

# University of Georgia

|   |                                      |  |  |
|---|--------------------------------------|--|--|
| 2007 Large Acreage Replicated On Farm MB Alternative Trial. |                                      |  |  |
| Trial ID: Veg10-07  | Study Dir.: Culpepper, Davis, Hamlin |  |  |
| Location: Coggins Farm                                      | Investigator: Stanley Culpepper      |  |  |

Reps: 4 Plots: 15 by 1200 feet  
 Spray vol: 14.8 gal/ac Mix size: 1 liters (min 92.602)

| Trt No. | Treatment Name   | Form Conc  | Form Unit | Form Type | Rate | Grow Unit | Appl Stg | Amt to Measure | Product Code | Plot No. By Rep |     |     |     |
|---------|--|------------|-----------|-----------|------|-----------|----------|----------------|--------------|-----------------|-----|-----|-----|
|         |  |            |           |           |      |           |          |                |              | 1               | 2   | 3   | 4   |
| 1       | MB 57:43<br>LDPE 1.25 mil mulch  | 366.9 lb/A | BC        |           |      |           |          |                |              | 101             | 202 | 303 | 404 |
| 2       | MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               |            |           |           |      |           |          |                |              | 102             | 204 | 302 | 401 |
| 3       | DMDS 73.6 G/A BC<br>LDPE MULCH   |            |           |           |      |           |          |                |              | 103             | 201 | 304 | 403 |
| 4       | Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch |            |           |           |      |           |          |                |              | 104             | 203 | 301 | 402 |

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: Determine if MIDAS, DMDS, and the 3-way are alternatives to methyl bromide.

#### WEED RESPONSE:

- Nutsedge and livid amaranthus was controlled less effectively by the DMDS treatments as compared to other treatments.
- Treatments controlled pitted morningglory, smallflower morningglory, and pink purslane similarly.

#### PEPPER PLANT NUMBER AND HEIGHTS PER PLOT:

- Treatments did not impact the number of pepper plants per plot (counted the entire plot).
- Pepper heights were taken by measuring 120 plants per plot; treatments did not impact pepper height.

#### PEPPER YIELD:

- The entire plot was harvested and run through the packing line according to normal operations for this location.
- The 3 way produced 24% more jumbo pepper and 53% less large fruit during harvest 1.
- No differences in harvest 2 were noted. There was a trend for less fruit in the DMDS treatment which was likely a response to pigweed infestation.
- Totaling harvest 1 and 2 and compared to MB; 1) The 3-way produced more jumbo fruit and less large fruit; 2) DMDS produced less chopper fruit.

#### NEMATODES:

- No differences in root-knot or stubby-root nematode were noted when taking samples from each plot and sending them to the UGA nematode lab for analysis.

#### GENERAL COMMENTS:

- Individual plots were 0.396 to 0.401 acres of land.
- Trial initiated on Feb 13, 2007. Took 6 hours to put all treatments out. Soil temp at 8 inch was 61 F and 66 F at 4 inch. Soil moisture was 73% at 12 inch and 65% at 8 inch.

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3. Fumigants were applied, beds were formed and mulch was laid within minutes of one another. Telone II 10-12 inches deep with a Yetter applicator. MB, MIDAS, and PIC were applied with a super bedder plastic layer injected 8 inches deep with 3 knives on a 32 inch bedtop. Vapam was injected 4 inches in the final bed. Mulch was laid.
4. On March 16, check beds (3 beds by 60 ft) had 22 nutsedge, 2 crab grass, and 1 carpetweed.
5. On April 4, 2007 check bed had 13 nutsedge, 1 pitted morning glory, 1 pigweed, 2 carpetweed, and 4 crabgrass.
6. On April 19, 2007 check bed had 15 nutsedge, 2 pitted morningglory, 17 purslane, and 83 pigweed.
7. On May 5, 2007 check bed had 11 nutsedge, 5 pitted morningglory, 17 smallflower morningglory, 10 purslane, 1 sicklepod, and 38 pigweed.

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## 2007 Large Acreage Replicated On Farm MB Alternative Trial.

Trial ID: Veg10-07

Study Dir.: Culpepper, Davis, Hamlin

Location: Coggins Farm

Investigator: Stanley Culpepper

| Weed Code          | CYPZZ  | CYPZZ     | CYPZZ     | CYPZZ     | IPOLA     | IPOLA     | IPOLA     |        |
|--------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|--------|
| Crop Code          |  |           |           |           |           |           |           |        |
| Part Rated         |  |           |           |           |           |           |           |        |
| Rating Data Type   | counts   | counts    | counts    | counts    | counts    | counts    | counts    |        |
| Rating Unit        | #/plot   | #/plot    | #/plot    | #/plot    | #/plot    | #/plot    | #/plot    |        |
| Rating Date        | Feb-16-07  | Apr-04-07 | Apr-19-07 | May-07-07 | Apr-04-07 | Apr-19-07 | May-07-07 |        |
| Trt-Eval Interval  | 3 DA-A   | 50 DA-A   | 65 DA-A   | 83 DA-A   | 50 DA-A   | 65 DA-A   | 83 DA-A   |        |
| ARM Action Codes   |  |           |           |           |           |           |           |        |
| Trt No.            | Treatment Name   | Rate      | Rate      | Rate      | Rate      | Rate      | Rate      |        |
|                    |  | Unit      | Unit      | Unit      | Unit      | Unit      | Unit      |        |
|                    |  | 1         | 2         | 3         | 4         | 5         | 6         |        |
|                    |  | 7         |           |           |           |           |           |        |
| 1                  | MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              | 0 b       | 1 b       | 2 b       | 6 b       | 1 a       | 4 a       | 1 a    |
| 2                  | MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               | 1 b       | 2 b       | 3 b       | 5 b       | 1 a       | 0 a       | 1 a    |
| 3                  | DMDS 73.6 G/A BC<br>LDPE MULCH   | 16 a      | 25 a      | 17 a      | 19 a      | 1 a       | 5 a       | 5 a    |
| 4                  | Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch | 1 b       | 2 b       | 3 b       | 5 b       | 0 a       | 4 a       | 3 a    |
| LSD (P=.05)        |  | 8.1       | 6.8       | 5.3       | 7.5       | 1.4       | 6.3       | 5.7    |
| Standard Deviation |  | 5.0       | 4.3       | 3.3       | 4.7       | 0.9       | 3.9       | 3.6    |
| CV                 |  | 118.69    | 58.88     | 52.82     | 53.94     | 117.59    | 137.31    | 146.05 |
| Bartlett's X2      |  | 19.611    | 19.825    | 0.803     | 3.075     | 6.305     | 0.246     | 12.059 |
| P(Bartlett's X2)   |  | 0.001*    | 0.001*    | 0.849     | 0.38      | 0.098     | 0.884     | 0.007* |

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

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| Weed Code          | IAQTA  | IAQTA     | IAQTA     | AMALI     | AMALI     | AMALI     | MOLVE     |
|--------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Crop Code          |  |           |           |           |           |           |           |
| Part Rated         |  |           |           |           |           |           |           |
| Rating Data Type   | counts   | counts    | counts    | counts    | counts    | counts    | counts    |
| Rating Unit        | #/plot   | #/plot    | #/plot    | #/plot    | #/plot    | #/plot    | #/plot    |
| Rating Date        | Apr-04-07  | Apr-19-07 | May-07-07 | Apr-04-07 | Apr-19-07 | May-07-07 | Apr-04-07 |
| Trt-Eval Interval  | 50 DA-A  | 65 DA-A   | 83 DA-A   | 50 DA-A   | 65 DA-A   | 83 DA-A   | 50 DA-A   |
| ARM Action Codes   |  |           |           |           |           |           |           |
| Trt No.            | Treatment Name   | Rate      | Rate      | Rate      | Rate      | Rate      | Rate      |
|                    |  | Unit      | Unit      | Unit      | Unit      | Unit      | Unit      |
|                    |  | 8         | 9         | 10        | 11        | 12        | 13        |
| 1                  | MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              | 0 a       | 0 a       | 5 a       | 1 b       | 1 b       | 4 b       |
| 2                  | MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               | 0 a       | 0 a       | 2 a       | 0 b       | 1 b       | 6 b       |
| 3                  | DMDS 73.6 G/A BC<br>LDPE MULCH   | 0 a       | 0 a       | 6 a       | 5 a       | 68 a      | 88 a      |
| 4                  | Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch | 0 a       | 0 a       | 2 a       | 1 b       | 1 b       | 1 b       |
| LSD (P=.05)        |  | 0.5       | 0.7       | 4.6       | 1.6       | 53.4      | 40.2      |
| Standard Deviation |  | 0.3       | 0.4       | 2.9       | 1.0       | 33.4      | 25.1      |
| CV                 |  | 230.94    | 222.22    | 82.48     | 71.71     | 191.34    | 101.82    |
| Bartlett's X2      |  | 0.0       | 0.0       | 6.433     | 4.75      | 51.576    | 30.636    |
| P(Bartlett's X2)   |  | 0.001*    | 0.001*    | 0.092     | 0.093     | 0.001*    | 0.001*    |

