

# Experimental dossier

## Maral NPK- Apple tree

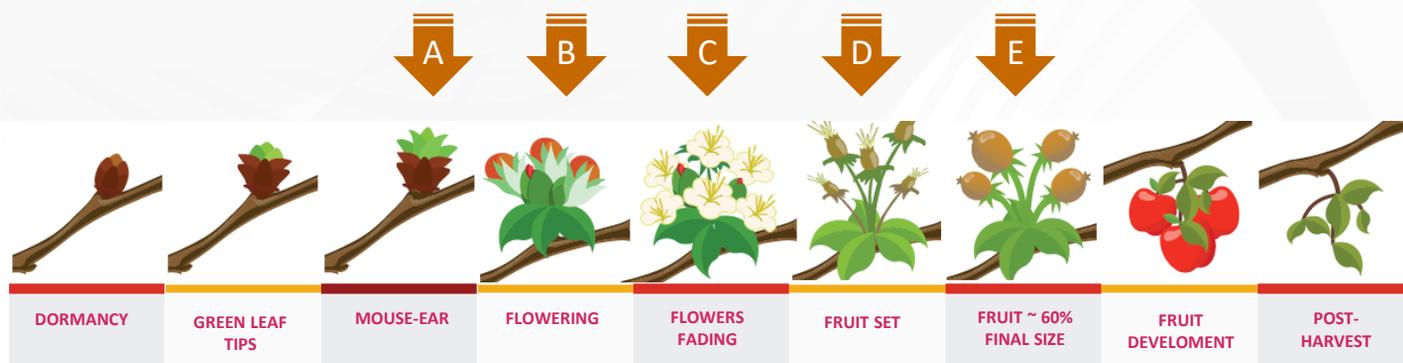


Objective: improvement of flowering and of production qualitative and quantitative parameters.

Trial data	
<b>Crop</b>	Apple tree (CV. Red Jonaprince/M.26)
<b>Research center</b>	InHort Research Institute Horticulture
<b>Farm</b>	Test field of InHort research institute
<b>Test location</b>	Lowicz-Polonia
<b>Notes</b>	Trial year 2019, apple tree of 11 years in conventional cultivation, with a 3.5 m x 1.5 m plant spacing (1904 plants per hectare) in irrigated soils, with pH of 6.5, in soil fairly rich in nutrients
<b>Reliefs</b>	Number of flowers, total yield, average weight of fruit and quality of productions

Thesis	Product	Active ingredients	Dose/ha	Application mode	Application period	Timing
T1	Maral NPK	<ul style="list-style-type: none"> <li>- N, 7,5 % (p/v)</li> <li>- P<sub>2</sub>O<sub>5</sub>, 6,2 % (p/v)</li> <li>- K<sub>2</sub>O, 6,2 % (p/v)</li> <li>- C 9,4 % (p/v)</li> <li>- Zn 1,25 % (p/v)</li> </ul>	2 l	Foliar	BBCH10 BBCH50 BBCH67 BBCH71 BBCH76	ABCDE
T2	Control	-----	-----	-----	-----	-----

Application: A Mouse-ear stage (BBCH10), B flowering (BBCH50), C flowers fading (BBCH67), D fruit set (BBCH71), E fruit development (BBCH76).

