

KREOTEC

Trial in corn, Spain: Reduced Nitrogen Application

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STUDY DETAILS

| | |
|--------------------|------------------|
| Crop: | Short Cycle Corn |
| Country: | Spain |
| Year: | 2018 |
| Product(s): | Kreotec |
| Trial Type: | Demonstration |



STUDY AIMS

Evaluate if Kreotec successfully replace 30% of the short season corn crops nitrogen requirements.

TREATMENTS

| | |
|--------------------|--|
| Treatments: | <p>Control: Basal: 250kg/ha Urea (NPK 46-0-0) = 115kg N/ha Top Dress: 250kg/ha Urea (NPK 46-0-0) = 115kg N/ha Total Applied N = 230kg/ha</p> |
| | <p>Kreotec: Basal: 250kg/ha Urea (NPK 46-0-0) = 115kg N/ha Top Dress: 100kg/ha Urea (NPK 46-0-0) = 46kg N/ha Total Applied N = 161kg/ha</p> <p style="text-align: right;">Total N Reduction = 30%</p> |

SPECIFICS

| | |
|----------------------------------|--------------------------------------|
| Specific Location: | Albacete |
| Specific Trial Dates: | 20 June 2018 – 2 December 2018 |
| Trial Manager: | Antonio José Bernabé García |
| Distributor: | Symborg |
| Irrigation: | Unspecified |
| Previous Crop: | Unspecified |
| Basal Fertiliser: | See Treatments |
| Kreotec Application Date: | 12 July 2018 |
| Application Growth Stage: | 18 BBCH |
| Application Method: | Sulfation |
| Kreotec Application Rate: | 450g/ha (2.2x10 ⁶ cfu/gr) |
| Water Rate: | 250-350 litres/ha |
| Crop Variety: | Guasi |
| Previous Treatments | Unspecified |

RESULTS

Harvest Details

| | |
|------------------------|-------------------|
| Harvest Date: | 2 December 2018 |
| Harvest Method: | Combine Harvester |

Figure 1: SPAD measurements

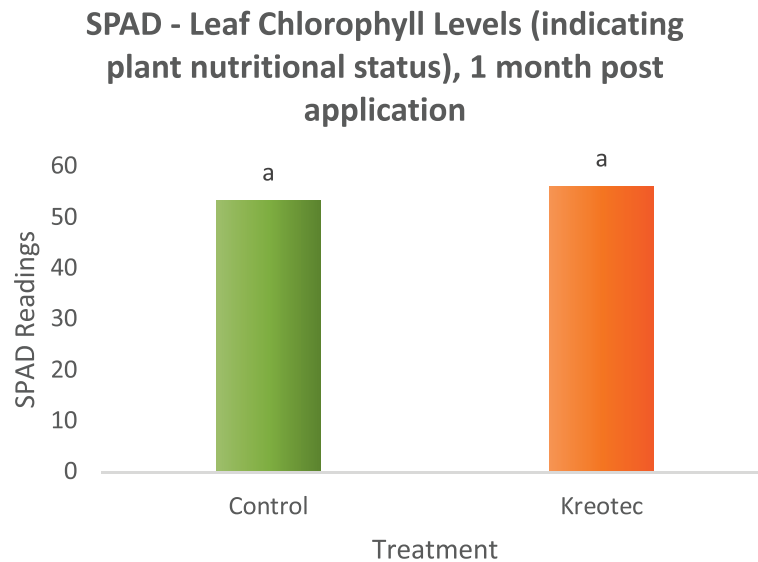
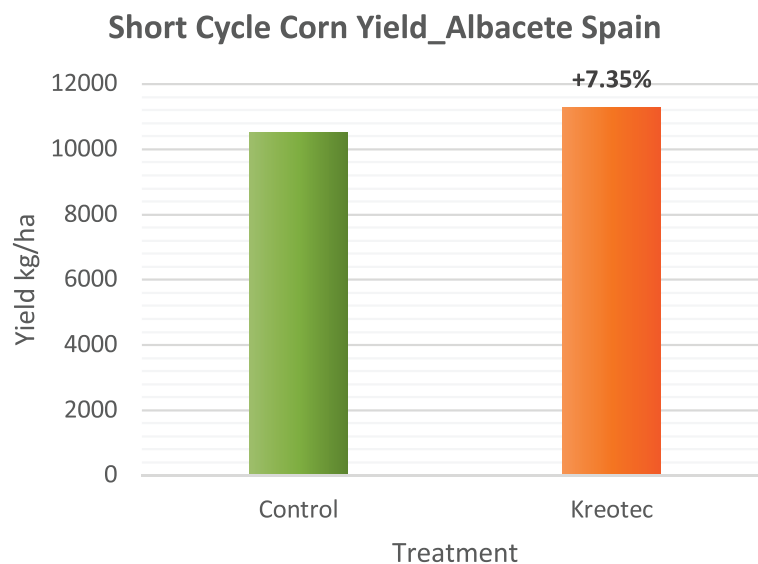


Figure 2: Yield



KEY FINDINGS

- Kreotec successfully inoculated the plant with the microbes which persisted throughout the growing period. Kreotec maintained a level of SPAD (Chlorophyll), plant health and plant canopy density equal to the control (conventional fertilization).
- A yield increase of 7% was experienced with the use of Kreotec in this trial, with a saving of 30% total applied nitrogen.

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

Thinkbio would like to acknowledge the work undertaken by Antonio José Bernabé García