

SWEET CORN

Increased
production yield



PLACE

Test location:	COT, Cartago
Person in charge:	Ferba Internacional S.A.
Number of thesis:	3
Type of cultivation:	Open field
Technique of distribution:	Soil application
Period:	25/05/2021 - 11/09/2021
Variety:	Honey Moon
Tested products:	PROGRESS MICRO



OBJECTIVE

To compare the nutritional efficacy of Progress Micro on sweet corn, compared to an NPK mineral product widely used in Costa Rica.

CEREALS



RESULTS ACHIEVED

A trial field was carried out to evaluate the nutritional efficiency of Progress Micro compared to an untreated and a mineral product NPK 12-11-18 (+ 2.7% Mg, 8% S, 0.015% B, 0.2% Fe, 0.02% Mn, 0.02% Zn), widely used in Costa Rica. The comparison was made by halving the dosage of Progress Micro with respect to the mineral NPK product, in order to have a real confirmation on the best efficiency of release of macro- and micro-elements available to the crop.

The result confirmed the greater efficiency of Progress Micro also on sweet corn, in terms of both the vegetative development of the plants and the size of the individual cobs, resulting in a much higher yield both compared to the untreated and to the company thesis, despite the lower dosage and the lower contribution of units to the soil.

TEST PROTOCOL

	ILSA thesis	Company thesis	Untreated
01/06/2021	Progress Micro: 350 kg/ha	NPK 12-11-18 + 2,7% Mg + 8% S + Micro-elements: 700 kg/ha	/

Application one week after sowing (25/05/2021).

Sowing density: 38,000 plants/ha

The other treatments, fertilisation and plant protection, were similar for all thesis, as per company practice.



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BIO ILSA



RESULTS ACHIEVED

	ILSA thesis	Company thesis	Untreated
Average cob weight (g)	203.85	194.74	145.33
Total yield (kg/ha)	1,178.00	881.00	363.00
% Profit for farmer *	+ 50.7%	+ 42.7%	/

* The percentage of profit for the farmer was calculated in comparison with the untreated, considering a price per kg of sweet corn recorded on 5 July 2021 in the Pima Cenada bulletin, equal to 113.33 ¢ (Costa Rican Colón) = 0.16 €.

COMPANY THESIS



ILSA THESIS



UNTREATED



Detail of the three thesis in the field and the post-harvest weighing, which confirmed the clear production gap between the **ILSA** thesis and the other two.

CEREALS



Total yield (kg/ha)

