

University of Georgia

Watermelon and Cucumber Plant-back after 2,4-D application.

Trial ID: Veg31-06
 Location: TyTy, GA

Study Dir.: Andrew MacRae
 Investigator: Stanley Culpepper

Reps: 4 Plots: 18 by 25 feet
 Spray vol: 14.8 gal/ac Mix size: 3 liters (min 2.8938)

| Trt No. | Treatment Name | Form Conc | Form Unit | Form Type | Rate Rate | Grow Unit | Stg | Appl Code | Amt to Measure | Product Measure | Plot No. By Rep | | | |
|---------|-------------------|-----------|-----------|-----------|-----------|-----------|-----|-----------|----------------|-----------------|-----------------|-----|-----|-----|
| | | | | | | | | | | | 1 | 2 | 3 | 4 |
| 1 | 2,4-D Amine | 4 | LB/GAL | EC | 1 | PT/A | 21 | DBP | A | 25.34 ml/mx | 101 | 205 | 304 | 406 |
| 2 | 2,4-D Amine | 4 | LB/GAL | EC | 1 | PT/A | 14 | DBP | B | 25.34 ml/mx | 102 | 201 | 307 | 404 |
| 3 | 2,4-D Amine | 4 | LB/GAL | EC | 1 | PT/A | 7 | DBP | C | 25.34 ml/mx | 103 | 204 | 308 | 401 |
| 4 | 2,4-D Amine | 4 | LB/GAL | EC | 1 | PT/A | 0 | DBP | D | 25.34 ml/mx | 104 | 206 | 309 | 403 |
| 5 | 2,4-D Amine | 4 | LB/GAL | EC | 2 | PT/A | 21 | DBP | A | 50.67 ml/mx | 105 | 203 | 306 | 409 |
| 6 | 2,4-D Amine | 4 | LB/GAL | EC | 2 | PT/A | 14 | DBP | B | 50.67 ml/mx | 106 | 209 | 305 | 408 |
| 7 | 2,4-D Amine | 4 | LB/GAL | EC | 2 | PT/A | 7 | DBP | C | 50.67 ml/mx | 107 | 208 | 303 | 407 |
| 8 | 2,4-D Amine | 4 | LB/GAL | EC | 2 | PT/A | 0 | DBP | D | 50.67 ml/mx | 108 | 207 | 302 | 405 |
| 9 | Non-treated Check | | | | | | | | | | 109 | 202 | 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 |
|---------|------|----------------|-----------|-----------|----------|
| 380.027 | ml | 2,4-D Amine | 4 | EC | |

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 3 liters (mix size basis).
 * Product amount calculations increased 25 % for overage adjustment.

Trial Comments

University of Georgia

Watermelon and Cucumber Plant-back after 2,4-D application.

