# University of Georgia

**Broccoli and cabbage tolerance to Goal 4 F applied topically.**

Trial ID: V-07-05(goal) Study Dir.: Stanley Culpepper
Location: Ponder 5161 Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 25 feet
Spray vol: 14.8 gal/ac Mix size: 1 liters (min .77168)

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | Amt Product to Measure | Plot No. By Rep 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | No herbicide | | | | | | | | 101 | 206 | 307 | 405 |
| 2 | Goal | 4 | F | 0.0625 | lb ai/a | 3WAT | A | 1.056 ml/mx | 102 | 207 | 301 | 406 |
| 3 | Goal | 4 | F | 0.125 | lb ai/a | 3WAT | A | 2.111 ml/mx | 103 | 208 | 306 | 401 |
| 4 | Goal | 4 | F | 0.25 | lb ai/a | 3WAT | A | 4.223 ml/mx | 104 | 205 | 303 | 407 |
| 5 | Goal | 4 | F | 0.0625 | lb ai/a | 5WAT | B | 1.056 ml/mx | 105 | 201 | 308 | 404 |
| 6 | Goal | 4 | F | 0.125 | lb ai/a | 5WAT | B | 2.111 ml/mx | 106 | 204 | 302 | 408 |
| 7 | Goal | 4 | F | 0.25 | lb ai/a | 5WAT | B | 4.223 ml/mx | 107 | 203 | 304 | 403 |
| 8 | Goal | 4 | F | 0.0625 | lb ai/a | 3WAT | A | 1.056 ml/mx | 108 | 202 | 305 | 402 |
| | Goal | 4 | F | 0.0625 | lb ai/a | 5WAT | B | 1.056 ml/mx | | | | |

Sort Order: Treatment

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

| Amount* | Unit | Treatment Name | Lot Code |
|---|---|---|---|
| 21.113 | ml | Goal 4 F | |

* '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 the potential for Goal Tender to be applied topically in cabbage or broccoli.

Crop Response:
1. Injury consisted of spotting of leaf tissue. Overall injury was relatively minor because leaf spotting was minor and the specific leaves injured were not part of the crop being harvested.
2. Age of crop did not really impact crop response; however, earlier applications allow more time for crop recovery, less leaf foliage to burn, and earlier weed control.
3. Plant heights were not impacted by treatment.
4. Five plants per plot were harvested for biomass. Treatments had no impact on plant biomass.

Weed Response:
1. Weeds were hand removed prior to impacting crop growth; thus, weed evaluations were made only once just prior to hand removal.
2. With 3 WAT applications, Goal at 0.0625 provided fair primrose control. Higher rates of Goal provided good to excellent control for a short period of time.
3. Less control was noted with treatments applied 5 WAT.

GENERAL COMMENTS:
1. The trial was maintained essentially weed free. There was the opportunity to rate primrose control one time prior to hand removal.

# University of Georgia

**Broccoli and cabbage tolerance to Goal 4 F applied topically.**

Trial ID: V-07-05(goal) Study Dir.: Stanley Culpepper
Location: Ponder 5161 Investigator: Stanley Culpepper

