



# Agromaster<sup>®</sup>

## Trial results

### Rice

*(Oryza sativa)*

#### Higher yields with the same level of N

Using Agromaster, statistically significant differences were registered in respect of yield - extra 15% at N rate/ha of 200 kg and 10% at 160 kg.

#### Similar yield with less N (-20%)

Furthermore, when using Agromaster, at reduced rate (-20% of N rate), there is no detrimental effect in respect of yield.

#### Higher Nitrogen Use Efficiency with only 1 application

Thanks to controlled release of nitrogen and with only 1 application, Agromaster provides higher nitrogen use efficiency (NUE) compared to 3 split applications of conventional urea, in both fertilization strategies at 200 units of N per ha and 160 respectively – extra 60% for the same kg of N applied.

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**N** 33%

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**P** 9% P<sub>2</sub>O<sub>5</sub>

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**K** 6% K<sub>2</sub>O

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### When

- Sowing: April
- Harvest: September



### Where

Delta of the Ebro River, Spain



### Crop

Rice (*var. J.Sendra*)



### Soil type

Clay loam  
pH = 7.8



### Measurements

- Yield
- NUE

## Objective

To assess Nitrogen Use Efficiency and to compare the effect on the final yield by using only one application of Agromaster, as controlled release nitrogen-based product, with split applications of conventional urea, both at 2 different N rates per ha.

## Trial station

Agricultura y Ensayo

Randomized block design with 4 repetitions

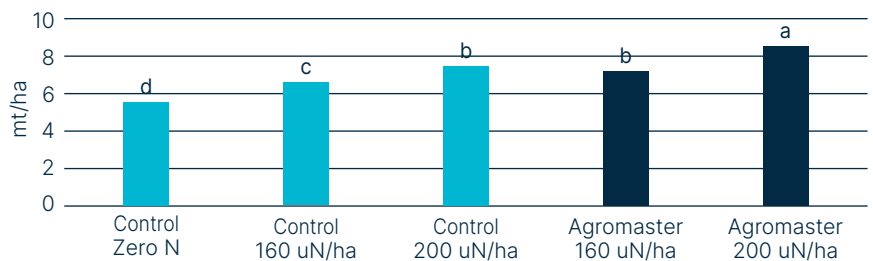
## Treatments

Treatment	Product	Dosage, kg/ha	Total -N, kg/ha	Phenological stage
Control 0 uN				
Control 200 uN	Urea, 46-0-0	145 145 145	200	Pre-seeding Tillering Panicle initiation
Control 160 uN	Urea, 46-0-0	115 116 116	160	Pre-seeding Tillering Panicle initiation
Agromaster 200 uN	Agromaster 33-9-6, 4-5M 70% coated N	606	200	Pre-seeding
Agromaster 160 uN	Agromaster 33-9-6 4-5M, 70% coated N	485	160	Pre-seeding

In all treatments P and K were equally applied, to match the same level as in Agromaster 200 uN, by using SSP and MOP.

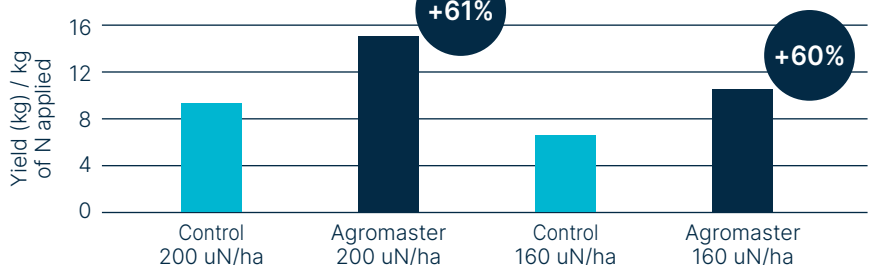
## Results

### Yield



Statistically significant differences at  $p=0.05$

### Nitrogen use efficiency



Nitrogen Use Efficiency, calculated as Agronomy Efficiency =  $(Y - Y_0) / F$   
 $Y$  = Yield of harvested portion of crop when the said nutrient is applied  
 $Y_0$  = Yield of harvested portion of crop when the said nutrient is not applied  
 $F$  = Application rate of said nutrient

## Master crop nutrition in any condition

No matter how challenging your growing conditions, you can count on Agromaster for top performance. It combines our advanced coating technology with specially selected conventional granules to give you optimum ease of use and outstanding results.



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