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Large acreage on farm pepper and weed response to DMDS and the UGA 3-WAY.

Trial ID: Veg15-08
 Location: TyTy

Study Dir.: Brim, Davis, Culpepper
 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 Rate | Grow Unit | Appl Stg | Amt Code | Product to Measure | Plot No. By Rep | | | |
|---------|--|-----------|-----------|-----------|-----------|-----------|----------|------------------|--------------------|-----------------|-----|-----|-----|
| | | | | | | | | | | 1 | 2 | 3 | 4 |
| 1 | DMDS 79:21 @ 60 G Blockade Mulch | | | | | | | A | | 101 | 203 | 301 | 402 |
| 2 | DMDS 79:21 @ 50 G Blockade Mulch | | | | | | | A | | 102 | 204 | 303 | 401 |
| 3 | DMDS 79:21 @ 40 G Blockade Mulch | | | | | | | A | | 103 | 202 | 304 | 403 |
| 4 | Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | | | | | | A A A A | | 104 | 201 | 302 | 404 |

Sort Order: Treatment

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

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

- * 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).
- * Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Compare DMDS mixtures to the 3-way in a large on farm replicated experiment.

Gas present in bed at planting:

1. On march 20, gas measurements were taken 3 times for each plot. DMDS at 60 G still contained 244 ppm in the bed. Because gas was in the bed, holes were poked 30 hours before planting.

Plant Stand:

1. The number of plants for each plot were counted at 18 DAP. Plant survival was statistically similar among treatments, although there was a trend for the 3-WAY and DMDS at 60 G to have more plants per plot than DMDS at 40 or 50 G.

Pepper Heights:

1. 120 plants per plot were measured for heights.
2. No statistical differences in heights were noted but the 3-WAY tended to have the shorter plants.

Weed Response (evaluations just prior to harvest):

1. Nutsedge control was similar among treatments.
2. Livid amaranth control with DMDS at 60 G and the 3-WAY were similar. The 3-WAY was 2.5 and 4 times more effective than DMDS at 50 or 40 G, respectively.
3. Large crabgrass control was poor with all DMDS treatments during mid-season while excellent control was noted in the 3-WAY. Because crabgrass was so thick in the DMDS treatments, an overspray of Select at 8 oz plus NIS was made to remove the grass prior to impacting pepper growth and yield.

Yield:

1. Each plot in the trial was harvested four times. Plots were kept separate when harvested and run through the packing house for true grower packout data.
2. No differences in any fruit size were noted during any individual harvest.

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3. When combining all marketable fruit sizes over the four harvests, there was 16% less fruit in the DMDS 40 G system when compared to the 3-WAY.
4. Although it was not statistical, there were numerically 7 to 10% less yield in the DMDS at 50 and 60 G systems when compared to the 3-WAY system. Most of the difference was noted with Jumbo and X-Large fruit.

Nematode Assay and Gall Ratings:

1. Both the assay and gall ratings were variable with no statistical difference among treatments. A tendency more more nematode galls and numbers were found in the DMDS compared to the 3-way.

GENERAL COMMENTS:

1. Individual plots were 0.31 acres.
2. Trial initiated on Feb 14, 2008. Took 5 hours to put all treatments out. Soil temp at 8 inch was 58 F; 64 F at 4 inch. Soil moisture was ideal with over 100% of field capacity.
3. Fumigants were applied, beds were formed and mulch was laid within minutes of one another. Telone II placed 10-12 inches deep with a ripper. DMDS 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 followed immediately with mulch.

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Trial ID: Veg15-08

Study Dir.: Brim, Davis, Culpepper

Location: TyTy

Investigator: Stanley Culpepper

| Weed Code | CPSAN | CPSAN | CPSAN | CPSAN | bed 1 CPSAN | bed 2 CPSAN | bed 3 CPSAN | Cumulati CPSAN | |
|--------------------|--|-----------|-----------|-----------|----------------|----------------|----------------|-------------------|--------|
| Crop Code | | | | | | | | | |
| Part Rated | | | | | | | | | |
| Rating Data Type | gas | gas | gas | gas | # plants | # plants | # plants | # plants | |
| Rating Unit | ppm | ppm | ppm | ppm | bed 1 | bed 2 | bed 3 | per plot | |
| Rating Date | Mar-20-08 | Mar-20-08 | Mar-20-08 | Mar-20-08 | Apr-08-08 | Apr-08-08 | Apr-08-08 | Apr-08-08 | |
| Crop Stage | | | | | | | | | |
| Trt-Eval Interval | 35 DA-A | 35 DA-A | 35 DA-A | 35 DA-A | 54 DA-A | 54 DA-A | 54 DA-A | 54 DA-A | |
| ARM Action Codes | | | | T14 | | | | T16 | |
| Trt No. | Treatment Name | Rate | Rate | Rate | Rate | Rate | Rate | Rate | |
| | | Unit | Unit | Unit | Unit | Unit | Unit | Unit | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| | | 8 | | | | | | | |
| 1 | DMDS 79:21 @ 60 G Blockade Mulch | 119 a | 108 a | 17 a | 244 a | 1778 a | 1881 a | 1858 a | 5517 a |
| 2 | DMDS 79:21 @ 50 G Blockade Mulch | 15 b | 15 ab | 8 a | 37 b | 1772 a | 1743 ab | 1696 ab | 5210 a |
| 3 | DMDS 79:21 @ 40 G Blockade Mulch | 8 b | 32 ab | 21 a | 61 ab | 1695 a | 1719 b | 1642 b | 5056 a |
| 4 | Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | 1 b | 0 b | 1 a | 1 b | 1799 a | 1823 ab | 1797 ab | 5418 a |
| LSD (P=.05) | | 96.6 | 99.2 | 29.4 | 193.0 | 233.5 | 148.4 | 200.6 | 533.3 |
| Standard Deviation | | 60.4 | 62.0 | 18.4 | 120.7 | 146.0 | 92.8 | 125.4 | 333.4 |
| CV | | 169.6 | 159.72 | 157.28 | 140.13 | 8.29 | 5.18 | 7.18 | 6.29 |
| Bartlett's X2 | | 39.388 | 8.838 | 20.002 | 32.739 | 0.81 | 4.115 | 9.649 | 7.447 |
| P(Bartlett's X2) | | 0.001* | 0.012* | 0.001* | 0.001* | 0.847 | 0.249 | 0.022* | 0.059 |