Trial ID: Veg31-06

Study Dir.: Andrew MacRae

Location: TyTy, GA

Investigator: Stanley Culpepper

| Crop Code | CUMSA | CITLA | CUMSA | CITLA | CUMSA | CUMSA | CUMSA | CUMSA | | | |
|--------------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|-------|
| Rating Data Type | Injury | Injury | Injury | Injury | Harv 1 | Harv 1 | Length | Length | | | |
| Rating Unit | % | % | % | % | num/plt | kg/plt | cm | cm | | | |
| Rating Date | Apr-26-06 | Apr-26-06 | May-11-06 | May-11-06 | May-26-06 | May-26-06 | May-26-06 | May-26-06 | | | |
| Crop Stage | | | | | | | | | | | |
| Trt-Eval Interval | 14 DA-D | 14 DA-D | 29 DA-D | 29 DA-D | 44 DA-D | 44 DA-D | 44 DA-D | 44 DA-D | | | |
| ARM Action Codes | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | 2,4-D Amine | 1 | PT/A | 30 c | 51 b | 33 d | 40 de | 13 b | 2 bc | 14 a | 13 a |
| 2 | 2,4-D Amine | 1 | PT/A | 29 c | 43 c | 34 d | 36 e | 11 bc | 2 b | 15 a | 13 a |
| 3 | 2,4-D Amine | 1 | PT/A | 38 bc | 53 b | 55 c | 61 cd | 6 cd | 1 cd | 12 ab | 13 a |
| 4 | 2,4-D Amine | 1 | PT/A | 46 b | 53 b | 80 ab | 69 abc | 1 d | 0 d | 8 abc | 2 b |
| 5 | 2,4-D Amine | 2 | PT/A | 44 b | 64 a | 79 ab | 84 ab | 2 d | 0 d | 4 bc | 3 b |
| 6 | 2,4-D Amine | 2 | PT/A | 41 b | 54 b | 69 bc | 59 cd | 3 d | 0 d | 11 ab | 4 b |
| 7 | 2,4-D Amine | 2 | PT/A | 43 b | 55 b | 78 ab | 64 bc | 0 d | 0 d | 4 bc | 0 b |
| 8 | 2,4-D Amine | 2 | PT/A | 56 a | 70 a | 91 a | 86 a | 0 d | 0 d | 0 c | 0 b |
| 9 | Non-treated Check | | | 0 d | 0 d | 0 e | 0 f | 30 a | 5 a | 14 a | 16 a |
| LSD (P=.05) | | | | 9.8 | 8.0 | 15.1 | 20.3 | 5.4 | 1.0 | 8.1 | 4.4 |
| Standard Deviation | | | | 6.7 | 5.5 | 10.3 | 13.9 | 3.7 | 0.7 | 5.6 | 3.0 |
| CV | | | | 18.56 | 11.16 | 17.97 | 25.11 | 50.36 | 61.47 | 63.02 | 43.13 |
| Bartlett's X2 | | | | 3.904 | 5.701 | 9.779 | 6.617 | 16.546 | 19.15 | 17.763 | 9.737 |
| P(Bartlett's X2) | | | | 0.69 | 0.575 | 0.201 | 0.47 | 0.021* | 0.008* | 0.013* | 0.136 |

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

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| Crop Code | CUMSA Length | CUMSA Length | CUMSA Length | CUMSA Length | CUMSA Length | CUMSA Length | CUMSA Length | CUMSA Length | | | |
|--------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------|-------|-------|
| Rating Data Type | cm | cm | cm | cm | cm | cm | cm | cm | | | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | | | |
| Rating Date | May-26-06 | May-26-06 | May-26-06 | May-26-06 | May-26-06 | May-26-06 | May-26-06 | May-26-06 | | | |
| Crop Stage | | | | | | | | | | | |
| Trt-Eval Interval | 44 DA-D | 44 DA-D | 44 DA-D | 44 DA-D | 44 DA-D | 44 DA-D | 44 DA-D | 44 DA-D | | | |
| ARM Action Codes | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | 2,4-D Amine | 1 | PT/A | 14 ab | 13 a | 12 ab | 12 a | 12 a | 12 ab | 13 a | 11 a |
| 2 | 2,4-D Amine | 1 | PT/A | 12 abc | 10 ab | 11 ab | 10 a | 11 a | 10 b | 10 a | 11 a |
| 3 | 2,4-D Amine | 1 | PT/A | 11 a-d | 10 ab | 7 bc | 3 b | 3 b | 2 c | 4 b | 3 b |
| 4 | 2,4-D Amine | 1 | PT/A | 3 de | 0 c | 0 d | 0 b | 0 b | 0 c | 0 b | 0 b |
| 5 | 2,4-D Amine | 2 | PT/A | 4 cde | 2 c | 3 cd | 3 b | 0 b | 0 c | 0 b | 0 b |
| 6 | 2,4-D Amine | 2 | PT/A | 8 b-e | 4 bc | 2 cd | 2 b | 0 b | 0 c | 0 b | 0 b |
| 7 | 2,4-D Amine | 2 | PT/A | 0 e | 0 c | 0 d | 0 b | 0 b | 0 c | 0 b | 0 b |
| 8 | 2,4-D Amine | 2 | PT/A | 0 e | 0 c | 0 d | 0 b | 0 b | 0 c | 0 b | 0 b |
| 9 | Non-treated Check | | | 16 a | 15 a | 15 a | 17 a | 16 a | 16 a | 14 a | 15 a |
| LSD (P=.05) | | | | 7.2 | 6.4 | 5.5 | 6.0 | 4.8 | 4.2 | 5.0 | 5.2 |
| Standard Deviation | | | | 4.9 | 4.4 | 3.8 | 4.1 | 3.3 | 2.9 | 3.4 | 3.5 |
| CV | | | | 66.36 | 74.03 | 68.75 | 77.41 | 71.32 | 66.16 | 75.0 | 81.11 |
| Bartlett's X2 | | | | 17.349 | 14.373 | 10.76 | 9.951 | 6.29 | 7.375 | 6.969 | 3.431 |
| P(Bartlett's X2) | | | | 0.008* | 0.013* | 0.056 | 0.077 | 0.098 | 0.061 | 0.073 | 0.33 |

