

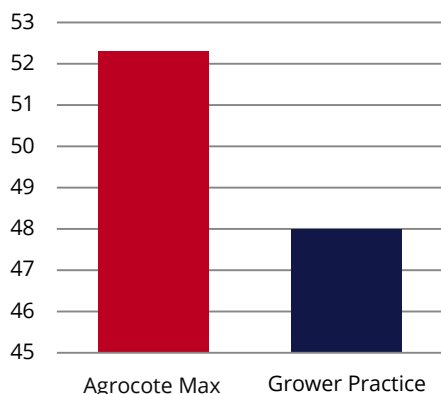
Trial Information

Agrocote[®] Max

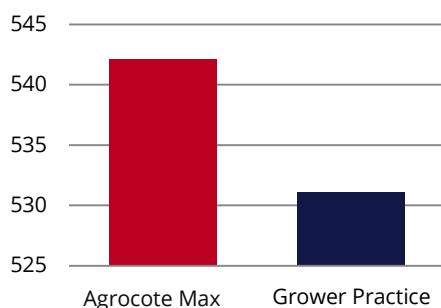
FRESH POTATO



Total yield, kg/ha



Total no. of tubers (x1000/ha)



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: To evaluate the effect of using Agrocote Max in comparison with conventional fertilizers, as grower practice

Trial station: The Netherlands

Crop: Fresh Potato, variety Fontane

Soil type: Sandy soil

Assessments: Total yield & no. of tubers
Total yield distribution by size

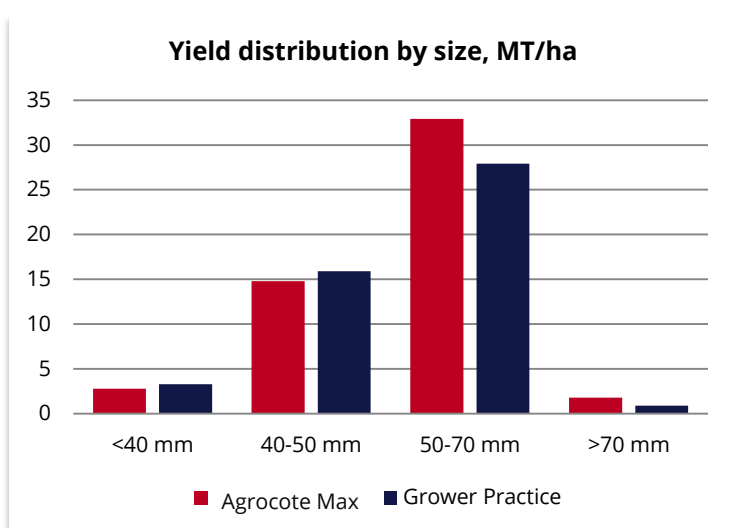
Conclusions

- By using Agrocote Max, the nitrogen losses reduced significantly, the number of tubers and the total yield increased up to 9%
- One application of Nitrogen provided by Agrocote Max gave better results than 3 applications of traditional Nitrogen based fertilizers
- With Agrocote Max, an extra income of 450 €/ha was achieved vs grower practice



Treatment	Product	Dosage, kg/ha	Fertilizers units, kg/ha		Timing
			N	K ₂ O	
Agrocote Max	Agrocote Max, 44-0-0 2-3M, 100% coated N	231 kg/ha	102		Base fertilizer
	Potassium Sulphate 0-0-50	306 kg/ha		153	
	Muriate of Potash 0-0-60	107 kg/ha		64.2	Top dressing
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Total fertilizers units, kg/ha			102	282	
Grower Practice	CAN 27-0-0+6CaO+4MgO	130 kg/ha	35		Before planting
	Potassium Sulphate 0-0-50	306 kg/ha		153	
	NPK 16-0-32	200 kg/ha	32	64	Top dressing
	NPK 16-0-32	200 kg/ha	32	64	Top dressing
Total fertilizers units, kg/ha			99	281	

Economic evaluation	Agrocote Max	Grower Practice
Net yield, MT/ha	48.9	44.9
Gross income, €/ha	5,868	5,388
Extra cost of ICL treatment (vs. grower practice), €/ha	30	
Extra income/ha (vs. grower practice), €/ha	450	



Why does Agrocote Max 44-0-0 perform better?

- By using Agrocote Max, controlled release fertilizer, the Nitrogen is released gradually, following the growth stages and contributing to higher quality.
- Controlled Release Fertilizers are reducing the Nitrogen losses by leaching, volatilization and denitrification, maintaining an optimum level of nutrients for plants to grow evenly.
- Decreasing the number of Nitrogen applications from 3 to 1, it eliminates short periods of high nitrogen input. Balanced nutrition and healthier plants are achieved while avoiding soil compaction.

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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