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

Column 4: T14 = [C1]+[C2]+[C3]

Column 8: T16 = [C5]+[C6]+[C7]

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| Weed Code | CYPRO | CYPRO | AMALI | AMALI | DIGSA | plant 1 CPSAN | plant 2 CPSAN | plant 3 CPSAN |
|--|-----------|-----------|-----------|-----------|-----------|------------------|------------------|------------------|
| Part Rated | | | | | | Ft Lt | Ft Lt | Ft Lt |
| Rating Data Type | #/plot | #/plot | #/plot | #/plot | #/plot | ht | ht | ht |
| Rating Unit | per plot | per plot | per plot | per plot | per plot | cm | cm | cm |
| Rating Date | Apr-10-08 | May-09-08 | Apr-10-08 | May-09-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 |
| Crop Stage | | | | | | | | |
| Trt-Eval Interval | 56 DA-A | 85 DA-A | 56 DA-A | 85 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A |
| ARM Action Codes | | | | | | | | |
| Trt Treatment | | | | | | | | |
| No. Name | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Rate | | | | | | | | |
| Rate Unit | | | | | | | | |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | 35 a | 26 b | 3 b | 15 c | 185 a | 19 a | 20 a | 19 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | 43 a | 32 ab | 10 a | 25 b | 223 a | 19 a | 19 a | 19 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | 25 a | 51 a | 9 ab | 37 a | 248 a | 19 a | 18 a | 19 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | 28 a | 39 ab | 3 b | 9 c | 6 b | 17 a | 17 a | 18 a |
| LSD (P=.05) | 33.6 | 22.9 | 6.7 | 7.3 | 73.9 | 3.7 | 3.8 | 4.1 |
| Standard Deviation | 21.0 | 14.3 | 4.2 | 4.6 | 46.2 | 2.3 | 2.3 | 2.6 |
| CV | 64.6 | 38.74 | 68.78 | 21.32 | 27.92 | 12.65 | 12.85 | 13.82 |
| Bartlett's X2 | 0.367 | 1.721 | 0.429 | 4.474 | 11.307 | 1.22 | 1.061 | 0.514 |
| P(Bartlett's X2) | 0.947 | 0.632 | 0.934 | 0.215 | 0.01* | 0.748 | 0.787 | 0.916 |

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| Weed Code | plant 4 | plant 5 | plant 6 | plant 7 | plant 8 | plant 9 | plant 10 | plant 11 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | Ft Lt | Ft Lt | Ft Lt | Ft Lt | Ft Lt | Ft Lt | Ft Lt | Ft Lt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 20 a | 20 a | 19 a | 19 a | 18 a | 18 a | 20 a | 18 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 15 a | 16 a | 20 a | 18 a | 20 a | 20 a | 18 a | 19 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 18 a | 14 a | 18 a | 18 a | 19 a | 18 a | 19 a | 19 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 18 a | 19 a | 18 a | 18 a | 17 a | 18 a | 18 a | 16 a |
| LSD (P=.05) | | 8.6 | 8.8 | 2.6 | 2.1 | 3.2 | 4.6 | 2.8 | 3.5 |
| Standard Deviation | | 5.4 | 5.5 | 1.6 | 1.3 | 2.0 | 2.9 | 1.8 | 2.2 |
| CV | | 30.6 | 31.84 | 8.81 | 7.41 | 11.08 | 15.6 | 9.41 | 12.21 |
| Bartlett's X2 | | 14.307 | 10.684 | 1.865 | 2.868 | 1.39 | 1.563 | 6.421 | 0.562 |
| P(Bartlett's X2) | | 0.003* | 0.014* | 0.601 | 0.412 | 0.708 | 0.668 | 0.093 | 0.905 |

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| Weed Code | plant 12 | plant 13 | plant 14 | plant 15 | plant 16 | plant 17 | plant 18 | plant 19 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | Ft Lt | Ft Lt | Ft Lt | Ft Lt | Ft Lt | Ft Lt | Ft Lt | Ft Lt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | | | | | | | | | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 18 a | 19 a | 18 a | 18 a | 19 a | 19 ab | 19 a | 19 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 19 a | 20 a | 19 a | 20 a | 19 a | 20 a | 18 a | 19 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 18 a | 19 a | 18 a | 18 a | 18 a | 17 b | 18 a | 19 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 16 a | 17 a | 17 a | 16 a | 17 a | 17 b | 17 a | 17 a |
| LSD (P=.05) | | 3.3 | 2.8 | 2.6 | 4.0 | 4.4 | 2.7 | 2.8 | 4.1 |
| Standard Deviation | | 2.0 | 1.8 | 1.6 | 2.5 | 2.7 | 1.7 | 1.7 | 2.6 |
| CV | | 11.55 | 9.58 | 9.1 | 13.98 | 15.03 | 9.18 | 9.67 | 13.74 |
| Bartlett's X2 | | 1.056 | 3.282 | 1.072 | 1.553 | 1.676 | 2.048 | 0.689 | 1.308 |
| P(Bartlett's X2) | | 0.788 | 0.35 | 0.784 | 0.67 | 0.642 | 0.563 | 0.876 | 0.727 |

