



KREOTEC

Trial in Tomatoes, Philippines
Yield increase

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STUDY DETAILS

Crop:	Tomatoes
Country:	Philippines
Year:	2018
Product(s):	Kreotec
Trial Type:	Randomized Block (3 rep)

STUDY AIMS

- To evaluate the efficacy of Kreotec foliar inoculant on tomatoes
- To determine the effect and acceptable rates of Kreotec foliar inoculant that will provide optimum results in tomato

TREATMENTS

Treatments:	Treatment 1: Control (no applied fertiliser)
	Treatment 2: KREOTEC 200g/ha Only
	Treatment 3: 500kg/ha Plantmate Organic Fertiliser alone NPK (4.14-0-0) = 20.7kg N/ha
	Treatment 4: 500kg/ha Plantmate Organic Fertiliser alone NPK (4.14-0-0) = 20.7kg N/ha + KREOTEC 200g/ha

SPECIFICS

Specific Location:	Science City of Munoz, Nueva Ecija
Specific Trial Dates:	December 2017 – April 2018
Trial Manager:	Constancia C. Dacumos
Distributor:	Great Harvest Agrichemicals Corporation
Irrigation:	Furrow
Previous Crop:	Not Specified
Basal Fertiliser:	See Treatments
Kreotec Application Date:	15 days post-transplant
Application Growth Stage:	Not Specified
Application Method:	Knapsack sprayer applied to point of Run-off
Kreotec Application Rate:	200g/ha
Water Rate:	200 Lt/ha
Crop Variety:	Diamante Max
Previous Treatments	

SOIL TEST RESULTS

pH:	6.4
Nitrogen:	Low
Phosphorus:	Low
Potassium:	Sufficient

RESULTS

Harvest Details

Harvest Date:	First Harvest 85 days after transplant (based on fruit maturity indices) and weekly thereafter with a total of 8 harvests occurring. Fruits were harvested at mature green, or at breaker pink stage to red stage.
Harvest Method:	Hand

