

Reduction of fertilization in Corn cultivation, 2022 Campaign

SUCCESS STORY



Background

In May 2022,  **ficosterra** starts a trial in Corn cultivation, variety DKC6729YG-FAO700 cycle, to achieve a reduction in fertilization compared to a control area treated with urea.

A productive area of 10ha is selected in the province of Lérida.

Rhizomare is a natural product, without chemical additives, rich in potassium derived from algae, which applies the MARE technology characterized by incorporating multiple microbial colonies into the crop, combined with an extract of algae from the Laminariaceae genus.

The bio-stimulants of MARE technology aim to increase soil biodiversity, reduce the presence of unwanted microorganisms, and improve the nutritional balance and fertility of the crop.

With these trials, Ficosterra aims to demonstrate the effectiveness of this new product in its probiotic range.



Pursued objectives:

1

Reduction of fertilization

2

Reduction of fertilization

3

Absence of nutritional stress

Description of the trial



Location: Lleida, Catalonia, Spain



Product consumption: 250g/ha // 2 foliar applications// 13 /06//2023



Planting date: May 2022



Treated hectares: 5 ha
Control hectares: 5 ha

Results obtained

Stages of development

Date	BBCH	Description
06/05/2022,	05	Germination of the corn seed
10/05/2022	09	Emergence: the coleoptile breaks through the soil surface
11/05/2022	10	The first leaf emerges through the coleoptile
17/05/2022	11	1st leaf fully unfolded
20/05/2022	12	2nd leaf fully unfolded
25/05/2022	13	3 leaves fully unfolded
02/06/2022	14-15	4-5 fully unfolded leaves
08/06/2022	15-16	5-6 fully unfolded leaves
13/06/2022	17 - 31	Beginning of stem elongation, first detectable node
27/06/2022	36 - 37	6-7 detectable nodes
01/07/2022	55	Half of the palm frond emergence
06/07/2022	♂ 61 ♀ 61-63	Beginning of flowering
11/07/2022	♂ 65 ♀ 64	Half of the flowering
13/07/2022	♂69/71 ♀ 67	End of flowering and beginning of fruit formation
22/07/2022	73	Early milky grain
01/08/2022	79	Almost all the grains have reached their final size
08/08/2022	83	Early dough stage cobripening
19/08/2022	8586	Cob maturity at the dough stage (silage maturity)
31/08/2022	87	Physiological maturity, appearance of the black point
07/09/2022	83-89	Full maturity
22/09/2022	97	Plant completely dead
14/10/2022	99	Harvest

Production results

grain ton/ha - 14%moisture



There are no significant production differences in the reduction of complex fertilizers + Rhizomare compared to the total dose and standard treatment. It is also observed that by adding the Rhizomare foliar product to the total dose of complex fertilizers, there is an increase in production of 0.8 tons per hectare.



Benefits of Rhizomare



Reduction of fertilization costs and carbon footprint by up to 30% without altering crop productivity



Improves crop efficiency by increasing nutrient availability 100%



ecological product, which does not harm the environment



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