

University of Georgia

Evaluating methyl bromide alternatives in large acreage on farm trials.

Trial ID: Veg49-06

Study Dir.: Bill Brim

Location: LTF (tomato)

Investigator: Stanley Culpepper

Weed Code	CYPZZ	CYPZZ	CYPZZ	CYPZZ	CYPZZ	AMAPA	AMAPA	AMAPA	AMAPA	
Crop Code										
Part Rated										
Rating Data Type	#	#	#	#	#/total	#	#	#	#	
Rating Unit	per plot	bed 1	bed 2	bed 3	per plot	per plot	per plot	bed 1	bed 2	
Rating Date	Apr-03-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-03-06	Apr-03-06	Apr-27-06	Apr-27-06	
Assessed By										
Trt-Eval Interval	26 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	26 DA-A	26 DA-A	50 DA-A	50 DA-A	
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
1	2	3	4	5	6	7	8	9		
1	MB 400 lb	5 a	3 a	1 a	2 a	7 b	12 a	0 a	2 a	1 a
2	Telone II 12 G Pic 150 lb Vapam 75 G	3 a	11 a	0 a	4 a	15 b	0 a	0 a	0 a	0 a
3	Pic 150 lb Vapam 75 G	57 a	23 a	28 a	69 a	120 a	0 a	0 a	0 a	0 a
4	Telone II 12 G Vapam 75 G	53 a	35 a	58 a	58 a	151 a	0 a	0 a	1 a	1 a
LSD (P=.05)	127.3	65.9	102.0	114.1	76.6	20.8	0.6	2.7	2.7	
Standard Deviation	63.7	33.0	51.1	57.1	38.4	10.4	0.3	1.3	1.4	
CV	216.67	182.45	234.81	171.3	52.42	346.41	346.41	179.16	274.87	
Bartlett's X2	16.392	10.913	14.135	16.563	12.457	0.0	0.0	0.619	0.84	
P(Bartlett's X2)	0.001*	0.012*	0.001*	0.001*	0.006*	.	.	0.431	0.359	

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

University of Georgia

Weed Code	AMAPA	PORPI	PORPI	PORPI	PORPI	PORPI	IAQTQ	IAQTA	IAQTA
Crop Code									
Part Rated									
Rating Data Type	#	#	#	#	#	#/total	#	#	#
Rating Unit	bed 3	per plot	bed 1	bed 2	bed 3	per plot	bed 1	bed 2	bed 3
Rating Date	Apr-27-06	Apr-03-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06
Assessed By									
Trt-Eval Interval	50 DA-A	26 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	Rate	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit
		10	11	12	13	14	15	16	17
1	MB 400 lb	8 a	0 a	0 a	0 a	1 a	1 a	0 a	0 a
2	Telone II 12 G Pic 150 lb Vapam 75 G	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
3	Pic 150 lb Vapam 75 G	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
4	Telone II 12 G Vapam 75 G	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
LSD (P=.05)		14.0	0.0	0.0	0.6	2.3	2.5	0.6	0.6
Standard Deviation		7.0	0.0	0.0	0.3	1.2	1.2	0.3	0.3
CV		335.14	0.0	0.0	346.41	346.41	296.65	346.41	346.41
Bartlett's X2		9.361	0.0	0.0	0.0	0.0	2.838	0.0	0.0
P(Bartlett's X2)		0.002*	0.092	.	.

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

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Weed Code	IAQTA	AMAPA	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	
Crop Code		LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	
Part Rated										
Rating Data Type	#/total	#/total	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	per plot	per plot	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	
Assessed By										
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 Treatment	Rate									
No. Name	Rate Unit	19	20	21	22	23	24	25	26	27
1 MB 400 lb		0 a	10 a	42 a	41 a	37 a	39 a	39 a	37 a	36 a
2 Telone II 12 G Pic 150 lb Vapam 75 G		0 a	0 a	37 a	37 a	38 a	39 a	36 a	37 a	27 a
3 Pic 150 lb Vapam 75 G		0 a	0 a	39 a	38 a	39 a	36 a	35 a	38 a	35 a
4 Telone II 12 G Vapam 75 G		1 a	1 a	40 a	41 a	42 a	42 a	38 a	40 a	38 a
LSD (P=.05)		1.2	11.7	8.3	8.4	10.6	7.6	7.5	9.2	14.3
Standard Deviation		0.6	5.9	4.2	4.2	5.3	3.8	3.7	4.6	7.2
CV		346.41	200.98	10.62	10.75	13.51	9.65	10.06	12.17	21.07
Bartlett's X2		0.0	13.895	0.289	4.637	2.61	2.64	0.447	3.849	2.978
P(Bartlett's X2)		.	0.001*	0.962	0.20	0.456	0.451	0.93	0.278	0.395