Figure 1: Plant Root Mass

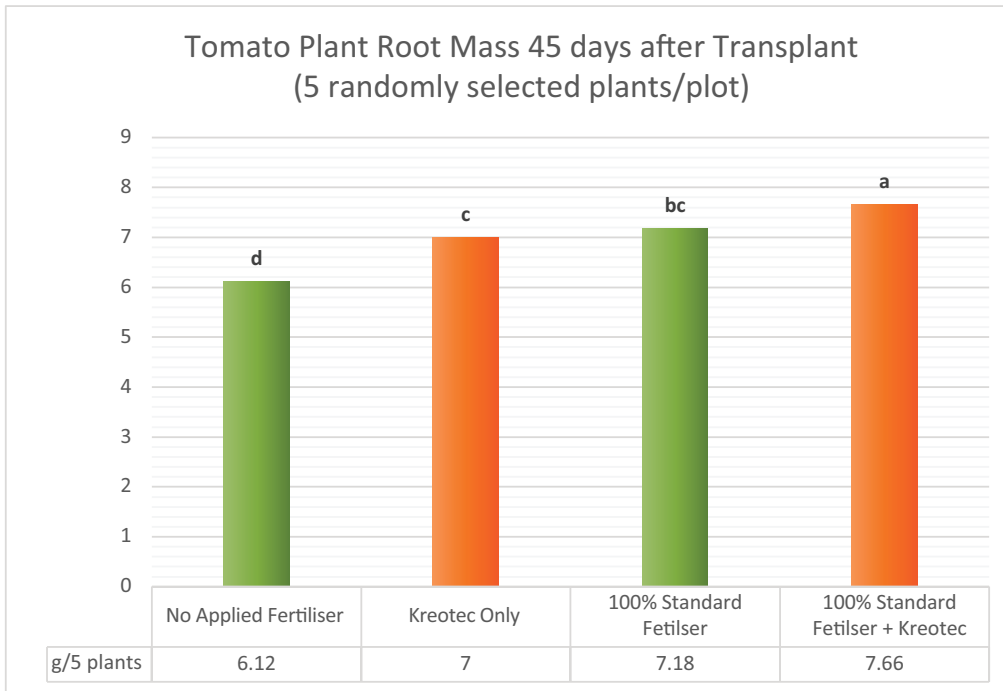


Figure 2: Plant Height 30 Days after transplant

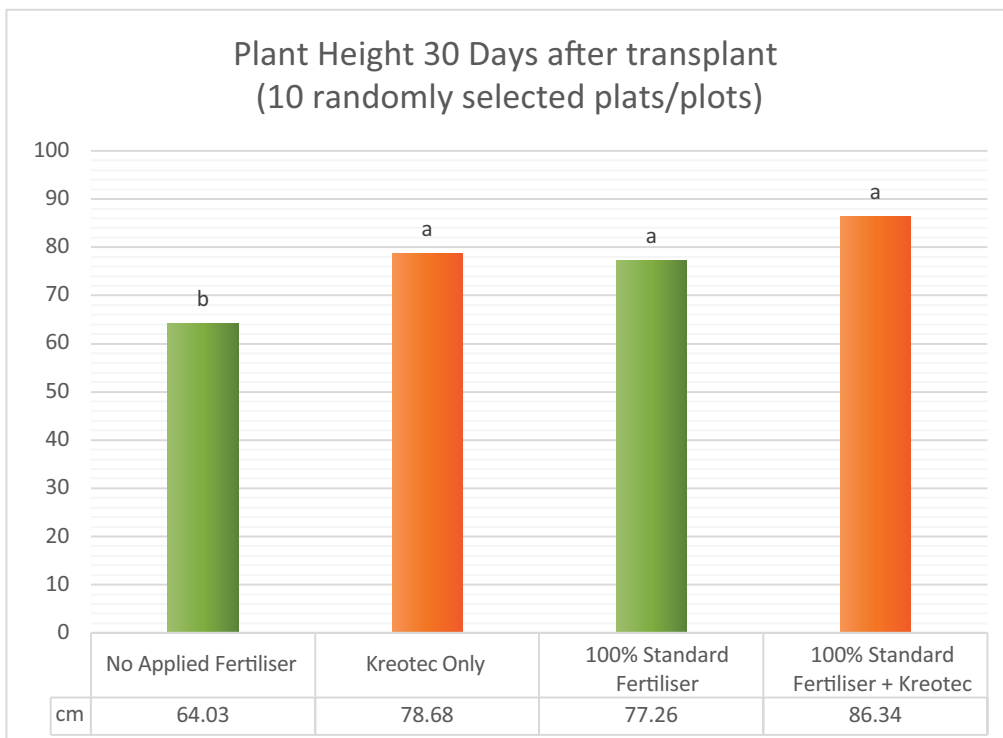




Figure 3: Weight of Marketable Fruit

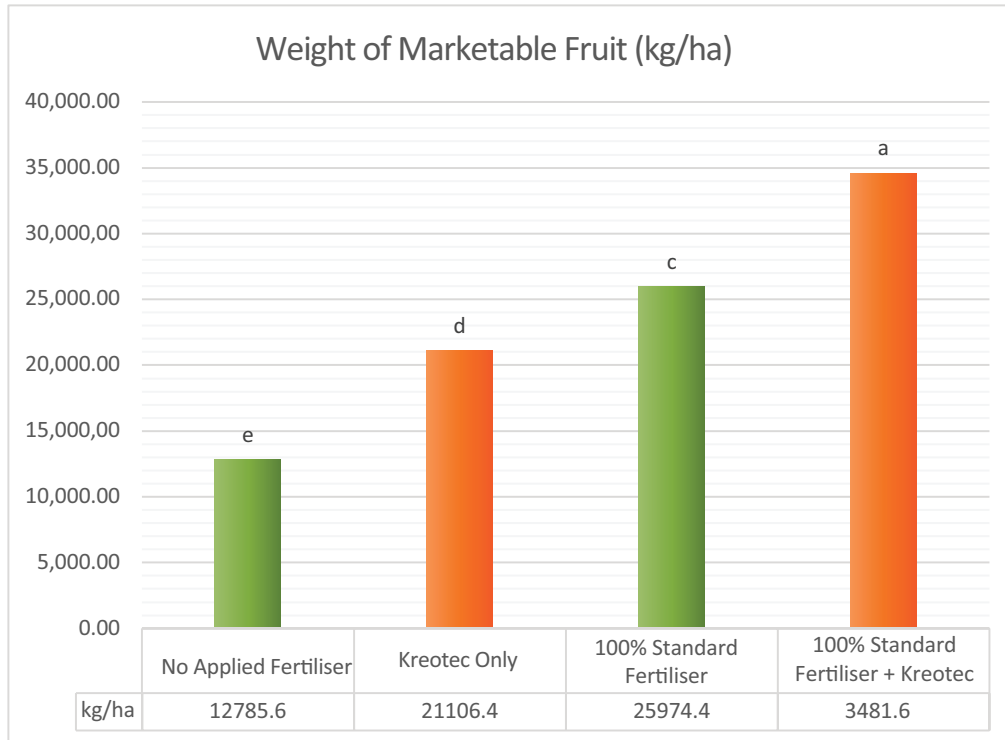
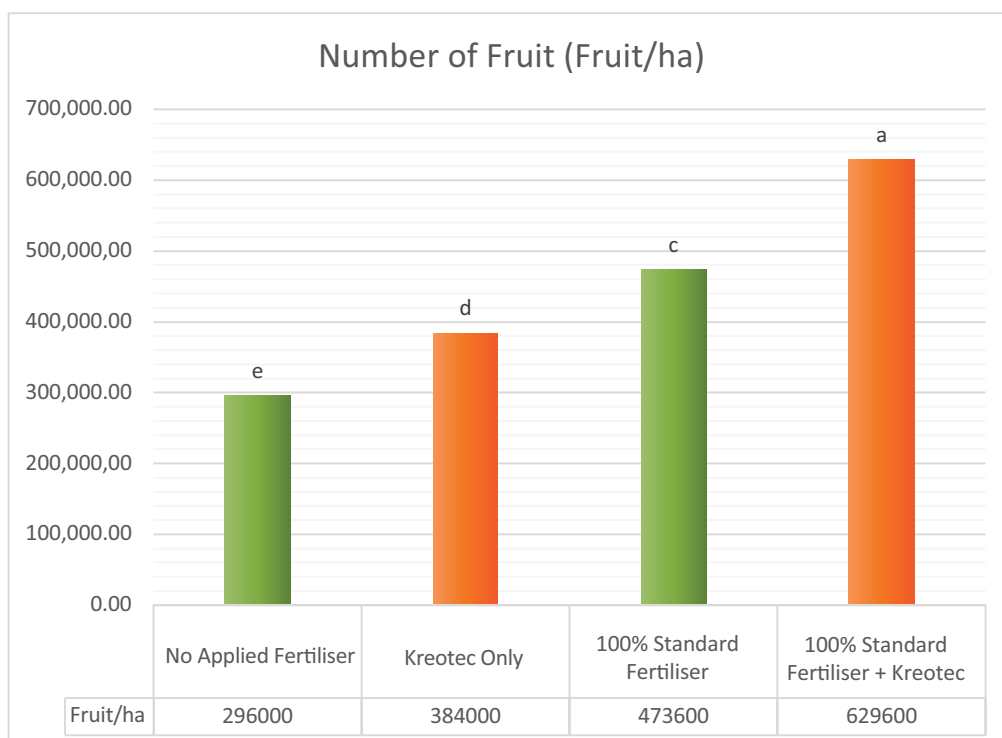


Figure 4: Number of Fruit per Hectare



KEY FINDINGS

- The addition of Kreotec to the standard fertiliser resulted in a 14% increase in root mass, 45 days post-transplant. The treatment of Kreotec only, produced a 14.5% increase root growth over the nil fertiliser. There was no significant difference in root growth between the Kreotec only treatment and the 100% standard fertiliser. These results indicate that Kreotec has a positive impact on root growth
- 30 days post-transplant, there was no significant difference in plant height between the Kreotec only, 100% standard fertiliser and 100% standard fertiliser + Kreotec treatments
- The addition of Kreotec to the 100% fertiliser treatment yielded an increase of 33% in the weight of marketable fruit. Adding Kreotec to the nil fertiliser treatment increased marketable fruit yield by 65%.
- The overall number of fruit produced per hectare when Kreotec was applied to the 100% fertiliser treatment was also 33%. When Kreotec was applied with no fertiliser the number of fruit produced increased by 30%

The Addition of Kreotec had an overall positive impact on yield.

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

Thinkbio would like to acknowledge the work undertaken by Central Luzon State University