



KREOTEC

Trial in Sugar Beet, Italy: Yield Increase

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STUDY DETAILS

Crop:	Sugar Beet
Country:	Italy
Year:	2020
Product(s):	Kreotec
Trial Type:	Non-Replicated side by side Comparison / Demonstration

TREATMENTS

Treatments:	100% Nitrogen Application Only (100kg /ha urea 46)
	100% Nitrogen Application (100kg/ha urea 46) + Kreotec

STUDY AIMS

To determine if the application of Kreotec in addition to the normal fertiliser program will lead to a yield increase in a sugarbeet production system

SPECIFICS

Specific Location:	40012 Calderara di Reno (Bologna) -Italy
Specific Trial Dates:	2020
Trial Manager:	Dr. Luigi Donini(farm technical consultant)
Distributor:	n/a
Irrigation:	no
Previous Crop:	Wheat
Pre-Sowing Fertiliser:	NPK 5-15-30 at 250kg/ha
Kreotec Application Date:	27th March 2020
Application Growth Stage:	4 leaf
Application Method:	Boom Spray
Kreotec Application Rate:	200g/ha
Water Rate:	300 l/ha
Crop Variety:	Fiammetta KWS

RESULTS

Harvest Date:	26th August 2020
Harvest Method:	Mechanical Harvester



Treatment	Root Yield	Saccharose
100% Fertiliser Only	42.5/ha	17.2%
100% Fertiliser & Kreotec	45.8/ha	17.5%

KEY FINDINGS

- When Kreotec was applied to a crop with 100% of its standard applied Nitrogen it increased root yield by 3.3t/ha over the untreated 100% fertilised crop
- At 21 DAT (days after treatment) the crop treated with Kreotec had a 30% increase in leaf area
- At 75 DAT the Kreotec treated crop had 15% greater leaf area and the crop appeared more uniform
- At 105 DAT the treated crop appeared more drought tolerant compared to the untreated

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

Thinkbio would like to acknowledge the work undertaken by Dr. Luigi Donini