

University of Georgia

Evaluating methyl bromide alternatives in large acreage on farm trials.

Trial ID: Veg41-06

Study Dir.: Martin Flora

Location: Southern Valley (E7)

Investigator: Stanley Culpepper

Weed Code	CYPZZ	CYPZZ	IPOLA	IPOLA	PORPI	CASOB	plant 1 CSPAN	plant 2 CSPAN	plant 3 CSPAN
Crop Code							ht	ht	ht
Rating Data Type	ct	ct	ct	ct	ct	ct	cm	cm	cm
Rating Unit	#/plot	#/plot	#/plot	#/plot	#/plot	#/plot			
Rating Date	Mar-22-06	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06	Apr-12-06	Apr-12-06	Apr-12-06
Trt-Eval Interval	48 DA-A	70 DA-A	70 DA-A	70 DA-A	70 DA-A	70 DA-A	69 DA-A	69 DA-A	69 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	0 a	0 a	0 a	0 a	0 a	15 a	12 b	15 a
2	Telone II 12 G Pic 150 lb Vapam 75 G	0 a	0 a	0 a	0 a	0 a	14 a	15 a	15 a
LSD (P=.05)	0.0	0.0	0.0	0.6	0.6	0.6	4.1	2.9	2.4
Standard Deviation	0.0	0.0	0.0	0.3	0.3	0.3	2.3	1.7	1.4
CV	0.0	0.0	0.0	316.23	316.23	316.23	15.92	12.47	9.25
Bartlett's X2	0.0	0.0	0.0	0.0	0.0	0.0	0.46	2.271	0.038
P(Bartlett's X2)	0.498	0.132	0.846

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

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Weed Code	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	plant 11	plant 12			
Crop Code	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN			
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	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A			
ARM Action Codes												
Trt No.	Treatment Name	Rate	Unit	10	11	12	13	14	15	16	17	18
1	MB 400			17 a	13 a	14 a	15 a	17 a	15 a	12 a	15 a	14 a
2	Telone II 12 G Pic 150 lb Vapam 75 G			14 a	15 a	13 a	15 a	12 b	13 a	15 a	35 a	12 a
LSD (P=.05)				7.9	3.9	4.1	5.1	5.0	5.0	7.0	57.3	3.2
Standard Deviation				4.5	2.2	2.3	2.9	2.9	2.9	4.0	32.6	1.8
CV				29.62	15.59	17.09	19.68	19.55	20.25	29.5	131.57	13.87
Bartlett's X2				4.586	2.102	2.301	0.113	0.754	0.598	1.219	22.012	0.059
P(Bartlett's X2)				0.032*	0.147	0.129	0.737	0.385	0.439	0.27	0.001*	0.808

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

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Weed Code	plant 13	plant 14	plant 15	plant 16	plant 17	plant 18	plant 19	plant20	plant 21
Crop Code	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN
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	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A
ARM Action Codes									
Trt No.	19	20	21	22	23	24	25	26	27
Treatment Name									
Rate									
Unit									
1 MB 400	15 a	15 a	15 a	14 a	16 a	16 a	13 a	14 a	14 a
2 Telone II 12 G Pic 150 lb Vapam 75 G	15 a	14 a	15 a	15 a	13 a	15 a	14 a	14 a	13 a
LSD (P=.05)	6.5	3.2	4.2	8.0	3.2	7.9	3.9	3.2	5.2
Standard Deviation	3.7	1.8	2.4	4.5	1.8	4.5	2.2	1.8	3.0
CV	24.49	12.54	15.95	30.67	12.43	28.96	16.43	12.98	22.26
Bartlett's X2	0.859	0.699	0.949	1.478	1.819	0.911	0.063	1.401	0.131
P(Bartlett's X2)	0.354	0.403	0.33	0.224	0.177	0.34	0.801	0.237	0.718