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| Weed Code | plant 20 | plant 1 | plant 2 | plant 3 | plant 4 | plant 5 | plant 6 | plant 7 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | Ft Lt | MD Lt | MD Lt | MD Lt | MD Lt | MD Lt | MD Lt | MD Lt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 18 ab | 20 a | 20 a | 18 a | 21 a | 18 a | 19 a | 19 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 18 ab | 19 a | 17 a | 18 a | 20 ab | 19 a | 18 a | 18 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 19 a | 19 a | 11 b | 19 a | 16 c | 19 a | 20 a | 19 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 17 b | 18 a | 17 a | 18 a | 18 bc | 17 a | 17 a | 16 a |
| LSD (P=.05) | | 2.0 | 2.5 | 5.6 | 3.3 | 2.1 | 4.1 | 5.6 | 3.8 |
| Standard Deviation | | 1.3 | 1.5 | 3.5 | 2.0 | 1.3 | 2.6 | 3.5 | 2.4 |
| CV | | 7.02 | 8.14 | 21.99 | 11.07 | 7.2 | 14.36 | 19.01 | 13.47 |
| Bartlett's X2 | | 1.335 | 3.747 | 9.366 | 2.114 | 0.836 | 0.985 | 4.977 | 4.953 |
| P(Bartlett's X2) | | 0.721 | 0.29 | 0.025* | 0.549 | 0.841 | 0.805 | 0.173 | 0.175 |

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| Weed Code | plant 8 | plant 9 | plant 10 | plant 11 | plant 12 | plant 13 | plant 14 | plant 15 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | MD Lt | MD Lt | MD Lt | MD Lt | MD Lt | MD Lt | MD Lt | MD Lt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 64 a | 19 ab | 17 a | 16 a | 17 a | 18 a | 19 a | 19 ab |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 18 a | 19 a | 19 a | 17 a | 18 a | 18 a | 18 a | 20 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 19 a | 16 b | 18 a | 18 a | 18 a | 19 a | 16 a | 17 b |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 18 a | 17 ab | 18 a | 16 a | 18 a | 19 a | 18 a | 18 ab |
| LSD (P=.05) | | 73.2 | 3.3 | 4.8 | 4.8 | 4.9 | 1.8 | 3.2 | 2.6 |
| Standard Deviation | | 45.7 | 2.0 | 3.0 | 3.0 | 3.1 | 1.2 | 2.0 | 1.6 |
| CV | | 154.71 | 11.54 | 16.95 | 17.61 | 17.36 | 6.33 | 11.42 | 8.87 |
| Bartlett's X2 | | 55.086 | 6.667 | 9.065 | 1.968 | 0.325 | 1.649 | 4.226 | 2.383 |
| P(Bartlett's X2) | | 0.001* | 0.083 | 0.028* | 0.579 | 0.955 | 0.648 | 0.238 | 0.497 |

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| Weed Code | plant 16 | plant 17 | plant 18 | plant 19 | plant 20 | plant 1 | plant 2 | plant 3 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | MD Lt | MD Lt | MD Lt | MD Lt | MD Lt | B Lt | B Lt | B Lt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | | | | | | | | | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 19 a | 17 a | 19 a | 19 a | 19 a | 18 a | 17 a | 18 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 17 a | 19 a | 18 a | 19 a | 16 a | 16 a | 15 a | 17 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 17 a | 17 a | 19 a | 18 a | 16 a | 16 a | 18 a | 17 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 18 a | 18 a | 16 a | 18 a | 17 a | 17 a | 17 a | 12 a |
| LSD (P=.05) | | 4.2 | 4.1 | 3.3 | 2.4 | 4.8 | 3.2 | 4.6 | 9.0 |
| Standard Deviation | | 2.6 | 2.6 | 2.1 | 1.5 | 3.0 | 2.0 | 2.9 | 5.6 |
| CV | | 14.85 | 14.68 | 11.7 | 8.28 | 17.48 | 12.35 | 17.11 | 35.73 |
| Bartlett's X2 | | 2.457 | 4.214 | 6.515 | 4.13 | 0.449 | 3.05 | 3.986 | 4.446 |
| P(Bartlett's X2) | | 0.483 | 0.239 | 0.089 | 0.248 | 0.93 | 0.384 | 0.263 | 0.217 |

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| Weed Code | plant 4 | plant 5 | plant 6 | plant 7 | plant 8 | plant 9 | plant 10 | plant 11 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | B Lt | B Lt | B Lt | B Lt | B Lt | B Lt | B Lt | B Lt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | | | | | | | | | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 16 a | 17 a | 16 a | 18 a | 18 a | 15 a | 14 a | 16 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 18 a | 15 a | 17 a | 17 a | 16 a | 16 a | 15 a | 16 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 17 a | 17 a | 17 a | 15 a | 17 a | 18 a | 18 a | 19 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 16 a | 18 a | 13 a | 16 a | 16 a | 17 a | 18 a | 15 a |
| LSD (P=.05) | | 2.9 | 5.3 | 6.4 | 4.2 | 3.1 | 3.5 | 7.6 | 5.4 |
| Standard Deviation | | 1.8 | 3.3 | 4.0 | 2.6 | 1.9 | 2.2 | 4.8 | 3.4 |
| CV | | 11.07 | 20.13 | 26.04 | 15.93 | 11.56 | 13.11 | 29.72 | 20.85 |
| Bartlett's X2 | | 5.957 | 1.608 | 17.858 | 5.71 | 4.888 | 3.75 | 12.108 | 3.214 |
| P(Bartlett's X2) | | 0.114 | 0.657 | 0.001* | 0.127 | 0.18 | 0.29 | 0.007* | 0.36 |

