ab	54 a
4	Telone II 12 G Vapam 75 G	4 ab	3 ab	4 a	2 a	9 a	50 a	44 a	52 a	43 a
LSD (P=.05)	4.6	4.7	2.8	2.8	3.7	16.6	22.8	14.4	24.0	
Standard Deviation	2.3	2.3	1.4	1.4	1.9	8.3	11.4	7.2	12.0	
CV	94.31	90.55	69.22	120.37	32.41	17.1	23.18	15.46	27.14	
Bartlett's X2	5.19	6.696	3.652	4.005	1.215	1.734	2.447	3.105	3.553	
P(Bartlett's X2)	0.023*	0.035*	0.161	0.261	0.749	0.629	0.485	0.376	0.314	

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

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Weed Code	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	plant 11	plant 12	plant 13			
Crop Code	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC			
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-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06			
Trt-Eval Interval	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A			
ARM Action Codes												
Trt No.	Treatment Name	Rate	Unit	10	11	12	13	14	15	16	17	18
1	MB 400 lb			42 a	47 a	37 b	24 b	36 b	45 a	37 b	46 a	32 b
2	Telone II 12 G Pic 150 lb Vapam 75 G			48 a	51 a	50 a	49 a	47 ab	46 a	38 b	44 a	38 ab
3	Pic 150 lb Vapam 75 G			54 a	54 a	48 a	50 a	53 a	44 a	54 a	49 a	62 a
4	Telone II 12 G Vapam 75 G			53 a	39 a	52 a	46 a	48 a	53 a	53 a	49 a	51 ab
LSD (P=.05)				16.8	26.4	8.4	13.1	11.4	20.6	11.4	23.6	27.3
Standard Deviation				8.4	13.2	4.2	6.6	5.7	10.3	5.7	11.8	13.7
CV				17.05	27.76	9.01	15.38	12.36	21.99	12.44	25.17	29.84
Bartlett's X2				1.039	6.701	4.1	3.83	3.954	4.309	2.046	2.228	6.418
P(Bartlett's X2)				0.792	0.082	0.251	0.28	0.266	0.23	0.563	0.526	0.093

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

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Weed Code	plant 14	plant 15	plant 16	plant 17	plant 18	plant 19	plant 20	plant 21	plant 22			
Crop Code	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC			
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-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06			
Trt-Eval Interval	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A			
ARM Action Codes												
Trt No.	Treatment Name	Rate	Unit	19	20	21	22	23	24	25	26	27
1	MB 400 lb			33 b	42 a	39 a	34 a	28 a	42 b	48 a	52 a	46 a
2	Telone II 12 G Pic 150 lb Vapam 75 G			53 ab	52 a	53 a	50 a	48 a	48 ab	51 a	45 a	55 a
3	Pic 150 lb Vapam 75 G			61 a	54 a	49 a	46 a	45 a	59 a	55 a	52 a	59 a
4	Telone II 12 G Vapam 75 G			53 ab	46 a	52 a	53 a	50 a	54 ab	48 a	56 a	44 a
LSD (P=.05)				19.8	19.4	22.1	23.4	33.4	14.6	13.6	12.1	21.1
Standard Deviation				9.9	9.7	11.1	11.7	16.7	7.3	6.8	6.0	10.6
CV				19.87	20.06	22.9	25.63	39.18	14.36	13.51	11.8	20.62
Bartlett's X2				9.246	4.732	1.997	5.954	6.444	4.527	0.788	2.164	9.573
P(Bartlett's X2)				0.026*	0.193	0.573	0.051	0.092	0.21	0.852	0.539	0.023*