| Trt No. | Treatment Name | Rate | Rate Unit | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Weed Code | | | | | | | | | | | |
| Crop Code | | | | broccili | broccili | broccili | broccili | red cabbage | red cabbage | red cabbage | red cabbage |
| Rating Data Type | | | | injury | injury | injury | injury | injury | injury | injury | injury |
| Rating Unit | | | | percent | percent | percent | percent | percent | percent | percent | percent |
| Rating Date | | | | Apr-05-05 | Apr-12-06 | Apr-22-05 | May-06-05 | Apr-05-05 | Apr-12-05 | Apr-22-05 | May-06-05 |
| Trt-Eval Interval | | | | 6 DA-A | 378 DA-A | 23 DA-A | 37 DA-A | 6 DA-A | 13 DA-A | 23 DA-A | 37 DA-A |
| ARM Action Codes | | | | | | | | | | | |
| # Subsamples, Dec. | | | | | | | | | | | |
| 1 | No herbicide | | | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 |
| 2 | Goal | 0.0625 | lb ai/a | 11 | 4 | 4 | 0 | 5 | 1 | 1 | 1 |
| 3 | Goal | 0.125 | lb ai/a | 16 | 12 | 8 | 4 | 7 | 2 | 0 | 1 |
| 4 | Goal | 0.25 | lb ai/a | 16 | 13 | 9 | 3 | 8 | 4 | 2 | 1 |
| 5 | Goal | 0.0625 | lb ai/a | 0 | 7 | 11 | 1 | 0 | 5 | 3 | 0 |
| 6 | Goal | 0.125 | lb ai/a | 0 | 9 | 11 | 4 | 0 | 4 | 4 | 0 |
| 7 | Goal | 0.25 | lb ai/a | 0 | 13 | 18 | 6 | 0 | 4 | 6 | 5 |
| 8 | Goal | 0.0625 | lb ai/a | 11 | 12 | 14 | 0 | 4 | 5 | 4 | 0 |
| | Goal | 0.0625 | lb ai/a | | | | | | | | |
| LSD (P=.05) | | | | 4.4 | 4.0 | 4.6 | 7.8 | 5.2 | 1.7 | 3.3 | 4.4 |
| Standard Deviation | | | | 3.0 | 2.7 | 3.1 | 5.3 | 3.5 | 1.1 | 2.2 | 3.0 |
| CV | | | | 43.88 | 31.6 | 34.3 | 198.73 | 121.57 | 38.87 | 91.24 | 271.48 |

Means followed by same letter do not significantly differ (P=.05, LSD)

# University of Georgia

| Weed Code | | | | green | green | green | green | OEOLA | plant 1 | plant 2 | plant 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Crop Code | | | | cabbage | cabbage | cabbage | cabbage | | g. cabba | g. cabba | g. cabba |
| Rating Data Type | | | | injury | injury | injury | injury | control | ht | ht | ht |
| Rating Unit | | | | percent | percent | percent | percent | percent | cm | cm | cm |
| Rating Date | | | | Apr-05-05 | Apr-12-05 | Apr-22-05 | May-06-05 | May-06-05 | Mar-30-05 | Mar-30-05 | Mar-30-05 |
| Trt-Eval Interval | | | | 6 DA-A | 13 DA-A | 23 DA-A | 37 DA-A | 37 DA-A | 0 DA-A | 0 DA-A | 0 DA-A |
| ARM Action Codes | | | | | | | | | | | |
| # Subsamples, Dec. | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | No herbicide | | | 0 | 0 | 0 | 0 | 0 | 5 | 6 | 6 |
| 2 | Goal | 0.0625 | lb ai/a | 4 | 1 | 1 | 1 | 79 | 5 | 5 | 5 |
| 3 | Goal | 0.125 | lb ai/a | 4 | 2 | 0 | 1 | 92 | 6 | 5 | 5 |
| 4 | Goal | 0.25 | lb ai/a | 6 | 5 | 2 | 1 | 97 | 6 | 7 | 5 |
| 5 | Goal | 0.0625 | lb ai/a | 0 | 5 | 3 | 0 | 36 | 7 | 6 | 7 |
| 6 | Goal | 0.125 | lb ai/a | 0 | 4 | 5 | 0 | 72 | 6 | 4 | 5 |
| 7 | Goal | 0.25 | lb ai/a | 0 | 4 | 6 | 5 | 87 | 6 | 6 | 5 |
| 8 | Goal | 0.0625 | lb ai/a | 1 | 5 | 4 | 3 | 95 | 5 | 7 | 5 |
| | Goal | 0.0625 | lb ai/a | | | | | | | | |
| LSD (P=.05) | | | | 5.3 | 1.7 | 3.5 | 4.9 | 21.8 | 3.0 | 2.1 | 2.9 |
| Standard Deviation | | | | 3.6 | 1.2 | 2.4 | 3.3 | 14.8 | 2.0 | 1.4 | 2.0 |
| CV | | | | 210.03 | 37.96 | 93.21 | 237.96 | 21.22 | 36.74 | 24.63 | 37.67 |

Means followed by same letter do not significantly differ (P=.05, LSD)