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

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Weed Code	plant 8 LYPES	plant 9 LYPES	plant 10 LYPES	plant 11 LYPES	plant 12 LYPES	plant 13 LYPES	plant 14 LYPES	plant 15 LYPES	plant 16 LYPES
Crop Code									
Part Rated									
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
Assessed By									
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 Treatment									
Rate									
No. Name Rate Unit	28	29	30	31	32	33	34	35	36
1 MB 400 lb	40 a	38 a	41 a	41 a	41 a	36 a	39 a	40 a	39 a
2 Telone II 12 G Pic 150 lb Vapam 75 G	37 a	38 a	36 a	34 a	36 a	38 a	37 a	38 a	40 a
3 Pic 150 lb Vapam 75 G	37 a	39 a	39 a	38 a	37 a	44 a	39 a	40 a	40 a
4 Telone II 12 G Vapam 75 G	39 a	37 a	40 a	42 a	35 a	42 a	42 a	43 a	35 a
LSD (P=.05)	3.2	3.4	5.1	8.0	7.0	8.8	6.3	6.5	8.6
Standard Deviation	1.6	1.7	2.5	4.0	3.5	4.4	3.1	3.3	4.3
CV	4.18	4.45	6.48	10.37	9.34	10.96	8.01	8.12	11.15
Bartlett's X2	1.265	3.855	3.459	4.951	1.076	2.12	5.446	1.463	4.058
P(Bartlett's X2)	0.738	0.278	0.326	0.175	0.783	0.548	0.142	0.691	0.255

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	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated									
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
Assessed By									
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.	37	38	39	40	41	42	43	44	45
Treatment Name									
Rate									
Unit									
1 MB 400 lb	37 a	38 a	34 b	38 a	38 a	38 ab	38 a	38 a	39 ab
2 Telone II 12 G Pic 150 lb Vapam 75 G	38 a	36 a	37 ab	38 a	38 a	40 a	36 a	40 a	31 c
3 Pic 150 lb Vapam 75 G	38 a	40 a	41 a	36 a	37 a	37 b	38 a	38 a	37 b
4 Telone II 12 G Vapam 75 G	37 a	38 a	36 ab	39 a	42 a	37 b	41 a	43 a	42 a
LSD (P=.05)	4.5	6.6	6.3	6.2	14.2	2.3	7.3	6.5	3.8
Standard Deviation	2.3	3.3	3.1	3.1	7.1	1.1	3.6	3.3	1.9
CV	6.03	8.67	8.48	8.25	18.35	3.0	9.51	8.27	5.12
Bartlett's X2	1.292	0.027	1.644	4.745	12.654	0.471	2.137	0.503	1.256
P(Bartlett's X2)	0.731	0.999	0.649	0.191	0.005*	0.925	0.544	0.918	0.74

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

University of Georgia

Weed Code	plant 26 LYPES	plant 27 LYPES	plant 28 LYPES	plant 29 LYPES	plant 30 LYPES	plant 31 LYPES	plant 32 LYPES	plant 33 LYPES	plant 34 LYPES
Crop Code									
Part Rated									
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
Assessed By									
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 Treatment									
Rate									
No. Name Rate Unit	46	47	48	49	50	51	52	53	54
1 MB 400 lb	35 ab	34 a	37 a	41 a	41 a	38 b	40 a	43 a	40 ab
2 Telone II 12 G Pic 150 lb Vapam 75 G	31 b	36 a	39 a	36 a	38 a	38 ab	37 a	37 a	36 bc
3 Pic 150 lb Vapam 75 G	37 ab	38 a	40 a	39 a	39 a	38 ab	39 a	38 a	35 c
4 Telone II 12 G Vapam 75 G	42 a	37 a	37 a	42 a	39 a	40 a	39 a	39 a	43 a
LSD (P=.05)	9.1	6.4	6.6	8.8	10.1	2.5	4.3	5.4	5.4
Standard Deviation	4.5	3.2	3.3	4.4	5.0	1.2	2.1	2.7	2.7
CV	12.51	8.88	8.63	11.11	12.83	3.23	5.49	6.87	7.01
Bartlett's X2	9.367	1.178	4.711	3.381	0.979	1.774	3.494	1.028	7.603
P(Bartlett's X2)	0.025*	0.758	0.194	0.337	0.806	0.621	0.322	0.795	0.055