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

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| Weed Code | plant 12 | plant 13 | plant 14 | plant 15 | plant 16 | plant 17 | plant 18 | plant 19 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | B Lt | B Lt | B Lt | B Lt | B Lt | B Lt | B Lt | B Lt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 17 a | 16 a | 17 a | 18 a | 16 a | 17 a | 16 a | 16 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 15 a | 17 a | 15 a | 13 a | 14 a | 17 a | 15 a | 15 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 17 a | 17 a | 18 a | 16 a | 17 a | 16 a | 15 a | 16 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 15 a | 16 a | 15 a | 17 a | 18 a | 17 a | 16 a | 16 a |
| LSD (P=.05) | | 5.1 | 4.0 | 4.3 | 4.9 | 4.5 | 4.3 | 4.7 | 3.9 |
| Standard Deviation | | 3.2 | 2.5 | 2.7 | 3.1 | 2.8 | 2.7 | 2.9 | 2.4 |
| CV | | 20.16 | 15.27 | 16.87 | 19.27 | 17.69 | 16.26 | 19.06 | 15.53 |
| Bartlett's X2 | | 3.1 | 2.091 | 0.407 | 3.299 | 2.102 | 6.863 | 7.116 | 0.917 |
| P(Bartlett's X2) | | 0.377 | 0.554 | 0.939 | 0.348 | 0.551 | 0.076 | 0.068 | 0.821 |

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

University of Georgia

| Weed Code | plant 20 | plant av | plant 1 | plant 2 | plant 3 | plant 4 | plant 5 | plant 6 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | B Lt | Lt | Ft rt | Ft rt | Ft rt | Ft rt | Ft rt | Ft rt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | | | | | | | | | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | T1 | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 15 a | 19 a | 21 a | 19 a | 19 a | 20 a | 21 a | 19 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 15 a | 17 ab | 19 a | 19 a | 20 a | 21 a | 20 a | 19 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 17 a | 17 ab | 20 a | 19 a | 20 a | 20 a | 20 a | 21 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 15 a | 17 b | 19 a | 18 a | 17 a | 19 a | 19 a | 18 a |
| LSD (P=.05) | | 3.8 | 1.3 | 3.6 | 3.6 | 4.2 | 2.7 | 3.0 | 4.0 |
| Standard Deviation | | 2.4 | 0.8 | 2.3 | 2.2 | 2.6 | 1.7 | 1.9 | 2.5 |
| CV | | 15.46 | 4.73 | 11.7 | 12.04 | 13.75 | 8.58 | 9.38 | 12.89 |
| Bartlett's X2 | | 1.308 | 2.189 | 10.347 | 2.865 | 2.451 | 2.364 | 0.053 | 0.581 |
| P(Bartlett's X2) | | 0.727 | 0.534 | 0.016* | 0.413 | 0.484 | 0.50 | 0.974 | 0.901 |

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

Column 74: T1 = @AVG([C14].[C73])

University of Georgia

| Weed Code | plant 7 | plant 8 | plant 9 | plant 10 | plant 11 | plant 12 | plant 13 | plant 14 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | Ft rt | Ft rt | Ft rt | Ft rt | Ft rt | Ft rt | Ft rt | Ft rt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 20 a | 16 a | 19 a | 20 a | 21 a | 20 a | 20 a | 20 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 18 a | 20 a | 18 a | 21 a | 19 a | 17 a | 20 a | 20 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 19 a | 20 a | 20 a | 21 a | 15 a | 19 a | 21 a | 18 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 19 a | 18 a | 17 a | 19 a | 20 a | 20 a | 18 a | 17 a |
| LSD (P=.05) | | 2.8 | 8.9 | 3.8 | 2.5 | 7.2 | 2.7 | 3.0 | 4.1 |
| Standard Deviation | | 1.7 | 5.6 | 2.4 | 1.6 | 4.5 | 1.7 | 1.9 | 2.5 |
| CV | | 9.34 | 30.31 | 12.99 | 7.72 | 24.04 | 8.95 | 9.49 | 13.54 |
| Bartlett's X2 | | 1.008 | 21.002 | 0.938 | 4.111 | 10.303 | 2.103 | 3.748 | 3.987 |
| P(Bartlett's X2) | | 0.799 | 0.001* | 0.816 | 0.25 | 0.016* | 0.551 | 0.29 | 0.263 |

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

University of Georgia

| Weed Code | plant 15 | plant 16 | plant 17 | plant 18 | plant 19 | plant 20 | plant 1 | plant 2 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | Ft rt | Ft rt | Ft rt | Ft rt | Ft rt | Ft rt | M rt | M rt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 20 a | 18 a | 21 a | 20 a | 19 a | 20 a | 18 a | 18 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 18 a | 17 a | 19 a | 20 a | 16 b | 18 a | 21 a | 20 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 20 a | 19 a | 18 a | 20 a | 20 a | 20 a | 21 a | 20 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 19 a | 18 a | 17 a | 19 a | 19 a | 19 a | 17 a | 19 a |
| LSD (P=.05) | | 3.2 | 5.6 | 5.3 | 2.3 | 2.6 | 2.7 | 3.9 | 3.0 |
| Standard Deviation | | 2.0 | 3.5 | 3.3 | 1.4 | 1.6 | 1.7 | 2.4 | 1.9 |
| CV | | 10.35 | 19.27 | 17.5 | 7.39 | 8.99 | 8.9 | 12.71 | 9.7 |
| Bartlett's X2 | | 1.173 | 1.755 | 6.08 | 1.637 | 4.478 | 1.61 | 6.192 | 4.209 |
| P(Bartlett's X2) | | 0.76 | 0.625 | 0.108 | 0.651 | 0.214 | 0.657 | 0.103 | 0.24 |

