

University of Georgia

Evaluating methyl bromide alternatives in large acreage on farm trials.

Trial ID: Veg47-06
Location: LTF (pepper)

Study Dir.: Bill Brim
Investigator: Stanley Culpepper

Reps: 3 Plots: 15 by 300 feet
Spray vol: 14.8 gal/ac Mix size: 1 liters (min 17.363)

| Trt No. | Treatment Name | Form Conc | Form Unit | Form Type | Form Rate | Rate Unit | Grow Stg | Appl Code | Amt to Measure | Product | Plot No. 1 | Plot No. 2 | By Rep 3 |
|---------|--|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------------|---------|------------|------------|----------|
| 1 | MB 400 lb | | | | | | | | | | 101 | 201 | 301 |
| 2 | Telone II 12 G Pic 150 lb Vapam 75 G | | | | | | | | | | 102 | 202 | 302 |
| 3 | Pic 150 lb Vapam 75 G | | | | | | | | | | 103 | 203 | 303 |
| 4 | Telone II 12 G Vapam 75 G | | | | | | | | | | 104 | 204 | 304 |

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

| Amount* | Unit | Treatment Name | Form Conc | Form Type | Lot Code |
|---------|------|----------------|-----------|-----------|----------|
|---------|------|----------------|-----------|-----------|----------|

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Compare four fumigant systems for crop growth.

SPRING PEPPER CROP:

1. No differences in plant growth were noted.

FALL CUCUMBER CROP:

1. No differences in plant growth were noted.

GENERAL COMMENTS:

1. MB and chloropicrin were applied with the super bedder plastic layer injecting the fumigant 8 inches deep with 3 knives on a 32 inch bedtop. Vapam was injected 4 inches deep into the final bed with the injection knives 4 inches apart. Telone II was injected 10-12 inches deep with a Yetter applicator.

University of Georgia

Evaluating methyl bromide alternatives in large acreage on farm trials.

Trial ID: Veg47-06

Study Dir.: Bill Brim

Location: LTF (pepper)

Investigator: Stanley Culpepper

| Weed Code | plant 1 | plant 2 | plant 3 | plant 4 | plant 5 | plant 6 | plant 7 | plant 8 | plant 9 | |
|--------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| 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-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 | 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 | 33 a | 32 a | 32 a | 33 a | 34 a | 30 a | 33 a | 31 a | 33 a |
| 2 | Telone II 12 G Pic 150 lb Vapam 75 G | 25 a | 25 ab | 27 a | 30 a | 26 a | 26 a | 27 a | 26 a | 30 a |
| 3 | Pic 150 lb Vapam 75 G | 25 a | 21 b | 30 a | 27 a | 29 a | 28 a | 28 a | 29 a | 29 a |
| 4 | Telone II 12 G Vapam 75 G | 31 a | 30 ab | 30 a | 29 a | 27 a | 32 a | 30 a | 28 a | 29 a |
| LSD (P=.05) | | 9.9 | 9.5 | 13.9 | 11.5 | 14.9 | 13.3 | 13.6 | 14.0 | 9.8 |
| Standard Deviation | | 4.9 | 4.8 | 6.9 | 5.8 | 7.5 | 6.6 | 6.8 | 7.0 | 4.9 |
| CV | | 17.29 | 17.57 | 23.34 | 19.27 | 25.63 | 22.98 | 22.97 | 24.57 | 16.24 |
| Bartlett's X2 | | 5.545 | 6.557 | 0.554 | 0.176 | 0.353 | 1.336 | 1.514 | 1.077 | 2.529 |
| P(Bartlett's X2) | | 0.136 | 0.087 | 0.907 | 0.981 | 0.95 | 0.72 | 0.679 | 0.783 | 0.47 |