# University of Georgia

| Weed Code | | | | plant 4 | plant 5 | plant 6 | plant 7 | plant 8 | plant 9 | plant 10 | Avg10pla |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Crop Code | | | | g. cabba | g. cabba | g. cabba | g. cabba | g. cabba | g. cabba | g. cabba | g. cabba |
| Rating Data Type | | | | ht | ht | ht | ht | ht | ht | ht | ht |
| Rating Unit | | | | cm | cm | cm | cm | cm | cm | cm | cm |
| Rating Date | | | | Mar-30-05 | Mar-30-05 | Mar-30-05 | Mar-30-05 | Mar-30-05 | Mar-30-05 | Mar-30-05 | Mar-30-05 |
| Trt-Eval Interval | | | | 0 DA-A | 0 DA-A | 0 DA-A | 0 DA-A | 0 DA-A | 0 DA-A | 0 DA-A | 0 DA-A |
| ARM Action Codes | | | | | | | | | | | T1 |
| # Subsamples, Dec. | | | | | | | | | | | 1 |
| Trt No. | Treatment Name | Rate | Rate Unit | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | No herbicide | | | 7 | 6 | 7 | 6 | 6 | 5 | 7 | 5.9 |
| 2 | Goal | 0.0625 | lb ai/a | 5 | 5 | 6 | 4 | 7 | 5 | 6 | 5.2 |
| 3 | Goal | 0.125 | lb ai/a | 6 | 6 | 6 | 6 | 7 | 6 | 5 | 5.6 |
| 4 | Goal | 0.25 | lb ai/a | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 6.3 |
| 5 | Goal | 0.0625 | lb ai/a | 6 | 8 | 6 | 5 | 7 | 5 | 6 | 6.2 |
| 6 | Goal | 0.125 | lb ai/a | 6 | 6 | 5 | 5 | 7 | 7 | 6 | 5.7 |
| 7 | Goal | 0.25 | lb ai/a | 7 | 6 | 6 | 5 | 6 | 5 | 7 | 5.8 |
| 8 | Goal | 0.0625 | lb ai/a | 5 | 5 | 7 | 5 | 5 | 3 | 6 | 5.2 |
| | Goal | 0.0625 | lb ai/a | | | | | | | | |
| LSD (P=.05) | | | | 1.6 | 2.1 | 1.5 | 2.6 | 2.6 | 2.8 | 1.9 | 0.94 |
| Standard Deviation | | | | 1.1 | 1.4 | 1.0 | 1.8 | 1.8 | 1.9 | 1.3 | 0.64 |
| CV | | | | 18.63 | 23.88 | 16.76 | 33.48 | 30.22 | 35.91 | 21.3 | 11.2 |

Means followed by same letter do not significantly differ (P=.05, LSD)

Column 24: T1 = @AVG([C14].[C23])

# University of Georgia

| Weed Code | | | | plant 1 | plant 2 | plant 3 | plant 4 | plant 5 | plant 6 | plant 7 | plant 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Crop Code | | | | g. cabba | g. cabba | g. cabba | g. cabba | g. cabba | g. cabba | g. cabba | g. cabba |
| Rating Data Type | | | | ht | ht | ht | ht | ht | ht | ht | ht |
| Rating Unit | | | | cm | cm | cm | cm | cm | cm | cm | cm |
| Rating Date | | | | Apr-18-05 | Apr-18-05 | Apr-18-05 | Apr-18-05 | Apr-18-05 | Apr-18-05 | Apr-18-05 | Apr-18-05 |
| Trt-Eval Interval | | | | 19 DA-A | 19 DA-A | 19 DA-A | 19 DA-A | 19 DA-A | 19 DA-A | 19 DA-A | 19 DA-A |
| ARM Action Codes | | | | | | | | | | | |
| # Subsamples, Dec. | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 1 | No herbicide | | | 7 | 7 | 8 | 8 | 8 | 8 | 7 | 10 |
| 2 | Goal | 0.0625 | lb ai/a | 6 | 8 | 7 | 7 | 7 | 9 | 7 | 8 |
| 3 | Goal | 0.125 | lb ai/a | 8 | 9 | 4 | 8 | 8 | 9 | 8 | 9 |
| 4 | Goal | 0.25 | lb ai/a | 6 | 6 | 7 | 8 | 9 | 8 | 8 | 7 |
| 5 | Goal | 0.0625 | lb ai/a | 6 | 10 | 5 | 9 | 5 | 10 | 5 | 9 |
| 6 | Goal | 0.125 | lb ai/a | 6 | 9 | 5 | 6 | 8 | 8 | 6 | 8 |
| 7 | Goal | 0.25 | lb ai/a | 5 | 8 | 7 | 9 | 7 | 8 | 7 | 7 |
| 8 | Goal | 0.0625 | lb ai/a | 8 | 8 | 7 | 7 | 8 | 8 | 8 | 6 |
| | Goal | 0.0625 | lb ai/a | | | | | | | | |
| LSD (P=.05) | | | | 3.1 | 4.3 | 3.4 | 3.4 | 3.0 | 4.5 | 4.1 | 4.4 |
| Standard Deviation | | | | 2.1 | 2.9 | 2.3 | 2.3 | 2.0 | 3.1 | 2.8 | 3.0 |
| CV | | | | 33.49 | 36.61 | 38.62 | 29.78 | 27.79 | 36.56 | 41.43 | 37.89 |