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

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Weed Code	plant 23	plant 24	plant 25	plant 26	plant 27	plant 28	plant 29	plant 30	plant 31			
Crop Code	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC			
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-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06			
Trt-Eval Interval	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A			
ARM Action Codes												
Trt No.	Treatment Name	Rate	Unit	28	29	30	31	32	33	34	35	36
1	MB 400 lb			53 a	49 a	45 a	49 a	47 a	45 a	35 a	42 a	51 a
2	Telone II 12 G Pic 150 lb Vapam 75 G			46 a	53 a	49 a	55 a	46 a	44 a	53 a	51 a	53 a
3	Pic 150 lb Vapam 75 G			53 a	56 a	53 a	53 a	46 a	56 a	48 a	35 a	59 a
4	Telone II 12 G Vapam 75 G			42 a	40 a	45 a	42 a	42 a	43 a	44 a	37 a	41 b
LSD (P=.05)				12.1	16.9	20.3	19.4	11.6	23.6	29.8	16.7	8.9
Standard Deviation				6.0	8.4	10.2	9.7	5.8	11.8	14.9	8.4	4.5
CV				12.47	17.03	21.15	19.46	12.84	25.02	33.15	20.31	8.77
Bartlett's X2				2.13	3.368	3.129	3.81	3.223	1.333	6.619	6.388	0.474
P(Bartlett's X2)				0.546	0.338	0.372	0.283	0.358	0.721	0.085	0.094	0.925

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

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Weed Code	plant 32	plant 33	plant 34	plant 35	plant 36	plant 37	plant 38	plant 39	plant 40			
Crop Code	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC			
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-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06			
Trt-Eval Interval	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A			
ARM Action Codes												
Trt No.	Treatment Name	Rate	Unit	37	38	39	40	41	42	43	44	45
1	MB 400 lb			54 a	32 a	44 a	49 a	54 a	46 a	42 a	34 b	36 a
2	Telone II 12 G Pic 150 lb Vapam 75 G			45 ab	46 a	48 a	43 a	49 a	45 a	37 a	51 a	44 a
3	Pic 150 lb Vapam 75 G			37 b	46 a	47 a	44 a	52 a	57 a	45 a	48 ab	44 a
4	Telone II 12 G Vapam 75 G			49 a	45 a	45 a	44 a	48 a	44 a	40 a	32 b	43 a
LSD (P=.05)				9.1	26.1	23.8	23.7	16.3	13.3	25.5	16.5	17.3
Standard Deviation				4.5	13.1	11.9	11.9	8.2	6.6	12.7	8.3	8.7
CV				9.78	30.86	25.85	26.33	16.13	13.82	30.89	20.01	20.71
Bartlett's X2				6.202	5.376	1.095	1.94	5.076	6.527	2.16	6.253	3.574
P(Bartlett's X2)				0.102	0.146	0.778	0.585	0.166	0.089	0.54	0.10	0.311

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

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Weed Code	avg40plt	harv 1	harv 1	harv 2	harv 2	harv 3	harv 3	harv 4	
Crop Code	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	
Rating Data Type	ht	#	wt/lb	#	wt/lb	#	wt/lb	#	
Rating Unit	cm	per plot	per plot	per plot	per plot	per plot	per plot	per plot	
Rating Date	Apr-27-06	Jun-02-06	Jun-02-06	Jun-04-06	Jun-04-06	Jun-06-06	Jun-06-06	Jun-07-06	
Trt-Eval Interval	50 DA-A	86 DA-A	86 DA-A	88 DA-A	88 DA-A	90 DA-A	90 DA-A	91 DA-A	
ARM Action Codes	T1								
Trt Treatment	Rate								
No. Name	Rate Unit	46	47	48	49	50	51	52	53
1 MB 400 lb		42 a	50 a	177 a	64 ab	231 ab	18 a	60 a	6 a
2 Telone II 12 G Pic 150 lb Vapam 75 G		48 a	49 a	158 a	90 a	281 a	19 a	56 a	9 a
3 Pic 150 lb Vapam 75 G		51 a	38 a	125 a	91 a	291 a	23 a	75 a	11 a
4 Telone II 12 G Vapam 75 G		46 a	15 b	51 b	42 b	129 b	27 a	79 a	13 a
LSD (P=.05)		8.7	18.8	59.7	35.4	121.4	13.9	42.8	7.7
Standard Deviation		4.4	9.4	29.9	17.7	60.7	7.0	21.4	3.8
CV		9.35	24.78	23.4	24.74	26.07	31.83	31.74	39.39
Bartlett's X2		5.726	1.5	1.041	1.115	2.007	1.72	1.95	1.819
P(Bartlett's X2)		0.126	0.682	0.791	0.774	0.571	0.632	0.583	0.611