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

University of Georgia

| Weed Code | plant 3 | plant 4 | plant 5 | plant 6 | plant 7 | plant 8 | plant 9 | plant 10 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | M rt | M rt | M rt | M rt | M rt | M rt | M rt | M rt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | | | | | | | | | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 97 | 98 | 99 | 100 | 101 | 102 | 103 | |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 18 a | 18 a | 15 a | 19 a | 20 a | 20 a | 20 a | 19 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 21 a | 21 a | 19 a | 19 a | 20 a | 18 a | 19 a | 19 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 21 a | 20 a | 18 a | 20 a | 20 a | 18 a | 17 b | 18 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 20 a | 16 a | 18 a | 19 a | 19 a | 18 a | 19 ab | 19 a |
| LSD (P=.05) | | 4.1 | 5.9 | 8.9 | 5.3 | 3.8 | 4.1 | 1.9 | 3.2 |
| Standard Deviation | | 2.5 | 3.7 | 5.6 | 3.3 | 2.4 | 2.6 | 1.2 | 2.0 |
| CV | | 12.75 | 19.75 | 32.43 | 17.43 | 12.1 | 14.03 | 6.11 | 10.63 |
| Bartlett's X2 | | 2.913 | 1.321 | 9.09 | 1.318 | 2.407 | 4.541 | 1.0 | 0.566 |
| P(Bartlett's X2) | | 0.405 | 0.724 | 0.028* | 0.725 | 0.492 | 0.209 | 0.801 | 0.904 |

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

University of Georgia

| Weed Code | plant 11 | plant 12 | plant 13 | plant 14 | plant 15 | plant 16 | plant 17 | plant 18 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN |
| Part Rated | M rt | M rt | M rt | M rt | M rt | M rt | M rt | M rt |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 |
| Crop Stage | | | | | | | | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A |
| ARM Action Codes | | | | | | | | |
| Trt Treatment | Rate | | | | | | | |
| No. Name | Rate Unit | 105 | 106 | 107 | 108 | 109 | 110 | 111 |
| 105 | | | | | | | | |
| 106 | | | | | | | | |
| 107 | | | | | | | | |
| 108 | | | | | | | | |
| 109 | | | | | | | | |
| 110 | | | | | | | | |
| 111 | | | | | | | | |
| 112 | | | | | | | | |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | 20 a | 21 a | 19 a | 18 a | 18 a | 20 a | 19 a | 20 ab |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | 20 a | 20 a | 18 a | 19 a | 19 a | 19 a | 20 a | 20 ab |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | 19 ab | 19 ab | 18 a | 18 a | 15 a | 18 a | 17 a | 17 b |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | 16 b | 17 b | 19 a | 16 a | 17 a | 19 a | 17 a | 21 a |
| LSD (P=.05) | 3.0 | 2.4 | 3.8 | 6.6 | 8.7 | 2.1 | 3.8 | 3.0 |
| Standard Deviation | 1.9 | 1.5 | 2.4 | 4.1 | 5.4 | 1.3 | 2.4 | 1.9 |
| CV | 10.13 | 7.84 | 12.8 | 23.26 | 31.63 | 7.1 | 13.41 | 9.67 |
| Bartlett's X2 | 1.703 | 2.966 | 0.843 | 3.223 | 7.793 | 1.463 | 2.595 | 0.585 |
| P(Bartlett's X2) | 0.636 | 0.397 | 0.839 | 0.358 | 0.05 | 0.691 | 0.458 | 0.90 |

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

University of Georgia

| Weed Code | plant 19 | plant 20 | plant 1 | plant 2 | plant 3 | plant 4 | plant 5 | plant 6 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | M rt | M rt | B rt | B rt | B rt | B rt | B rt | B rt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | | | | | | | | | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 113 | 114 | 115 | 116 | 117 | 118 | 119 | |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 19 a | 17 a | 15 a | 15 a | 16 a | 16 a | 16 a | 15 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 20 a | 20 a | 15 a | 13 a | 15 a | 15 a | 16 a | 15 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 15 b | 17 a | 16 a | 16 a | 16 a | 17 a | 17 a | 16 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 18 ab | 18 a | 16 a | 15 a | 14 a | 15 a | 15 a | 15 a |
| LSD (P=.05) | | 3.6 | 3.3 | 4.3 | 2.8 | 2.4 | 3.9 | 3.7 | 3.5 |
| Standard Deviation | | 2.2 | 2.1 | 2.7 | 1.8 | 1.5 | 2.4 | 2.3 | 2.2 |
| CV | | 12.56 | 11.78 | 17.56 | 11.96 | 10.18 | 15.86 | 14.82 | 14.69 |
| Bartlett's X2 | | 1.689 | 0.895 | 9.002 | 3.888 | 2.839 | 1.112 | 1.806 | 2.137 |
| P(Bartlett's X2) | | 0.639 | 0.827 | 0.029* | 0.274 | 0.417 | 0.774 | 0.614 | 0.545 |

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

University of Georgia

| Weed Code | plant 7 | plant 8 | plant 9 | plant 10 | plant 11 | plant 12 | plant 13 | plant 14 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | B rt | B rt | B rt | B rt | B rt | B rt | B rt | B rt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | | | | | | | | | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 14 a | 16 a | 16 a | 15 a | 16 a | 15 a | 15 a | 15 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 14 a | 15 a | 16 a | 14 a | 14 a | 15 a | 13 a | 16 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 16 a | 17 a | 17 a | 15 a | 16 a | 17 a | 16 a | 15 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 13 a | 15 a | 16 a | 15 a | 14 a | 16 a | 16 a | 15 a |
| LSD (P=.05) | | 3.7 | 3.8 | 4.6 | 2.4 | 3.6 | 3.0 | 8.2 | 4.4 |
| Standard Deviation | | 2.3 | 2.4 | 2.8 | 1.5 | 2.3 | 1.9 | 5.1 | 2.8 |
| CV | | 16.04 | 15.2 | 17.8 | 10.36 | 15.1 | 11.84 | 34.61 | 18.41 |
| Bartlett's X2 | | 8.105 | 3.481 | 1.594 | 5.851 | 3.283 | 1.003 | 13.624 | 1.212 |
| P(Bartlett's X2) | | 0.044* | 0.323 | 0.661 | 0.119 | 0.35 | 0.606 | 0.003* | 0.75 |

