

Apple

Belgium - 2014



Aim of the trial

The aim of the trial is to measure the effect of a foliar fertilisation on the quality and the coloration of the fruits.

General information

In collaboration with:

PCFruit-proeftuin pit- en steenfruit (research centre for fruit) – Sint-Truiden - Belgium

Materials and methods:

Variety: Kanzi – Root stock: M 9

Plant year: 2009

Density: 3,5 x 1 m = 2571 trees/ha

Harvest dates: 17 September, 3 and 20 October 2014

Treatments

T0: Control

T1: MKP: 6 x 3 kg MKP : 14/5, 28/5, 19/6, 7/7, 22/7, 21/8

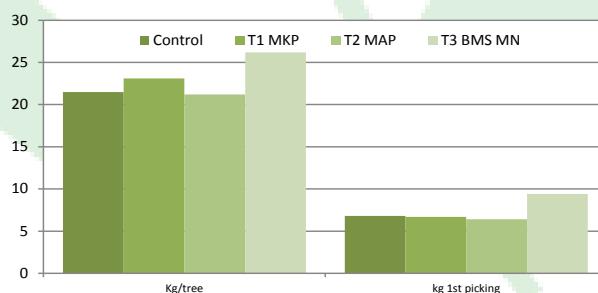
T2: MAP: 6 x 3 kg MAP : 14/5, 28/5, 19/6, 7/7, 22/7, 21/8

T3: BMS MN: 2 x (0,5 L Chelal Zn + 0,5 L Chelal Omnical): 7/7, 12/8
2 x (1,5 L Landamine Zn): 22/7, 21/8

Results

Production

	Kg/tree	Fruit weight (gr)	Amount of fruits	Kg on the first picking
T0: Control	21,5	173	124	6,8
T1: MKP	23,1	172	133	6,7
T2: MAP	21,2	162	131	6,4
T3: BMS MN	26,2	172	154	9,4



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Results

Fruit Quality

1st picking	Firmness	Sugar content (° Brix)	Starch value (1-10)
T0: Control	8,2	12,4	6,4
T1: MKP	8,1	12,5	6,9
T2: MAP	8,3	12,5	6,6
T3: BMS MN	8,4	12,3	6,7

2nd picking	Firmness	Sugar content (° Brix)	Starch value (1-10)
T0: Control	7,4	12,6	7,9
T1: MKP	7,3	12,4	8,0
T2: MAP	7,7	12,8	7,7
T3: BMS MN	7,7	12,5	7,2

Comments

Because of the difference in the production, it is very difficult to appreciate the effect on the colouring of the fruits. Generally higher production levels make the colouring of the fruits more difficult.

The foliar application of MKP is a general accepted practice to improve the colouring, but in this trials, it has not been clearly proven to be effective.

The BMS Micro-Nutrients treatment had an obvious higher production compared to as well the control as to the other treatments. This is an indication that this foliar program has a real positive effect on the colouring of the fruits, and it also confirms the results obtained in 2013.

CONTACT

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