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

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| Crop Code | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | CUMSA | | | |
|--------------------|-------------------|-------------|-----------|-----------|-------------|-------------|-----------|-----------|--------|----------|---------|
| Rating Data Type | Plot Harv 1 | Plot Harv 1 | Harv 1 | Harv 1 | Plot Harv 2 | Plot Harv 2 | Harv 2 | Harv 2 | | | |
| Rating Unit | numsampl | ave leng | num/A | lbs/A | number | lbs/plt | num/A | lbs/A | | | |
| Rating Date | May-26-06 | May-26-06 | May-26-06 | May-26-06 | Jun-09-06 | Jun-09-06 | Jun-09-06 | Jun-09-06 | | | |
| Crop Stage | | | | | | | | | | | |
| Trt-Eval Interval | 44 DA-D | 44 DA-D | 44 DA-D | 44 DA-D | 58 DA-D | 58 DA-D | 58 DA-D | 58 DA-D | | | |
| ARM Action Codes | | T1 | T2 | T3 | | | T12 | T13 | | | |
| Trt No. | Treatment Name | Rate | Unit | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 2,4-D Amine | 1 | PT/A | 10 a | 13 ab | 4810 b | 616 bc | 19 bc | 13 b | 6897 bc | 4715 b |
| 2 | 2,4-D Amine | 1 | PT/A | 8 ab | 13 ab | 4084 bc | 672 b | 23 b | 14 b | 8168 b | 5097 b |
| 3 | 2,4-D Amine | 1 | PT/A | 6 b | 11 abc | 2178 cd | 265 cd | 17 bcd | 10 bc | 5990 bcd | 3643 bc |
| 4 | 2,4-D Amine | 1 | PT/A | 1 c | 7 b-e | 363 d | 52 d | 6 e | 4 cd | 2087 e | 1357 cd |
| 5 | 2,4-D Amine | 2 | PT/A | 2 c | 3 de | 545 d | 86 d | 10 cde | 6 cd | 3630 cde | 2078 cd |
| 6 | 2,4-D Amine | 2 | PT/A | 3 c | 10 a-d | 908 d | 121 d | 16 bcd | 10 bc | 5808 bcd | 3468 bc |
| 7 | 2,4-D Amine | 2 | PT/A | 0 c | 4 cde | 91 d | 19 d | 7 de | 4 cd | 2632 de | 1510 cd |
| 8 | 2,4-D Amine | 2 | PT/A | 0 c | 0 e | 0 d | 0 d | 2 e | 1 d | 726 e | 355 d |
| 9 | Non-treated Check | | | 10 a | 15 a | 10890 a | 1973 a | 35 a | 28 a | 12796 a | 10098 a |
| LSD (P=.05) | | | | 3.1 | 7.2 | 1949.1 | 379.2 | 9.1 | 6.1 | 3307.2 | 2229.0 |
| Standard Deviation | | | | 2.1 | 4.9 | 1335.5 | 259.8 | 6.2 | 4.2 | 2266.1 | 1527.3 |
| CV | | | | 48.78 | 59.26 | 50.36 | 61.47 | 41.85 | 42.53 | 41.85 | 42.53 |
| Bartlett's X2 | | | | 8.818 | 20.872 | 16.546 | 19.15 | 19.786 | 26.63 | 19.786 | 26.63 |
| P(Bartlett's X2) | | | | 0.117 | 0.004* | 0.021* | 0.008* | 0.011* | 0.001* | 0.011* | 0.001* |

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

| |
|--|
| Column 18: T1 = $([C7]+[C8]+[C9]+[C10]+[C11]+[C12]+[C13]+[C14]+[C15]+[C16])/[C17]$ |
| Column 19: T2 = $[C5]/120*43560$ |
| Column 20: T3 = $[C6]/120*43560$ |
| Column 23: T12 = $[C21]/120*43560$ |
| Column 24: T13 = $[C22]/120*43560$ |