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

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| Weed Code          | MOLVE  | PORPI     | PORPI     | PORPI     | CSPAN<br>Bed 1 | CSPAN<br>Bed 2 | CSPAN<br>Bed 3 |        |
|--------------------|--|-----------|-----------|-----------|----------------|----------------|----------------|--------|
| Crop Code          |  |           |           |           |                |                |                |        |
| Part Rated         |  |           |           |           |                |                |                |        |
| Rating Data Type   | counts   | counts    | counts    | counts    | Plants         | Plants         | Plants         |        |
| Rating Unit        | #/plot   | #/plot    | #/plot    | #/plot    | #/bed          | #/bed          | #/bed          |        |
| Rating Date        | Apr-19-07  | Apr-04-07 | Apr-19-07 | May-07-07 | May-07-07      | May-07-07      | May-07-07      |        |
| Trt-Eval Interval  | 65 DA-A  | 50 DA-A   | 65 DA-A   | 83 DA-A   | 83 DA-A        | 83 DA-A        | 83 DA-A        |        |
| ARM Action Codes   |  |           |           |           |                |                |                |        |
| Trt No.            | Treatment Name   | Rate      | Rate      | Rate      | Rate           | Rate           | Rate           |        |
|                    |  | Unit      | Unit      | Unit      | Unit           | Unit           | Unit           |        |
|                    |  | 15        | 16        | 17        | 18             | 19             | 20             |        |
|                    |  | 21        |           |           |                |                |                |        |
| 1                  | MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              | 0 a       | 2 a       | 4 a       | 3 ab           | 1743 a         | 1870 a         | 1807 a |
| 2                  | MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               | 0 a       | 2 a       | 4 a       | 2 ab           | 1781 a         | 1911 a         | 1741 a |
| 3                  | DMDS 73.6 G/A BC<br>LDPE MULCH   | 0 a       | 3 a       | 5 a       | 5 a            | 1750 a         | 1888 a         | 1813 a |
| 4                  | Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch | 0 a       | 1 a       | 5 a       | 2 b            | 1892 a         | 1899 a         | 1781 a |
| LSD (P=.05)        |  | 0.4       | 3.7       | 7.2       | 2.6            | 181.1          | 114.3          | 137.5  |
| Standard Deviation |  | 0.3       | 2.3       | 4.5       | 1.6            | 113.2          | 71.4           | 85.9   |
| CV                 |  | 400.0     | 126.83    | 97.16     | 56.92          | 6.32           | 3.78           | 4.81   |
| Bartlett's X2      |  | 0.0       | 2.571     | 1.988     | 4.018          | 3.508          | 1.936          | 1.611  |
| P(Bartlett's X2)   |  | .         | 0.463     | 0.575     | 0.26           | 0.32           | 0.586          | 0.657  |

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

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| Weed Code  | CSPAN<br>TOTAL | CSPAN<br>plant 1<br>bed 1 | CSPAN<br>plant 2<br>bed 1 | CSPAN<br>plant 3<br>bed 1 | CSPAN<br>plant 4<br>bed 1 | CSPAN<br>plant 5<br>bed 1 | CSPAN<br>plant 6<br>bed 1 | CSPAN<br>plant 7<br>bed 1 |    |
|--|----------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----|
| Crop Code  |                |                           |                           |                           |                           |                           |                           |                           |    |
| Part Rated   |                |                           |                           |                           |                           |                           |                           |                           |    |
| Rating Data Type   | Plants         | heights                   | heights                   | heights                   | heights                   | heights                   | heights                   | heights                   |    |
| Rating Unit  | #/plot         | cm                        | cm                        | cm                        | cm                        | cm                        | cm                        | cm                        |    |
| Rating Date  | May-07-07      | Apr-19-07                 | Apr-19-07                 | Apr-19-07                 | Apr-19-07                 | Apr-19-07                 | Apr-19-07                 | Apr-19-07                 |    |
| Trt-Eval Interval  | 83 DA-A        | 65 DA-A                   | 65 DA-A                   | 65 DA-A                   | 65 DA-A                   | 65 DA-A                   | 65 DA-A                   | 65 DA-A                   |    |
| ARM Action Codes   | T5             |                           |                           |                           |                           |                           |                           |                           |    |
| Trt Treatment  | Rate           |                           |                           |                           |                           |                           |                           |                           |    |
| No. Name   | Rate Unit      | 22                        | 23                        | 24                        | 25                        | 26                        | 27                        | 28                        | 29 |
| 1 MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              | 5419 a         | 12 a                      | 15 a                      | 12 a                      | 12 a                      | 14 a                      | 16 a                      | 14 a                      |    |
| 2 MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               | 5433 a         | 13 a                      | 7 b                       | 12 a                      | 11 a                      | 15 a                      | 11 a                      | 9 a                       |    |
| 3 DMDS 73.6 G/A BC<br>LDPE MULCH   | 5451 a         | 15 a                      | 15 a                      | 15 a                      | 17 a                      | 16 a                      | 15 a                      | 17 a                      |    |
| 4 Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch | 5571 a         | 15 a                      | 14 ab                     | 14 a                      | 15 a                      | 12 a                      | 15 a                      | 10 a                      |    |
| LSD (P=.05)  | 212.2          | 4.6                       | 7.3                       | 9.7                       | 10.1                      | 7.4                       | 7.5                       | 8.7                       |    |
| Standard Deviation   | 132.7          | 2.9                       | 4.6                       | 6.1                       | 6.3                       | 4.6                       | 4.7                       | 5.4                       |    |
| CV   | 2.43           | 20.85                     | 35.8                      | 45.46                     | 46.51                     | 33.36                     | 33.9                      | 44.03                     |    |
| Bartlett's X2  | 3.296          | 5.101                     | 4.36                      | 3.528                     | 5.538                     | 9.935                     | 5.936                     | 6.894                     |    |
| P(Bartlett's X2)   | 0.348          | 0.165                     | 0.113                     | 0.317                     | 0.136                     | 0.019*                    | 0.115                     | 0.075                     |    |

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

Column 22: T5 = [C19]+[C20]+[C21]

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| Weed Code  | CSPAN<br>plant 8 | CSPAN<br>plant 9 | CSPAN<br>plant 10 | CSPAN<br>plant 11 | CSPAN<br>plant 12 | CSPAN<br>plant 13 | CSPAN<br>plant 14 | CSPAN<br>plant 15 |        |
|--|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------|
| Crop Code  | bed 1            | bed 1            | bed 1             | bed 1             | bed 1             | bed 1             | bed 1             | bed 1             |        |
| Part Rated   | bed 1            | bed 1            | bed 1             | bed 1             | bed 1             | bed 1             | bed 1             | bed 1             |        |
| Rating Data Type   | heights          | heights          | heights           | heights           | heights           | heights           | heights           | heights           |        |
| Rating Unit  | cm               | cm               | cm                | cm                | cm                | cm                | cm                | cm                |        |
| Rating Date  | Apr-19-07        | Apr-19-07        | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         |        |
| Trt-Eval Interval  | 65 DA-A          | 65 DA-A          | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           |        |
| ARM Action Codes   |                  |                  |                   |                   |                   |                   |                   |                   |        |
| Trt Treatment  | Rate             |                  |                   |                   |                   |                   |                   |                   |        |
| No. Name   | Rate Unit        | 30               | 31                | 32                | 33                | 34                | 35                | 36                | 37     |
| 1 MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              |                  | 17 a             | 14 a              | 16 a              | 15 a              | 14 a              | 14 ab             | 15 a              | 17 a   |
| 2 MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               |                  | 13 a             | 15 a              | 6 a               | 13 a              | 15 a              | 9 b               | 14 a              | 7 b    |
| 3 DMDS 73.6 G/A BC<br>LDPE MULCH   |                  | 17 a             | 13 a              | 17 a              | 15 a              | 15 a              | 17 a              | 15 a              | 15 ab  |
| 4 Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch |                  | 15 a             | 12 a              | 12 a              | 15 a              | 14 a              | 15 ab             | 16 a              | 15 ab  |
| LSD (P=.05)  |                  | 4.8              | 8.0               | 10.1              | 2.8               | 4.2               | 6.5               | 4.6               | 8.1    |
| Standard Deviation   |                  | 3.0              | 5.0               | 6.3               | 1.8               | 2.6               | 4.1               | 2.9               | 5.0    |
| CV   |                  | 19.54            | 37.4              | 50.21             | 12.12             | 18.22             | 29.99             | 19.6              | 37.5   |
| Bartlett's X2  |                  | 4.547            | 7.039             | 6.62              | 5.906             | 4.972             | 5.897             | 1.822             | 8.817  |
| P(Bartlett's X2)   |                  | 0.208            | 0.071             | 0.085             | 0.116             | 0.174             | 0.117             | 0.61              | 0.032* |

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

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| Weed Code          | CSPAN<br>plant 16  | CSPAN<br>plant 17 | CSPAN<br>plant 18 | CSPAN<br>plant 19 | CSPAN<br>plant 20 | CSPAN<br>plant 21 | CSPAN<br>plant 22 | CSPAN<br>plant 23 |    |        |    |        |   |       |   |       |   |
|--------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----|--------|----|--------|---|-------|---|-------|---|
| Crop Code          | bed 1  | bed 1             | bed 1             | bed 1             | bed 1             | bed 1             | bed 1             | bed 1             |    |        |    |        |   |       |   |       |   |
| Part Rated         | heights  | heights           | heights           | heights           | heights           | heights           | heights           | heights           |    |        |    |        |   |       |   |       |   |
| Rating Data Type   | cm   | cm                | cm                | cm                | cm                | cm                | cm                | cm                |    |        |    |        |   |       |   |       |   |
| Rating Unit        | Apr-19-07  | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         |    |        |    |        |   |       |   |       |   |
| Rating Date        | 65 DA-A  | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           |    |        |    |        |   |       |   |       |   |
| Trt-Eval Interval  |  |                   |                   |                   |                   |                   |                   |                   |    |        |    |        |   |       |   |       |   |
| ARM Action Codes   |  |                   |                   |                   |                   |                   |                   |                   |    |        |    |        |   |       |   |       |   |
| Trt No.            | Treatment Name   | Rate              | Unit              | 38                | 39                | 40                | 41                | 42                | 43 | 44     | 45 |        |   |       |   |       |   |
| 1                  | MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              | 17                | a                 | 12                | a                 | 15                | a                 | 14                | a  | 14     | a  | 13     | a | 13    | a | 7     | a |
| 2                  | MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               | 14                | b                 | 13                | a                 | 11                | a                 | 15                | a  | 11     | a  | 14     | a | 16    | a | 12    | a |
| 3                  | DMDS 73.6 G/A BC<br>LDPE MULCH   | 16                | b                 | 14                | a                 | 15                | a                 | 12                | a  | 15     | a  | 17     | a | 10    | a | 12    | a |
| 4                  | Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch | 15                | b                 | 14                | a                 | 11                | a                 | 11                | a  | 16     | a  | 18     | a | 15    | a | 16    | a |
| LSD (P=.05)        |  | 1.3               |                   | 8.4               |                   | 6.5               |                   | 8.6               |    | 6.2    |    | 10.4   |   | 7.6   |   | 11.9  |   |
| Standard Deviation |  | 0.8               |                   | 5.2               |                   | 4.1               |                   | 5.4               |    | 3.9    |    | 6.5    |   | 4.7   |   | 7.4   |   |
| CV                 |  | 5.42              |                   | 40.46             |                   | 31.71             |                   | 41.97             |    | 28.2   |    | 42.69  |   | 35.44 |   | 62.88 |   |
| Bartlett's X2      |  | 0.189             |                   | 6.077             |                   | 4.0               |                   | 7.968             |    | 12.884 |    | 9.22   |   | 5.816 |   | 7.178 |   |
| P(Bartlett's X2)   |  | 0.979             |                   | 0.108             |                   | 0.261             |                   | 0.047*            |    | 0.005* |    | 0.027* |   | 0.121 |   | 0.066 |   |

