

University of Georgia

Pepper response to Goal applied PRE, POST, and in Row Middles.

Trial ID: Veg17-03
Location: Ponder farm

Study Dir.:
Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

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

TRIAL LOCATION

City: TyTy **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** good
Postal Code: 31794 **Initiation Date:** Mar-25-03
Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Crop 1: CPSAN pepper **Variety:** Stelleto
Planting Date: Mar-28-03 **Planting Method:** transplant
Rate: 1 per foot **Depth:** 1 in
Row Spacing: 15 inch **Spacing Within Row:** 12 inch **Seed Bed:** bedded
Soil Temperature: 84 F **Soil Moisture:** drip

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 20 FT **Reps:** 4
Site Type: research station
Tillage Type: conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 94 **% OM:** 1.0 **Texture:** sand
% Silt: 2 **pH:** 6.2 **Soil Name:** Tifton sandy loam
% Clay: 4

APPLICATION DESCRIPTION

| | A | B | C |
|-----------------------------|-----------|-----------|-----------|
| Application Date: | Mar-25-03 | Mar-27-03 | Apr-13-03 |
| Time of Day: | 10:00am | 10:00am | 1:00pm |
| Application Method: | Broadcast | Broadcast | Broadcast |
| Application Timing: | PRE | Row middl | POST |
| Applic. Placement: | under pla | in middle | overtop |
| Air Temp., Unit: | 75 F | 76 F | 74 F |
| % Relative Humidity: | 46 | 55 | 56 |
| Wind Velocity, Unit: | 3 mph | 1 mph | 3 mph |
| Dew Presence (Y/N): | N | N | N |
| Soil Temp., Unit: | 73 F | 74 F | 69 F |
| Soil Moisture: | perfect | perfect | perfect |
| % Cloud Cover: | 0 | 20 | 0 |

CROP STAGE AT EACH APPLICATION

| | A | B | C |
|----------------------------|-----------|----------|------------|
| Crop 1 Code, Stage: | CPSAN PRE | CPSAN RM | CPSAN POST |
| Stage Scale: | . | . | begin grow |
| Height, Unit: | 0. . | 0. . | 4 inch |

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APPLICATION EQUIPMENT

| | A | B | C |
|------------------------------|-----------|----------|----------|
| Appl. Equipment: | superbedd | backpack | backpack |
| Operating Pressure: | 22 | 18 | 22 |
| Nozzle Type: | flat fan | floodjet | flat fan |
| Nozzle Size: | 11002 | D2 | 11002 |
| Nozzle Spacing, Unit: | 12 inch | 6 feet | 18 inch |
| Nozzles/Row: | 5 | 1 | 4 |
| Boom Length, Unit: | 6 feet | | 4.5 feet |
| Boom Height, Unit: | 12 inch | 18 inch | 15 inch |
| Ground Speed, Unit: | 2.5 mph | 3 mph | 3 mph |
| Carrier: | water | water | water |
| Spray Volume, Unit: | 27 GPA | 14.8 GPA | 14.8 GPA |
| Propellant: | CO2 | CO2 | CO2 |
| Tank Mix (Y/N): | Y | Y | Y |

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Trial ID: Veg17-03

Study Dir.:

