

OBJECTIVE

To evaluate the impact of multiple applications of two different bio-nutritional spray programs (2 apps/partial & 4 apps/full) on bell pepper sizing & packout dynamics against grower standard program.

Site Location:

South Carolina

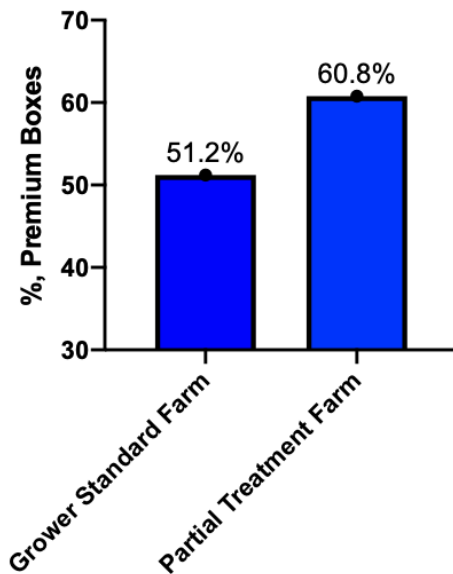
Researchers:

Blake Brown, CCA
Timac Agro USA

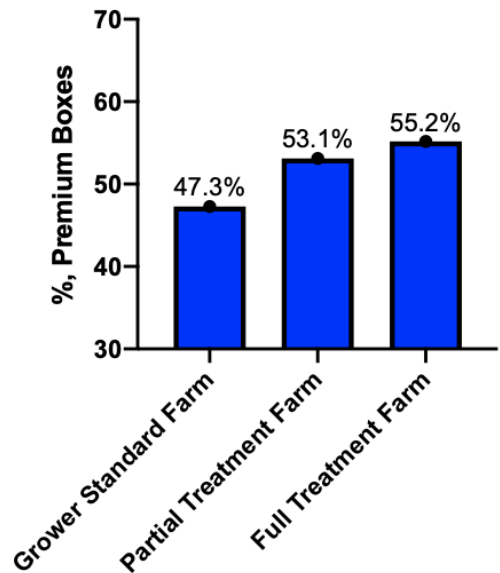
RESULTS BY VARIETY

Packout data for these treated farm fields (partial or full) were totaled and a grower standard farm was used to evaluate against the treatment. All picking events (Reporting Dates) were totaled for both treated and grower standard fields (minimum of three picks). Premium Boxes is the combination of Jumbo and X-Large category boxes. Other boxes that generate a lower return include select, large, medium, suntan, mixed red, and red.

**Vanguard Variety, Bell Pepper
Total Packout by Treatment**



**Boca Variety, Bell Pepper
Total Packout by Treatment**



KEY FINDINGS

Partial Treatment on Vanguard Variety:
9.6% more fruit in the Premium Categories
over Grower Standard

Partial Treatment on Boca Variety:
5.8% more fruit in the Premium Categories
over Grower Standard

Full Treatment on Boca Variety:
7.9% more fruit in the Premium Categories
over Grower Standard

COVER SPRAY TIMING

Partial Treatment – Vanguard & Boca Varieties	Application Rate
Fertileader Elite – 9/3	1.25 qt/ac
Fertileader Elite – 9/17	1.25 qt/ac
Full Treatment – Boca Variety	Application Rate
Fertiactyl GZ – 9/3	1 qt/ac
Fertiactyl GZ – 9/17	1 qt/ac
Fertileader Elite – 10/1	1 qt/ac
Fertileader Elite – 10/8	1 qt/ac

QUALITATIVE DATA COLLECTION

Trial ID: DT-19-SE-PEP-GZ-FLEL



GROWER STANDARD

PARTIAL TREATMENT

Roots were dug 7 days following second application of 1.25 qt/ac of Fertileader Elite on Sept. 24 on Vanguard variety of bell pepper that received partial treatment protocol. Results showed increased root mass, length of lead roots and increased fibrous roots.



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FULL TREATMENT

Roots were dug and all fruits were removed from 2 bell peppers randomly selected by grower on both grower standard plants and plants that received the full treatment protocol. Timing of dig and fruit removal was 2 days following second application of 1 qt/ac of Fertileader Elite on October 10 on the Boca variety of bell pepper. Results showed increased root mass and increased fruit size throughout removed set.



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FULL TREATMENT

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3/17/2021