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



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| Weed Code          | CSPAN<br>plant 24  | CSPAN<br>plant 25 | CSPAN<br>plant 26 | CSPAN<br>plant 27 | CSPAN<br>plant 28 | CSPAN<br>plant 29 | CSPAN<br>plant 30 | CSPAN<br>plant 31 |        |        |        |
|--------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------|--------|--------|
| Crop Code          | bed 1  | bed 1             | bed 1             | bed 1             | bed 1             | bed 1             | bed 1             | bed 1             |        |        |        |
| Part Rated         | heights  | heights           | heights           | heights           | heights           | heights           | heights           | heights           |        |        |        |
| Rating Data Type   | cm   | cm                | cm                | cm                | cm                | cm                | cm                | cm                |        |        |        |
| Rating Unit        | Apr-19-07  | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         |        |        |        |
| Rating Date        | 65 DA-A  | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           |        |        |        |
| Trt-Eval Interval  |  |                   |                   |                   |                   |                   |                   |                   |        |        |        |
| ARM Action Codes   |  |                   |                   |                   |                   |                   |                   |                   |        |        |        |
| Trt No.            | Treatment Name   | Rate              | Unit              | 46                | 47                | 48                | 49                | 50                | 51     | 52     | 53     |
| 1                  | MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              |                   |                   | 16 a              | 12 a              | 17 a              | 11 a              | 17 a              | 7 b    | 16 a   | 13 a   |
| 2                  | MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               |                   |                   | 15 a              | 7 a               | 11 a              | 11 a              | 15 ab             | 15 ab  | 10 a   | 13 a   |
| 3                  | DMDS 73.6 G/A BC<br>LDPE MULCH   |                   |                   | 10 a              | 6 a               | 16 a              | 10 a              | 10 b              | 15 ab  | 14 a   | 17 a   |
| 4                  | Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch |                   |                   | 15 a              | 16 a              | 14 a              | 15 a              | 15 ab             | 18 a   | 12 a   | 16 a   |
| LSD (P=.05)        |  |                   |                   | 7.3               | 12.5              | 7.7               | 10.9              | 5.2               | 8.3    | 10.1   | 6.2    |
| Standard Deviation |  |                   |                   | 4.6               | 7.8               | 4.8               | 6.8               | 3.3               | 5.2    | 6.3    | 3.9    |
| CV                 |  |                   |                   | 32.55             | 76.67             | 33.02             | 57.54             | 22.86             | 37.51  | 49.21  | 26.8   |
| Bartlett's X2      |  |                   |                   | 9.169             | 1.859             | 8.37              | 0.803             | 5.79              | 8.175  | 10.832 | 8.058  |
| P(Bartlett's X2)   |  |                   |                   | 0.027*            | 0.602             | 0.039*            | 0.849             | 0.122             | 0.043* | 0.013* | 0.045* |

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

## University of Georgia

| Weed Code          | CSPAN<br>plant 32                                    | CSPAN<br>plant 33 | CSPAN<br>plant 34 | CSPAN<br>plant 35 | CSPAN<br>plant 36 | CSPAN<br>plant 37 | CSPAN<br>plant 38 | CSPAN<br>plant 39 |      |
|--------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| Crop Code          | bed 1  | bed 1             | bed 1             | bed 1             | bed 1             | bed 1             | bed 1             | bed 1             |      |
| Part Rated         | heights  | heights           | heights           | heights           | heights           | heights           | heights           | heights           |      |
| Rating Data Type   | cm   | cm                | cm                | cm                | cm                | cm                | cm                | cm                |      |
| Rating Unit        | Apr-19-07  | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         |      |
| Rating Date        | 65 DA-A  | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           |      |
| Trt-Eval Interval  |  |                   |                   |                   |                   |                   |                   |                   |      |
| ARM Action Codes   |  |                   |                   |                   |                   |                   |                   |                   |      |
| Trt No.            | Treatment Name                                       | Rate              | Rate              | Rate              | Rate              | Rate              | Rate              | Rate              |      |
|                    |  | Unit              | Unit              | Unit              | Unit              | Unit              | Unit              | Unit              |      |
| 54                 | 55   | 56                | 57                | 58                | 59                | 60                | 61                |                   |      |
| 1                  | MB 57:43<br>LDPE 1.25 mil mulch                      | 366.9 lb/A BC     | 12 a              | 16 a              | 17 a              | 16 a              | 13 a              | 16 a              | 16 a |
| 2                  | MIDAS<br>Blocade 1.3 mil mulch                       | 170.2 lb/A BC     | 16 a              | 18 a              | 17 a              | 16 a              | 16 a              | 12 a              | 16 a |
| 3                  | DMDS<br>LDPE MULCH                                   | 73.6 G/A BC       | 15 a              | 11 a              | 18 a              | 13 a              | 12 a              | 11 a              | 16 a |
| 4                  | Telone II<br>Chloropic<br>Vapam 75 GPA<br>LDPE Mulch | 16 GPA BC         | 16 a              | 14 a              | 17 a              | 17 a              | 13 a              | 14 a              | 15 a |
| LSD (P=.05)        | 6.8  | 7.1               | 4.2               | 6.6               | 11.2              | 10.9              | 3.0               | 7.1               |      |
| Standard Deviation | 4.2  | 4.4               | 2.6               | 4.1               | 7.0               | 6.8               | 1.9               | 4.5               |      |
| CV                 | 28.89  | 30.39             | 15.17             | 27.19             | 52.2              | 50.82             | 11.84             | 29.77             |      |
| Bartlett's X2      | 12.413   | 8.758             | 11.652            | 12.378            | 4.337             | 5.846             | 5.397             | 14.417            |      |
| P(Bartlett's X2)   | 0.006*   | 0.033*            | 0.009*            | 0.006*            | 0.227             | 0.119             | 0.145             | 0.002*            |      |

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

# University of Georgia

| Weed Code  | CSPAN<br>plant 40 | AVG40Pla<br>CSPAN<br>bed 1 | CSPAN<br>plant 1<br>bed 1 | CSPAN<br>plant 2<br>bed 2 | CSPAN<br>plant 3<br>bed 2 | CSPAN<br>plant 4<br>bed 2 | CSPAN<br>plant 5<br>bed 2 | CSPAN<br>plant 6<br>bed 2 |        |
|--|-------------------|----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------|
| Part Rated   | bed 1             | bed 1                      | bed 2                     | bed 2                     | bed 2                     | bed 2                     | bed 2                     | bed 2                     |        |
| Rating Data Type   | heights           | heights                    | heights                   | heights                   | heights                   | heights                   | heights                   | heights                   |        |
| Rating Unit  | cm                | cm                         | cm                        | cm                        | cm                        | cm                        | cm                        | cm                        |        |
| Rating Date  | Apr-19-07         | Apr-19-07                  | Apr-19-07                 | Apr-19-07                 | Apr-19-07                 | Apr-19-07                 | Apr-19-07                 | Apr-19-07                 |        |
| Trt-Eval Interval  | 65 DA-A           | 65 DA-A                    | 65 DA-A                   | 65 DA-A                   | 65 DA-A                   | 65 DA-A                   | 65 DA-A                   | 65 DA-A                   |        |
| ARM Action Codes   |                   | T1                         |                           |                           |                           |                           |                           |                           |        |
| Trt Treatment  | Rate              |                            |                           |                           |                           |                           |                           |                           |        |
| No. Name   | Rate Unit         | 62                         | 63                        | 64                        | 65                        | 66                        | 67                        | 68                        | 69     |
| 1 MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              |                   | 14 a                       | 14 ab                     | 14 a                      | 12 a                      | 14 a                      | 15 a                      | 15 a                      | 15 a   |
| 2 MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               |                   | 16 a                       | 13 b                      | 16 a                      | 7 a                       | 11 a                      | 15 a                      | 16 a                      | 13 a   |
| 3 DMDS 73.6 G/A BC<br>LDPE MULCH   |                   | 16 a                       | 14 ab                     | 17 a                      | 12 a                      | 16 a                      | 13 a                      | 14 a                      | 11 a   |
| 4 Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch |                   | 17 a                       | 14 a                      | 14 a                      | 10 a                      | 15 a                      | 15 a                      | 15 a                      | 14 a   |
| LSD (P=.05)  |                   | 7.2                        | 1.4                       | 3.3                       | 9.1                       | 6.2                       | 8.0                       | 2.9                       | 5.9    |
| Standard Deviation   |                   | 4.5                        | 0.9                       | 2.1                       | 5.7                       | 3.8                       | 5.0                       | 1.8                       | 3.7    |
| CV   |                   | 28.55                      | 6.27                      | 13.47                     | 56.47                     | 27.59                     | 34.88                     | 11.82                     | 28.15  |
| Bartlett's X2  |                   | 9.181                      | 1.763                     | 1.433                     | 0.148                     | 9.998                     | 10.669                    | 0.883                     | 17.527 |
| P(Bartlett's X2)   |                   | 0.027*                     | 0.623                     | 0.698                     | 0.985                     | 0.019*                    | 0.014*                    | 0.829                     | 0.001* |

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

Column 63: T1 = @AVG([C23].[C62])