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

University of Georgia

| Weed Code | plant 15 | plant 16 | plant 17 | plant 18 | plant 19 | plant 20 | plant av | AVG120PL | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | B rt | B rt | B rt | B rt | B rt | B rt | B rt | B rt | |
| Rating Data Type | ht | ht | ht | ht | ht | ht | ht | ht | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | Apr-10-08 | |
| Crop Stage | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| Trt-Eval Interval | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | 56 DA-A | |
| ARM Action Codes | | | | | | | T2 | T13 | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 16 a | 17 a | 16 a | 17 a | 16 a | 16 a | 18 a | 18 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 14 a | 15 a | 14 a | 14 a | 15 a | 13 b | 18 a | 17 ab |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 16 a | 16 a | 15 a | 16 a | 16 a | 17 a | 18 a | 18 ab |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 15 a | 16 a | 15 a | 15 a | 15 a | 15 ab | 17 a | 17 b |
| LSD (P=.05) | | 3.5 | 3.5 | 4.2 | 4.4 | 4.3 | 2.6 | 1.4 | 1.1 |
| Standard Deviation | | 2.2 | 2.2 | 2.6 | 2.7 | 2.7 | 1.7 | 0.9 | 0.7 |
| CV | | 14.33 | 13.89 | 17.36 | 17.96 | 17.14 | 11.06 | 5.15 | 4.08 |
| Bartlett's X2 | | 0.481 | 5.002 | 1.712 | 1.845 | 7.713 | 0.798 | 10.955 | 12.49 |
| P(Bartlett's X2) | | 0.923 | 0.172 | 0.425 | 0.605 | 0.052 | 0.85 | 0.012* | 0.006* |

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

Column 135: T2 = @AVG([C75].[C134])

Column 136: T13 = ([C74]+[C135])/2

University of Georgia

| Weed Code | harv 1 | harv 1 | harv 1 | harv 1 | harv 1 | harv 2 | harv 2 | harv 2 | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Part Rated | | | | | | | | | |
| Rating Data Type | # boxes | # boxes | # boxes | # boxes | # boxes | # boxes | # boxes | # boxes | |
| Rating Unit | per plot | per plot | per plot | per plot | per plot | per plot | per plot | per plot | |
| Rating Date | May-29-08 | May-29-08 | May-29-08 | May-29-08 | Jun-03-08 | Jun-03-08 | Jun-03-08 | Jun-03-08 | |
| Crop Stage | Jumbo | X-Large | Large | Chopper | Cull | Jumbo | X-Large | Large | |
| Trt-Eval Interval | 105 DA-A | 105 DA-A | 105 DA-A | 105 DA-A | 110 DA-A | 110 DA-A | 110 DA-A | 110 DA-A | |
| ARM Action Codes | | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | | 13 a | 24 a | 1 a | 1 a | 1 a | 20 a | 37 a | 4 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | | 14 a | 27 a | 1 a | 1 a | 1 a | 22 a | 38 a | 4 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | | 10 a | 25 a | 1 a | 1 a | 0 a | 21 a | 28 a | 2 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | | 11 a | 25 a | 1 a | 1 a | 1 a | 24 a | 31 a | 3 a |
| LSD (P=.05) | | 5.4 | 7.2 | 0.6 | 0.8 | 0.6 | 10.7 | 14.3 | 2.8 |
| Standard Deviation | | 3.4 | 4.5 | 0.4 | 0.5 | 0.4 | 6.7 | 8.9 | 1.8 |
| CV | | 28.2 | 17.53 | 36.8 | 45.53 | 53.3 | 31.03 | 26.66 | 57.17 |
| Bartlett's X2 | | 5.652 | 1.635 | 2.6 | 10.381 | 1.931 | 1.61 | 2.319 | 2.557 |
| P(Bartlett's X2) | | 0.13 | 0.652 | 0.457 | 0.016* | 0.587 | 0.657 | 0.509 | 0.465 |

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

University of Georgia

| Weed Code | harv 2 CPSAN | harv 2 CPSAN | harv 2 CPSAN | harv 3 CPSAN | harv 3 CPSAN | harv 3 CPSAN | harv 3 CPSAN | harv 3 CPSAN |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Crop Code | | | | | | | | |
| Part Rated | | | | | | | | |
| Rating Data Type | # boxes | # boxes | # boxes | # boxes | # boxes | # boxes | # boxes | # boxes |
| Rating Unit | per plot | per plot | per plot | per plot | per plot | per plot | per plot | per plot |
| Rating Date | Jun-03-08 | Jun-03-08 | Jun-03-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 |
| Crop Stage | Chopper | Medium | Cull | Jumbo | X-Large | Large | Suntan | Chopper |
| Trt-Eval Interval | 110 DA-A | 110 DA-A | 110 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A |
| ARM Action Codes | | | | | | | | |
| Trt Treatment | | | | | | | | |
| No. Name | | | | | | | | |
| Rate | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 |
| Rate Unit | | | | | | | | |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | 4 a | 0 a | 0 ab | 83 a | 156 a | 12 a | 18 a | 24 ab |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | 4 a | 0 a | 1 ab | 78 a | 139 a | 10 a | 22 a | 27 ab |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | 4 a | 0 a | 1 a | 70 a | 143 a | 13 a | 15 a | 22 b |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | 4 a | 0 a | 0 b | 87 a | 172 a | 12 a | 22 a | 29 a |
| LSD (P=.05) | 1.5 | 0.2 | 0.3 | 24.5 | 44.4 | 11.2 | 8.9 | 5.6 |
| Standard Deviation | 1.0 | 0.1 | 0.2 | 15.3 | 27.7 | 7.0 | 5.6 | 3.5 |
| CV | 24.27 | 57.14 | 46.59 | 19.32 | 18.18 | 59.42 | 28.7 | 13.86 |
| Bartlett's X2 | 0.939 | 0.963 | 1.83 | 2.901 | 4.116 | 7.96 | 3.135 | 2.251 |
| P(Bartlett's X2) | 0.816 | 0.618 | 0.608 | 0.407 | 0.249 | 0.047* | 0.371 | 0.522 |

