



CROP: POTATO, VARIETY: ASTERIX

*Solanum tuberosum*

## BASIC INFORMATION

<b>TARGET</b>	Yield and quality improvement
<b>CROP</b>	Potato, Asterix variety
<b>RATE</b>	10 l/ha
<b>LOCATION</b>	Porto Alto • Portugal
<b>TRIAL DATE</b>	April 2013 - August 2013
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## APPLICATION & HARVEST

Applications of **TRANSFORMER** were made by solo pulverization using herbicide application bars to a 1 ha plot in the most problematic part of the field with poor drainage. A 5,3 ha plot was untreated for use as a control. The application rate was 10 l/ha **TRANSFORMER** in 320 l/ha of water. The field was irrigated after application. The trial was monitored as site visits were made once a month. The potatoes were harvested mechanically. A 1000 m<sup>2</sup> area in each of the treated plots and the untreated plot was harvested for the trial.

## OBSERVATIONS & EVALUATION

On the day of harvest, four randomly selected sections, 5 meter plots, in both the treated and untreated areas, were harvested for quality control. There were no significant frost or sunburn defects.

One of the main objectives was to prevent flooding. This was successfully achieved in spite of an exceptionally rainy year like this one, which recorded the highest rainfall in April and May for 38 years.

## RESULTS

The application of **TRANSFORMER** resulted in an increase in commercial production of 3633 kg/ha (9,9 % increase), which gave an increased income of €1090/ha when the ruling price at the time of harvest was €0.52/kg. This increase is very significant as the application of **TRANSFORMER** was made to the most problematic part of the field, while the untreated area was not as problematic. The improvement in water distribution as a result of the application of **TRANSFORMER** increased the number of potatoes with a diameter between 30 mm and 60 mm due to the homogeneity of tuber development and plant growth. Ultimately a better quality crop was produced.

## FIELD SITUATION

- Planting on 15 April 2013
- First application (10 l/ha) on 14 May 2013
- Harvest on 8 August 2013
- Soil has a loamy sand texture, localized drainage problems and occasional flooding
- The plant spacing is 30 cm by 90 cm

FIGURE 1

### Potato production

■ UNTREATED CONTROL ■ TRANSFORMER

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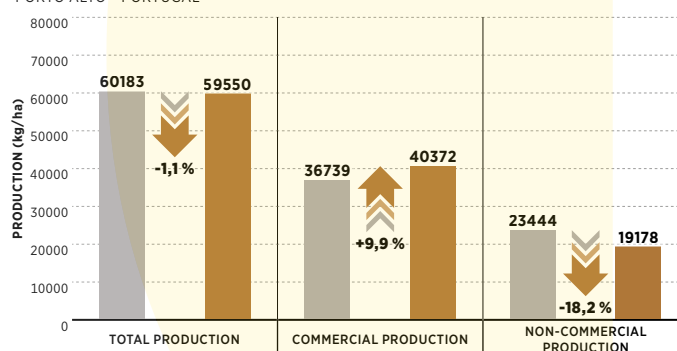


FIGURE 2

### Potato production per size class

■ UNTREATED CONTROL ■ TRANSFORMER

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