



# University of Georgia

**Comparing Telone/Vapam plus a reduced rate of chloropicrin to methyl bromide  
in large acreage on farm trials.**

Trial ID: Veg46-06

Study Dir.: Martin Flora

Location: Southern Valley (A3)

Investigator: Stanley Culpepper

Weed Code	CYPZZ	CYPZZ	IPOLA	IPOLA	IPOLA	IAQTA	IAQTA	IAQTA			
Crop Code											
Rating Data Type	ct	ct	ct	ct	ct	ct	ct	ct			
Rating Unit	#/plot	#/plot	#/plot	#/plot	#/plot	#/plot	#/plot	#/plot			
Rating Date	Apr-12-06	Sep-07-06	Mar-22-06	Apr-12-06	Sep-07-06	Mar-22-06	Apr-12-06	Sep-07-06			
Trt-Eval Interval	69 DA-A	217 DA-A	48 DA-A	69 DA-A	217 DA-A	48 DA-A	69 DA-A	217 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7	8
1	Methyl bromide 400 lb	0	a	0 a	0 a	0 a	2 a	19 a	0 a	2 a	0 a
2	Telone 12 G Chloropicrn 75 lb Vapam 66 G	0	a	0 a	0 a	0 a	6 a	27 a	0 a	3 a	2 a
LSD (P=.05)		1.4		1.4	1.4	1.4	8.7	18.6	1.4	6.6	5.7
Standard Deviation		0.4		0.4	0.4	0.4	2.5	5.3	0.4	1.9	1.6
CV		244.95		244.95	244.95	244.95	59.6	23.07	244.95	86.35	163.3
Bartlett's X2		0.0		0.0	0.0	0.0	1.338	0.764	0.0	3.397	2.359
P(Bartlett's X2)		.		.	.	.	0.247	0.382	.	0.065	0.125

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

## University of Georgia

Weed Code	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8			
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	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			
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			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	9	10	11	12	13	14	15	16
1	Methyl bromide 400 lb			22 a	23 a	23 a	24 a	22 a	22 a	23 a	22 a
2	Telone 12 G Chloropicrn 75 lb Vapam 66 G			20 a	21 a	21 a	21 a	21 a	19 a	21 a	21 a
LSD (P=.05)				10.8	6.3	7.5	9.4	6.3	4.3	7.6	5.2
Standard Deviation				3.1	1.8	2.1	2.7	1.8	1.2	2.2	1.5
CV				14.68	8.15	9.5	11.81	8.28	5.88	9.89	6.9
Bartlett's X2				0.137	1.103	0.0	0.511	2.952	0.137	0.511	0.037
P(Bartlett's X2)				0.711	0.294	1.00	0.475	0.086	0.711	0.475	0.848

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

## University of Georgia

Weed Code	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			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	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			
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			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	17	18	19	20	21	22	23	24
1	Methyl bromide 400 lb			24 a	24 a	22 a	25 a	24 a	25 a	23 a	25 a
2	Telone 12 G Chloropicrn 75 lb Vapam 66 G			20 a	21 a	23 a	21 a	21 a	21 a	22 a	21 a
LSD (P=.05)		9.0		4.3	5.0	11.7	3.8	6.6	13.7	6.6	
Standard Deviation		2.5		1.2	1.4	3.3	1.1	1.9	3.9	1.9	
CV		11.59		5.53	6.19	14.63	4.77	8.25	17.31	8.25	
Bartlett's X2		1.338		0.793	0.793	0.992	0.881	0.064	0.971	0.426	
P(Bartlett's X2)		0.247		0.373	0.373	0.319	0.348	0.801	0.325	0.514	