Means followed by same letter do not significantly differ (P=.05, LSD)

# University of Georgia

| Weed Code | | | | plant 9 | plant 10 | Avg.10pl | plant 1 | plant 2 | plant 3 | plant 4 | plant 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Crop Code | | | | g. cabba | g. cabba | g.cabba | broccoli | broccoli | broccoli | broccoli | broccoli |
| Rating Data Type | | | | ht | ht | ht | ht | ht | ht | ht | ht |
| Rating Unit | | | | cm | cm | cm | cm | cm | cm | cm | cm |
| Rating Date | | | | Apr-18-05 | Apr-18-05 | Apr-18-05 | Mar-30-05 | Mar-30-05 | Mar-30-05 | Mar-30-05 | Mar-30-05 |
| Trt-Eval Interval | | | | 19 DA-A | 19 DA-A | 19 DA-A | 0 DA-A | 0 DA-A | 0 DA-A | 0 DA-A | 0 DA-A |
| ARM Action Codes | | | | | | T2 | | | | | |
| # Subsamples, Dec. | | | | | | 1 | | | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 1 | No herbicide | | | 8 | 9 | 7.9 | 11 | 11 | 10 | 12 | 11 |
| 2 | Goal | 0.0625 | lb ai/a | 8 | 9 | 7.4 | 12 | 13 | 11 | 11 | 11 |
| 3 | Goal | 0.125 | lb ai/a | 7 | 8 | 7.8 | 11 | 12 | 12 | 10 | 10 |
| 4 | Goal | 0.25 | lb ai/a | 8 | 7 | 7.2 | 10 | 12 | 12 | 12 | 8 |
| 5 | Goal | 0.0625 | lb ai/a | 6 | 9 | 7.2 | 10 | 11 | 11 | 10 | 9 |
| 6 | Goal | 0.125 | lb ai/a | 7 | 10 | 7.0 | 10 | 11 | 11 | 11 | 11 |
| 7 | Goal | 0.25 | lb ai/a | 7 | 8 | 7.1 | 11 | 10 | 12 | 14 | 12 |
| 8 | Goal | 0.0625 | lb ai/a | 5 | 8 | 7.2 | 10 | 12 | 12 | 9 | 11 |
| | Goal | 0.0625 | lb ai/a | | | | | | | | |
| LSD (P=.05) | | | | 3.2 | 4.7 | 1.44 | 4.1 | 4.4 | 4.0 | 3.4 | 4.4 |
| Standard Deviation | | | | 2.2 | 3.2 | 0.98 | 2.8 | 3.0 | 2.7 | 2.3 | 3.0 |
| CV | | | | 31.28 | 39.17 | 13.33 | 25.79 | 25.83 | 24.13 | 20.65 | 28.78 |

Means followed by same letter do not significantly differ (P=.05, LSD)
Column 35: T2 = @AVG([C25].[C34])