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| Crop Code | CUMSA | CUMSA | CITLA | CITLA | CITLA | CITLA | CITLA | CITLA | | |
|--------------------|-------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|--------|-------|
| Rating Data Type | Total Harv | Total Harv | Harvest | Harvest | Harvest | Harvest | Harvest | Plot Harv | | |
| Rating Unit | num/A | lbs/A | lb/fruit | lb/fruit | lb/fruit | lb/fruit | lb/fruit | num/plt | | |
| Rating Date | | | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | | |
| Crop Stage | | | Mardi Gr | Mardi Gr | Mardi Gr | Mardi Gr | Mardi Gr | Mardi Gr | | |
| Trt-Eval Interval | | | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | | |
| ARM Action Codes | T14 | T15 | | | | | | | | |
| Trt No. | Treatment Name | Rate | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| | | Rate Unit | | | | | | | | |
| 1 | 2,4-D Amine | 1 PT/A | 11707 bc | 5332 b | 24 a | 21 a | 15 a | 7 a | 5 a | 4 a |
| 2 | 2,4-D Amine | 1 PT/A | 12251 b | 5770 b | 28 a | 8 ab | 11 ab | 5 a | 0 a | 3 ab |
| 3 | 2,4-D Amine | 1 PT/A | 8168 bcd | 3907 bc | 23 a | 15 ab | 12 ab | 3 a | 0 a | 3 ab |
| 4 | 2,4-D Amine | 1 PT/A | 2450 ef | 1408 cd | 25 a | 17 a | 0 b | 0 a | 0 a | 2 b |
| 5 | 2,4-D Amine | 2 PT/A | 4175 def | 2164 cd | 23 a | 17 a | 8 ab | 2 a | 0 a | 3 ab |
| 6 | 2,4-D Amine | 2 PT/A | 6716 cde | 3589 bc | 24 a | 15 ab | 4 ab | 0 a | 0 a | 2 ab |
| 7 | 2,4-D Amine | 2 PT/A | 2723 ef | 1529 cd | 19 a | 14 ab | 3 ab | 4 a | 0 a | 2 ab |
| 8 | 2,4-D Amine | 2 PT/A | 726 f | 355 d | 0 b | 0 b | 0 b | 0 a | 0 a | 0 c |
| 9 | Non-treated Check | | 23686 a | 12071 a | 26 a | 22 a | 4 ab | 7 a | 8 a | 3 ab |
| LSD (P=.05) | | | 4980.2 | 2552.2 | 9.4 | 14.5 | 12.9 | 10.2 | 8.1 | 1.7 |
| Standard Deviation | | | 3412.3 | 1748.7 | 6.4 | 9.9 | 8.8 | 7.0 | 5.5 | 1.2 |
| CV | | | 42.3 | 43.57 | 30.39 | 68.95 | 140.64 | 223.88 | 375.03 | 52.64 |
| Bartlett's X2 | | | 23.746 | 26.792 | 11.807 | 4.656 | 2.371 | 6.603 | 2.325 | 4.953 |
| P(Bartlett's X2) | | | 0.003* | 0.001* | 0.107 | 0.702 | 0.883 | 0.252 | 0.127 | 0.666 |

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

Column 25: T14 = [C19]+[C23]

Column 26: T15 = [C20]+[C24]

