

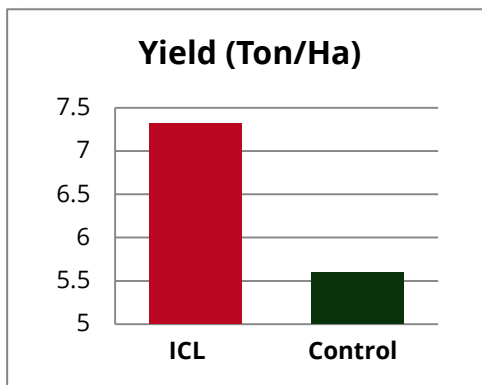
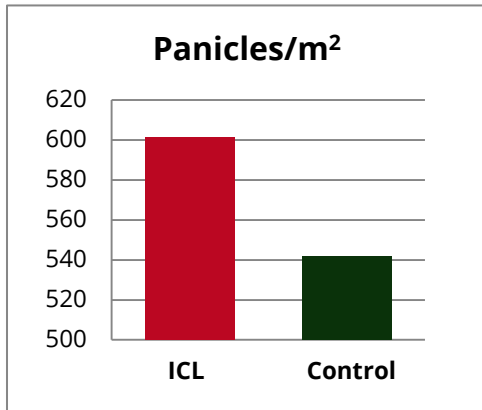
Trial Information

Agrocote® Max

RICE



Picture: CREA, Rice unit station, Italy



Agrocote Max is a controlled release fertilizer containing coated nutrients to satisfy the plants nutritional requirements. The result is strong, uniform plants, full of vitality, with the minimum of labour and time.

Agrocote Max contains E-Max Release technology, a polymer coating which improves nutrient use efficiency. The release of nutrients is based upon moisture and temperature, offering predictable longevities. Influenced by the temperature, the semi-permeable coating regulates the daily release of nutrients. At higher temperatures, the release of nutrients will be faster. At lower temperatures, it will be slower, in line with the nutritional needs of the plant.

ICL is keen to make a contribution to sustainable farming by enabling precision nutrition on a wide range of crops.

Trial set-up

Objective: Prove that using Agrocote Max + Urea as base fertilizer in rice will result in better yields compared to grower's practice, consisting of 3 split fertilizations.

When: Sowing, 6/5/2015
Harvest, 23/9/2015

Where: Vercelli - Italy

Crop: Rice, Onice variety

Soil type: Loam soil, 42.8% silt, 10% clay and 47.2% sand. pH: 6.36

Assessments: Panicles/m² and Total Yield



Conclusions

- By using ICL's Agrocote Max, the panicles/m² and subsequent yield increased significantly compared to grower's practice
- One basal application of ICL's Agrocote Max had better results than three split applications of traditional fertilizers
- The total yield increased with 30% by using Agrocote Max vs. grower's practice

Treatments

Treatment	Formula	Basal	Early tillering	Panicle initiation	Total per cycle
Grower´s practice	Urea	40 kg N/Ha	40 kg N/Ha	40 kg N/Ha	120 kg N/Ha
	Triple superphosphate	60 kg P ₂ O ₅ /Ha	-	-	60 kg P ₂ O ₅ /Ha
	Potassium chloride	60 kg K ₂ O/Ha	-	-	60 kg K ₂ O/Ha
ICL fertilizer plan	Agrocote 43-0-0 3-4 M	84 kg N/Ha	-	-	120 kg N/Ha
	Urea	36 kg N/Ha	-	-	
	Triple superphosphate	60 kg P ₂ O ₅ /Ha	-	-	60 kg P ₂ O ₅ /Ha
	Potassium chloride	60 kg K ₂ O/Ha	-	-	60 kg K ₂ O/Ha

Economic evaluation	Grower practice	ICL fertilizer plan	Increase with ICL treatment (%)
Rice Price (€/Ton)	380 €	380 €	
Total Yield (Ton/ha)	5,6 Ton/ha	7,32 Ton/ha	31%
Fertilizer cost (€/ha)	213 €/ha	282,6 €/ha	
Labour cost 2xTop dress fertilizer application (€/ha)	60 €/ha	0 €/ha	
Gross income (€/ha)	1.855 €/ha	2.499 €/ha	35%

Field plots after the first top dressing fertilization with urea

Why Agrocote Max performs better ?

- By applying controlled release fertilizers like Agrocote Max the nitrogen is supplied constantly through the entire crop cycle. As nutrients are supplied more efficient and at the right time, the yield results will be higher
- Decreasing the amount of fertilizations from 3 to 1 eliminate short periods of high nitrogen input. This results in a balanced nutrition and healthier plants, while avoiding unwanted and unnecessary vegetative growth

Attention

Recommendations in this trial info sheet are based on local soil and/or water analyses. Please contact your local ICL Specialty Fertilizers adviser for your personalized fertilizer recommendation. Consult www.icl-sf.com for your contact in the region.

Distributed by:

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