Location: Ponder farm

Investigator: Stanley Culpepper

| Weed Code | CPSAN | CPSAN | CPSAN | CPSAN | plant1 | plant2 | plant3 | plant4 | | | |
|--------------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|-------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | | | |
| Rating Data Type | injury | injury | injury | injury | height | height | height | height | | | |
| Rating Unit | percent | percent | percent | percent | cm | cm | cm | cm | | | |
| Rating Date | Apr-21-03 | May-03-03 | May-14-03 | May-26-03 | May-06-03 | May-06-03 | May-06-03 | May-06-03 | | | |
| Trt-Eval Interval | 27 DA-A | 39 DA-A | | | 42 DA-A | | | | | | |
| ARM Action Codes | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | Goal | 1 | qt/a | 0.0 | 1.3 | 1.5 | 1.3 | 18.3 | 18.3 | 18.5 | 18.5 |
| 2 | Goal | 2 | qt/a | 2.5 | 3.8 | 5.5 | 3.8 | 17.5 | 17.0 | 17.3 | 16.3 |
| 3 | Goal | 1 | qt/a | 0.0 | 5.0 | 7.3 | 6.3 | 15.8 | 16.8 | 16.0 | 16.8 |
| 4 | Goal | 2 | qt/a | 7.5 | 13.8 | 12.0 | 10.5 | 15.0 | 13.0 | 15.0 | 15.5 |
| 5 | non-treated | | | 0.0 | 0.0 | 0.0 | 0.0 | 17.0 | 18.0 | 15.5 | 18.0 |
| 6 | Goal | 1 | qt/a | 96.3 | 98.8 | 92.3 | 92.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| LSD (P=.05) | | | | 4.61 | 5.60 | 7.77 | 6.45 | 4.04 | 4.27 | 3.84 | 3.43 |
| Standard Deviation | | | | 3.06 | 3.72 | 5.16 | 4.28 | 2.68 | 2.83 | 2.55 | 2.27 |
| CV | | | | 17.29 | 18.22 | 26.12 | 22.48 | 19.25 | 20.49 | 18.61 | 16.04 |
| Bartlett's X2 | | | | 1.496 | 7.021 | 2.374 | 9.903 | 1.631 | 1.02 | 5.19 | 4.705 |
| P(Bartlett's X2) | | | | 0.473 | 0.135 | 0.667 | 0.042* | 0.803 | 0.907 | 0.268 | 0.319 |

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

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| Weed Code | plant5 CPSAN | plant6 CPSAN | plant7 CPSAN | plant8 CPSAN | plant9 CPSAN | plant10 CPSAN | plant11 CPSAN | plant12 CPSAN |
|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|
| Crop Code | | | | | | | | |
| Rating Data Type | height | height | height | height | height | height | height | height |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm |
| Rating Date | May-06-03 | May-06-03 | May-06-03 | May-06-03 | May-06-03 | May-06-03 | May-06-03 | May-06-03 |
| Trt-Eval Interval | | | | | | | | |
| ARM Action Codes | | | | | | | | |
| Trt Treatment | | | | | | | | |
| No. Name Rate Unit | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 Goal 1 qt/a | 20.0 | 19.3 | 17.3 | 19.8 | 18.5 | 19.3 | 17.3 | 17.8 |
| 2 Goal 2 qt/a | 16.0 | 18.5 | 14.0 | 16.3 | 14.3 | 16.8 | 14.5 | 14.0 |
| 3 Goal 1 qt/a | 17.8 | 17.8 | 18.8 | 19.5 | 17.0 | 17.3 | 16.5 | 16.8 |
| 4 Goal 2 qt/a | 15.5 | 15.5 | 13.8 | 17.8 | 16.3 | 17.5 | 16.8 | 16.3 |
| 5 non-treated | 16.8 | 17.3 | 18.0 | 16.8 | 17.8 | 18.8 | 19.0 | 18.3 |
| 6 Goal 1 qt/a | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LSD (P=.05) | 3.47 | 2.90 | 2.27 | 2.94 | 4.50 | 3.74 | 3.67 | 3.65 |
| Standard Deviation | 2.30 | 1.92 | 1.51 | 1.95 | 2.99 | 2.48 | 2.44 | 2.42 |
| CV | 16.06 | 13.07 | 11.07 | 13.0 | 21.4 | 16.65 | 17.42 | 17.51 |
| Bartlett's X2 | 3.18 | 5.917 | 0.754 | 3.604 | 6.617 | 2.444 | 0.819 | 2.027 |
| P(Bartlett's X2) | 0.528 | 0.205 | 0.945 | 0.462 | 0.158 | 0.655 | 0.936 | 0.731 |