# University of Georgia

| Weed Code | | | | plant 6 | plant 7 | plant 8 | plant 9 | plant 10 | Avg.10pl | plant 1 | plant 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Crop Code | | | | broccoli | broccoli | broccoli | broccoli | broccoli | broccoli | broccoli | broccoli |
| Rating Data Type | | | | ht | ht | ht | ht | ht | ht | ht | ht |
| Rating Unit | | | | cm | cm | cm | cm | cm | cm | cm | cm |
| Rating Date | | | | Mar-30-05 | Mar-30-05 | Mar-30-05 | Mar-30-05 | Mar-30-05 | Mar-30-05 | Apr-18-05 | Apr-18-05 |
| Trt-Eval Interval | | | | 0 DA-A | 0 DA-A | 0 DA-A | 0 DA-A | 0 DA-A | 0 DA-A | 19 DA-A | 19 DA-A |
| ARM Action Codes | | | | | | | | | T3 | | |
| # Subsamples, Dec. | | | | | | | | | 1 | | |
| Trt No. | Treatment Name | Rate | Rate Unit | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 1 | No herbicide | | | 10 | 11 | 10 | 12 | 11 | 10.9 | 14 | 11 |
| 2 | Goal | 0.0625 | lb ai/a | 10 | 12 | 10 | 11 | 12 | 11.3 | 13 | 12 |
| 3 | Goal | 0.125 | lb ai/a | 10 | 10 | 11 | 14 | 12 | 11.3 | 10 | 12 |
| 4 | Goal | 0.25 | lb ai/a | 11 | 11 | 10 | 10 | 9 | 10.4 | 8 | 12 |
| 5 | Goal | 0.0625 | lb ai/a | 11 | 12 | 11 | 11 | 11 | 10.7 | 14 | 11 |
| 6 | Goal | 0.125 | lb ai/a | 12 | 11 | 14 | 12 | 11 | 11.3 | 11 | 8 |
| 7 | Goal | 0.25 | lb ai/a | 11 | 12 | 14 | 10 | 12 | 11.7 | 13 | 13 |
| 8 | Goal | 0.0625 | lb ai/a | 9 | 12 | 12 | 9 | 12 | 10.7 | 12 | 12 |
| | Goal | 0.0625 | lb ai/a | | | | | | | | |
| LSD (P=.05) | | | | 4.1 | 2.6 | 3.8 | 3.5 | 1.9 | 1.26 | 5.1 | 4.0 |
| Standard Deviation | | | | 2.8 | 1.7 | 2.6 | 2.4 | 1.3 | 0.86 | 3.5 | 2.7 |
| CV | | | | 26.23 | 15.66 | 22.69 | 21.66 | 11.48 | 7.78 | 29.31 | 24.01 |

Means followed by same letter do not significantly differ (P=.05, LSD)
Column 46: T3 = @AVG([C36].[C45])

# University of Georgia

| Weed Code | | | | plant 3 | plant 4 | plant 5 | plant 6 | plant 7 | plant 8 | plant 9 | plant 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Crop Code | | | | broccoli | broccoli | broccoli | broccoli | broccoli | broccoli | broccoli | broccoli |
| Rating Data Type | | | | ht | ht | ht | ht | ht | ht | ht | ht |
| Rating Unit | | | | cm | cm | cm | cm | cm | cm | cm | cm |
| Rating Date | | | | Apr-18-05 | Apr-18-05 | Apr-18-05 | Apr-18-05 | Apr-18-05 | Apr-18-05 | Apr-18-05 | Apr-18-05 |
| Trt-Eval Interval | | | | 19 DA-A | 19 DA-A | 19 DA-A | 19 DA-A | 19 DA-A | 19 DA-A | 19 DA-A | 19 DA-A |
| ARM Action Codes | | | | | | | | | | | |
| # Subsamples, Dec. | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| 1 | No herbicide | | | 14 | 14 | 14 | 14 | 10 | 10 | 14 | 13 |
| 2 | Goal | 0.0625 | lb ai/a | 12 | 12 | 10 | 11 | 14 | 10 | 10 | 13 |
| 3 | Goal | 0.125 | lb ai/a | 12 | 11 | 10 | 9 | 11 | 9 | 15 | 13 |
| 4 | Goal | 0.25 | lb ai/a | 9 | 9 | 7 | 11 | 12 | 12 | 9 | 11 |
| 5 | Goal | 0.0625 | lb ai/a | 12 | 10 | 13 | 13 | 12 | 8 | 15 | 11 |
| 6 | Goal | 0.125 | lb ai/a | 12 | 11 | 11 | 10 | 12 | 11 | 11 | 9 |
| 7 | Goal | 0.25 | lb ai/a | 14 | 14 | 11 | 14 | 11 | 12 | 11 | 11 |
| 8 | Goal | 0.0625 | lb ai/a | 11 | 11 | 11 | 12 | 14 | 14 | 9 | 14 |
| | Goal | 0.0625 | lb ai/a | | | | | | | | |
| LSD (P=.05) | | | | 5.9 | 4.6 | 6.0 | 5.1 | 5.6 | 7.9 | 6.6 | 3.7 |
| Standard Deviation | | | | 4.0 | 3.1 | 4.1 | 3.4 | 3.8 | 5.4 | 4.5 | 2.5 |
| CV | | | | 34.0 | 27.37 | 37.97 | 29.2 | 32.14 | 50.07 | 38.65 | 21.92 |