## University of Georgia

| Weed Code          | CSPAN<br>plant 7<br>bed 2<br>heights<br>cm                                 | CSPAN<br>plant 8<br>bed 2<br>heights<br>cm | CSPAN<br>plant 9<br>bed 2<br>heights<br>cm | CSPAN<br>plant 10<br>bed 2<br>heights<br>cm | CSPAN<br>plant 11<br>bed 2<br>heights<br>cm | CSPAN<br>plant 12<br>bed 2<br>heights<br>cm | CSPAN<br>plant 13<br>bed 2<br>heights<br>cm | CSPAN<br>plant 14<br>bed 2<br>heights<br>cm |       |        |        |
|--------------------|--|--|--|---|---|---|---|---|-------|--------|--------|
| Crop Code          |  |  |  |   |   |   |   |   |       |        |        |
| Part Rated         |  |  |  |   |   |   |   |   |       |        |        |
| Rating Data Type   |  |  |  |   |   |   |   |   |       |        |        |
| Rating Unit        |  |  |  |   |   |   |   |   |       |        |        |
| Rating Date        | Apr-19-07  | Apr-19-07                                  | Apr-19-07                                  | Apr-19-07                                   | Apr-19-07                                   | Apr-19-07                                   | Apr-19-07                                   | Apr-19-07                                   |       |        |        |
| Trt-Eval Interval  | 65 DA-A  | 65 DA-A                                    | 65 DA-A                                    | 65 DA-A                                     | 65 DA-A                                     | 65 DA-A                                     | 65 DA-A                                     | 65 DA-A                                     |       |        |        |
| ARM Action Codes   |  |  |  |   |   |   |   |   |       |        |        |
| Trt No.            | Treatment Name   | Rate                                       | Unit                                       | 70  | 71  | 72  | 73  | 74  | 75    | 76     | 77     |
| 1                  | MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              |  |  | 14 a  | 14 a  | 15 a  | 16 a  | 10 b  | 14 a  | 16 a   | 13 a   |
| 2                  | MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               |  |  | 13 a  | 13 a  | 14 a  | 12 b  | 13 ab                                       | 14 a  | 9 b    | 15 a   |
| 3                  | DMDS 73.6 G/A BC<br>LDPE MULCH   |  |  | 16 a  | 15 a  | 14 a  | 16 ab                                       | 16 ab                                       | 14 a  | 16 a   | 16 a   |
| 4                  | Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch |  |  | 14 a  | 15 a  | 15 a  | 14 ab                                       | 19 a  | 16 a  | 15 a   | 16 a   |
| LSD (P=.05)        |  |  |  | 3.6   | 3.3   | 7.2   | 3.7   | 6.4   | 2.9   | 6.0    | 8.2    |
| Standard Deviation |  |  |  | 2.3   | 2.1   | 4.5   | 2.3   | 4.0   | 1.8   | 3.8    | 5.2    |
| CV                 |  |  |  | 16.23                                       | 14.78                                       | 31.83                                       | 16.01                                       | 28.29                                       | 12.66 | 26.67  | 34.66  |
| Bartlett's X2      |  |  |  | 0.62  | 2.149                                       | 12.353                                      | 6.308                                       | 9.737                                       | 1.961 | 11.496 | 11.647 |
| P(Bartlett's X2)   |  |  |  | 0.892                                       | 0.542                                       | 0.006*                                      | 0.098                                       | 0.021*                                      | 0.581 | 0.009* | 0.009* |

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

## University of Georgia

| Weed Code          | CSPAN<br>plant 15  | CSPAN<br>plant 16 | CSPAN<br>plant 17 | CSPAN<br>plant 18 | CSPAN<br>plant 19 | CSPAN<br>plant 20 | CSPAN<br>plant 21 | CSPAN<br>plant 22 |       |       |        |
|--------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|-------|--------|
| Crop Code          | bed 2  | bed 2             | bed 2             | bed 2             | bed 2             | bed 2             | bed 2             | bed 2             |       |       |        |
| Part Rated         | heights  | heights           | heights           | heights           | heights           | heights           | heights           | heights           |       |       |        |
| Rating Data Type   | cm   | cm                | cm                | cm                | cm                | cm                | cm                | cm                |       |       |        |
| Rating Unit        | Apr-19-07  | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         |       |       |        |
| Rating Date        | 65 DA-A  | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           |       |       |        |
| Trt-Eval Interval  |  |                   |                   |                   |                   |                   |                   |                   |       |       |        |
| ARM Action Codes   |  |                   |                   |                   |                   |                   |                   |                   |       |       |        |
| Trt No.            | Treatment Name   | Rate              | Unit              | 78                | 79                | 80                | 81                | 82                | 83    | 84    | 85     |
| 1                  | MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              |                   |                   | 16 a              | 16 a              | 14 a              | 12 a              | 15 a              | 16 a  | 13 a  | 17 a   |
| 2                  | MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               |                   |                   | 16 a              | 14 a              | 15 a              | 13 a              | 12 a              | 14 a  | 17 a  | 17 a   |
| 3                  | DMDS 73.6 G/A BC<br>LDPE MULCH   |                   |                   | 15 a              | 17 a              | 17 a              | 17 a              | 15 a              | 17 a  | 19 a  | 17 a   |
| 4                  | Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch |                   |                   | 16 a              | 16 a              | 13 a              | 14 a              | 15 a              | 16 a  | 18 a  | 13 a   |
| LSD (P=.05)        |  |                   |                   | 5.2               | 3.8               | 3.4               | 7.6               | 7.0               | 3.5   | 7.0   | 7.4    |
| Standard Deviation |  |                   |                   | 3.3               | 2.4               | 2.1               | 4.7               | 4.4               | 2.2   | 4.4   | 4.6    |
| CV                 |  |                   |                   | 20.98             | 15.35             | 14.64             | 34.17             | 31.37             | 13.78 | 26.52 | 29.26  |
| Bartlett's X2      |  |                   |                   | 4.146             | 2.263             | 0.968             | 10.425            | 9.515             | 5.345 | 8.931 | 13.264 |
| P(Bartlett's X2)   |  |                   |                   | 0.246             | 0.52              | 0.809             | 0.015*            | 0.023*            | 0.148 | 0.03* | 0.004* |

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

## University of Georgia

| Weed Code  | CSPAN<br>plant 23 | CSPAN<br>plant 24 | CSPAN<br>plant 25 | CSPAN<br>plant 26 | CSPAN<br>plant 27 | CSPAN<br>plant 28 | CSPAN<br>plant 29 | CSPAN<br>plant 30 |        |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------|
| Crop Code  | bed 2             | bed 2             | bed 2             | bed 2             | bed 2             | bed 2             | bed 2             | bed 2             |        |
| Part Rated   | heights           | heights           | heights           | heights           | heights           | heights           | heights           | heights           |        |
| Rating Data Type   | cm                | cm                | cm                | cm                | cm                | cm                | cm                | cm                |        |
| Rating Unit  | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         |        |
| Rating Date  | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           |        |
| Trt-Eval Interval  |                   |                   |                   |                   |                   |                   |                   |                   |        |
| ARM Action Codes   |                   |                   |                   |                   |                   |                   |                   |                   |        |
| Trt Treatment  | Rate              |                   |                   |                   |                   |                   |                   |                   |        |
| No. Name   | Rate Unit         | 86                | 87                | 88                | 89                | 90                | 91                | 92                | 93     |
| 1 MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              |                   | 18 a              | 13 a              | 17 a              | 14 a              | 17 a              | 12 a              | 15 bc             | 17 a   |
| 2 MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               |                   | 16 a              | 14 a              | 12 a              | 18 a              | 17 a              | 16 a              | 15 c              | 18 a   |
| 3 DMDS 73.6 G/A BC<br>LDPE MULCH   |                   | 18 a              | 18 a              | 18 a              | 18 a              | 12 a              | 18 a              | 18 ab             | 13 a   |
| 4 Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch |                   | 17 a              | 16 a              | 17 a              | 12 a              | 15 a              | 18 a              | 19 a              | 13 a   |
| LSD (P=.05)  |                   | 3.6               | 6.9               | 7.1               | 9.5               | 8.4               | 8.5               | 2.7               | 10.8   |
| Standard Deviation   |                   | 2.2               | 4.3               | 4.4               | 5.9               | 5.3               | 5.3               | 1.7               | 6.8    |
| CV   |                   | 12.95             | 28.46             | 27.72             | 39.05             | 34.96             | 33.6              | 10.15             | 44.08  |
| Bartlett's X2  |                   | 3.697             | 13.282            | 14.712            | 8.989             | 5.952             | 9.853             | 2.444             | 16.966 |
| P(Bartlett's X2)   |                   | 0.296             | 0.004*            | 0.002*            | 0.029*            | 0.114             | 0.02*             | 0.485             | 0.001* |

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

## University of Georgia

| Weed Code          | CSPAN<br>plant 31                                    | CSPAN<br>plant 32 | CSPAN<br>plant 33 | CSPAN<br>plant 34 | CSPAN<br>plant 35 | CSPAN<br>plant 36 | CSPAN<br>plant 37 | CSPAN<br>plant 38 |       |        |        |
|--------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|--------|--------|
| Crop Code          | bed 2  | bed 2             | bed 2             | bed 2             | bed 2             | bed 2             | bed 2             | bed 2             |       |        |        |
| Part Rated         | heights  | heights           | heights           | heights           | heights           | heights           | heights           | heights           |       |        |        |
| Rating Data Type   | cm   | cm                | cm                | cm                | cm                | cm                | cm                | cm                |       |        |        |
| Rating Unit        | Apr-19-07  | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         |       |        |        |
| Rating Date        | 65 DA-A  | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           |       |        |        |
| Trt-Eval Interval  | ARM Action Codes                                     |                   |                   |                   |                   |                   |                   |                   |       |        |        |
| ARM Action Codes   |  |                   |                   |                   |                   |                   |                   |                   |       |        |        |
| Trt No.            | Treatment Name                                       | Rate              | Unit              | 94                | 95                | 96                | 97                | 98                | 99    | 100    | 101    |
| 1                  | MB 57:43<br>LDPE 1.25 mil mulch                      | 366.9 lb/A BC     |                   | 17 a              | 17 a              | 16 a              | 17 a              | 13 a              | 15 b  | 17 a   | 12 a   |
| 2                  | MIDAS<br>Blocade 1.3 mil mulch                       | 170.2 lb/A BC     |                   | 15 a              | 13 a              | 17 a              | 18 a              | 16 a              | 18 a  | 17 a   | 13 a   |
| 3                  | DMDS<br>LDPE MULCH                                   | 73.6 G/A BC       |                   | 11 a              | 12 a              | 18 a              | 17 a              | 17 a              | 20 a  | 13 a   | 17 a   |
| 4                  | Telone II<br>Chloropic<br>Vapam 75 GPA<br>LDPE Mulch | 16 GPA BC         |                   | 16 a              | 18 a              | 16 a              | 17 a              | 18 a              | 17 ab | 18 a   | 17 a   |
| LSD (P=.05)        |  |                   |                   | 5.6               | 10.3              | 3.6               | 3.2               | 8.2               | 3.0   | 7.4    | 8.6    |
| Standard Deviation |  |                   |                   | 3.5               | 6.5               | 2.2               | 2.0               | 5.2               | 1.9   | 4.6    | 5.4    |
| CV                 |  |                   |                   | 23.46             | 43.47             | 13.41             | 11.72             | 32.44             | 10.93 | 28.99  | 36.15  |
| Bartlett's X2      |  |                   |                   | 6.842             | 11.793            | 8.386             | 7.864             | 14.582            | 4.501 | 13.3   | 12.047 |
| P(Bartlett's X2)   |  |                   |                   | 0.077             | 0.008*            | 0.039*            | 0.049*            | 0.002*            | 0.212 | 0.004* | 0.007* |