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| Crop Code | CITLA | CITLA | CITLA | CITLA | CITLA | CITLA | CITLA | CITLA | CITLA | | |
|--------------------|-------------------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------|--------|--------|
| Rating Data Type | Plot Harv | Plot Harv | Total Harv | Total Harv | Harvest | Harvest | Harvest | Harvest | Harvest | | |
| Rating Unit | lbs/plt | lbs/frui | num/A | lbs/A | lb/fruit | lb/fruit | lb/fruit | lb/fruit | lb/fruit | | |
| Rating Date | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | | |
| Crop Stage | Mardi Gr | Mardi Gr | Mardi Gr | Mardi Gr | Sweet De | Sweet De | Sweet De | Sweet De | Sweet De | | |
| Trt-Eval Interval | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | | |
| ARM Action Codes | T4 | T5 | T6 | T7 | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 1 | 2,4-D Amine | 1 | PT/A | 73 a | 21 a | 681 a | 13255 a | 18 a | 17 ab | 19 ab | 14 ab |
| 2 | 2,4-D Amine | 1 | PT/A | 51 ab | 25 a | 454 ab | 9307 ab | 22 a | 17 ab | 19 ab | 15 ab |
| 3 | 2,4-D Amine | 1 | PT/A | 52 ab | 21 a | 454 ab | 9412 ab | 21 a | 19 ab | 15 ab | 13 ab |
| 4 | 2,4-D Amine | 1 | PT/A | 42 ab | 24 a | 318 b | 7604 ab | 19 a | 17 ab | 18 ab | 13 ab |
| 5 | 2,4-D Amine | 2 | PT/A | 49 ab | 19 a | 499 ab | 8930 ab | 15 a | 15 ab | 12 ab | 14 ab |
| 6 | 2,4-D Amine | 2 | PT/A | 43 ab | 23 a | 363 ab | 7720 ab | 16 a | 14 ab | 12 ab | 9 b |
| 7 | 2,4-D Amine | 2 | PT/A | 41 b | 19 a | 408 ab | 7362 b | 14 a | 9 b | 13 ab | 10 b |
| 8 | 2,4-D Amine | 2 | PT/A | 0 c | 0 b | 0 c | 0 c | 13 a | 10 b | 9 b | 7 b |
| 9 | Non-treated Check | | | 67 ab | 26 a | 499 ab | 12212 ab | 22 a | 24 a | 22 a | 22 a |
| LSD (P=.05) | | | | 27.8 | 8.2 | 313.7 | 5037.9 | 10.0 | 9.9 | 9.3 | 8.8 |
| Standard Deviation | | | | 19.0 | 5.6 | 215.0 | 3451.8 | 6.8 | 6.8 | 6.4 | 6.0 |
| CV | | | | 40.98 | 28.35 | 52.64 | 40.98 | 38.57 | 42.8 | 41.78 | 46.59 |
| Bartlett's X2 | | | | 12.693 | 5.674 | 4.953 | 12.693 | 13.696 | 14.32 | 23.211 | 14.451 |
| P(Bartlett's X2) | | | | 0.08 | 0.578 | 0.666 | 0.08 | 0.09 | 0.074 | 0.003* | 0.071 |

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

Column 33: T4 = [C27]+[C28]+[C29]+[C30]+[C31]

Column 34: T5 = [C33]/[C32]

Column 35: T6 = [C32]/240*43560

Column 36: T7 = [C33]/240*43560

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| Crop Code | CITLA | CITLA | CITLA | CITLA | CITLA | CITLA | CITLA | CITLA | CITLA | | |
|--------------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|
| Rating Data Type | Harvest | Harvest | Harvest | Harvest | Harvest | Harvest | Harvest | Harvest | Harvest | | |
| Rating Unit | lb/fruit | lb/fruit | lb/fruit | lb/fruit | lb/fruit | lb/fruit | lb/fruit | lb/fruit | lb/fruit | | |
| Rating Date | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | | |
| Crop Stage | Sweet De | Sweet De | Sweet De | Sweet De | Sweet De | Sweet De | Sweet De | Sweet De | Sweet De | | |
| Trt-Eval Interval | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | | |
| ARM Action Codes | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 1 | 2,4-D Amine | 1 | PT/A | 16 ab | 13 ab | 5 b | 5 b | 4 b | 3 b | 0 b | 0 b |
| 2 | 2,4-D Amine | 1 | PT/A | 15 ab | 13 ab | 11 ab | 10 ab | 4 b | 3 ab | 4 ab | 0 b |
| 3 | 2,4-D Amine | 1 | PT/A | 10 b | 10 b | 9 ab | 7 b | 7 b | 4 ab | 0 b | 0 b |
| 4 | 2,4-D Amine | 1 | PT/A | 13 ab | 14 ab | 12 ab | 7 b | 7 b | 6 ab | 4 ab | 2 ab |
| 5 | 2,4-D Amine | 2 | PT/A | 9 b | 5 b | 4 b | 3 b | 3 b | 3 b | 2 ab | 0 b |
| 6 | 2,4-D Amine | 2 | PT/A | 7 b | 7 b | 6 b | 5 b | 5 b | 4 ab | 0 b | 0 b |
| 7 | 2,4-D Amine | 2 | PT/A | 8 b | 6 b | 6 b | 4 b | 6 b | 3 ab | 0 b | 0 b |
| 8 | 2,4-D Amine | 2 | PT/A | 7 b | 7 b | 6 b | 5 b | 5 b | 4 ab | 0 b | 0 b |
| 9 | Non-treated Check | | | 23 a | 21 a | 18 a | 17 a | 16 a | 12 a | 7 a | 6 a |
| LSD (P=.05) | | | | 9.7 | 9.3 | 10.0 | 8.8 | 8.7 | 7.6 | 5.5 | 4.1 |
| Standard Deviation | | | | 6.6 | 6.4 | 6.8 | 6.0 | 5.9 | 5.2 | 3.8 | 2.8 |
| CV | | | | 55.11 | 60.52 | 80.64 | 84.48 | 92.2 | 110.97 | 200.69 | 313.99 |
| Bartlett's X2 | | | | 11.189 | 5.26 | 3.097 | 1.823 | 1.992 | 0.927 | 1.33 | 0.842 |
| P(Bartlett's X2) | | | | 0.191 | 0.729 | 0.928 | 0.986 | 0.981 | 0.999 | 0.722 | 0.359 |

