

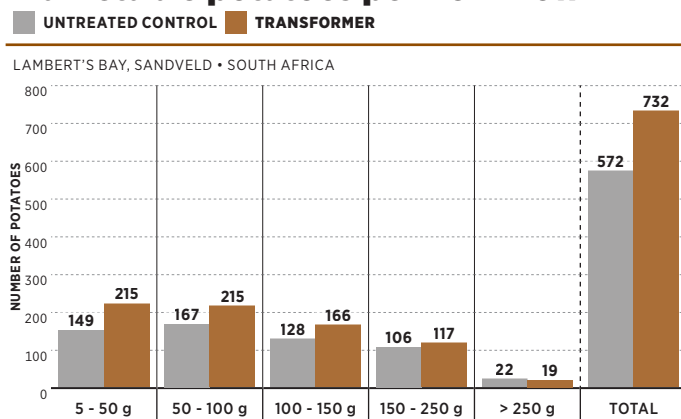
BASIC INFORMATION

TARGET	Yield and size distribution
CROP	Potato, Mondial cultivar
RATE	9 l/ha
LOCATION	Lambert's Bay, Sandveld • South Africa
TRIAL DATE	10 December - 8 March 2013
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SIZE CLASS	MASS RANGE IN GRAMS
Large	> 250
Large - medium	150 - 250
Medium	100 - 150
Small	50 - 100
Baby	5 - 50

FIGURE 1

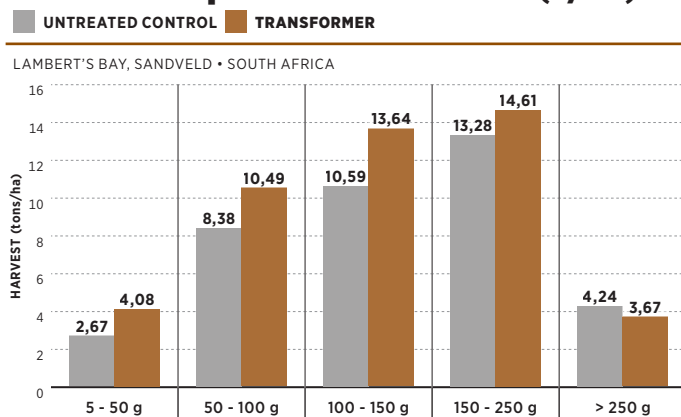
Marketable potatoes per 20 m row



- Substantial increases for large medium (150-250 g) and smaller size classes potatoes with application of **TRANSFORMER**.

FIGURE 2

Marketable potatoes harvested (T/ha)



Number of potatoes for the large-medium (150-250 g) and smaller classes was increased with application of **TRANSFORMER** due to more tuber initiation. Sand splits resulted in potatoes of larger sizes being discarded.

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CROP: POTATO, VARIETY: MONDIAL

Solanum tuberosum

FIELD SITUATION

Centre pivot irrigated field. Half the field was treated (6 ha) with **TRANSFORMER** at 9 l/ha through the irrigation system (21 November 2012). A wedge of the field (1 ha) was left untreated to serve as an Untreated Control.

Planting took place on 10 December 2012:

- 0,75 m between-row and 0,26 m in-row spacing
- 112 bags x 450 count seed potatoes

Sampling of the potatoes for Treated and UTC:

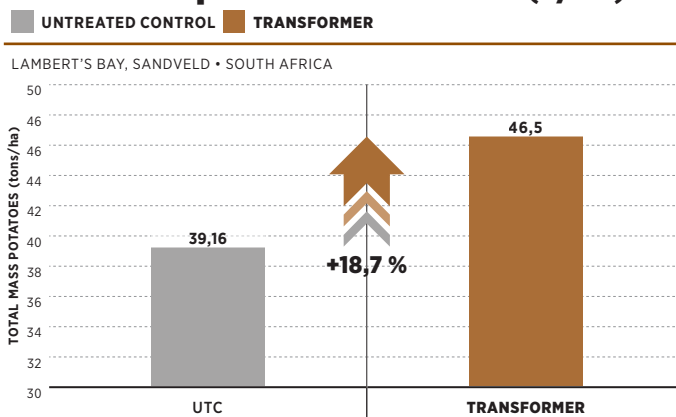
- 4 randomly selected rows of 5 m (total 20 m) for each Treated and each Control
- All sampling took place between the second and third wheel from outside of pivot, under the second nozzle – to keep the same water flow application for Treated and UTC
- Potatoes were harvested 4 April 2013

CONCLUSIONS

- Production of potatoes increased with application of **TRANSFORMER**. Especially the large-medium and smaller classes. Sand splits in both treatments resulted in loss of large potatoes.
- Number of tubers also increased compared to UTC for large-medium and smaller size classes. It should be emphasised that this was a sandy soil as these plant responses may be related to certain soil textures.

FIGURE 3

Total mass potatoes harvested (T/ha)



- The application of **TRANSFORMER** resulted in a 18,7% increase in marketable production compared to the UTC.