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

University of Georgia

| Weed Code | plant 10 | plant 11 | plant 12 | plant13 | plant 14 | plant 15 | plant 16 | plant 17 | plant 18 | | | |
|--------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|-------|-------|
| 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-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 | | | 31 a | 32 a | 34 a | 32 a | 29 a | 31 a | 36 a | 34 a | 32 a |
| 2 | Telone II 12 G Pic 150 lb Vapam 75 G | | | 27 a | 26 a | 31 a | 26 a | 26 a | 27 a | 28 a | 27 a | 27 a |
| 3 | Pic 150 lb Vapam 75 G | | | 27 a | 30 a | 27 a | 28 a | 27 a | 28 a | 27 a | 25 a | 27 a |
| 4 | Telone II 12 G Vapam 75 G | | | 30 a | 33 a | 30 a | 30 a | 31 a | 31 a | 31 a | 29 a | 28 a |
| LSD (P=.05) | | | | 14.5 | 9.2 | 11.7 | 13.7 | 14.7 | 12.0 | 11.1 | 10.4 | 10.6 |
| Standard Deviation | | | | 7.2 | 4.6 | 5.8 | 6.9 | 7.4 | 6.0 | 5.5 | 5.2 | 5.3 |
| CV | | | | 25.17 | 15.24 | 19.25 | 23.79 | 26.33 | 20.71 | 18.2 | 18.0 | 18.6 |
| Bartlett's X2 | | | | 2.134 | 2.56 | 0.505 | 1.461 | 0.161 | 0.891 | 2.529 | 2.908 | 1.101 |
| P(Bartlett's X2) | | | | 0.545 | 0.465 | 0.918 | 0.691 | 0.984 | 0.828 | 0.47 | 0.406 | 0.777 |

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

University of Georgia

| Weed Code | plant 19 | plant 20 | plant 21 | plant 22 | plant 23 | plant 24 | plant 25 | plant 26 | plant 27 | | | |
|--------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|-------|-------|
| 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-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 | | | 29 a | 31 a | 31 a | 27 a | 29 a | 32 a | 35 a | 33 a | 31 a |
| 2 | Telone II 12 G Pic 150 lb Vapam 75 G | | | 29 a | 28 ab | 29 a | 31 a | 26 a | 29 a | 29 ab | 21 b | 27 a |
| 3 | Pic 150 lb Vapam 75 G | | | 27 a | 24 b | 29 a | 28 a | 30 a | 29 a | 26 b | 27 ab | 27 a |
| 4 | Telone II 12 G Vapam 75 G | | | 29 a | 29 ab | 26 a | 33 a | 32 a | 29 a | 28 ab | 32 ab | 29 a |
| LSD (P=.05) | | | | 6.7 | 6.8 | 8.1 | 10.1 | 13.7 | 12.2 | 8.8 | 10.6 | 9.5 |
| Standard Deviation | | | | 3.3 | 3.4 | 4.1 | 5.1 | 6.9 | 6.1 | 4.4 | 5.3 | 4.7 |
| CV | | | | 11.68 | 12.18 | 14.12 | 17.01 | 23.45 | 20.54 | 14.94 | 18.83 | 16.76 |
| Bartlett's X2 | | | | 0.638 | 1.583 | 0.73 | 1.958 | 2.537 | 0.333 | 6.364 | 6.609 | 1.03 |
| P(Bartlett's X2) | | | | 0.888 | 0.663 | 0.866 | 0.581 | 0.469 | 0.954 | 0.095 | 0.085 | 0.794 |