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

# University of Georgia

| Weed Code          | CSPAN<br>plant 39<br>bed 2<br>heights<br>cm          | CSPAN<br>plant 40<br>bed 2<br>heights<br>cm | AVG40PLA<br>CSPAN<br>ht<br>cm | CSPAN<br>plant 1<br>bed 3<br>heights<br>cm | CSPAN<br>plant 2<br>bed 3<br>heights<br>cm | CSPAN<br>plant 3<br>bed 3<br>heights<br>cm | CSPAN<br>plant 4<br>bed 3<br>heights<br>cm |       |        |       |
|--------------------|--|---|-------------------------------|--|--|--|--|-------|--------|-------|
| Crop Code          |  |   |                               |  |  |  |  |       |        |       |
| Part Rated         |  |   |                               |  |  |  |  |       |        |       |
| Rating Data Type   |  |   |                               |  |  |  |  |       |        |       |
| Rating Unit        |  |   |                               |  |  |  |  |       |        |       |
| Rating Date        | Apr-19-07  | Apr-19-07                                   | Apr-19-07                     | Apr-19-07                                  | Apr-19-07                                  | Apr-19-07                                  | Apr-19-07                                  |       |        |       |
| Trt-Eval Interval  | 65 DA-A  | 65 DA-A                                     | 65 DA-A                       | 65 DA-A                                    | 65 DA-A                                    | 65 DA-A                                    | 65 DA-A                                    |       |        |       |
| ARM Action Codes   |  |   | T2                            |  |  |  |  |       |        |       |
| Trt No.            | Treatment Name                                       | Rate  | Unit                          | 102  | 103  | 104  | 105  | 106   | 107    | 108   |
| 1                  | MB 57:43<br>LDPE 1.25 mil mulch                      | 366.9 lb/A BC                               |                               | 16 a                                       | 17 a                                       | 15 a                                       | 16 a                                       | 11 a  | 10 a   | 18 a  |
| 2                  | MIDAS<br>Blocade 1.3 mil mulch                       | 170.2 lb/A BC                               |                               | 17 a                                       | 16 a                                       | 15 a                                       | 16 a                                       | 15 a  | 10 a   | 15 a  |
| 3                  | DMDS<br>LDPE MULCH                                   | 73.6 G/A BC                                 |                               | 18 a                                       | 18 a                                       | 16 a                                       | 16 a                                       | 15 a  | 13 a   | 16 a  |
| 4                  | Telone II<br>Chloropic<br>Vapam 75 GPA<br>LDPE Mulch | 16 GPA BC                                   |                               | 12 a                                       | 18 a                                       | 15 a                                       | 12 a                                       | 15 a  | 16 a   | 8 a   |
| LSD (P=.05)        |  |   |                               | 7.9  | 3.4  | 1.3  | 8.1  | 7.4   | 11.3   | 9.8   |
| Standard Deviation |  |   |                               | 4.9  | 2.1  | 0.8  | 5.1  | 4.6   | 7.1    | 6.1   |
| CV                 |  |   |                               | 31.59                                      | 12.48                                      | 5.29                                       | 34.31                                      | 33.31 | 58.24  | 43.42 |
| Bartlett's X2      |  |   |                               | 11.239                                     | 5.202                                      | 5.347                                      | 10.033                                     | 6.016 | 9.514  | 8.943 |
| P(Bartlett's X2)   |  |   |                               | 0.011*                                     | 0.158                                      | 0.148                                      | 0.018*                                     | 0.111 | 0.023* | 0.03* |

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

Column 104: T2 = @AVG([C64].[C103])



## University of Georgia

| Weed Code          | CSPAN<br>plant 5<br>bed 3<br>heights<br>cm           | CSPAN<br>plant 6<br>bed 3<br>heights<br>cm | CSPAN<br>plant 7<br>bed 3<br>heights<br>cm | CSPAN<br>plant 8<br>bed 3<br>heights<br>cm | CSPAN<br>plant 9<br>bed 3<br>heights<br>cm | CSPAN<br>plant 10<br>bed 3<br>heights<br>cm | CSPAN<br>plant 11<br>bed 3<br>heights<br>cm | CSPAN<br>plant 12<br>bed 3<br>heights<br>cm |       |        |        |
|--------------------|--|--|--|--|--|---|---|---|-------|--------|--------|
| Crop Code          |  |  |  |  |  |   |   |   |       |        |        |
| Part Rated         |  |  |  |  |  |   |   |   |       |        |        |
| Rating Data Type   |  |  |  |  |  |   |   |   |       |        |        |
| Rating Unit        |  |  |  |  |  |   |   |   |       |        |        |
| Rating Date        | Apr-19-07  | Apr-19-07                                  | Apr-19-07                                  | Apr-19-07                                  | Apr-19-07                                  | Apr-19-07                                   | Apr-19-07                                   | Apr-19-07                                   |       |        |        |
| Trt-Eval Interval  | 65 DA-A  | 65 DA-A                                    | 65 DA-A                                    | 65 DA-A                                    | 65 DA-A                                    | 65 DA-A                                     | 65 DA-A                                     | 65 DA-A                                     |       |        |        |
| ARM Action Codes   |  |  |  |  |  |   |   |   |       |        |        |
| Trt No.            | Treatment Name                                       | Rate                                       | Unit                                       | 109  | 110  | 111   | 112   | 113   | 114   | 115    | 116    |
| 1                  | MB 57:43<br>LDPE 1.25 mil mulch                      | 366.9 lb/A                                 | BC   | 16 a                                       | 12 a                                       | 17 a  | 15 a  | 16 a  | 14 a  | 16 a   | 16 a   |
| 2                  | MIDAS<br>Blocade 1.3 mil mulch                       | 170.2 lb/A                                 | BC   | 15 a                                       | 12 a                                       | 10 b  | 12 a  | 16 a  | 16 a  | 11 a   | 10 b   |
| 3                  | DMDS<br>LDPE MULCH                                   | 73.6 G/A                                   | BC   | 16 a                                       | 17 a                                       | 14 ab                                       | 16 a  | 15 a  | 10 a  | 14 a   | 15 ab  |
| 4                  | Telone II<br>Chloropic<br>Vapam 75 GPA<br>LDPE Mulch | 16 GPA                                     | BC   | 13 a                                       | 14 a                                       | 15 ab                                       | 14 a  | 14 a  | 15 a  | 16 a   | 15 ab  |
| LSD (P=.05)        |  |  |  | 7.6  | 8.2  | 5.9   | 3.6   | 5.2   | 7.3   | 6.7    | 5.8    |
| Standard Deviation |  |  |  | 4.8  | 5.1  | 3.7   | 2.2   | 3.2   | 4.6   | 4.2    | 3.7    |
| CV                 |  |  |  | 32.34                                      | 37.32                                      | 26.83                                       | 15.63                                       | 21.52                                       | 33.48 | 29.59  | 25.97  |
| Bartlett's X2      |  |  |  | 10.724                                     | 6.466                                      | 8.575                                       | 1.382                                       | 3.689                                       | 5.352 | 10.194 | 10.287 |
| P(Bartlett's X2)   |  |  |  | 0.013*                                     | 0.091                                      | 0.036*                                      | 0.71  | 0.297                                       | 0.148 | 0.017* | 0.016* |

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

## University of Georgia

| Weed Code  | CSPAN<br>plant 13 | CSPAN<br>plant 14 | CSPAN<br>plant 15 | CSPAN<br>plant 16 | CSPAN<br>plant 17 | CSPAN<br>plant 18 | CSPAN<br>plant 19 | CSPAN<br>plant 20 |        |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------|
| Crop Code  | bed 3             | bed 3             | bed 3             | bed 3             | bed 3             | bed 3             | bed 3             | bed 3             |        |
| Part Rated   | heights           | heights           | heights           | heights           | heights           | heights           | heights           | heights           |        |
| Rating Data Type   | cm                | cm                | cm                | cm                | cm                | cm                | cm                | cm                |        |
| Rating Unit  | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         |        |
| Rating Date  | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           |        |
| Trt-Eval Interval  |                   |                   |                   |                   |                   |                   |                   |                   |        |
| ARM Action Codes   |                   |                   |                   |                   |                   |                   |                   |                   |        |
| Trt Treatment  | Rate              |                   |                   |                   |                   |                   |                   |                   |        |
| No. Name   | Rate Unit         | 117               | 118               | 119               | 120               | 121               | 122               | 123               | 124    |
| 1 MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              |                   | 16 a              | 16 a              | 16 a              | 13 b              | 15 a              | 16 a              | 15 a              | 15 a   |
| 2 MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               |                   | 14 a              | 15 a              | 14 a              | 15 ab             | 15 a              | 16 a              | 14 a              | 16 a   |
| 3 DMDS 73.6 G/A BC<br>LDPE MULCH   |                   | 16 a              | 12 a              | 16 a              | 17 a              | 16 a              | 16 a              | 17 a              | 17 a   |
| 4 Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch |                   | 15 a              | 16 a              | 14 a              | 16 ab             | 13 a              | 15 a              | 15 a              | 11 a   |
| LSD (P=.05)  |                   | 4.5               | 6.2               | 2.8               | 3.7               | 8.4               | 4.2               | 5.1               | 7.0    |
| Standard Deviation   |                   | 2.8               | 3.8               | 1.8               | 2.3               | 5.2               | 2.6               | 3.2               | 4.4    |
| CV   |                   | 18.8              | 26.4              | 11.86             | 15.3              | 35.0              | 16.54             | 20.94             | 30.29  |
| Bartlett's X2  |                   | 1.94              | 14.856            | 0.489             | 0.778             | 8.894             | 8.008             | 3.519             | 11.551 |
| P(Bartlett's X2)   |                   | 0.585             | 0.002*            | 0.921             | 0.855             | 0.031*            | 0.046*            | 0.318             | 0.009* |

