



AGROMASTER®

Trial results

Potato (*Solanum tuberosum*)



Key conclusions

Higher total yields and ROI – up by 8.8%
extra 4.9 mt/ha vs Grower Practice with Agromaster 100%
N rate, and extra 1.8 mt/ha with Agromaster 80% N rate.
Return on Investment increases with up to 343 €/ha (+7%)

Bigger caliber
+ 8% of caliber > 65mm and +12% of 30-55mm caliber

Higher NUE
Thanks to controlled release of nitrogen, Agromaster
provides higher nitrogen use efficiency with 80% N rate
(by 100% - extra 34 kg of potato for each kg of N applied)
and full N rate (by 163% - extra 45 kg of potato for each
kg of N applied)

N	33.5%
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P	0% P ₂ O ₅
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K	0% K ₂ O
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When

April 2023 -
September 2023



Where

France / Marne



Crop

Potato,
variety Agatha



Soil type

Sandy Limestone
Total N – 0.5 mg/kg
P – 56 mg/kg
K – 282 mg/kg
MgO – 126 mg/kg
CaO – 8748 mg/kg
pH – 8.2

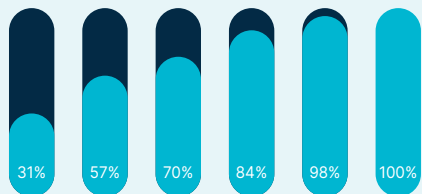


Measurements

Yield

Cumulative monthly release of N during crop cycle

Controlled release of nitrogen reduces losses by leaching, volatilization and denitrification thereby increasing its effectiveness to plants.



Apr 23 May 23 Jun 23 Jul 23 Aug 23 Sep 23



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Objective

To evaluate the performance of Agromaster with **eqo.x**[®] release technology (33.5-0-0, 2-3M, 60% coated N) in potato, in 2 different dose rates in comparison to grower practice

Trial set-up

Trial performed by ANTEDIS SAS

Randomized block design with 4 repetitions

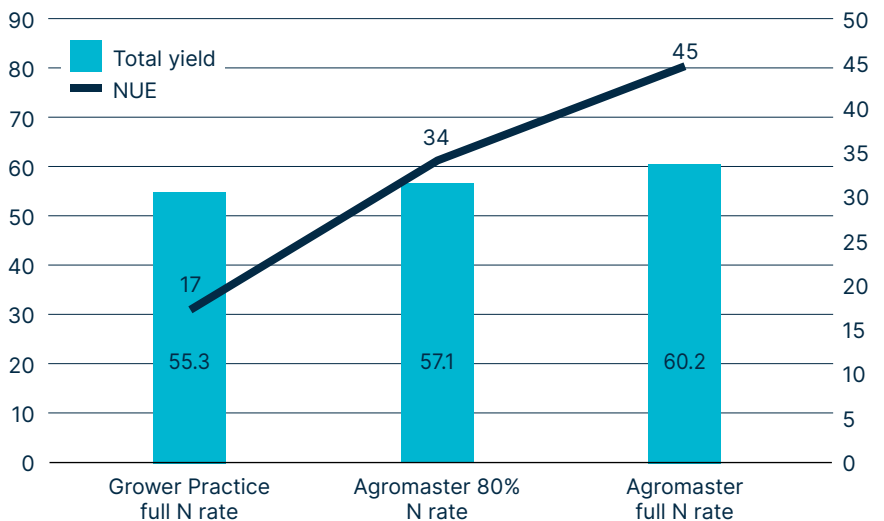
Treatments

Treatment	Product	Dose rate, kg/ha	Total N, kg/ha
Grower practice - full N rate	CAN 27	650	176
Agromaster full N rate	Agromaster 60% coated N	525	176
Agromaster 80% N rate	Agromaster 60% coated N	418	140

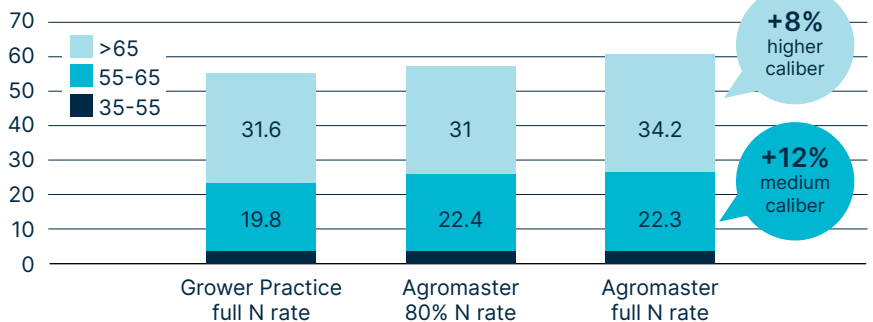
Results

Comparing to conventional fertilizers, by using Agromaster, higher yields can be achieved even with 20% reduced N rate.

Total yield and NUE



Yield by caliber



	Fertilizer cost €/ha	Turnover €/ha	Income €/ha	Increase %	ROI €
Grower Practice full N rate	355	5479	5123	-	-
Agromaster full N rate	505	5971	5466	7	343
Agromaster 80% N rate	439	5672	5233	2	109