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

University of Georgia

| Weed Code | plant 28 | plant 29 | plant 30 | plant 31 | plant 32 | plant 33 | plant 34 | plant 35 | plant 36 | | | |
|--------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|-------|-------|
| 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-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 | | | 31 a | 28 a | 31 a | 34 a | 32 a | 32 a | 27 a | 32 a | 23 a |
| 2 | Telone II 12 G Pic 150 lb Vapam 75 G | | | 30 a | 29 a | 30 a | 27 a | 29 a | 29 a | 31 a | 28 a | 29 a |
| 3 | Pic 150 lb Vapam 75 G | | | 28 a | 27 a | 30 a | 27 a | 29 a | 29 a | 29 a | 26 a | 26 a |
| 4 | Telone II 12 G Vapam 75 G | | | 32 a | 29 a | 26 a | 31 a | 29 a | 32 a | 32 a | 33 a | 32 a |
| LSD (P=.05) | | | | 9.0 | 10.6 | 6.0 | 8.0 | 8.1 | 8.3 | 8.8 | 9.5 | 14.6 |
| Standard Deviation | | | | 4.5 | 5.3 | 3.0 | 4.0 | 4.0 | 4.2 | 4.4 | 4.8 | 7.3 |
| CV | | | | 15.04 | 18.93 | 10.29 | 13.5 | 13.47 | 13.73 | 14.77 | 16.1 | 26.45 |
| Bartlett's X2 | | | | 2.886 | 1.853 | 0.748 | 2.129 | 1.462 | 4.169 | 2.041 | 2.752 | 1.598 |
| P(Bartlett's X2) | | | | 0.41 | 0.603 | 0.862 | 0.546 | 0.691 | 0.244 | 0.564 | 0.431 | 0.66 |

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

University of Georgia

| Weed Code | plant 37 | plant 38 | plant 39 | plant 40 | Avg40pla | plant 1 | plant 2 | plant 3 | |
|--------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CUMSA | CUMSA | CUMSA | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | 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 | Sep-07-06 | Sep-07-06 | Sep-07-06 | |
| Trt-Eval Interval | 50 DA-A | 50 DA-A | 50 DA-A | 50 DA-A | 50 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | |
| ARM Action Codes | | | | | T1 | | | | |
| Trt No. | Treatment Name | Rate | Rate | Rate | Rate | Rate | Rate | Rate | |
| Unit | Unit | Unit | Unit | Unit | Unit | Unit | Unit | Unit | |
| | | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 |
| 1 | MB 400 lb | 32 a | 32 a | 31 a | 33 a | 31 a | 21 a | 12 a | 17 a |
| 2 | Telone II 12 G Pic 150 lb Vapam 75 G | 26 a | 28 a | 29 a | 28 ab | 28 a | 14 b | 18 a | 17 a |
| 3 | Pic 150 lb Vapam 75 G | 25 a | 27 a | 24 a | 27 b | 27 a | 13 b | 14 a | 13 a |
| 4 | Telone II 12 G Vapam 75 G | 34 a | 30 a | 29 a | 29 ab | 30 a | 15 b | 13 a | 15 a |
| LSD (P=.05) | | 10.2 | 11.0 | 7.3 | 5.8 | 8.5 | 5.0 | 11.1 | 6.8 |
| Standard Deviation | | 5.1 | 5.5 | 3.6 | 2.9 | 4.3 | 2.5 | 5.6 | 3.4 |
| CV | | 17.44 | 18.73 | 12.87 | 9.99 | 14.7 | 15.94 | 38.83 | 21.97 |
| Bartlett's X2 | | 1.516 | 0.596 | 5.236 | 2.627 | 0.473 | 1.292 | 6.584 | 4.435 |
| P(Bartlett's X2) | | 0.679 | 0.897 | 0.155 | 0.453 | 0.925 | 0.731 | 0.086 | 0.218 |

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

Column 41: T1 = @AVG([C1],[C40])

