

A NEW TECHNOLOGY!

GREATER YIELDS

SmartGrowTM
for
Tomato Growers
Phase I Test Results



the natural way to make more money!



SmartGrowTM for Tomatoes

Completed Tests

Field Test: **31.6%** increase in yield(3)

Container (mat on bottom) test: **72.6%** increase in yield(4)

Test Details.....(5)

Container (mat on top) test: **36%** increase in yield(6)

Test Details.....(7)

UF GCREC (field conditions): **29.9%** increase in tomato yield(8)

39.9% increase in bell pepper yield

UF TREC (greenhouse container) **100%** increase in yield(9)

Phase II Testing:

Hanson Farms (Ongoing)

GCREC (Ongoing)

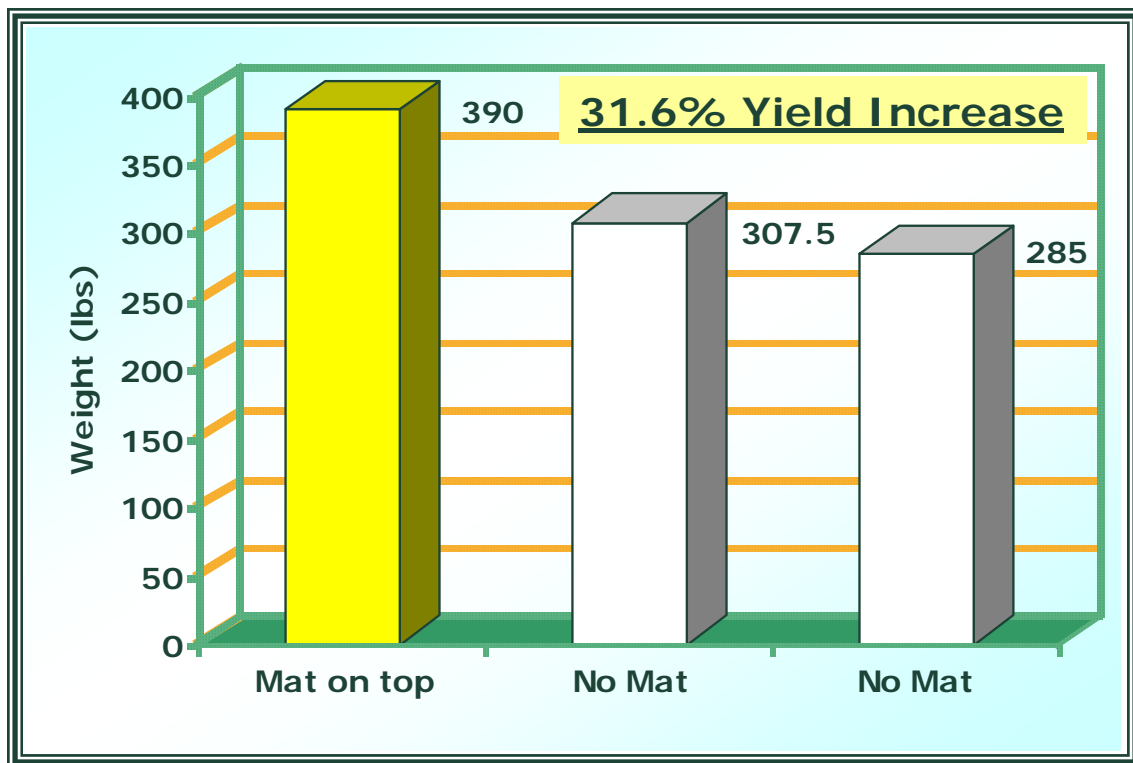
TREC (Ongoing)

Greenhouse container tomato test (Ongoing)

Field Tomato Test

- Planted on January 2006
- All received equal rates of fertilizer
- Harvested on April 2006
- Grown in field conditions

| Treatment | Bushels | Weight (lbs) | % yield |
|-------------|---------|--------------|---------|
| Mat on top | 13 | 390 | 31.6% |
| Without mat | 10.25 | 307.5 | |
| Without mat | 9.5 | 285 | |