Means followed by same letter do not significantly differ (P=.05, LSD)

# University of Georgia

| Weed Code | | | | Avg.10pl | biomass | biomass |
|---|---|---|---|---|---|---|
| Crop Code | | | | broccoli | broccili | g. cabba |
| Rating Data Type | | | | ht | plant wt | plant wt |
| Rating Unit | | | | cm | lbs | lbs |
| Rating Date | | | | Apr-18-05 | May-06-05 | May-06-05 |
| Trt-Eval Interval | | | | 19 DA-A | 37 DA-A | 37 DA-A |
| ARM Action Codes | | | | T4 | | |
| # Subsamples, Dec. | | | | 1 | | |
| Trt No. | Treatment Name | Rate | Rate Unit | 57 | 58 | 59 |
| 1 | No herbicide | | | 12.7 | 1 | 0 |
| 2 | Goal | 0.0625 | lb ai/a | 11.6 | 0 | 1 |
| 3 | Goal | 0.125 | lb ai/a | 11.1 | 0 | 0 |
| 4 | Goal | 0.25 | lb ai/a | 10.1 | 0 | 1 |
| 5 | Goal | 0.0625 | lb ai/a | 11.8 | 0 | 0 |
| 6 | Goal | 0.125 | lb ai/a | 10.5 | 0 | 0 |
| 7 | Goal | 0.25 | lb ai/a | 12.3 | 0 | 1 |
| 8 | Goal | 0.0625 | lb ai/a | 11.9 | 0 | 0 |
| | Goal | 0.0625 | lb ai/a | | | |
| LSD (P=.05) | | | | 2.41 | 0.3 | 0.3 |
| Standard Deviation | | | | 1.64 | 0.2 | 0.2 |
| CV | | | | 14.3 | 50.65 | 40.35 |

Means followed by same letter do not significantly differ (P=.05, LSD)
Column 57: T4 = @AVG([C47].[C56])

# University of Georgia

**Broccoli and cabbage tolerance to Goal 4 F applied topically.**

Trial ID: V-07-05(goal) Study Dir.: Stanley Culpepper
Location: Ponder 5161 Investigator: Stanley Culpepper

## GENERAL TRIAL INFORMATION

**Study Director:** Stanley Culpepper **Title:** Ext. Weed Science
**Affiliation:** Univ. of Georgia
**Postal Code:** 31794

**Investigator:** Stanley Culpepper **Title:** Ext. Weed Science
**Affiliation:** Univ. of Georgia
**Postal Code:** 31794

## TRIAL LOCATION

**City:** TyTy **Trial Status:** completed
**State/Prov.:** GA **Trial Reliability:** fair
**Postal Code:** 31794 **Initiation Date:** Mar-07-05
**Country:** USA **Planned Completion Date:** _____
**E-Longitude of LL Corner °:** _____ **N-Latitude of LL Corner °:** _____
**Altitude of LL Corner:** _____ **Unit:** _____ **Angle y-axis to North °:** _____
**Directions:**

## COOPERATOR/LANDOWNER

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

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

**Objective:**

**Conclusions:**

## CROP AND WEED DESCRIPTION

| Weed | Code | Common Name | Scientific Name |
|---|---|---|---|
| 1. | OEOLA | cutleaf eveningprimrose | |

**Crop 1:** BRSOL CABBAGE **Variety:** Rio Verde and Red Dynasty
**Planting Date:** Mar-07-05 **Planting Method:** transplant
**Rate:** 1 per ft **Depth:** 1 in **Perennial Age:** ____ _____
**Row Spacing:** 18 inch **Spacing Within Row:** 12 inch **Seed Bed:** flat
**Soil Temperature:** 68 F **Soil Moisture:** moist **Emergence Date:** _____

