

KREOTEC

Trial in Tomatoes, USA:
Yield increase

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STUDY DETAILS

Crop:	Processing Tomatoes
Country:	USA
Year:	2018
Product(s):	Kreotec
Trial Type:	Randomised complete block (4 Replicates)

STUDY AIMS

The objective of this study was determine the effect of Kreotec against standard growers' practice of UAN32 by measuring weight of harvested fruit (kg/plot) and brix

TREATMENTS

Treatments:	<p>Treatment 1: Standard Fertiliser Application (control) Pre-Plant: 336kg/ha NPK (15-15-15) = 50kg N/ha UAN 3wks post plant: 140l/ha NPK(32-0-0) = 59 kg N/ha UAN 6wks post plant: 140l/ha NPK(32-0-0) = 59 kg N/ha Total Applied N = 168kg/ha</p> <p>Treatment 2: Pre-Plant Only Pre-Plant: 336kg/ha NPK (15-15-15) = 50kg N/ha Total Applied N = 50kg/ha</p> <p>Treatment 3: Pre-Plant Only + KREOTEC Pre-Plant: 336kg/ha NPK (15-15-15) = 50kg N/ha Total Applied N = 50kg/ha</p> <p style="text-align: center;">Total N Reduction = 70%</p>
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SPECIFICS

Specific Location:	Groveland, Florida, USA
Specific Trial Dates:	7 September 2018 – 20 November 2018
Trial Manager:	Tyler Parks, Syntech Research
Distributor:	
Irrigation:	Drip or Sprinkler
Previous Crop:	Unspecified
Basal Fertiliser:	See treatments
Kreotec Application Date:	15 October 2018
Application Growth Stage:	6 weeks after planting
Application Method:	Backpack Sprayer with 11002 Teejet Nozzles
Kreotec Application Rate:	220 ml/ha
Water Rate:	Unspecified
Crop Variety:	Skyway F1
Previous Treatments	Unspecified

RESULTS

Harvest Details

Harvest Date:	20 November 2018
Harvest Method:	Hand

Figure 1: Total Fruit Yield

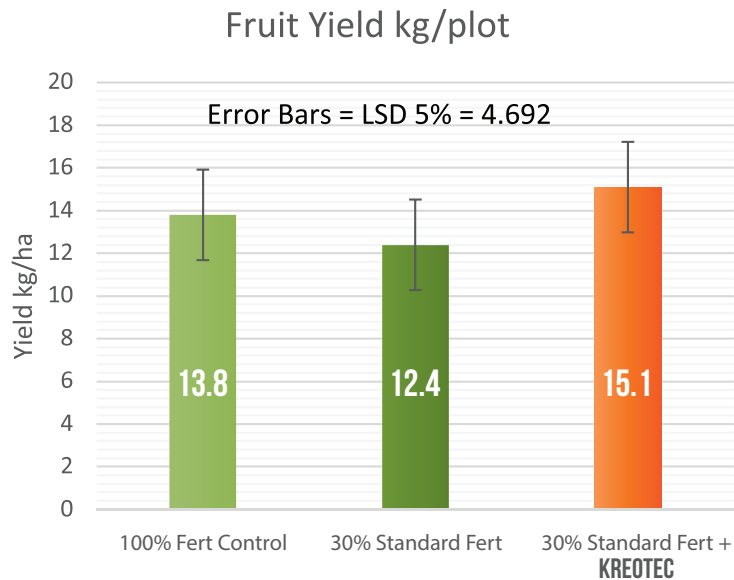
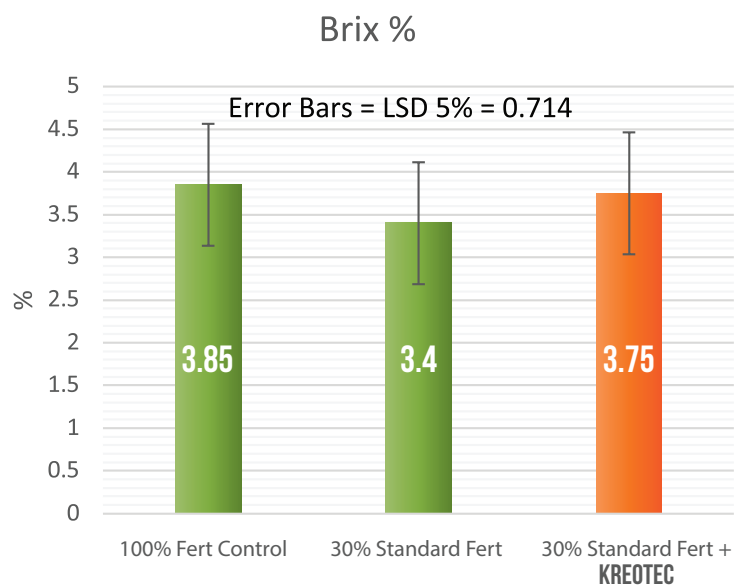


Figure 2: Brix Value



KEY FINDINGS

- Whilst not statistically significant the 30% standard fertiliser plus Kreotec produced a 9% higher yield than the standard fertiliser program (figure 1).
- The yield difference between the 30% standard fertiliser and 30% standard fertiliser + Kreotec was statistically different with a 22% yield increase, indicating that Kreotec is compensating for the reduced nitrogen application (figure 1)
- The Brix levels were not significantly different as it is standard commercial practice to harvest at final tomato size while still green. Despite not being significantly different both treatment 1 and 3 had higher Brix values than treatment 2.

Additional information in relation to this trial is available by contacting Thinkbio

Thinkbio would like to acknowledge the work undertaken by Tyler Parks, SynTech Research