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

## University of Georgia

| Weed Code          | CSPAN<br>plant 21  | CSPAN<br>plant 22 | CSPAN<br>plant 23 | CSPAN<br>plant 24 | CSPAN<br>plant 25 | CSPAN<br>plant 26 | CSPAN<br>plant 27 | CSPAN<br>plant 28 |       |        |       |
|--------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|--------|-------|
| Crop Code          | bed 3  | bed 3             | bed 3             | bed 3             | bed 3             | bed 3             | bed 3             | bed 3             |       |        |       |
| Part Rated         | heights  | heights           | heights           | heights           | heights           | heights           | heights           | heights           |       |        |       |
| Rating Data Type   | cm   | cm                | cm                | cm                | cm                | cm                | cm                | cm                |       |        |       |
| Rating Unit        | Apr-19-07  | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         |       |        |       |
| Rating Date        | 65 DA-A  | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           |       |        |       |
| Trt-Eval Interval  |  |                   |                   |                   |                   |                   |                   |                   |       |        |       |
| ARM Action Codes   |  |                   |                   |                   |                   |                   |                   |                   |       |        |       |
| Trt No.            | Treatment Name   | Rate              | Unit              | 125               | 126               | 127               | 128               | 129               | 130   | 131    | 132   |
| 1                  | MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              |                   |                   | 12 a              | 13 a              | 18 a              | 15 a              | 14 a              | 10 b  | 11 a   | 13 a  |
| 2                  | MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               |                   |                   | 18 a              | 15 a              | 11 a              | 11 a              | 18 a              | 15 ab | 17 a   | 17 a  |
| 3                  | DMDS 73.6 G/A BC<br>LDPE MULCH   |                   |                   | 14 a              | 16 a              | 17 a              | 16 a              | 8 a               | 17 a  | 15 a   | 17 a  |
| 4                  | Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch |                   |                   | 16 a              | 16 a              | 16 a              | 16 a              | 15 a              | 14 ab | 11 a   | 12 a  |
| LSD (P=.05)        |  |                   |                   | 9.0               | 6.7               | 6.8               | 6.9               | 9.2               | 6.4   | 8.9    | 7.5   |
| Standard Deviation |  |                   |                   | 5.6               | 4.2               | 4.2               | 4.3               | 5.8               | 4.0   | 5.6    | 4.7   |
| CV                 |  |                   |                   | 37.71             | 27.84             | 27.36             | 30.24             | 42.22             | 29.29 | 41.83  | 31.94 |
| Bartlett's X2      |  |                   |                   | 4.372             | 7.002             | 17.536            | 7.927             | 7.172             | 5.121 | 7.957  | 6.48  |
| P(Bartlett's X2)   |  |                   |                   | 0.224             | 0.072             | 0.001*            | 0.048*            | 0.067             | 0.163 | 0.047* | 0.09  |

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

## University of Georgia

| Weed Code          | CSPAN<br>plant 29  | CSPAN<br>plant 30 | CSPAN<br>plant 31 | CSPAN<br>plant 32 | CSPAN<br>plant 33 | CSPAN<br>plant 34 | CSPAN<br>plant 35 | CSPAN<br>plant 36 |     |        |     |       |   |       |    |        |   |
|--------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----|--------|-----|-------|---|-------|----|--------|---|
| Crop Code          | bed 3  | bed 3             | bed 3             | bed 3             | bed 3             | bed 3             | bed 3             | bed 3             |     |        |     |       |   |       |    |        |   |
| Part Rated         | bed 3  | bed 3             | bed 3             | bed 3             | bed 3             | bed 3             | bed 3             | bed 3             |     |        |     |       |   |       |    |        |   |
| Rating Data Type   | heights  | heights           | heights           | heights           | heights           | heights           | heights           | heights           |     |        |     |       |   |       |    |        |   |
| Rating Unit        | cm   | cm                | cm                | cm                | cm                | cm                | cm                | cm                |     |        |     |       |   |       |    |        |   |
| Rating Date        | Apr-19-07  | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07         |     |        |     |       |   |       |    |        |   |
| Trt-Eval Interval  | 65 DA-A  | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A           |     |        |     |       |   |       |    |        |   |
| ARM Action Codes   |  |                   |                   |                   |                   |                   |                   |                   |     |        |     |       |   |       |    |        |   |
| Trt No.            | Treatment Name   | Rate              | Unit              | 133               | 134               | 135               | 136               | 137               | 138 | 139    | 140 |       |   |       |    |        |   |
| 1                  | MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              | 8                 | a                 | 12                | a                 | 9                 | a                 | 12                | a   | 13     | a   | 15    | a | 19    | a  | 16     | a |
| 2                  | MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               | 16                | a                 | 13                | a                 | 15                | a                 | 16                | a   | 16     | a   | 15    | a | 17    | ab | 8      | a |
| 3                  | DMDS 73.6 G/A BC<br>LDPE MULCH   | 12                | a                 | 16                | a                 | 18                | a                 | 13                | a   | 15     | a   | 16    | a | 14    | b  | 15     | a |
| 4                  | Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch | 15                | a                 | 16                | a                 | 12                | a                 | 16                | a   | 15     | a   | 17    | a | 17    | ab | 17     | a |
| LSD (P=.05)        |  | 11.6              |                   | 10.8              |                   | 11.3              |                   | 8.8               |     | 7.0    |     | 3.6   |   | 3.3   |    | 9.1    |   |
| Standard Deviation |  | 7.2               |                   | 6.7               |                   | 7.1               |                   | 5.5               |     | 4.4    |     | 2.2   |   | 2.0   |    | 5.7    |   |
| CV                 |  | 56.99             |                   | 48.21             |                   | 53.0              |                   | 39.23             |     | 29.45  |     | 14.12 |   | 12.43 |    | 41.21  |   |
| Bartlett's X2      |  | 4.798             |                   | 6.584             |                   | 19.085            |                   | 7.49              |     | 12.721 |     | 2.503 |   | 2.64  |    | 11.958 |   |
| P(Bartlett's X2)   |  | 0.187             |                   | 0.086             |                   | 0.001*            |                   | 0.058             |     | 0.005* |     | 0.475 |   | 0.45  |    | 0.008* |   |

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

## University of Georgia

| Weed Code          | CSPAN<br>plant 37  | CSPAN<br>plant 38 | CSPAN<br>plant 39 | CSPAN<br>plant 40 | AVG40PLA<br>CSPAN<br>bed 3 | AVG120PL<br>CSPAN<br>allbed | HARV1<br>Jumbo |
|--------------------|--|-------------------|-------------------|-------------------|----------------------------|-----------------------------|----------------|
| Crop Code          | bed 3  | bed 3             | bed 3             | bed 3             | bed 3                      | allbed                      | box/plot       |
| Part Rated         | heights  | heights           | heights           | heights           | ht                         | total hts                   | #              |
| Rating Data Type   | cm   | cm                | cm                | cm                | cm                         | cm                          |                |
| Rating Unit        | Apr-19-07  | Apr-19-07         | Apr-19-07         | Apr-19-07         | Apr-19-07                  | Apr-19-07                   | Jun-13-07      |
| Rating Date        | 65 DA-A  | 65 DA-A           | 65 DA-A           | 65 DA-A           | 65 DA-A                    | 65 DA-A                     | 120 DA-A       |
| Trt-Eval Interval  |  |                   |                   |                   | T3                         | T4                          |                |
| ARM Action Codes   |  |                   |                   |                   |                            |                             |                |
| Trt No.            | Treatment Name   | Rate              | Rate              | Rate              | Rate                       | Rate                        | Rate           |
|                    |  | Unit              | Unit              | Unit              | Unit                       | Unit                        | Unit           |
|                    |  | 141               | 142               | 143               | 144                        | 145                         | 146            |
| 1                  | MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              | 17 a              | 12 a              | 15 a              | 17 a                       | 14 a                        | 14 a           |
| 2                  | MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               | 14 a              | 17 a              | 17 a              | 18 a                       | 14 a                        | 14 a           |
| 3                  | DMDS 73.6 G/A BC<br>LDPE MULCH   | 15 a              | 13 a              | 17 a              | 7 b                        | 15 a                        | 15 a           |
| 4                  | Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch | 16 a              | 12 a              | 16 a              | 16 a                       | 14 a                        | 15 a           |
| LSD (P=.05)        |  | 8.5               | 13.8              | 4.7               | 8.4                        | 1.5                         | 0.9            |
| Standard Deviation |  | 5.3               | 8.7               | 3.0               | 5.3                        | 0.9                         | 0.6            |
| CV                 |  | 34.8              | 64.1              | 18.06             | 36.79                      | 6.32                        | 3.87           |
| Bartlett's X2      |  | 11.762            | 2.605             | 3.774             | 7.478                      | 3.423                       | 4.803          |
| P(Bartlett's X2)   |  | 0.008*            | 0.457             | 0.287             | 0.058                      | 0.331                       | 0.187          |

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

Column 145: T3 = @AVG([C105].[C144])