University of Georgia

| Weed Code | plant 4 | plant 5 | plant 6 | plant 7 | plant 8 | plant 9 | plant 10 | plant 11 | |
|--------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | |
| Trt-Eval Interval | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Rate | Rate | Rate | Rate | Rate | Rate | |
| | | Unit | Unit | Unit | Unit | Unit | Unit | Unit | |
| | | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 |
| 1 | MB 400 lb | 16 a | 14 a | 14 a | 17 a | 16 a | 13 a | 17 a | 16 a |
| 2 | Telone II 12 G Pic 150 lb Vapam 75 G | 17 a | 16 a | 17 a | 14 a | 17 a | 16 a | 18 a | 16 a |
| 3 | Pic 150 lb Vapam 75 G | 11 a | 14 a | 15 a | 14 a | 16 a | 15 a | 15 a | 12 a |
| 4 | Telone II 12 G Vapam 75 G | 15 a | 14 a | 14 a | 13 a | 14 a | 14 a | 17 a | 16 a |
| LSD (P=.05) | | 7.2 | 7.8 | 8.7 | 8.3 | 10.0 | 5.8 | 7.3 | 11.2 |
| Standard Deviation | | 3.6 | 3.9 | 4.3 | 4.2 | 5.0 | 2.9 | 3.7 | 5.6 |
| CV | | 24.66 | 27.4 | 29.07 | 28.86 | 31.66 | 20.27 | 22.09 | 37.51 |
| Bartlett's X2 | | 0.183 | 2.621 | 3.461 | 5.625 | 9.857 | 3.199 | 3.328 | 1.581 |
| P(Bartlett's X2) | | 0.98 | 0.454 | 0.326 | 0.131 | 0.02* | 0.362 | 0.344 | 0.664 |

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

University of Georgia

| Weed Code | plant 12 | plant 13 | plant 14 | plant 15 | plant 16 | plant 17 | plant 18 | plant 19 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Crop Code | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm |
| Rating Date | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 |
| Trt-Eval Interval | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A |
| ARM Action Codes | | | | | | | | |
| Trt No. | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| Treatment Name | | | | | | | | |
| Rate | | | | | | | | |
| Unit | | | | | | | | |
| 1 MB 400 lb | 12 a | 14 a | 15 a | 14 a | 17 a | 19 a | 11 a | 18 a |
| 2 Telone II 12 G Pic 150 lb Vapam 75 G | 17 a | 16 a | 17 a | 17 a | 15 a | 13 a | 15 a | 17 a |
| 3 Pic 150 lb Vapam 75 G | 13 a | 14 a | 13 a | 13 a | 12 a | 13 a | 14 a | 11 a |
| 4 Telone II 12 G Vapam 75 G | 17 a | 16 a | 14 a | 12 a | 12 a | 16 a | 15 a | 14 a |
| LSD (P=.05) | 8.4 | 7.4 | 6.1 | 6.6 | 6.6 | 6.5 | 7.1 | 11.1 |
| Standard Deviation | 4.2 | 3.7 | 3.0 | 3.3 | 3.3 | 3.3 | 3.6 | 5.6 |
| CV | 28.25 | 24.76 | 20.33 | 23.26 | 23.14 | 21.44 | 25.66 | 37.28 |
| Bartlett's X2 | 2.002 | 3.308 | 4.779 | 3.314 | 4.33 | 12.725 | 2.797 | 3.985 |
| P(Bartlett's X2) | 0.572 | 0.347 | 0.189 | 0.346 | 0.228 | 0.005* | 0.424 | 0.263 |

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

University of Georgia

| Weed Code | plant 20 | plant 21 | plant 22 | plant 23 | plant 24 | plant 25 | plant 26 | plant 27 | | | |
|--------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|-------|-------|
| Crop Code | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | | | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | | | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | | | |
| Rating Date | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | | | |
| Trt-Eval Interval | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | | | |
| ARM Action Codes | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 |
| 1 | MB 400 lb | | | 15 a | 16 a | 15 a | 19 a | 19 a | 13 a | 17 a | 19 a |
| 2 | Telone II 12 G Pic 150 lb Vapam 75 G | | | 17 a | 15 a | 12 a | 15 b | 14 ab | 14 a | 16 a | 16 a |
| 3 | Pic 150 lb Vapam 75 G | | | 12 a | 14 a | 12 a | 13 b | 13 b | 13 a | 15 a | 14 a |
| 4 | Telone II 12 G Vapam 75 G | | | 16 a | 15 a | 15 a | 15 b | 18 ab | 16 a | 18 a | 16 a |
| LSD (P=.05) | | | | 5.1 | 5.3 | 5.8 | 3.5 | 5.4 | 5.3 | 4.7 | 5.3 |
| Standard Deviation | | | | 2.5 | 2.7 | 2.9 | 1.8 | 2.7 | 2.7 | 2.4 | 2.7 |
| CV | | | | 17.06 | 17.91 | 21.56 | 11.51 | 16.89 | 18.71 | 14.28 | 16.44 |
| Bartlett's X2 | | | | 3.211 | 5.626 | 4.251 | 3.57 | 4.134 | 5.0 | 3.268 | 4.47 |
| P(Bartlett's X2) | | | | 0.36 | 0.131 | 0.236 | 0.312 | 0.247 | 0.172 | 0.352 | 0.215 |