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

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| Weed Code | plant13 CPSAN | plant14 CPSAN | plant15 CPSAN | plant16 CPSAN | plant17 CPSAN | plant18 CPSAN | plant19 CPSAN | plant20 CPSAN |
|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Crop Code | | | | | | | | |
| Rating Data Type | height | height | height | height | height | height | height | height |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm |
| Rating Date | May-06-03 | May-06-03 | May-06-03 | May-06-03 | May-06-03 | May-06-03 | May-06-03 | May-06-03 |
| Trt-Eval Interval | | | | | | | | |
| ARM Action Codes | | | | | | | | |
| Trt Treatment | | | | | | | | |
| No. Name Rate Unit | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 Goal 1 qt/a | 15.5 | 17.0 | 18.8 | 18.5 | 18.0 | 17.5 | 17.5 | 17.5 |
| 2 Goal 2 qt/a | 16.5 | 16.0 | 16.0 | 17.0 | 15.3 | 15.8 | 15.5 | 16.0 |
| 3 Goal 1 qt/a | 17.8 | 18.0 | 17.8 | 17.3 | 18.8 | 19.5 | 18.5 | 18.3 |
| 4 Goal 2 qt/a | 16.8 | 16.0 | 16.3 | 17.3 | 16.5 | 17.0 | 16.5 | 15.3 |
| 5 non-treated | 18.8 | 17.5 | 18.5 | 17.8 | 17.8 | 17.5 | 17.3 | 17.3 |
| 6 Goal 1 qt/a | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LSD (P=.05) | 2.69 | 4.31 | 2.44 | 2.62 | 4.05 | 3.34 | 3.99 | 3.91 |
| Standard Deviation | 1.78 | 2.86 | 1.62 | 1.74 | 2.69 | 2.22 | 2.65 | 2.60 |
| CV | 12.56 | 20.32 | 11.15 | 11.9 | 18.71 | 15.24 | 18.65 | 18.49 |
| Bartlett's X2 | 1.919 | 1.68 | 1.783 | 1.391 | 3.897 | 2.554 | 1.986 | 1.811 |
| P(Bartlett's X2) | 0.751 | 0.794 | 0.776 | 0.846 | 0.42 | 0.635 | 0.738 | 0.77 |

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

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| Weed Code | AVERAGE | plant1 | plant2 | plant3 | plant4 | plant5 | plant6 | plant7 | |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Crop Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | |
| Rating Data Type | height | height | height | height | height | height | height | height | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | |
| Rating Date | May-06-03 | May-29-03 | May-29-03 | May-29-03 | May-29-03 | May-29-03 | May-29-03 | May-29-03 | |
| Trt-Eval Interval | | | | | | | | | |
| ARM Action Codes | T1 | | | | | | | | |
| Trt Treatment | Rate | | | | | | | | |
| No. Name | Rate Unit | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 1 Goal | 1 qt/a | 18.1 | 36.8 | 40.3 | 37.3 | 36.8 | 37.3 | 40.8 | 35.8 |
| 2 Goal | 2 qt/a | 16.0 | 42.0 | 40.5 | 39.3 | 36.0 | 37.5 | 35.5 | 33.3 |
| 3 Goal | 1 qt/a | 17.6 | 35.0 | 40.5 | 36.5 | 43.8 | 40.5 | 39.5 | 40.0 |
| 4 Goal | 2 qt/a | 16.0 | 35.0 | 36.0 | 33.8 | 35.5 | 36.5 | 37.0 | 39.0 |
| 5 non-treated | | 17.7 | 36.3 | 37.8 | 39.0 | 37.8 | 39.0 | 40.5 | 40.5 |
| 6 Goal | 1 qt/a | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LSD (P=.05) | | 1.87 | 9.44 | 6.66 | 5.04 | 6.71 | 6.39 | 8.27 | 6.99 |
| Standard Deviation | | 1.24 | 6.26 | 4.42 | 3.34 | 4.45 | 4.24 | 5.49 | 4.64 |
| CV | | 8.74 | 20.31 | 13.6 | 10.8 | 14.07 | 13.34 | 17.04 | 14.76 |
| Bartlett's X2 | | 3.431 | 5.495 | 4.436 | 3.746 | 5.363 | 4.44 | 0.608 | 3.126 |
| P(Bartlett's X2) | | 0.488 | 0.24 | 0.35 | 0.442 | 0.252 | 0.35 | 0.962 | 0.537 |

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

Column 25: T1 = @AVG([C5].[C24])