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

University of Georgia

| Crop Code | CITLA | CITLA | CITLA | CITLA | CITLA | CITLA |
|---------------------|-----------|-----------|-----------|-----------|------------|------------|
| Rating Data Type | Harvest | Plot Harv | Plot Harv | Plot Harv | Total Harv | Total Harv |
| Rating Unit | lb/fruit | num/plt | lbs/plt | lbs/frui | num/A | lbs/A |
| Rating Date | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 | Jul-03-06 |
| Crop Stage | Sweet De | Sweet De | Sweet De | Sweet De | Sweet De | Sweet De |
| Trt-Eval Interval | 82 DA-D | 82 DA-D | 82 DA-D | 82 DA-D | | |
| ARM Action Codes | | | T8 | T9 | T10 | T11 |
| Trt Treatment | Rate | | | | | |
| No. Name | Rate Unit | 49 | 50 | 51 | 52 | 53 |
| 1 2,4-D Amine | 1 PT/A | 0 b | 8 ab | 114 b | 15 ab | 1407 ab |
| 2 2,4-D Amine | 1 PT/A | 0 b | 9 ab | 134 ab | 15 ab | 1543 ab |
| 3 2,4-D Amine | 1 PT/A | 0 b | 8 ab | 115 b | 14 ab | 1497 ab |
| 4 2,4-D Amine | 1 PT/A | 2 ab | 10 ab | 133 ab | 13 ab | 1860 ab |
| 5 2,4-D Amine | 2 PT/A | 0 b | 7 ab | 85 b | 12 ab | 1225 ab |
| 6 2,4-D Amine | 2 PT/A | 0 b | 6 ab | 86 b | 11 b | 1089 ab |
| 7 2,4-D Amine | 2 PT/A | 0 b | 6 ab | 79 b | 15 ab | 1089 ab |
| 8 2,4-D Amine | 2 PT/A | 0 b | 5 b | 72 b | 10 b | 953 b |
| 9 Non-treated Check | | 4 a | 12 a | 213 a | 18 a | 2133 a |
| LSD (P=.05) | | 2.8 | 5.1 | 79.0 | 6.1 | 922.6 |
| Standard Deviation | | 1.9 | 3.5 | 54.2 | 4.2 | 632.2 |
| CV | | 318.77 | 44.47 | 47.32 | 30.63 | 44.47 |
| Bartlett's X2 | | 0.057 | 8.272 | 4.016 | 19.901 | 8.272 |
| P(Bartlett's X2) | | 0.811 | 0.407 | 0.856 | 0.011* | 0.407 |

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

Column 51: T8 = [C37]+[C38]+[C39]+[C40]+[C41]+[C42]+[C43]+[C44]+[C45]+[C46]+[C47]+[C48]+[C49]

Column 52: T9 = [C51]/[C50]

Column 53: T10 = [C50]/240*43560

Column 54: T11 = [C51]/240*43560

University of Georgia

Crop 2: CITLA WATERMELON **Variety:** Sweet Delight
Planting Date: Apr-12-06 **Planting Method:** TRANSPLANTED - HAND
Rate: 908 P/A **Depth:** _____ **Perennial Age:** _____
Row Spacing: 12 FT **Spacing Within Row:** 4 FT **Seed Bed:** MEDIUM
Soil Temperature: 62 F **Soil Moisture:** Moist **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 18 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: Research Farm
Tillage Type: Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

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

MAINTENANCE

Field Prep./Maintenance: Land was conventionally prepared and beds on 6 foot centers formed prior to application of 2,4-D.

Watermelon was hand transplanted (Sweet Delight) with 5 plants per plot plus a pollinator (Mardi Gras).