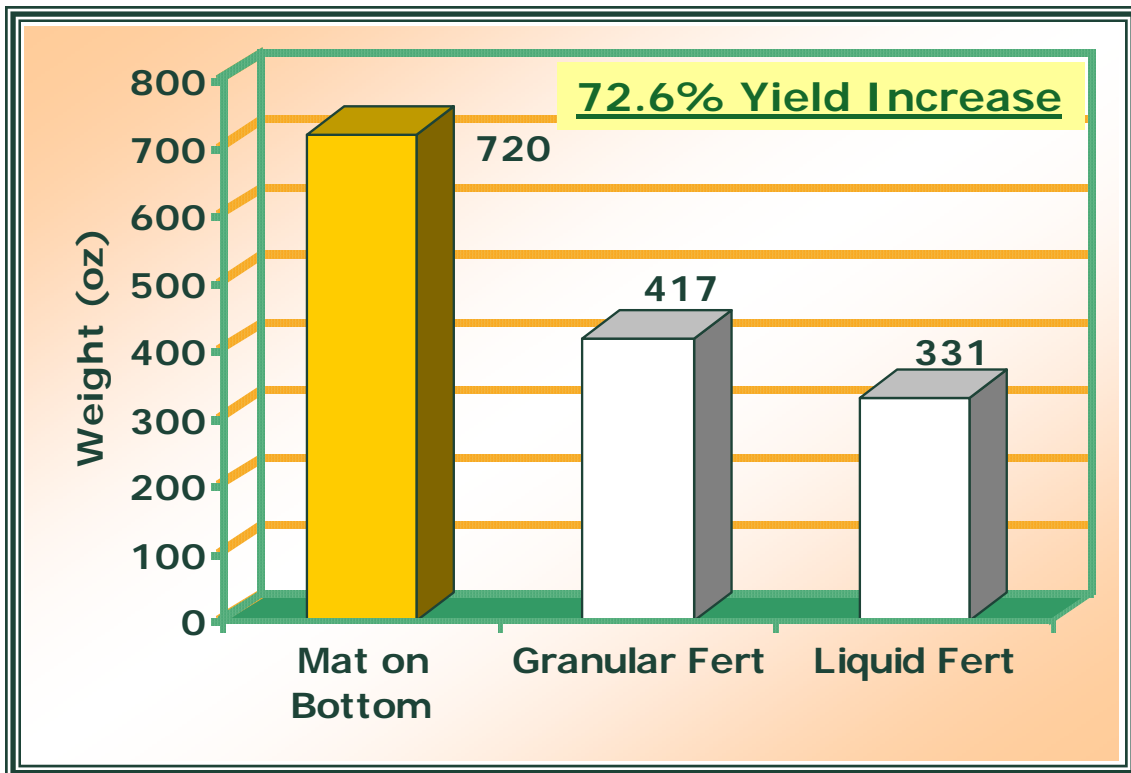


Mat on Bottom Tomato Test

Completed: July 17, 2006

Grown at Hanson Farms, Cumming, GA

| Treatment | # of picked tomatoes | Total picked weight (oz) | Average weight (oz) |
|---------------|----------------------|--------------------------|---------------------|
| Mat on Bottom | 130 | 720 | 5.5 |
| Granular | 111 | 417 | 3.7 |
| Liquid | 78 | 331 | 4.2 |



Mat on Bottom Tomato Test

Objective: Determine the efficacy of the SmartGrow™ mat in a bottom application compared to standard application of fertilizer without mat

Start Date: April 11, 2006
Completed Date: July 17, 2006
of containers: 30 (10 per group)
Type of soil: Fafard soiless media #52
Type of tomato: Better Boy
Size of transplant: 72 cell liner
Placement of pots: Full sun, 3' on center
Pot Size: 3 gallon

Fertilization: First Application April 11, 2006
Group 1: Mat on bottom with organic fertilizer
Group 2: Granular 10-10-10
60 day time release
Applied according to manufacturer recommendation
Group 3: Liquid 18-16-24
Applied according to manufacturer recommendation

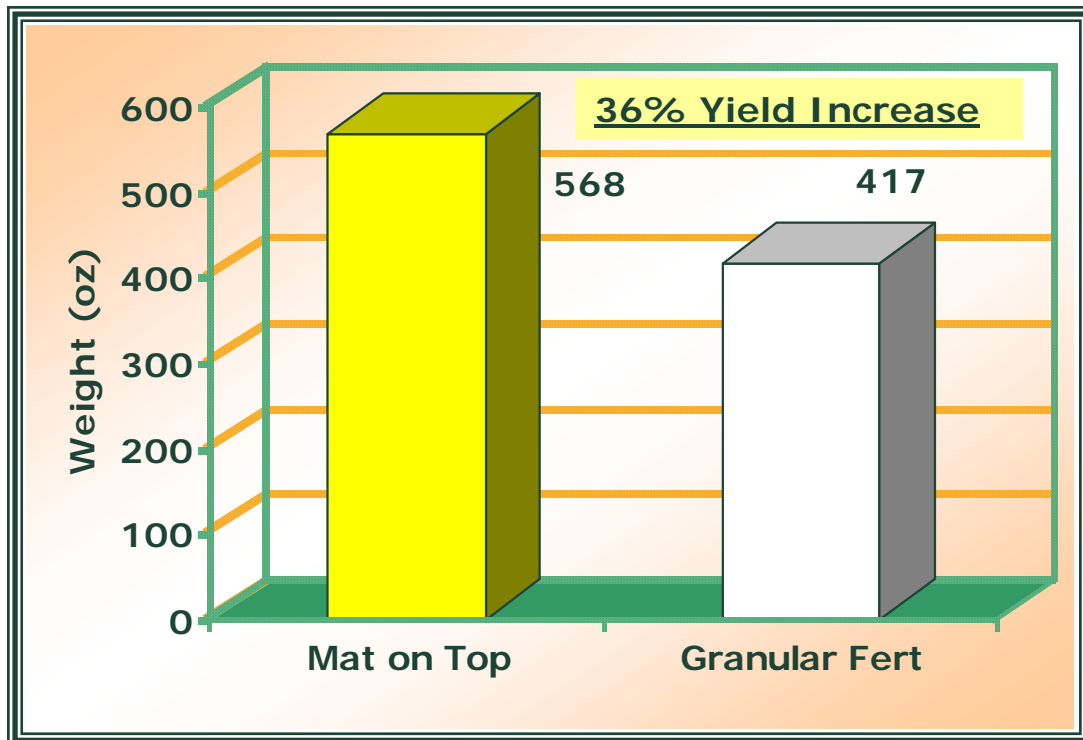
Second Application June 22, 2006
Group 1: Applied according to manufacturer recommendation
Group 2: Applied according to manufacturer recommendation
Group 3: Applied according to manufacturer recommendation