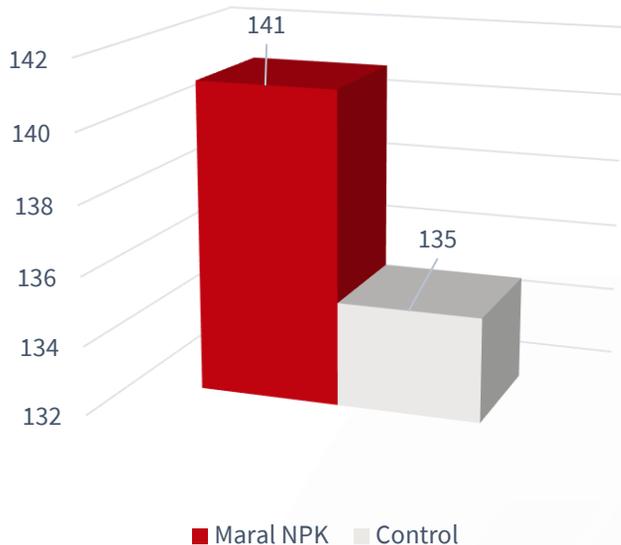


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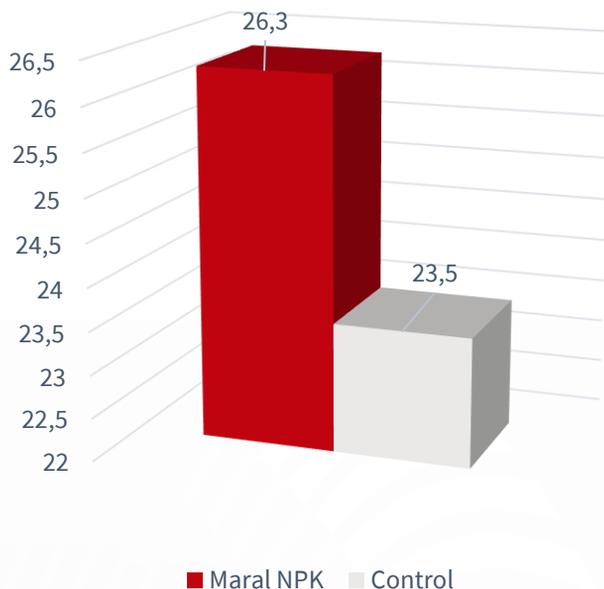
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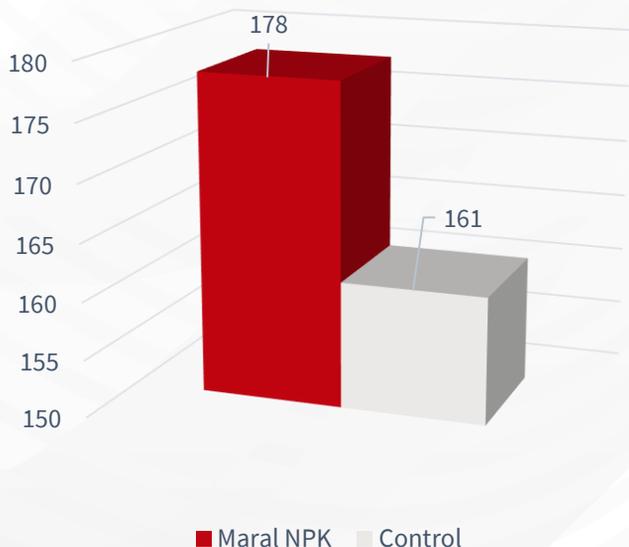
### Quantity of flowers per linear meter of branch



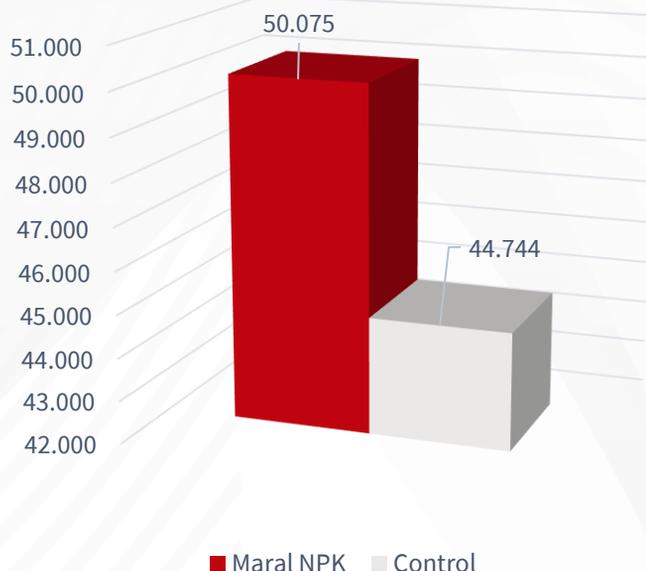
### Yield (kg)/plant



### Average weight (g) of the harvested fruits



### Total yield (kg)/ha

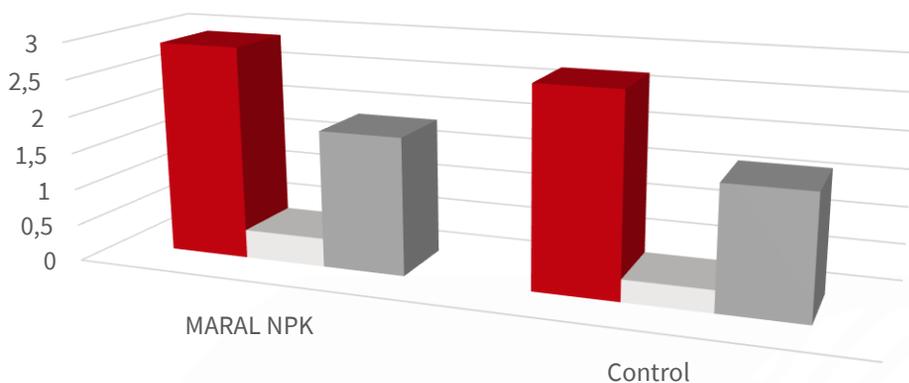


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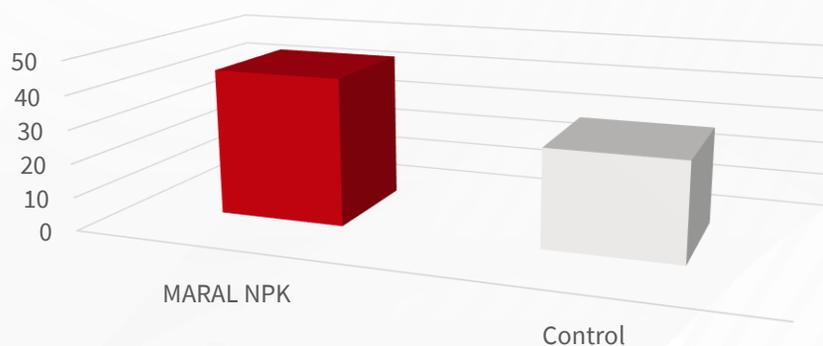


### Post-harvest foliar analysis (N, P, K)



	MARAL NPK	Control
■ N %	2,91	2,7
■ P %	0,39	0,3
■ K %	1,87	1,65

### Post-harvest foliar analysis (Zn)



	MARAL NPK	Control
Zn mg/kg	44	29

## Results

The use of Maral NPK in apple tree cultivation allows, from the earliest stages, to uniform the vegetative resumption and flowering. Furthermore, it allows a greater fruit setting and a better fruit development, increasing the production. The values of macro and microelements, detected by foliar analysis in post harvest, are also excellent, thanks to which the plant, in the following year, will undergo fewer phenomena of alternation of production.