Cucumber was hand transplanted with 20 plants per plot.

After trial initiation on 3-22-06, 0.04 inches of rain fell until 4-8-06 when 0.70 inches fell. Irrigation at 0.4 inches was applied after the 2,4-D application on 4-12-06 but prior to transplanting the crops.

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

SOIL DESCRIPTION

% Sand: 94 **Texture:** Sand
% Silt: 2 **Soil Name:** Tifton Sandy Loam
% Clay: 4 **Fert. Level:** _____
% OM: 1.2
pH: 6.2
CEC: _____

ADDITIONAL MEASURED ELEMENTS

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

MOISTURE CONDITIONS

| No. | Date | Time | Amount | Unit | Type | Interval | Unit |
|-----|------|------|--------|------|------|----------|------|
| 1. | | | | | | | |

Overall Moisture Conditions: irrigated

Closest Weather Station: _____ **Distance:** _____ **Unit:** ____

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APPLICATION DESCRIPTION

| | A | B | C | D |
|----------------------|-----------|-----------|-----------|-----------|
| Application Date: | Mar-22-06 | Mar-29-06 | Apr-05-06 | Apr-12-06 |
| Time of Day: | 17:30 | 16:30 | 19:30 | 08:00 |
| Application Method: | SPRAY | SPRAY | SPRAY | SPRAY |
| Application Timing: | Preplant | Preplant | Preplant | Preplant |
| Applic. Placement: | Soil | Soil | Soil | Soil |
| Air Temp., Unit: | 65 F | 76 F | 74 F | 60 F |
| % Relative Humidity: | 42 | 39 | 47 | 60 |
| Wind Velocity, Unit: | 2 mph | 2 mph | 1 mph | 1 mph |
| Dew Presence (Y/N): | N | N | N | N |
| Water Hardness: | NA | NA | NA | NA |
| Soil Temp., Unit: | 67 F | 86 F | 77 F | 62 F |
| Soil Moisture: | Dry | Dry | Dry | Slight |
| % Cloud Cover: | 30 | 90 | 40 | 30 |

CROP STAGE AT EACH APPLICATION

| | A | B | C | D |
|---------------------|----------|----------|----------|----------|
| Crop 1 Code, Stage: | CUMSA | CUMSA | CUMSA | CUMSA |
| Stage Scale: | Preplant | Preplant | Preplant | Preplant |
| Height, Unit: | | | | |
| Crop 2 Code, Stage: | CITLA | CITLA | CITLA | CITLA |
| Stage Scale: | Preplant | Preplant | Preplant | Preplant |
| Height, Unit: | | | | |

WEED STAGE AT EACH APPLICATION

| | A | B | C | D |
|---------------------|---|---|---|---|
| Weed 1 Code, Stage: | | | | |
| Stage Scale: | | | | |
| Density, Unit: | | | | |

APPLICATION EQUIPMENT

| | A | B | C | D |
|-----------------------|-----------|-----------|-----------|-----------|
| Appl. Equipment: | CO2 Spray | CO2 Spray | CO2 Spray | CO2 Spray |
| Operating Pressure: | 23 psi | 23 psi | 23 psi | 23 psi |
| Nozzle Type: | TeeJet | TeeJet | TeeJet | TeeJet |
| Nozzle Size: | 11002XR | 11002XR | 11002XR | 11002XR |
| Nozzle Spacing, Unit: | 18 in | 18 in | 18 in | 18 in |
| Nozzles/Row: | 4 | 4 | 4 | 4 |
| Band Width, Unit: | 6 ft | 6 ft | 6 ft | 6 ft |
| Boom Length, Unit: | 54 in | 54 in | 54 in | 54 in |
| Boom Height, Unit: | 15 in | 15 in | 15 in | 15 in |
| Ground Speed, Unit: | 3 mph | 3 mph | 3 mph | 3 mph |
| Incorporation Equip.: | | | | Irr 0.4in |
| Hours to Incorp.: | 1 | 1 | 1 | 1 |
| Incorp. Depth, Unit: | | | | |
| Carrier: | water | water | water | water |
| Spray Volume, Unit: | 14.8 gpa | 14.8 gpa | 14.8 gpa | 14.8 gpa |
| Spray pH: | | | | |
| Propellant: | CO2 | CO2 | CO2 | CO2 |
| Tank Mix (Y/N): | N | N | N | N |

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