



HazeInuts: ECOMETHOD

Objective of the trial

In the Italian province of Viterbo, the annual soil fertilization of the hazelnut orchards produces a strong eutrophication of the nearby Lake of Vico. The local government wants to counter this by examining alternative methods of fertilization. This report shows the results of 2 years of trials in which only foliar nutrition was used.

General information

Conditions of the trial:

Trial location: Italy – Lazio Density: 500 trees/ha, 5 m x 4 m Variety: Tonda Gentile Romana Soil type: Sandy loam, acid

In cooperation with: Università degli Studi della Tuscia
Harvesting date: Early September + Late September

Treatments

2 modalities (plots of 5000 m²): identical fertilization during the 2 years

⇒ T0: Control (only soil fertilization)

	Product	Quantity	Timing
1	20-10-10	600 kg/ha	End of March

⇒ T1: Applications of the BMS MN program (without soil fertilization)

	Product	Quantity	Timing
1	Карра М	5 kg/ha	End of April
2	Fructol NF	2.5 kg/ha	End of May
3	Fructol NF	2.5 kg/ha	Mid-June
4	Fructol NF	3 kg/ha	Early July



Results

Modality	Year	Hazelnut	Seed	Shell	Ø (mm)	Seed weight/
		weight (g)	weight (g)	weight (g)		hazelnut weight (%)
	2016	2,14	0,96	1,18	12,37	44,40
BMS MN	2017	2,39	1,10	1,29	14,32	45,63
	Mean	2,26	1,03	1,24	13,35	44,71
	2016	2,44	1,13	1,31	13,78	45,53
Control	2017	2,09	0,89	1,20	13,23	42,45
	Mean	2,27	1,01	1,25	13,50	43,99

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Trial reference: 2016-021 2017-021









⇒ **Conclusion**: With the BMS MN applications, a yield gain of **15**% was obtained each time for 2 consecutive years compared to the control.

Calculation of the carbon footprint of Ecomethod

Calculation for 1 ha and for 1 year.

Quantity CO₂eq. ECOMETHOD	Quantity CO ₂ eq. TRADITIONAL FERTILIZATION (CONTROL)
31,8 kg/ha	749,2 kg/ha



CO_2	717,4	The reduction of CO ₂ eq. expressed in kg/ha
%CO ₂	95,8%	The saving percentage of CO ₂ eq.