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

Column 46: T1 = @AVG([C6].[C45])

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Weed Code	harv 4	harv 5	harv 5	harv 6	harv 6	harv 7	harv 7	harv 8
Crop Code	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Jun-07-06	Jun-09-06	Jun-09-06	Jun-11-06	Jun-11-06	Jun-13-06	Jun-13-06	Jun-02-06
Trt-Eval Interval	91 DA-A	93 DA-A	93 DA-A	95 DA-A	95 DA-A	97 DA-A	97 DA-A	86 DA-A
ARM Action Codes								
Trt No.	54	55	56	57	58	59	60	61
Treatment Name								
Rate								
Unit								
1 MB 400 lb	20 a	15 a	58 a	64 a	254 a	82 a	337 a	38 b
2 Telone II 12 G Pic 150 lb Vapam 75 G	26 a	19 a	65 a	41 a	157 a	89 a	352 a	59 ab
3 Pic 150 lb Vapam 75 G	36 a	15 a	52 a	44 a	167 a	83 a	328 a	63 a
4 Telone II 12 G Vapam 75 G	36 a	7 a	26 a	35 a	139 a	81 a	301 a	71 a
LSD (P=.05)	22.5	14.4	51.4	31.1	127.8	44.7	163.8	24.2
Standard Deviation	11.3	7.2	25.7	15.6	64.0	22.4	82.0	12.1
CV	38.03	50.44	51.32	33.76	35.7	26.72	24.87	20.99
Bartlett's X2	2.644	13.298	10.059	5.001	5.393	2.856	2.537	3.152
P(Bartlett's X2)	0.45	0.004*	0.018*	0.172	0.145	0.414	0.469	0.369

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

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Weed Code	harv 8	Har1-3	Har1-3	Har1-8	Har1-8
Crop Code	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb
Rating Unit	per plot	per plot	per plot	per plot	per plot
Rating Date	Jun-02-06	Jun-02-06	Jun-02-06	Jun-02-06	Jun-02-06
Trt-Eval Interval	86 DA-A	86 DA-A	86 DA-A	86 DA-A	86 DA-A
ARM Action Codes		T2	T3	T4	T5
Trt No.	Treatment Name	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit
62		63		64	
65		66			
1	MB 400 lb	159 b	131 a	468 a	336 b
2	Telone II 12 G Pic 150 lb Vapam 75 G	219 ab	159 a	495 a	376 a
3	Pic 150 lb Vapam 75 G	248 ab	152 a	490 a	369 a
4	Telone II 12 G Vapam 75 G	295 a	84 b	259 b	292 c
	LSD (P=.05)	88.8	32.2	112.6	32.0
	Standard Deviation	44.5	16.1	56.4	16.0
	CV	19.29	12.28	13.17	4.67
	Bartlett's X2	4.087	1.053	2.37	7.762
	P(Bartlett's X2)	0.252	0.788	0.499	0.051
		0.286			

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

Column 63: T2 = [C47]+[C49]+[C51]

Column 64: T3 = [C48]+[C50]+[C52]

Column 65: T4 = [C47]+[C49]+[C51]+[C53]+[C55]+[C57]+[C59]+[C61]

Column 66: T5 = [C48]+[C50]+[C52]+[C54]+[C56]+[C58]+[C60]+[C62]

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

SOIL DESCRIPTION

% Sand: _____ % OM: 0. Texture: _____
 % Silt: _____ pH: 0. 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: drip irrigation

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A
Application Date:	Mar-08-06
Time of Day:	10 am
Application Method:	band
Application Timing:	preplant
Applic. Placement:	in bed
Air Temp., Unit:	71 F
% Relative Humidity:	38
Wind Velocity, Unit:	4 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	68 F
Soil Moisture:	moist
% Cloud Cover:	20

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CUMMC preplant
Stage Scale:	not up
Height, Unit:	

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	CYPZZ 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