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

University of Georgia

| Weed Code | plant 28 | plant 29 | plant 30 | plant 31 | plant 32 | plant 33 | plant 34 | plant 35 | | | |
|--------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|-------|-------|
| Crop Code | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | | | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | | | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | | | |
| Rating Date | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | | | |
| Trt-Eval Interval | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | | | |
| ARM Action Codes | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 |
| 1 | MB 400 lb | | | 15 a | 20 a | 16 a | 14 a | 18 a | 17 a | 15 a | 19 a |
| 2 | Telone II 12 G Pic 150 lb Vapam 75 G | | | 13 a | 13 b | 14 a | 16 a | 16 a | 13 a | 16 a | 14 b |
| 3 | Pic 150 lb Vapam 75 G | | | 16 a | 15 ab | 14 a | 13 a | 17 a | 14 a | 12 a | 14 b |
| 4 | Telone II 12 G Vapam 75 G | | | 18 a | 14 b | 15 a | 14 a | 13 a | 10 a | 15 a | 15 b |
| LSD (P=.05) | | | | 6.3 | 5.4 | 5.3 | 4.6 | 5.6 | 7.3 | 9.3 | 3.7 |
| Standard Deviation | | | | 3.1 | 2.7 | 2.7 | 2.3 | 2.8 | 3.6 | 4.6 | 1.9 |
| CV | | | | 20.48 | 17.25 | 18.29 | 16.27 | 17.65 | 26.77 | 31.77 | 12.1 |
| Bartlett's X2 | | | | 2.642 | 3.299 | 3.744 | 0.367 | 1.086 | 3.882 | 2.5 | 4.587 |
| P(Bartlett's X2) | | | | 0.45 | 0.348 | 0.29 | 0.947 | 0.78 | 0.275 | 0.475 | 0.205 |

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

University of Georgia

| | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Weed Code | plant 36 | plant 37 | plant 38 | plant 39 | plant 40 | Avg.40pl |
| Crop Code | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA |
| Rating Data Type | ht | ht | ht | ht | ht | ht |
| Rating Unit | cm | cm | cm | cm | cm | cm |
| Rating Date | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 | Sep-07-06 |
| Trt-Eval Interval | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A | 183 DA-A |
| ARM Action Codes | | | | | | T2 |
| Trt No. | 77 | 78 | 79 | 80 | 81 | 82 |
| Treatment Name | | | | | | |
| Rate | | | | | | |
| Unit | | | | | | |
| 1 MB 400 lb | 17 a | 19 a | 20 a | 18 a | 20 a | 16 a |
| 2 Telone II 12 G Pic 150 lb Vapam 75 G | 14 a | 18 a | 15 b | 17 a | 15 a | 15 a |
| 3 Pic 150 lb Vapam 75 G | 13 a | 13 a | 10 c | 14 a | 13 a | 13 a |
| 4 Telone II 12 G Vapam 75 G | 17 a | 15 a | 14 b | 15 a | 16 a | 15 a |
| LSD (P=.05) | 4.5 | 8.9 | 4.0 | 9.2 | 8.8 | 4.3 |
| Standard Deviation | 2.2 | 4.4 | 2.0 | 4.6 | 4.4 | 2.2 |
| CV | 14.74 | 27.27 | 13.49 | 28.51 | 27.5 | 14.4 |
| Bartlett's X2 | 2.606 | 5.311 | 0.141 | 0.53 | 4.048 | 5.638 |
| P(Bartlett's X2) | 0.456 | 0.15 | 0.986 | 0.912 | 0.256 | 0.131 |

