Polysulphate®

Trial

Soybean
(Glycine max)
on a sandy loam soil

Polysulphate fertilizer is a soluble, easily-absorbed, cost effective answer to crop nutrition, containing four key plant nutrients: sulphur, potassium, magnesium and calcium.

S	48% SO_3 (19.2% S)
K	14% K_2O (11.6% K)
Mg	6% MgO (3.6% Mg)
Ca	17% CaO (12.2% Ca)

ICL

Fertilizerplus®
Premium plant nutrition from ICL Fertilizers

When

2016/17

Where

Mercedes, Corrientes, Argentina

Crop

Soybean
(Glycine max)

Soil type

Sandy loam soil

Measurements

Yield

Objective

To compare, under field conditions, the agronomic and economic efficiency of fertilizer bulk blends that include Polysulphate with other current formulations.

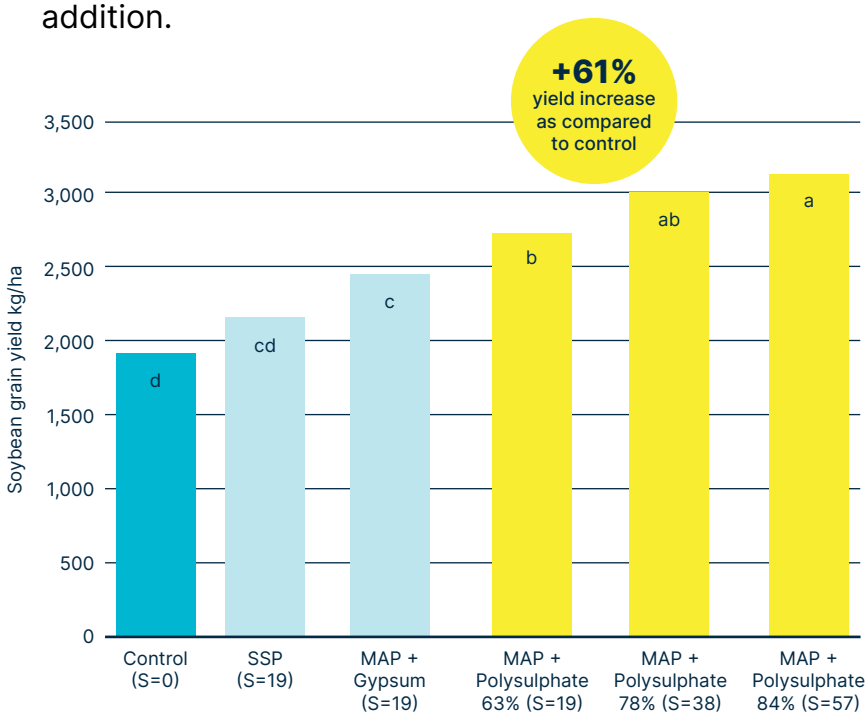
Treatments

The treatments were allocated in a randomized complete block design with four replications.

All treatments were based on different sources of S that were applied at sowing and with a single rate of P (30 kg P_2O_5 ha^{-1}), in addition to other fertilizer combinations, including a control with no sulphur. Gypsum and single super phosphate (SSP) treatments were included, since they were the common sources of S with comparable rates of S to Polysulphate.

Results

- Soybean responded significantly to sulphur application.
- There were statistical differences between the Polysulphate and other sources of sulphur. Additionally, the soybean responded to increasing rates of Polysulphate as a result of a growing nutrient addition.



** Different letters above bars indicate significant differences among treatments ($p<0.05$)*
** From research funded by the International Potash Institute www.ipipotash.org.*

Mined in the UK, ICL is the first – and only – producer in the world to mine polyhalite, marketed as Polysulphate.

Polysulphate

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