Mat on Top Tomato Test

Completed: August 07, 2006

Grown at Hanson Farms, Cumming, GA

| Treatment | # of picked tomatoes | Total picked weight (oz) | Average weight (oz) |
|------------|----------------------|--------------------------|---------------------|
| Mat on Top | 133 | 568 | 4.27 |
| Granular | 111 | 417 | 3.7 |



Mat on Top Tomato Test

Objective: Determine the efficacy of the SmartGrow™ mat in a top application of Scotts granular compared to a top application without a mat

Start Date: April 11, 2006

Completed Date: August 07, 2006

of containers: 20 (10 plants per group)

Type of soil: Fafard soiless media # 52

Type of tomato: Better Boy

Size of transplant: 72 cell liner

Placement of pots: Full sun 3' on center

Pot Size: 3 gallon

Fertilization: First Application, April 11, 2006

Group 1: Top application of Scotts 10-10-10 with mat

Group 2: Top application of Scotts 10-10-10 without mat

Fertilization: Second Application, June 22, 2006

Group 1: Top application of Scotts 10-10-10 with mat

Group 2: Top application of Scotts 10-10-10 without mat



Influence of SmartGrow Soil Mat on Tomato and Bell Pepper Production Summary of Results: Fall 2006 Season

| | |
|----------------------|--|
| Crop: | 'Florida 47' tomato. |
| Season: | Fall 2006 (August-December 2006). |
| Location: | GCREC, Balm, Florida. |
| Experimental design: | Randomized complete block design with 6 replications. |
| Plot size: | 30-ft long plots (15 tomato plants/plot) per treatment by 4 plots (60 tomato plants/treatment); total area (360 ft row = 1800 ft ²). |

| | |
|----------------------|--|
| Crop: | 'Aristotle' bell pepper. |
| Season: | Fall 2006 (August-December 2006). |
| Location: | GCREC, Balm, Florida. |
| Experimental design: | Randomized complete block design with 6 replications. |
| Plot size: | 15-ft long plots (30 bell pepper plants/plot) per treatment by 4 plots (180 bell pepper plants/treatment); total area (180 ft row = 900 ft ²). |

| Treatments | Description |
|------------|--|
| 1 | Conventional management |
| 2 | Conventional management + SmartGrow soil mat |

| Treatment | Tomato | | | | | |
|------------------|--------------|--------|-------------------|--------|-------------|---------|
| | Plant height | | Fruit yield | | | |
| | 4 WAT | 8 WAT | Medium | Large | Extra-large | Total |
| | -----cm----- | | -----lb/plot----- | | | |
| Without soil mat | 45.5 a | 77.0 b | 36.5 a | 42.8 b | 65.8 b | 145.0 b |
| With soil mat | 47.5 a | 94.3 a | 47.3 a | 66.5 a | 80.3 a | 194.0 a |

| Treatment | Bell pepper | | | | | |
|------------------|--------------|--------|-------------------|-------|-------------------|---------|
| | Plant height | | Fruit number | | Fruit yield | |
| | 4 WAT | 8 WAT | Early | Total | Early | Total |
| | -----cm----- | | -----no/plot----- | | -----lb/plot----- | |
| Without soil mat | 24.3 a | 35.8 b | 54.0 b | 113 b | 32.3 b | 88.6 b |
| With soil mat | 23.8 a | 37.8 a | 70.3 a | 157 a | 58.0 a | 124.0 a |