**Crop 2:** BRSOK BROCCOLI **Variety:** PacMan
**Planting Date:** Mar-07-05 **Planting Method:** transplant
**Rate:** 1 per ft **Depth:** 1 in **Perennial Age:** ____ _____
**Row Spacing:** 18 inch **Spacing Within Row:** 12 inch **Seed Bed:** flat
**Soil Temperature:** 68 F **Soil Moisture:** moist **Emergence Date:** _____

## SITE AND DESIGN

**Plot Width, Unit:** 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
**Site Type:** research station
**Tillage Type:** conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

**Trial Initiation Comments:**

# University of Georgia

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

**MAINTENANCE**

**Field Prep./Maintenance:**

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

**SOIL DESCRIPTION**

**% Sand:** 94 **% OM:** 1.1 **Texture:** sand
**% Silt:** 2 **pH:** 6.2 **Soil Name:** Tifton sandy loam
**% Clay:** 4 **CEC:** _____ **Fert. Level:** _____

**ADDITIONAL MEASURED ELEMENTS**

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

**MOISTURE CONDITIONS**

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

**Overall Moisture Conditions:** drip
**Closest Weather Station:** _____ **Distance:** _____ **Unit:** __

**APPLICATION DESCRIPTION**

| | A | B |
|---|---|---|
| **Application Date:** | Mar-30-05 | Apr-11-05 |
| **Time of Day:** | 11 am | 10 am |
| **Application Method:** | broadcast | broadcast |
| **Application Timing:** | 3WAT | 5WAT |
| **Applic. Placement:** | overtop | overtop |
| **Air Temp., Unit:** | 74 F | 76 F |
| **% Relative Humidity:** | 38 | 37 |
| **Wind Velocity, Unit:** | 2 mph | 0 mph |
| **Dew Presence (Y/N):** | n | n |
| **Water Hardness:** | | |
| **Soil Temp., Unit:** | 74 F | 79 F |
| **Soil Moisture:** | wet | moist |
| **% Cloud Cover:** | 80 | 0 |

**CROP STAGE AT EACH APPLICATION**

| | A | B |
|---|---|---|
| **Crop 1 Code, Stage:** | BRSOL 3WAT | BRSOL 5WAT |
| **Stage Scale:** | 3 to 5 lf | 4 to 6 lf |
| **Height, Unit:** | 3.5 inch | 5 inch |
| **Crop 2 Code, Stage:** | BRSOK 3WAT | BRSOK 5WAT |
| **Stage Scale:** | 5-6 leaf | 7-9 leaf |
| **Height, Unit:** | 4 inch | 5 inch |

# University of Georgia

**WEED STAGE AT EACH APPLICATION**

| | A | B |
|---|---|---|
| **Weed 1 Code, Stage:** | OEOLA 3WAT | OEOLA 5WAT |
| **Stage Scale:** | not up | 0.25 in |
| **Density, Unit:** | 0 ydsq | 2 ydsq |

**APPLICATION EQUIPMENT**

| | A | B |
|---|---|---|
| **Appl. Equipment:** | backpack | backpack |
| **Operating Pressure:** | 23 | 23 |
| **Nozzle Type:** | flat fan | flat fan |
| **Nozzle Size:** | 11002 | 11002 |
| **Nozzle Spacing, Unit:** | 18 inch | 18 inch |
| **Nozzles/Row:** | 2 | 2 |
| **Band Width, Unit:** | | |
| **Boom Length, Unit:** | 4.5 feet | 4.5 feet |
| **Boom Height, Unit:** | 15 inch | 15 inch |
| **Ground Speed, Unit:** | 3 mph | 3 mph |
| **Incorporation Equip.:** | | |
| **Hours to Incorp.:** | | |
| **Incorp. Depth, Unit:** | | |
| **Carrier:** | water | water |
| **Spray Volume, Unit:** | 14.8 GPA | 14.8 GPA |
| **Spray pH:** | | |
| **Propellant:** | CO2 | CO2 |
| **Tank Mix (Y/N):** | Y | Y |

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