

Thermostat™

Processing Tomato Yield Increase Demonstration

Thermostat is a unique foliar technology for reducing abiotic stress. The compounds in Thermostat function as a sun protectant and osmoregulator. A 2.5-acre demonstration plot to evaluate yield benefits of Thermostat on late season processing tomatoes was conducted in Central California in a commercial tomato field.

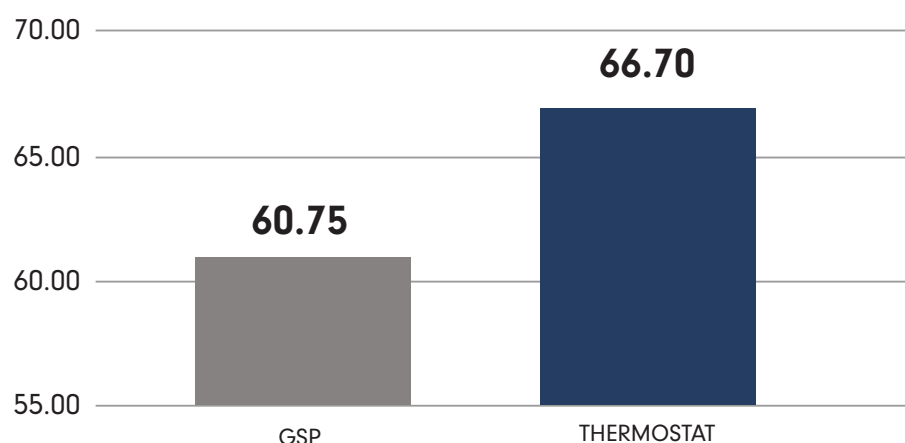
Thermostat was sprayed once by a commercial 18 row sprayer, at a use rate of 1 quart/acre, and application was made at color break in mid-August.

Thermal measurements were taken at 10 days and 20 days after application using a FLIR 1 Pro camera and demonstrated a 2-4 °F reduction in leaf temperature at midday on the Thermostat treated plants. The thermal measurements indicate that the benefits of Thermostat last ≈ 3 weeks.

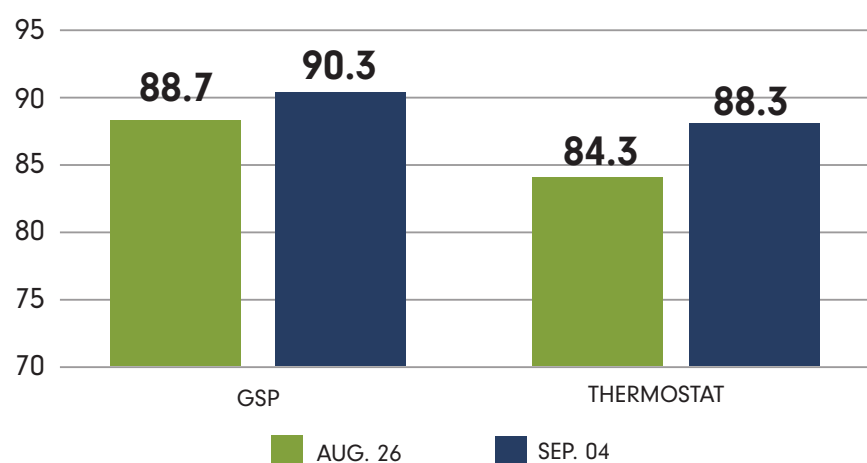
Yields from 5 consecutive plants in 3 separate rows of Thermostat treated and Grower Standard portions of the field were determined by stripping all fruit off the plants and weighing.

Results indicate a 6 ton per acre yield increase from Thermostat use, providing an outstanding ROI for the grower. The yield increase likely results from continued crop growth under normal, stressful heat levels which restrict fruit development (>95–102 °F).

**Thermostat Tomato Trial
Calculated Yield (Tons/Acre)**



**Thermostat Tomato
Trial Leaf Temp °F**



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Northern CA &
Intermountain West
Ryan Sanderson, CCA PCA
208-565-6431
RSanderson@Nutrient.TECH

Coastal CA,
Southern CA, AZ & HI
Craig Wyatt, PCA, QAL
831-809-1588
CWyatt@Nutrient.TECH

Pacific Northwest
Michael Ruttan, PCA
509-378-5357
MRuttan@Nutrient.TECH

CA Central Valley
Devin Lilles
559-287-7724
DLilles@Nutrient.TECH