Observations: Values followed by the same letter within each column do not differ statistically at the 5% significance level. The data are the result of only one cropping season. Therefore, results are not conclusive.

| | | | |
|--------------|-------|-------------------|-------|
| TOMATO YIELD | 29.9% | BELL PEPPER YIELD | 39.9% |
|--------------|-------|-------------------|-------|

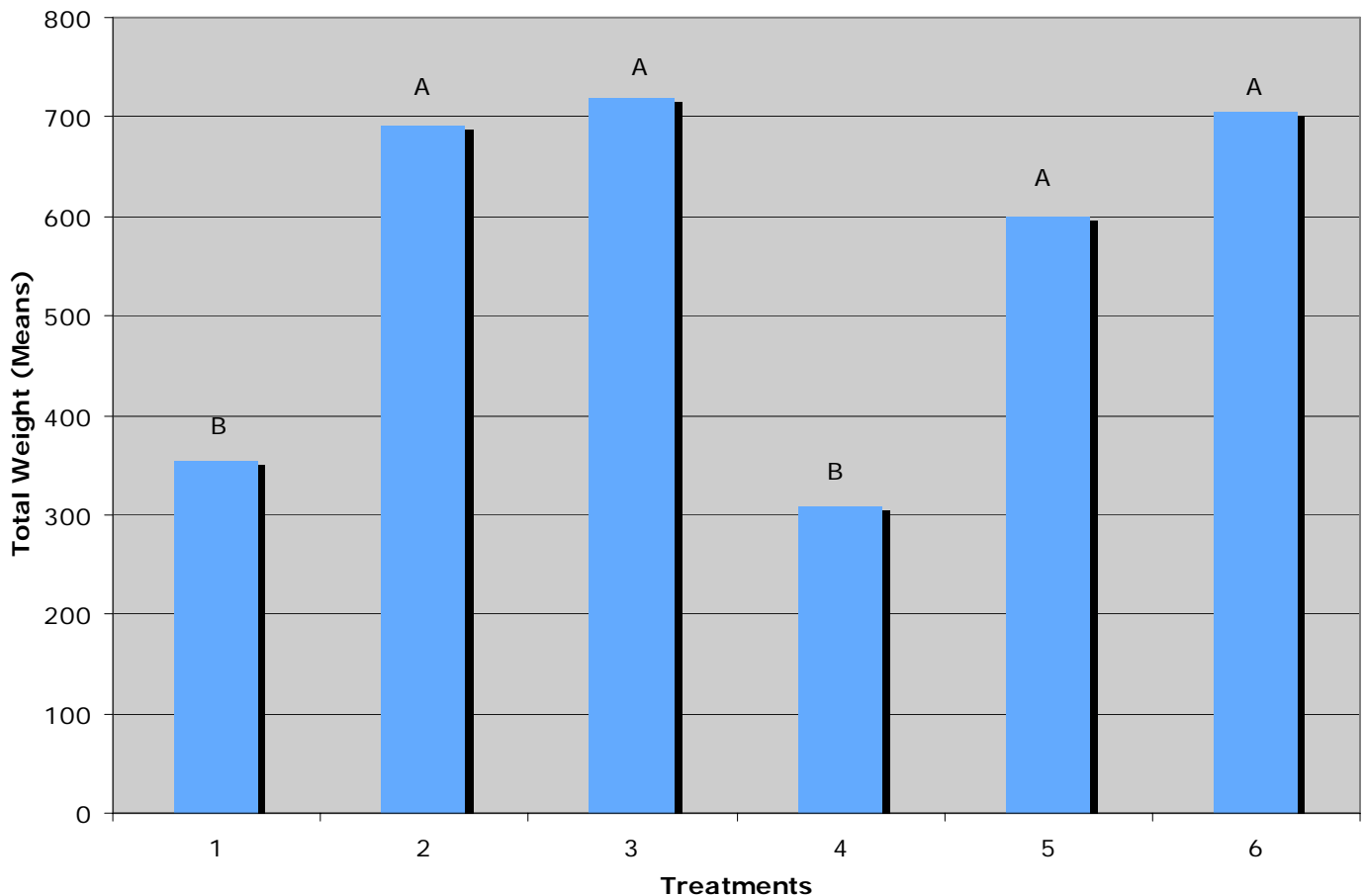
Greenhouse Tomato Test

Started: January 26, 2007

Completed: March 19, 2007

Conducted at TREC, Homestead, FL

Smartgrow Greenhouse Tomato Trial



Treatment 1 = Control standard fertility

Treatment 2 = Mat (9.5 in) on the top standard fertility

Treatment 3 = Mat (8.5 in) on the bottom standard fertility

Treatment 4 = Control no fertility

Treatment 5 = Mat (9.5 in) on the top no fertility

Treatment 6 = Mat (8.5 in) on the bottom no fertility