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

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| Weed Code | harv 3 CPSAN | harv 4 CPSAN | harv 4 CPSAN | harv 4 CPSAN | harv 4 CPSAN | harv 4 CPSAN | harv 4 CPSAN | harv 4 CPSAN |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Crop Code | | | | | | | | |
| Part Rated | | | | | | | | |
| Rating Data Type | # boxes | # boxes | # boxes | # boxes | # boxes | # boxes | # boxes | # boxes |
| Rating Unit | per plot | per plot | per plot | per plot | per plot | per plot | per plot | per plot |
| Rating Date | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 |
| Crop Stage | Cull | Jumbo | X-Large | Large | Suntan | Chopper | Medium | Choice |
| Trt-Eval Interval | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A |
| ARM Action Codes | | | | | | | | |
| Trt Treatment | | | | | | | | |
| No. Name | | | | | | | | |
| Rate | | | | | | | | |
| Rate Unit | | | | | | | | |
| 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | 8 a | 20 a | 92 a | 26 a | 30 a | 8 a | 2 a | 3 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | 9 a | 20 a | 83 a | 28 a | 31 a | 10 a | 2 a | 2 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | 9 a | 13 a | 76 a | 26 a | 29 a | 9 a | 3 a | 2 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | 9 a | 20 a | 88 a | 30 a | 35 a | 10 a | 4 a | 2 a |
| LSD (P=.05) | 3.7 | 9.4 | 16.8 | 8.9 | 10.4 | 4.5 | 2.2 | 2.0 |
| Standard Deviation | 2.3 | 5.9 | 10.5 | 5.6 | 6.5 | 2.8 | 1.4 | 1.2 |
| CV | 26.71 | 32.11 | 12.42 | 20.42 | 20.57 | 29.89 | 53.92 | 63.36 |
| Bartlett's X2 | 1.208 | 2.671 | 7.391 | 6.429 | 2.667 | 8.249 | 6.452 | 2.229 |
| P(Bartlett's X2) | 0.751 | 0.445 | 0.06 | 0.092 | 0.446 | 0.041* | 0.092 | 0.526 |

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

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| Weed Code | harv 4 CPSAN | harv 1-2 CPSAN | harv 1-2 CPSAN | harv 1-2 CPSAN | harv 1-2 CPSAN | harv 1-2 CPSAN | harv 1-4 CPSAN | harv 1-4 CPSAN |
|--|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Crop Code | | | | | | | | |
| Part Rated | | | | | | | | |
| Rating Data Type | # boxes | # boxes | # boxes | # boxes | # boxes | # boxes | # boxes | # boxes |
| Rating Unit | per plot | per plot | per plot | per plot | per plot | per plot | per plot | per plot |
| Rating Date | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 |
| Crop Stage | Cull | Jumbo | X-Large | Large | Suntan | Chopper | Jumbo | X-Large |
| Trt-Eval Interval | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A |
| ARM Action Codes | | T3 | T5 | T6 | T8 | T10 | T4 | T21 |
| Trt Treatment | | | | | | | | |
| No. Name | | | | | | | | |
| Rate | | | | | | | | |
| Rate Unit | | | | | | | | |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | 11 a | 32 a | 62 a | 4 a | 5 a | 1 ab | 135 a | 265 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | 11 a | 36 a | 66 a | 5 a | 5 a | 1 a | 134 a | 237 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | 12 a | 31 a | 53 a | 3 a | 4 a | 1 b | 114 a | 236 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | 11 a | 35 a | 56 a | 4 a | 5 a | 1 ab | 141 a | 274 a |
| LSD (P=.05) | 2.4 | 13.5 | 14.8 | 2.9 | 2.0 | 0.5 | 27.7 | 36.7 |
| Standard Deviation | 1.5 | 8.4 | 9.2 | 1.8 | 1.3 | 0.3 | 17.3 | 22.9 |
| CV | 13.81 | 25.13 | 15.66 | 43.87 | 25.39 | 33.36 | 13.19 | 9.07 |
| Bartlett's X2 | 0.971 | 0.12 | 2.461 | 1.969 | 0.331 | 3.343 | 5.246 | 4.887 |
| P(Bartlett's X2) | 0.808 | 0.989 | 0.482 | 0.579 | 0.954 | 0.342 | 0.155 | 0.18 |

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

Column 162: T3 = ([C137]+[C142])

Column 163: T5 = ([C138]+[C143])

Column 164: T6 = ([C139]+[C144])

Column 165: T8 = ([C140]+[C145])

Column 166: T10 = ([C141]+[C146])

Column 167: T4 = ([C137]+[C142]+[C148]+[C154])

Column 168: T21 = [C65]+[C155]+[C149]