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

Column 82: T2 = @AVG([C42].[C81])

University of Georgia

Evaluating methyl bromide alternatives in large acreage on farm trials.

Trial ID: Veg47-06 Study Dir.: Bill Brim
Location: LTF (pepper) Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Bill Brim **Title:** Owner
Affiliation: Lewis Taylor Farms
Postal Code: _____
Investigator: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794

TRIAL LOCATION

City: TyTy **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** good
Postal Code: 31794 **Initiation Date:** Mar-08-06
Country: USA **Planned Completion Date:** _____
E-Longitude of LL Corner °: _____ **N-Latitude of LL Corner °:** _____
Altitude of LL Corner: _____ **Unit:** _____ **Angle y-axis to North °:** _____
Directions:

COOPERATOR/LANDOWNER

Cooperator: _____ **Country:** _____
Org: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N
Guidelines: _____ **Guideline Description:** _____

Objective:

Conclusions:

CROP AND WEED DESCRIPTION

| Weed | Code | Common Name | Scientific Name |
|------|-------|--------------------------|-----------------|
| 1. | CYPZZ | nutsedge species | |
| 2. | IPOLA | pitted morningglory | |
| 3. | IAQTA | smallflower morningglory | |

Crop 1: CPSAN bell pepper **Variety:** Heritage
Planting Date: Mar-08-06 **Planting Method:** transplant
Rate: 1 ft **Depth:** 1 in **Perennial Age:** _____
Row Spacing: 15 inch **Spacing Within Row:** 12 inch **Seed Bed:** raised/mulch
Soil Temperature: _____ **Soil Moisture:** drip **Emergence Date:** _____

Crop 2: CUMSA cucumber **Variety:** Thunder
Planting Date: Aug-15-06 **Planting Method:** transplant
Rate: 1 ft **Depth:** 1 in **Perennial Age:** _____
Row Spacing: 5 feet **Spacing Within Row:** 12 inch **Seed Bed:** raised/mulch
Soil Temperature: _____ **Soil Moisture:** drip **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 15 FT **Plot Length, Unit:** 300 FT **Reps:** 3
Site Type: Lewis Taylor Farms
Tillage Type: Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

University of Georgia

Trial Initiation Comments:

| | Previous Crops | Previous Pesticides | Year |
|----|----------------|---------------------|------|
| 1. | | | |

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

| | Date | Time | Amount | Unit | Type | Interval | Unit |
|----|------|------|--------|------|------|----------|------|
| 1. | | | | | | | |

Overall Moisture Conditions: _____

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

| | A |
|----------------------|-----------|
| Application Date: | Mar-08-06 |
| Time of Day: | 1 pm |
| Application Method: | band |
| Application Timing: | preplant |
| Applic. Placement: | in bed |
| Air Temp., Unit: | 74 F |
| % Relative Humidity: | 34 |
| Wind Velocity, Unit: | 4 mph |
| Dew Presence (Y/N): | n |
| Water Hardness: | |
| Soil Temp., Unit: | 71 F |
| Soil Moisture: | moist |
| % Cloud Cover: | 21 |

CROP STAGE AT EACH APPLICATION

| | A |
|---------------------|----------------|
| Crop 1 Code, Stage: | CPSAN preplant |
| Stage Scale: | not up |
| Height, Unit: | 0 inch |
| Crop 2 Code, Stage: | CUMSA preplant |
| Stage Scale: | not up |
| Height, Unit: | 0 inch |

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 |
|--------|-------------------------------|
| | |