Column 146: T4 = ([C63]+[C104]+[C145])/3

## University of Georgia

| Weed Code  | HARV1<br>XLarge | HARV1<br>Large | HARV1<br>Chopper | HARV1<br>Suntan | HARV1<br>Pepper | HARV1<br>Pepper | HARV2<br>Jumbo |       |
|--|-----------------|----------------|------------------|-----------------|-----------------|-----------------|----------------|-------|
| Crop Code  |                 |                |                  |                 |                 |                 |                |       |
| Part Rated   |                 |                |                  |                 |                 |                 |                |       |
| Rating Data Type   | box/plot        | box/plot       | box/plot         | box/plot        | Total boxes     | t. box/acre     | box/plot       |       |
| Rating Unit  | #               | #              | #                | #               | #               | #               | #              |       |
| Rating Date  | Jun-13-07       | Jun-13-07      | Jun-13-07        | Jun-13-07       | Jun-13-07       | Jun-13-07       | Jun-21-07      |       |
| Trt-Eval Interval  | 120 DA-A        | 120 DA-A       | 120 DA-A         | 120 DA-A        | 120 DA-A        | 120 DA-A        | 128 DA-A       |       |
| ARM Action Codes   |                 |                |                  |                 |                 |                 |                |       |
| Trt Treatment  | Rate            |                |                  |                 |                 |                 |                |       |
| No. Name   | Rate Unit       | 148            | 149              | 150             | 151             | 152             | 153            | 154   |
| 1 MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              |                 | 212 a          | 22 a             | 65 a            | 14 a            | 398 a           | 995 a          | 14 a  |
| 2 MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               |                 | 194 a          | 16 ab            | 55 a            | 11 a            | 376 a           | 939 a          | 16 a  |
| 3 DMDS 73.6 G/A BC<br>LDPE MULCH   |                 | 203 a          | 19 a             | 67 a            | 15 a            | 397 a           | 993 a          | 10 a  |
| 4 Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch |                 | 188 a          | 10 b             | 68 a            | 13 a            | 391 a           | 976 a          | 18 a  |
| LSD (P=.05)  |                 | 22.9           | 7.3              | 17.4            | 5.6             | 44.3            | 110.4          | 9.2   |
| Standard Deviation   |                 | 14.3           | 4.5              | 10.9            | 3.5             | 27.7            | 69.0           | 5.8   |
| CV   |                 | 7.18           | 27.1             | 17.02           | 27.09           | 7.09            | 7.07           | 39.86 |
| Bartlett's X2  |                 | 4.223          | 2.272            | 3.006           | 1.865           | 1.44            | 0.974          | 3.418 |
| P(Bartlett's X2)   |                 | 0.238          | 0.518            | 0.391           | 0.601           | 0.696           | 0.807          | 0.332 |

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

## University of Georgia

| Weed Code  | HARV2<br>XLarge | HARV2<br>Large | HARV2<br>Chopper | HARV2<br>Suntan | HARV2<br>Pepper | HARV2<br>Pepper | HARV2<br>Pepper |        |
|--|-----------------|----------------|------------------|-----------------|-----------------|-----------------|-----------------|--------|
| Crop Code  |                 |                |                  |                 |                 |                 |                 |        |
| Part Rated   |                 |                |                  |                 |                 |                 |                 |        |
| Rating Data Type   | box/plot        | box/plot       | box/plot         | box/plot        | Total boxes     | t. box/acre     | t. ac/plot      |        |
| Rating Unit  | #               | #              | #                | #               | #               | #               | #               |        |
| Rating Date  | Jun-21-07       | Jun-21-07      | Jun-21-07        | Jun-21-07       | Jun-21-07       | Jun-21-07       |                 |        |
| Trt-Eval Interval  | 128 DA-A        | 128 DA-A       | 128 DA-A         | 128 DA-A        | 128 DA-A        | 120 DA-A        | 120 DA-A        |        |
| ARM Action Codes   |                 |                |                  |                 |                 |                 |                 |        |
| Trt Treatment  |                 |                |                  |                 |                 |                 |                 |        |
| No. Name   | Rate            |                |                  |                 |                 |                 |                 |        |
|  | Rate Unit       | 155            | 156              | 157             | 158             | 159             | 160             |        |
| 1 MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              |                 | 109 a          | 36 a             | 55 a            | 32 a            | 259 a           | 646 a           | 0 a    |
| 2 MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               |                 | 131 a          | 39 a             | 53 a            | 29 a            | 268 a           | 670 a           | 0 a    |
| 3 DMDS 73.6 G/A BC<br>LDPE MULCH   |                 | 108 a          | 38 a             | 46 a            | 26 a            | 228 a           | 569 a           | 0 a    |
| 4 Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch |                 | 132 a          | 30 a             | 59 a            | 34 a            | 272 a           | 679 a           | 0 a    |
| LSD (P=.05)  |                 | 30.3           | 10.2             | 15.3            | 13.2            | 67.5            | 168.7           | 0.0    |
| Standard Deviation   |                 | 18.9           | 6.4              | 9.6             | 8.3             | 42.2            | 105.5           | 0.0    |
| CV   |                 | 15.8           | 17.95            | 17.98           | 27.47           | 16.45           | 16.45           | 0.0    |
| Bartlett's X2  |                 | 3.816          | 3.616            | 4.657           | 8.907           | 4.123           | 4.322           | 0.0    |
| P(Bartlett's X2)   |                 | 0.282          | 0.306            | 0.199           | 0.031*          | 0.248           | 0.229           | 0.001* |

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

# University of Georgia

| Weed Code  | HAR1-2   | HAR1-2   | HAR1-2   | HAR1-2   | HAR1-2   | HAR1-2      | HAR1-2      | Nematode   |
|--|----------|----------|----------|----------|----------|-------------|-------------|------------|
| Crop Code  | Jumbo    | XLarge   | Large    | Chopper  | Suntan   | Pepper      | Pepper      | Root-Kno   |
| Part Rated   |          |          |          |          |          |             |             |            |
| Rating Data Type   | box/plot | box/plot | box/plot | box/plot | box/plot | Total boxes | t. box/acre | 100cm3soil |
| Rating Unit  | #        | #        | #        | #        | #        | #           | #           | #          |
| Rating Date  |          |          |          |          |          |             |             |            |
| Trt-Eval Interval  |          |          |          |          |          |             |             |            |
| ARM Action Codes   | T6       | T7       | T8       | T9       | T10      | T11         | T12         |            |
| Trt Treatment  |          |          |          |          |          |             |             |            |
| No. Name   |          |          |          |          |          |             |             |            |
| Rate   |          |          |          |          |          |             |             |            |
| Rate Unit  | 162      | 163      | 164      | 165      | 166      | 167         | 168         | 169        |
| 1 MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              | 104 b    | 321 a    | 58 a     | 120 ab   | 46 a     | 657 a       | 1641 a      | 28 a       |
| 2 MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               | 117 ab   | 325 a    | 55 ab    | 109 c    | 39 a     | 644 a       | 1609 a      | 6 a        |
| 3 DMDS 73.6 G/A BC<br>LDPE MULCH   | 104 b    | 311 a    | 57 ab    | 114 bc   | 41 a     | 625 a       | 1562 a      | 17 a       |
| 4 Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch | 131 a    | 320 a    | 40 b     | 126 a    | 46 a     | 662 a       | 1655 a      | 6 a        |
| LSD (P=.05)  | 15.2     | 14.1     | 16.2     | 7.9      | 17.6     | 41.2        | 102.9       | 52.8       |
| Standard Deviation   | 9.5      | 8.8      | 10.1     | 5.0      | 11.0     | 25.8        | 64.3        | 33.0       |
| CV   | 8.36     | 2.76     | 19.33    | 4.23     | 25.55    | 3.98        | 3.98        | 233.67     |
| Bartlett's X2  | 5.575    | 3.473    | 1.752    | 0.519    | 4.752    | 6.245       | 6.401       | 10.816     |
| P(Bartlett's X2)   | 0.134    | 0.324    | 0.625    | 0.915    | 0.191    | 0.10        | 0.094       | 0.013*     |

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

- Column 162: T6 = [C147]+[C154]
- Column 163: T7 = [C148]+[C155]
- Column 164: T8 = [C149]+[C156]
- Column 165: T9 = [C150]+[C157]
- Column 166: T10 = [C151]+[C158]
- Column 167: T11 = [C152]+[C159]
- Column 168: T12 = [C153]+[C160]



## University of Georgia

| Weed Code          | Nematode   | Value of | Value of | Value of | Value of | Value of | Value of | Value of | Value of |        |
|--------------------|--|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| Crop Code          | Stubby   | Jumbo    | X-Large  | Large    | Choice   | Jumbo    | X-Large  | Large    | Choice   |        |
| Part Rated         |  |          |          |          |          |          |          |          |          |        |
| Rating Data Type   | 100cm3soil   | box      | box      | box      | box      | per plot | per plot | per plot | per plot |        |
| Rating Unit        | #  | \$       | \$       | \$       | \$       | \$       | \$       | \$       | \$       |        |
| Rating Date        |  |          |          |          |          |          |          |          |          |        |
| Trt-Eval Interval  |  |          |          |          |          |          |          |          |          |        |
| ARM Action Codes   |  |          |          |          |          | T13      | T14      | T15      | T16      |        |
| Trt No.            | Treatment Name   | Rate     | Rate     | Rate     | Rate     | Rate     | Rate     | Rate     | Rate     |        |
| 170                | 172  | 173      | 174      | 175      | 177      | 178      | 179      | 180      |          |        |
| 1                  | MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              | 5 a      | 10 a     | 9 a      | 9 a      | 6 a      | 1008 b   | 2961 a   | 547 a    | 661 ab |
| 2                  | MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               | 3 a      | 10 a     | 9 a      | 9 a      | 6 a      | 1129 ab  | 2997 a   | 519 ab   | 597 c  |
| 3                  | DMDS 73.6 G/A BC<br>LDPE MULCH   | 6 a      | 10 a     | 9 a      | 9 a      | 6 a      | 1005 b   | 2866 a   | 538 ab   | 624 bc |
| 4                  | Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch | 1 a      | 10 a     | 9 a      | 9 a      | 6 a      | 1265 a   | 2949 a   | 379 b    | 694 a  |
| LSD (P=.05)        |  | 7.8      | 0.0      | 0.0      | 0.0      | 0.0      | 147.4    | 129.9    | 153.3    | 43.6   |
| Standard Deviation |  | 4.9      | 0.0      | 0.0      | 0.0      | 0.0      | 92.1     | 81.2     | 95.9     | 27.3   |
| CV                 |  | 143.89   | 0.06     | 0.0      | 0.0      | 0.0      | 8.36     | 2.76     | 19.33    | 4.23   |
| Bartlett's X2      |  | 8.329    | 0.0      | 0.0      | 0.0      | 0.0      | 5.575    | 3.473    | 1.752    | 0.519  |
| P(Bartlett's X2)   |  | 0.04*    | .        | .        | .        | .        | 0.134    | 0.324    | 0.625    | 0.915  |