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| Weed Code | harv 1-4 CPSAN | harv 1-4 CPSAN | harv 1-4 CPSAN | harv 1-4 CPSAN | | harv 1-4 CPSAN | harv 1-4 CPSAN | harv 1-4 CPSAN |
|--|-------------------|-------------------|-------------------|-------------------|-----------|-------------------|-------------------|-------------------|
| Crop Code | | | | | | | | |
| Part Rated | | | | | | | | |
| Rating Data Type | # boxes | # boxes | # boxes | # boxes | Total | # boxes | # boxes | # boxes |
| Rating Unit | per plot | per plot | per plot | per plot | box/plot | per acre | per acre | per acre |
| Rating Date | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-12-08 |
| Crop Stage | Large | Medium | Suntan | Chopper | ALL FRUI | Jumbo | X-Large | Large |
| Trt-Eval Interval | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A | 119 DA-A |
| ARM Action Codes | T7 | T12 | T9 | T11 | T15 | T17 | T22 | T18 |
| Trt Treatment | | | | | | | | |
| No. Name | | | | | | | | |
| Rate | | | | | | | | |
| Rate Unit | | | | | | | | |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | 42 a | 10 a | 54 a | 33 b | 528 ab | 433 a | 847 a | 136 a |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | 43 a | 12 a | 58 a | 38 ab | 510 ab | 429 a | 758 a | 139 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | 42 a | 12 a | 49 a | 32 b | 473 b | 365 a | 754 a | 136 a |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | 45 a | 12 a | 63 a | 41 a | 564 a | 453 a | 878 a | 146 a |
| LSD (P=.05) | 13.2 | 4.7 | 12.5 | 7.1 | 54.8 | 88.5 | 117.4 | 42.4 |
| Standard Deviation | 8.2 | 3.0 | 7.8 | 4.5 | 34.3 | 55.4 | 73.4 | 26.5 |
| CV | 19.03 | 25.51 | 14.03 | 12.51 | 6.61 | 13.18 | 9.07 | 19.03 |
| Bartlett's X2 | 1.422 | 0.576 | 2.342 | 0.954 | 5.963 | 5.246 | 4.887 | 1.422 |
| P(Bartlett's X2) | 0.70 | 0.902 | 0.504 | 0.812 | 0.113 | 0.155 | 0.18 | 0.70 |

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

Column 169: T7 = ([C139]+[C144]+[C150]+[C156])

Column 170: T12 = ([C147]+[C153]+[C159])

Column 171: T9 = ([C140]+[C145]+[C151]+[C157])

Column 172: T11 = ([C141]+[C146]+[C152]+[C158])

Column 173: T15 = [C169]+[C170]+[C171]+[C173]+[C174]

Column 174: T17 = [C169]*3.2

Column 175: T22 = [C170]*3.2

Column 176: T18 = [C171]*3.22

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| Weed Code | harv 1-4 CPSAN | harv 1-4 CPSAN | | CPSAN | CPSAN |
|--|-------------------|-------------------|-----------|-------------|-----------|
| Crop Code | | | | | |
| Part Rated | | | | | |
| Rating Data Type | # boxes | # boxes | Total | Gall rating | nem assay |
| Rating Unit | per acre | per acre | per acre | 0-10 | root-kno |
| Rating Date | Jun-12-08 | Jun-12-08 | Jun-12-08 | Jun-23-08 | Jun-23-08 |
| Crop Stage | Suntan | Chopper | ALL FRUI | | |
| Trt-Eval Interval | 119 DA-A | 119 DA-A | 119 DA-A | 130 DA-A | 130 DA-A |
| ARM Action Codes | T19 | T20 | T23 | | |
| Trt Treatment | Rate | | | | |
| No. Name | Rate Unit | | | | |
| | 180 | 181 | 182 | 184 | 185 |
| 1 DMDS 79:21 @ 60 G Blockade Mulch | 172 a | 105 b | 1693 ab | 4 a | 55 ab |
| 2 DMDS 79:21 @ 50 G Blockade Mulch | 188 a | 121 ab | 1635 ab | 6 a | 319 a |
| 3 DMDS 79:21 @ 40 G Blockade Mulch | 159 a | 103 b | 1517 b | 4 a | 54 ab |
| 4 Telone 12 G Chloropcirin 150 lb Vapam 75 G LDPE Mulch | 201 a | 131 a | 1809 a | 2 a | 29 b |
| LSD (P=.05) | 40.4 | 23.0 | 175.6 | 4.7 | 256.0 |
| Standard Deviation | 25.3 | 14.4 | 109.8 | 2.9 | 160.1 |
| CV | 14.03 | 12.51 | 6.6 | 74.56 | 140.25 |
| Bartlett's X2 | 2.342 | 0.954 | 5.973 | 1.832 | 18.364 |
| P(Bartlett's X2) | 0.504 | 0.812 | 0.113 | 0.608 | 0.001* |

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

Column 177: T19 = [C173]*3.22

Column 178: T20 = [C174]*3.22

Column 179: T23 = [C177]+[C178]+[C179]+[C180]+[C181]

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MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

| | | |
|------------|------------|----------------------------|
| % Sand: 88 | % OM: 1.1 | Texture: Tifton sandy loam |
| % Silt: 7 | pH: 6.4 | Soil Name: _____ |
| % Clay: 5 | 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-14-08 |
| Time of Day: | all day |
| Application Method: | see |
| Application Timing: | comments |
| Applic. Placement: | . |
| Air Temp., Unit: | |
| % Relative Humidity: | |
| Wind Velocity, Unit: | |
| Dew Presence (Y/N): | |
| Water Hardness: | |
| Soil Temp., Unit: | |
| Soil Moisture: | |
| % Cloud Cover: | |

CROP STAGE AT EACH APPLICATION

| | A |
|---------------------|----------|
| Crop 1 Code, Stage: | CPSAN A |
| Stage Scale: | preplant |
| Height, Unit: | 0 in |

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WEED STAGE AT EACH APPLICATION

| | A |
|---------------------|----------------|
| Weed 1 Code, Stage: | CYPRO preplant |
| Stage Scale: | no emerge |
| Density, Unit: | . . |
| Weed 2 Code, Stage: | AMALI preplant |
| Stage Scale: | no emerge |
| Density, Unit: | . . |
| Weed 3 Code, Stage: | DIGSA preplant |
| Stage Scale: | no emerge |
| Density, Unit: | . . |

APPLICATION EQUIPMENT

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

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