

Trial Information

Agrocote[®] Max

POTATO



Picture: Interra farm, Ittre



Agrocote Max 44-0-0 is a 100% coated urea using E-Max Release Technology. This polymer coating improves the nutrient efficiency. The release of nutrients is based upon temperature, offering predictable longevities, even under extreme conditions.

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 Specialty Fertilizers 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 by applying ICL controlled release fertilizers less nitrogen needs to be applied and/or higher yields can be harvested compared to grower's practice

When: Sowing, 5/4/2015
Harvest, 17/10/2015

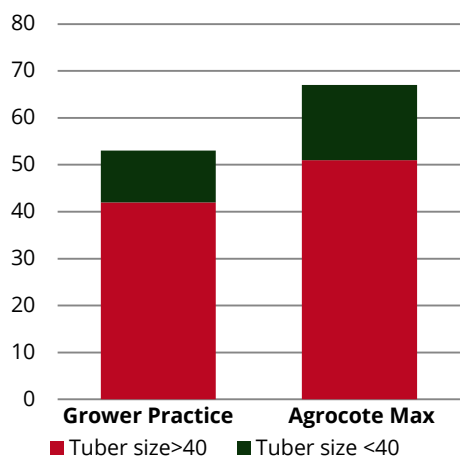
Where: Interra Farm Ittre, Belgium. On an area of 5 ha half of the plot was fertilized with Agrocote Max, other half with grower's practice.

Crop: Potato, Bintje variety

Soil type: Loam

Measurements: Yield and tuber size. Measurements Executed by Redebel

Yield (Ton/Ha)



Conclusions

- By applying Agrocote Max the yield increased by **26%** (vs grower's practice)
- The farmer income increased by **33%** after deducting the Nitrogen costs, compared to grower's practice

Treatments:

Treatment	Date	Formula	Quantity	N	P ₂ O ₅	K ₂ O	Application
Grower practice	10.4.15	Haspargit 0-4-16+16CaO+2MgO	2 Ton	-	80	320	Base
	10.4.15	Ammonium nitrate (liquid)	800 Kg	143	-	-	Base
	25.4.15	Ammonium nitrate (liquid)	400 Kg	72	-	-	Top
Agrocote Max	10.4.15	Haspargit 0-4-16+16CaO+2MgO	2 Ton	-	80	320	Base
	10.4.15	Agrocote Max 44-0-0, 2-3 M	490 Kg	215	-	-	Base

Economic evaluation	Grower practice	ICL fertilizer plan
Potato Price (€/ton)	105 €	105 €
Total Yield (ton/ha)	52 ton/ha	67 ton/ha
Nitrogen costs (€/ha) *	360 €/ha	425 €/ha €
Gross income (€/ha)	5.100 €/ha	6.610 €/ha



*The rest of the fertilizer costs were similar for both treatments

Why does Agrocote Max perform 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.
- By applying Agrocote Max at moderate levels during the early vegetative growth we see more initiation of tubers and an increase of the potential yield.
- With one single application of Agrocote Max the soil will suffer less from compaction. Fewer applications will also mean less fuel and labour costs.

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:

ICL Specialty Fertilizers

P.O. Box 40 - 4190 CA Geldermalsen
Koeweistraat 4 - 4181 CD Waardenburg
The Netherlands