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

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Weed Code	plant 22	plant 23	plant 24	plant 25	plant 26	plant 27	plant 28	plant 29	plant 30			
Crop Code	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN			
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	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A			
ARM Action Codes												
Trt No.	Treatment Name	Rate	Unit	28	29	30	31	32	33	34	35	36
1	MB 400			14 a	13 a	15 a	12 a	12 a	13 a	14 a	15 a	13 a
2	Telone II 12 G Pic 150 lb Vapam 75 G			14 a	14 a	13 a	15 a	13 a	13 a	14 a	15 a	13 a
LSD (P=.05)				5.0	5.7	3.0	4.2	4.7	4.5	2.3	4.6	6.2
Standard Deviation				2.9	3.3	1.7	2.4	2.7	2.6	1.3	2.6	3.5
CV				20.25	23.94	12.08	17.87	21.56	19.54	9.31	17.63	27.3
Bartlett's X2				0.523	0.641	0.117	0.916	0.328	2.592	1.367	0.132	6.98
P(Bartlett's X2)				0.47	0.423	0.732	0.339	0.567	0.107	0.242	0.716	0.008*

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

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Weed Code	plant 31	plant 32	plant 33	plant 34	plant 35	plant 36	plant 37	plant 38	plant 39
Crop Code	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN	CSPAN
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	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A
ARM Action Codes									
Trt No.	37	38	39	40	41	42	43	44	45
Treatment Name									
Rate									
Unit									
1 MB 400	15 a	16 a	15 a	14 a	16 a	15 a	13 a	14 a	13 a
2 Telone II 12 G Pic 150 lb Vapam 75 G	12 a	13 a	15 a	16 a	12 a	16 a	15 a	12 a	14 a
LSD (P=.05)	8.5	3.0	4.5	3.1	7.6	4.2	3.6	3.7	3.3
Standard Deviation	4.9	1.7	2.6	1.8	4.3	2.4	2.0	2.1	1.9
CV	36.56	11.66	17.31	11.75	30.41	15.91	14.45	16.26	14.07
Bartlett's X2	0.801	2.289	0.298	1.91	0.022	0.61	0.178	2.631	1.763
P(Bartlett's X2)	0.371	0.13	0.585	0.167	0.883	0.435	0.673	0.105	0.184

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

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Weed Code	plant 40	Avg.40pl
Crop Code	CSPAN	CSPAN
Rating Data Type	ht	ht
Rating Unit	cm	cm
Rating Date	Apr-12-06	Apr-12-06
Trt-Eval Interval	69 DA-A	69 DA-A
ARM Action Codes		T1
Trt No.		
Treatment Name		
Rate		
Unit		
1 MB 400	14 a	14 a
2 Telone II 12 G Pic 150 lb Vapam 75 G	12 a	14 a
LSD (P=.05)	5.5	2.1
Standard Deviation	3.1	1.2
CV	23.71	8.51
Bartlett's X2	1.219	2.717
P(Bartlett's X2)	0.27	0.099

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

Column 47: T1 = @AVG([C7],[C46])

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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

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: .

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A
Application Date:	Feb-02-06
Time of Day:	all day
Application Method:	in bed
Application Timing:	preplant
Applic. Placement:	in bed
Air Temp., Unit:	60 F
% Relative Humidity:	48
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	58 F
Soil Moisture:	moist
% Cloud Cover:	25

CROP STAGE AT EACH APPLICATION

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

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WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	CYPZZ preplant
Stage Scale:	not up
Density, Unit:	. .
Weed 2 Code, Stage:	IPOLA preplant
Stage Scale:	not up
Density, Unit:	. .
Weed 3 Code, Stage:	PORPI preplant
Stage Scale:	not up
Density, Unit:	. .
Weed 4 Code, Stage:	CASOB preplant
Stage Scale:	not up
Density, Unit:	. .

APPLICATION EQUIPMENT

	A
Appl. Equipment:	see
Operating Pressure:	comment
Nozzle Type:	section
Nozzle Size:	
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