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	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	
Part Rated								jumbo	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	#	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	fruit	
Rating Date	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	Jun-05-06	
Assessed By								Ex-Large	
Trt-Eval Interval	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	89 DA-A	
ARM Action Codes							T1		
Trt Treatment	Rate								
No. Name	Rate Unit	55	56	57	58	59	60	61	62
1 MB 400 lb		39 a	40 a	38 a	36 a	42 a	39 a	39 ab	68 a
2 Telone II 12 G Pic 150 lb Vapam 75 G		37 a	33 a	40 a	38 a	39 a	40 a	37 b	53 a
3 Pic 150 lb Vapam 75 G		34 a	40 a	36 a	39 a	37 a	39 a	38 ab	61 a
4 Telone II 12 G Vapam 75 G		38 a	40 a	41 a	38 a	40 a	38 a	40 a	67 a
LSD (P=.05)		6.0	7.6	10.1	4.8	6.4	8.3	2.7	38.9
Standard Deviation		3.0	3.8	5.0	2.4	3.2	4.1	1.3	19.4
CV		8.15	10.02	13.0	6.37	8.17	10.66	3.47	31.16
Bartlett's X2		2.389	1.839	0.431	4.033	7.155	0.367	4.12	1.919
P(Bartlett's X2)		0.496	0.606	0.934	0.258	0.067	0.947	0.249	0.589

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

Column 61: T1 = @AVG([C21].[C60])

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Weed Code	harv 1	harv 1	harv 1	harv 1	harv 1	harv 1	harv 1	harv 1
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated	jumbo	large	large	medium	medium	small	small	exsmal
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Unit	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit
Rating Date	Jun-05-06	Jun-05-06	Jun-05-06	Jun-05-06	Jun-05-06	Jun-05-06	Jun-05-06	Jun-05-06
Assessed By	Ex-Large	Large	Large	Med	Med	Small	Small	Ex-Small
Trt-Eval Interval	89 DA-A	89 DA-A	89 DA-A	89 DA-A	89 DA-A	89 DA-A	89 DA-A	89 DA-A
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	63	64	65	66	67	68	69
1 MB 400 lb		30 a	65 b	21 ab	85 a	20 a	32 b	6 b
2 Telone II 12 G Pic 150 lb Vapam 75 G		23 a	62 b	20 b	95 a	22 a	55 a	11 a
3 Pic 150 lb Vapam 75 G		27 a	71 ab	22 ab	95 a	22 a	41 ab	7 b
4 Telone II 12 G Vapam 75 G		31 a	88 a	27 a	93 a	22 a	33 b	6 b
LSD (P=.05)		16.3	21.0	6.1	28.2	7.6	17.3	3.1
Standard Deviation		8.2	10.5	3.1	14.1	3.8	8.7	1.6
CV		29.6	14.67	13.75	15.3	17.63	21.51	21.19
Bartlett's X2		1.932	3.914	6.257	4.119	7.102	4.121	1.419
P(Bartlett's X2)		0.587	0.271	0.10	0.249	0.069	0.249	0.701

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

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Weed Code	harv 1	harv 1	harv 1	har1	har1
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES
Part Rated	exsmal	cull	cull	all	all
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb
Rating Unit	fruit	fruit	fruit	fruit	fruit
Rating Date	Jun-05-06	Jun-05-06	Jun-05-06	Jun-05-06	Jun-05-06
Assessed By	Ex-Small	Cull	Cull	all	all
Trt-Eval Interval	89 DA-A	89 DA-A	89 DA-A	89 DA-A	89 DA-A
ARM Action Codes				T2	T3
Trt No.	71	72	73	74	75
Treatment Name					
Rate					
Unit					
1 MB 400 lb	10 a	8 b	2 b	343 a	86 a
2 Telone II 12 G Pic 150 lb Vapam 75 G	14 a	22 a	6 a	383 a	90 a
3 Pic 150 lb Vapam 75 G	9 a	18 ab	4 ab	350 a	86 a
4 Telone II 12 G Vapam 75 G	10 a	17 ab	5 a	370 a	96 a
LSD (P=.05)	6.9	9.5	2.7	74.9	20.1
Standard Deviation	3.5	4.7	1.4	37.5	10.1
CV	32.64	29.23	31.74	10.37	11.26
Bartlett's X2	0.21	3.042	0.369	5.922	8.005
P(Bartlett's X2)	0.976	0.385	0.947	0.115	0.046*

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

Column 74: T2 = [C62]+[C64]+[C66]+[C68]+[C70]

Column 75: T3 = [C63]+[C65]+[C67]+[C69]+[C71]

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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: 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:	74 F
% Relative Humidity:	33
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	70 F
Soil Moisture:	moist
% Cloud Cover:	26

CROP STAGE AT EACH APPLICATION

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

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WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	CYPES preplant
Stage Scale:	not up
Density, Unit:	. .
Weed 2 Code, Stage:	AMAPA preplant
Stage Scale:	not up
Density, Unit:	. .
Weed 3 Code, Stage:	PORPI preplant
Stage Scale:	not up
Density, Unit:	. .

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