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

## University of Georgia

Weed Code	plant 17	plant 18	plant 19	plant 20	plant 21	plant 22	plant 23	plant 24			
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	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			
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			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	25	26	27	28	29	30	31	32
1	Methyl bromide 400 lb			23 a	23 a	23 a	25 a	24 a	26 a	24 a	24 a
2	Telone 12 G Chloropicrn 75 lb Vapam 66 G			19 a	20 a	21 a	20 a	20 a	19 b	19 a	18 b
LSD (P=.05)				13.7	12.5	12.5	8.7	4.3	6.3	9.0	5.0
Standard Deviation				3.9	3.6	3.6	2.5	1.2	1.8	2.5	1.4
CV				18.54	16.43	16.06	11.04	5.65	7.91	11.86	6.63
Bartlett's X2				0.034	0.004	0.31	0.168	0.255	0.191	0.31	0.793
P(Bartlett's X2)				0.853	0.947	0.578	0.682	0.613	0.662	0.578	0.373

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

## University of Georgia

Weed Code	plant 25	plant 26	plant27	plant 28	plant 29	plant 30	plant 31	plant 32								
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN								
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht								
Rating Unit	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								
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								
ARM Action Codes																
Trt No.	Treatment Name	Rate	Unit	33	34	35	36	37	38	39	40					
1	Methyl bromide 400 lb			24 a	24 a	24 a	22 a	22 a	23 a	24 a	23 a					
2	Telone 12 G Chloropicrn 75 lb Vapam 66 G			22 b	22 a	21 a	24 a	21 a	19 a	20 a	23 a					
LSD (P=.05)		1.4		10.3		15.0		9.0		6.6		13.7		5.7		2.9
Standard Deviation		0.4		2.9		4.3		2.5		1.9		3.9		1.6		0.8
CV		1.79		12.71		19.08		11.25		8.7		18.54		7.37		3.55
Bartlett's X2		0.003		2.016		2.392		0.047		0.0		0.008		0.0		0.168
P(Bartlett's X2)		0.957		0.156		0.122		0.828		.		0.931		.		0.682

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

## University of Georgia

Weed Code	plant 33	plant 34	plant 35	plant 36	plant 37	plant 38	plant 39	plant 40			
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	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			
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			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	41	42	43	44	45	46	47	48
1	Methyl bromide 400 lb			23 a	24 a	23 a	22 a	23 a	21 a	23 a	23 a
2	Telone 12 G Chloropicrn 75 lb Vapam 66 G			21 a	21 b	21 a	21 a	21 a	21 a	22 a	21 a
LSD (P=.05)		6.6		2.5	5.2	1.4	11.4	13.8	7.5	9.0	
Standard Deviation		1.9		0.7	1.5	0.4	3.2	3.9	2.1	2.5	
CV		8.63		3.1	6.74	1.88	14.51	18.45	9.29	11.59	
Bartlett's X2		2.952		0.168	0.511	0.003	0.664	0.731	1.607	1.103	
P(Bartlett's X2)		0.086		0.682	0.475	0.957	0.415	0.393	0.205	0.294	

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

# University of Georgia

Weed Code	Avg40pla
Crop Code	CPSAN
Rating Data Type	ht
Rating Unit	cm
Rating Date	Apr-12-06
Trt-Eval Interval	69 DA-A
ARM Action Codes	T1
Trt Treatment	Rate
No. Name	Rate Unit
49	
1 Methyl bromide 400 lb	23 a
2 Telone 12 G Chloropicrn 75 lb Vapam 66 G	21 a
LSD (P=.05)	5.9
Standard Deviation	1.7
CV	7.61
Bartlett's X2	0.482
P(Bartlett's X2)	0.487

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

Column 49: T1 = @AVG([C9].[C48])

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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-02-06
Time of Day:	10 am
Application Method:	broadcast
Application Timing:	preplant
Applic. Placement:	in bed
Air Temp., Unit:	68 F
% Relative Humidity:	44
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	61 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:	

# University of Georgia

## 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:	IAQTA preplant
Stage Scale:	not up
Density, Unit:	

## APPLICATION EQUIPMENT

	A
Appl. Equipment:	see
Operating Pressure:	comments
Nozzle Type:	
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