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| Weed Code | plant8 CPSAN | plant9 CPSAN | plant10 CPSAN | plant11 CPSAN | plant12 CPSAN | plant13 CPSAN | plant14 CPSAN | plant15 CPSAN | | | |
|--------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|-------|-------|-------|
| Crop Code | | | | | | | | | | | |
| Rating Data Type | height | height | height | height | height | height | height | height | | | |
| Rating Unit | cm | cm | cm | cm | cm | cm | cm | cm | | | |
| Rating Date | May-29-03 | May-29-03 | May-29-03 | May-29-03 | May-29-03 | May-29-03 | May-29-03 | May-29-03 | | | |
| Trt-Eval Interval | | | | | | | | | | | |
| ARM Action Codes | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 1 | Goal | 1 | qt/a | 39.8 | 40.5 | 41.0 | 41.3 | 37.8 | 40.5 | 39.3 | 38.3 |
| 2 | Goal | 2 | qt/a | 35.5 | 33.8 | 36.8 | 39.3 | 36.3 | 38.8 | 33.8 | 31.0 |
| 3 | Goal | 1 | qt/a | 38.5 | 37.3 | 35.3 | 39.0 | 39.5 | 40.5 | 37.3 | 39.0 |
| 4 | Goal | 2 | qt/a | 35.8 | 35.3 | 34.0 | 37.8 | 32.3 | 35.0 | 36.8 | 37.0 |
| 5 | non-treated | | | 41.0 | 44.5 | 37.8 | 40.3 | 37.0 | 37.5 | 36.5 | 36.5 |
| 6 | Goal | 1 | qt/a | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LSD (P=.05) | | | | 5.64 | 6.12 | 7.37 | 8.21 | 9.73 | 9.22 | 9.28 | 8.30 |
| Standard Deviation | | | | 3.74 | 4.06 | 4.89 | 5.45 | 6.45 | 6.12 | 6.16 | 5.51 |
| CV | | | | 11.78 | 12.73 | 15.89 | 16.56 | 21.19 | 19.09 | 20.14 | 18.17 |
| Bartlett's X2 | | | | 4.156 | 0.612 | 2.35 | 1.449 | 11.285 | 7.946 | 2.266 | 2.528 |
| P(Bartlett's X2) | | | | 0.385 | 0.962 | 0.672 | 0.836 | 0.024* | 0.094 | 0.687 | 0.64 |

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

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| Weed Code | plant16 CPSAN | plant17 CPSAN | plant18 CPSAN | plant19 CPSAN | plant20 CPSAN | AVERAGE CPSAN | CPSAN US FANCY | CPSAN US FANCY | | | |
|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------|--------|--------|
| Crop Code | | | | | | | number | wt/lbs | | | |
| Rating Data Type | | | | | | | | | | | |
| Rating Unit | height cm | height cm | height cm | height cm | height cm | height cm | | | | | |
| Rating Date | May-29-03 | May-29-03 | May-29-03 | May-29-03 | May-29-03 | May-29-03 | Jun-12-03 | Jun-12-03 | | | |
| Trt-Eval Interval | | | | | | | | | | | |
| ARM Action Codes | | | | | | T2 | | | | | |
| Trt No. | Treatment Name | Rate | Unit | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 1 | Goal | 1 | qt/a | 37.0 | 41.8 | 40.3 | 38.8 | 36.3 | 38.9 | 0.8 | 0.3 |
| 2 | Goal | 2 | qt/a | 35.3 | 36.0 | 36.0 | 37.0 | 38.8 | 36.6 | 0.0 | 0.0 |
| 3 | Goal | 1 | qt/a | 37.5 | 36.3 | 46.0 | 38.8 | 43.5 | 39.2 | 3.8 | 1.6 |
| 4 | Goal | 2 | qt/a | 35.5 | 37.3 | 35.5 | 32.5 | 35.5 | 35.6 | 0.3 | 0.1 |
| 5 | non-treated | | | 40.8 | 42.5 | 41.0 | 32.8 | 38.0 | 38.8 | 0.8 | 0.3 |
| 6 | Goal | 1 | qt/a | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LSD (P=.05) | | | | 10.95 | 8.08 | 6.42 | 9.62 | 7.86 | 4.67 | 2.21 | 0.95 |
| Standard Deviation | | | | 7.27 | 5.36 | 4.26 | 6.38 | 5.21 | 3.10 | 1.46 | 0.63 |
| CV | | | | 23.44 | 16.6 | 12.86 | 21.31 | 16.29 | 9.84 | 159.75 | 164.35 |
| Bartlett's X2 | | | | 2.798 | 5.372 | 2.091 | 0.977 | 2.129 | 2.403 | 10.897 | 10.964 |
| P(Bartlett's X2) | | | | 0.592 | 0.251 | 0.719 | 0.913 | 0.712 | 0.662 | 0.012* | 0.012* |

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

Column 46: T2 = @AVG([C26].[C45])

