

Trial Information

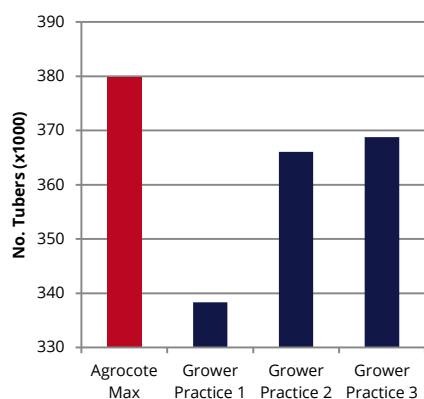
Agrocote[®] Max

SEED POTATO

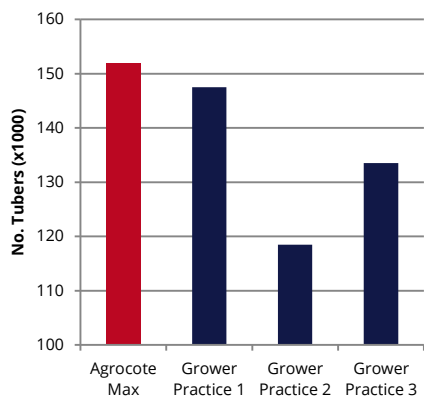


Picture: Proefcentrum Zwaagdijk, The Netherlands

Number of tubers (28-55 mm)



Number of tubers (55+ mm)



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 compare Agrocote Max vs different grower practice strategies

When: Planting, April 2015
Harvest, August 2015

Where: The Netherlands

Crop: Seed Potato, variety Spunta

Assessments: Number of commercial seed tubers.
Total yield

Conclusions

- By using Agrocote Max, the nitrogen losses reduced significantly, the number of tubers and the total yield increased up to 12%
- One application of Agrocote Max performed better than 2 applications of traditional fertilizers
- The total net income increased up to 14% by using Agrocote Max vs. different grower practices

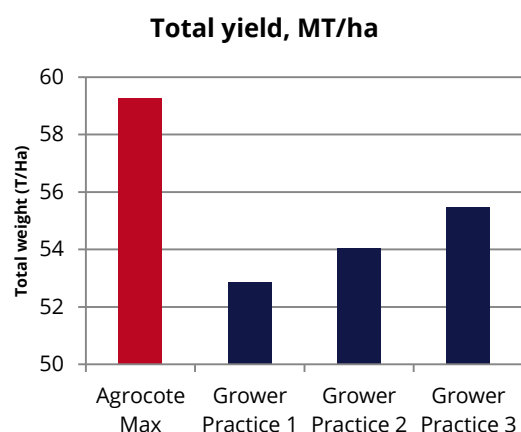


Treatments

Objects	Products	Dosage kg/ha	Fertilizers units, kg/ha			Stage
			N	P ₂ O ₅	K ₂ O	
Agrocote Max	Agrocote Max (44-0-0, longevity1-2M)	288				Before planting
	NPK + MgO (0-0-30+10MgO)	100	127	45	30	
	Triple Superphosphate (0-45-0+15CaO)	100				
Total units of nutrients, kg/ha =			127	45	30	
Grower Practice 1	CAN (27-0-0+4MgO+6CaO)	370				Before planting
	NPK + MgO (0-0-30+10MgO)	100	100	45	30	
	Triple Superphosphate (0-45-0+15CaO)	100				
	CAN (27-0-0+4MgO+6CaO)	100	27			Hilling
Total units of nutrients, kg/ha =			127	45	30	
Grower Practice 2	CAN (27-0-0+4MgO+6CaO)	314				Before planting
	NPK + MgO (0-0-30+10MgO)	100	95	33	30	
	Ammonium Polyphosphate (10-34-0)	70 lit				
	CAN (27-0-0+4MgO+6CaO)	100	27			Hilling
Total units of nutrients, kg/ha =			122	33	30	
Grower Practice 3	CAN (27-0-0+4MgO+6CaO)	370				Before planting
	NPK + MgO (0-0-30+10MgO)	100	100	68	30	
	Triple Superphosphate (0-45-0+15CaO)	152				
	CAN (27-0-0+4MgO+6CaO)	100	27			Hilling
Total units of nutrients, kg/ha =			127	68	30	

Economic evaluation

Objects	Fertilizers cost	Total income	Income minus fertilizers cost
Agrocote Max	450 €/ha	13,180 €/ha	12,730 €/ha
Grower Practice 1	295 €/ha	11,488 €/ha	11,193 €/ha
Grower Practice 2	265 €/ha	12,477 €/ha	12,212 €/ha
Grower Practice 3	324 €/ha	12,555 €/ha	12,231 €/ha



Why does Agrocote Max 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 2 to 1, it eliminates short periods of high nitrogen input. This results in a balanced nutrition and healthier plants, while avoiding also 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.

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