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

Column 175: T13 = [C162]\*[C172]

Column 176: T14 = [C173]\*[C163]

Column 177: T15 = [C164]\*[C174]

Column 178: T16 = [C175]\*[C165]

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| Weed Code  | Total Value | Total Value | Fum/Mulc Costs | Returns minus F/M |
|--|-------------|-------------|----------------|-------------------|
| Crop Code  |             |             |                |                   |
| Part Rated   |             |             |                |                   |
| Rating Data Type   | per plot    | per /A      | A              |                   |
| Rating Unit  | \$          | \$          | \$             |                   |
| Rating Date  |             |             |                |                   |
| Trt-Eval Interval  |             |             |                |                   |
| ARM Action Codes   | T17         | T18         |                | T19               |
| Trt Treatment  | Rate        |             |                |                   |
| No. Name   | Rate Unit   | 182         | 183            | 184               |
| 1 MB 57:43 366.9 lb/A BC<br>LDPE 1.25 mil mulch                              |             | 5177 ab     | 12943 ab       | 1039 b 11904 ab   |
| 2 MIDAS 170.2 lb/A BC<br>Blocade 1.3 mil mulch                               |             | 5242 ab     | 13105 ab       | 1510 a 11595 b    |
| 3 DMDS 73.6 G/A BC<br>LDPE MULCH   |             | 5033 b      | 12584 b        | 808 c 11776 b     |
| 4 Telone II 16 GPA BC<br>Chloropic 150 lb/A BC<br>Vapam 75 GPA<br>LDPE Mulch |             | 5287 a      | 13218 a        | 808 c 12410 a     |
| LSD (P=.05)  |             | 211.1       | 527.8          | 0.0 527.7         |
| Standard Deviation   |             | 132.0       | 330.0          | 0.0 329.9         |
| CV   |             | 2.55        | 2.55           | 0.0 2.77          |
| Bartlett's X2  |             | 2.901       | 2.901          | 0.0 2.901         |
| P(Bartlett's X2)   |             | 0.407       | 0.407          | . 0.407           |

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

Column 179: T17 = [C177]+[C178]+[C179]+[C180]

Column 180: T18 = [C182]\*2.5

Column 182: T19 = [C183]-[C184]

# University of Georgia

## 2007 Large Acreage Replicated On Farm MB Alternative Trial.

Trial ID: Veg10-07  
Location: Coggins Farm

Study Dir.: Culpepper, Davis, Hamlin  
Investigator: Stanley Culpepper

### GENERAL TRIAL INFORMATION

|  |                                 |
|--|---------------------------------|
| <b>Study Director:</b> Russ Hamlin     | <b>Title:</b> Ext. Weed Science |
| <b>Affiliation:</b> Univ. of Georgia   |                                 |
| <b>Postal Code:</b> 31794              |                                 |
| <b>Investigator:</b> Stanley Culpepper | <b>Title:</b> Ext. Weed Science |
| <b>Affiliation:</b> Univ. of Georgia   |                                 |
| <b>Postal Code:</b> 31794              |                                 |

### TRIAL LOCATION

|  |   |
|--|---|
| <b>City:</b> Echols County                             | <b>Trial Status:</b> in progress        |
| <b>State/Prov.:</b> GA                                 | <b>Trial Reliability:</b> excellent     |
| <b>Postal Code:</b> _____                              | <b>Initiation Date:</b> Feb-13-07       |
| <b>Country:</b> USA                                    | <b>Planned Completion Date:</b> _____   |
| <b>E-Longitude of LL Corner °:</b> _____               | <b>N-Latitude of LL Corner °:</b> _____ |
| <b>Altitude of LL Corner:</b> _____ <b>Unit:</b> _____ | <b>Angle y-axis to North °:</b> _____   |

**Directions:** \_\_\_\_\_

### COOPERATOR/LANDOWNER

|                           |                        |
|---------------------------|------------------------|
| <b>Cooperator:</b> _____  | <b>Country:</b> _____  |
| <b>Org:</b> _____         | <b>Phone No:</b> _____ |
| <b>Address 1:</b> _____   | <b>Fax No:</b> _____   |
| <b>Address 2:</b> _____   |                        |
| <b>City:</b> _____        |                        |
| <b>State/Prov:</b> _____  |                        |
| <b>Postal Code:</b> _____ |                        |

**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 | yellow and purple nutsedge |                 |
| 2.   | IPOLA | pitted morningglory        |                 |
| 3.   | IAQTA | smallflower morningglory   |                 |
| 4.   | AMALI | lividus amaranthus         |                 |
| 5.   | MOLVE | carpetweed                 |                 |
| 6.   | PORPI | pink purslane              |                 |

**Crop 1:** CSPAN Bell pepper      **Variety:** Plato  
**Planting Date:** Mar-26-07      **Planting Method:** transplant  
**Rate:** 1 per 12inch      **Depth:** 1.5 in      **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 15 inch      **Spacing Within Row:** 12 inch      **Seed Bed:** mulch  
**Soil Temperature:** 82 f      **Soil Moisture:** drip      **Emergence Date:** \_\_\_\_\_

### SITE AND DESIGN

**Plot Width, Unit:** 15 FT      **Plot Length, Unit:** 1200 FT      **Reps:** 4  
**Site Type:** On farm  
**Tillage Type:** Conventional      **Study Design:** RANDOMIZED COMPLETE BLOCK

**Trial Initiation Comments:** \_\_\_\_\_

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

### MAINTENANCE

**Field Prep./Maintenance:** Land was disked and broke prior to fumigating.

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

### SOIL DESCRIPTION

|            |            |                    |  |
|------------|------------|--------------------|--|
| % Sand: 92 | % OM: 1.10 | Texture: Sand      |  |
| % Silt: 8  | pH: 7.29   | Soil Name: _____   |  |
| % Clay: 0  | CEC: _____ | Fert. Level: _____ |  |

### ADDITIONAL MEASURED ELEMENTS

| Element | Quantity | Unit |
|---------|----------|------|
|         |          |      |

### MOISTURE CONDITIONS

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

**Overall Moisture Conditions:** Drip Irrigation

**Closest Weather Station:** \_\_\_\_\_ **Distance:** \_\_\_\_\_ **Unit:** \_\_\_\_

### APPLICATION DESCRIPTION

|                      | A         |
|----------------------|-----------|
| Application Date:    | Feb-13-07 |
| Time of Day:         | 10 am     |
| Application Method:  | band      |
| Application Timing:  | preplant  |
| Applic. Placement:   | inbed     |
| Air Temp., Unit:     | 68 f      |
| % Relative Humidity: | 61        |
| Wind Velocity, Unit: | 6 MPH     |
| Dew Presence (Y/N):  | n         |
| Water Hardness:      |           |
| Soil Temp., Unit:    | 61 f      |
| Soil Moisture:       | moist     |
| % Cloud Cover:       | 100       |

### CROP STAGE AT EACH APPLICATION

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

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## WEED STAGE AT EACH APPLICATION

|                            | A              |
|----------------------------|----------------|
| <b>Weed 1 Code, Stage:</b> | CYPZZ preplant |
| <b>Stage Scale:</b>        | not up         |
| <b>Density, Unit:</b>      | see data       |
| <b>Weed 2 Code, Stage:</b> | IPOLA preplant |
| <b>Stage Scale:</b>        | not up         |
| <b>Density, Unit:</b>      | see data       |
| <b>Weed 3 Code, Stage:</b> | IAQTA preplant |
| <b>Stage Scale:</b>        | not up         |
| <b>Density, Unit:</b>      | see data       |
| <b>Weed 4 Code, Stage:</b> | AMALI preplant |
| <b>Stage Scale:</b>        | not up         |
| <b>Density, Unit:</b>      | see data       |
| <b>Weed 5 Code, Stage:</b> | MOLVE preplant |
| <b>Stage Scale:</b>        | not up         |
| <b>Density, Unit:</b>      | see data       |
| <b>Weed 6 Code, Stage:</b> | PORPI preplant |
| <b>Stage Scale:</b>        | not up         |
| <b>Density, Unit:</b>      | see data       |

## APPLICATION EQUIPMENT

|                              | A       |
|------------------------------|---------|
| <b>Appl. Equipment:</b>      | see     |
| <b>Operating Pressure:</b>   | comment |
| <b>Nozzle Type:</b>          | section |
| <b>Nozzle Size:</b>          |         |
| <b>Nozzle Spacing, Unit:</b> |         |
| <b>Nozzles/Row:</b>          |         |
| <b>Band Width, Unit:</b>     |         |
| <b>Boom Length, Unit:</b>    |         |
| <b>Boom Height, Unit:</b>    |         |
| <b>Ground Speed, Unit:</b>   |         |
| <b>Incorporation Equip.:</b> |         |
| <b>Hours to Incorp.:</b>     |         |
| <b>Incorp. Depth, Unit:</b>  |         |
| <b>Carrier:</b>              | ???     |
| <b>Spray Volume, Unit:</b>   |         |
| <b>Spray pH:</b>             |         |
| <b>Propellant:</b>           |         |
| <b>Tank Mix (Y/N):</b>       |         |

| Trt No | Treatment Application Comment |
|--------|-------------------------------|
|        |                               |