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| Weed Code | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | CPSAN | Total | Total |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|------------|
| Crop Code | US NO 1 | US NO 1 | US NO 2 | US NO 2 | culls | culls | CPSAN | CPSAN |
| Rating Data Type | number | wt/lbs | number | wt/lbs | number | wt/lbs | allbutculls | allbutcull |
| Rating Unit | | | | | | | number | lbs/wt |
| Rating Date | Jun-12-03 | Jun-12-03 | Jun-12-03 | Jun-12-03 | Jun-12-03 | Jun-12-03 | Aug-29-03 | Aug-29-03 |
| Trt-Eval Interval | | | | | | | | |
| ARM Action Codes | | | | | | | T3 | T4 |
| Trt Treatment Rate | | | | | | | | |
| No. Name Rate Unit | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 57 |
| 1 Goal 1 qt/a | 21.3 | 6.4 | 59.8 | 10.4 | 3.5 | 1.0 | 81.8 | 17.1 |
| 2 Goal 2 qt/a | 13.0 | 4.1 | 63.5 | 10.1 | 3.3 | 0.8 | 76.5 | 14.1 |
| 3 Goal 1 qt/a | 25.8 | 8.2 | 50.5 | 10.3 | 5.0 | 1.6 | 80.0 | 20.1 |
| 4 Goal 2 qt/a | 25.3 | 8.1 | 51.8 | 9.5 | 2.3 | 0.6 | 77.3 | 17.7 |
| 5 non-treated | 11.5 | 3.8 | 70.5 | 12.8 | 3.0 | 0.7 | 82.8 | 16.8 |
| 6 Goal 1 qt/a | 0.3 | 0.1 | 17.8 | 1.7 | 0.0 | 0.0 | 18.0 | 1.7 |
| LSD (P=.05) | 9.06 | 3.53 | 18.21 | 2.20 | 3.19 | 1.06 | 17.69 | 4.47 |
| Standard Deviation | 6.01 | 2.34 | 12.09 | 1.46 | 2.12 | 0.70 | 11.74 | 2.96 |
| CV | 37.17 | 46.01 | 23.11 | 16.03 | 74.69 | 89.46 | 16.92 | 20.31 |
| Bartlett's X2 | 11.88 | 15.391 | 3.069 | 6.593 | 4.237 | 4.679 | 3.78 | 10.909 |
| P(Bartlett's X2) | 0.036* | 0.009* | 0.689 | 0.253 | 0.375 | 0.322 | 0.581 | 0.053 |

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

Column 55: T3 = [C47]+[C49]+[C51]

Column 56: T4 = [48]+[50]+[52]

Trial Comments

GENERAL COMMENTS: The night after planting temperatures dropped to 31 degrees and wind beat plants badly bruising plant stems. This planting did not grow or produce nearly as effectively as previous plantings. The trial was maintained weed free.

OBJECTIVE: Determine tolerance of pepper to Goal applied under plastic prior to planting and to Goal applied in the row middle.

RESULTS:

Visual Injury:

- 1) Goal applied at 1 qt/A under plastic injured pepper less than 2%.
- 2) Increasing the rate of Goal to 2 qt/A had little impact with up to 6% stunting.
- 3) Applying Goal under the plastic and in the row middle tended to be a little more injurious. This was likely a result of applying the row middle application 1 day prior to transplanting. Injury ranged from 5 to 14% with these applications.
- 4) Goal applied at 2 qt PRE and in the RM caused significantly more stunting than the non-treated control.
- 5) Goal applied topically injured pepper 92 to 99%.

Plant Heights: (20 plants per plot were measured at each date):

- 1) Goal applied POST reduced plant heights by nearly 100%.
- 2) No other Goal application had a significant impact on pepper height. However, there was a slight trend for stunting at 68 d after transplant when Goal was applied at 2 qt/A.

Yields: (low yields were noted in trial most likely due to weather occurring within 2 days of transplanting)

- 1) Few US FANCY fruit were harvested.
- 2) Compared to the control, Goal applied POST was the only treatment to reduce fruit numbers and weight of US No 1 fruit. Additionally, several Goal treatments increased the number and weight of US No. 1 fruit. The trial was kept weed free but competition occurring between weedings could have played a small role.
- 3) Compared to the control, several Goal treatments did reduce the number of US No 2 fruit. This is likely a response to a slight delay in the control producing less US NO 1 fruit and more US No 2 fruit.
- 4) Treatments did not affect the number or weight of culls.
- 5) Only Goal POST reduced total fruit numbers or weights when compared to the non-treated control.

CONCLUSION:

- 1) Goal at 1 to 1.5 qt/A would be a good use rate.
- 2) Row middle applications should be made at least 3 days prior to transplanting.
- 3) Pepper is extremely tolerant to Goal applied PRE under plastic.