

Polysulphate 

Trial



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)

Soybean (*Glycine max*) on a clay oxisol soil

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



When

- Planting: November 2018
- Harvested: March 2019



Where

Cruz Alta, Rio Grande do Sul state, Brazil



Crop

Soybean (*Glycine max*)



Soil type

Clay oxisol



Measurements

Yield



Objective

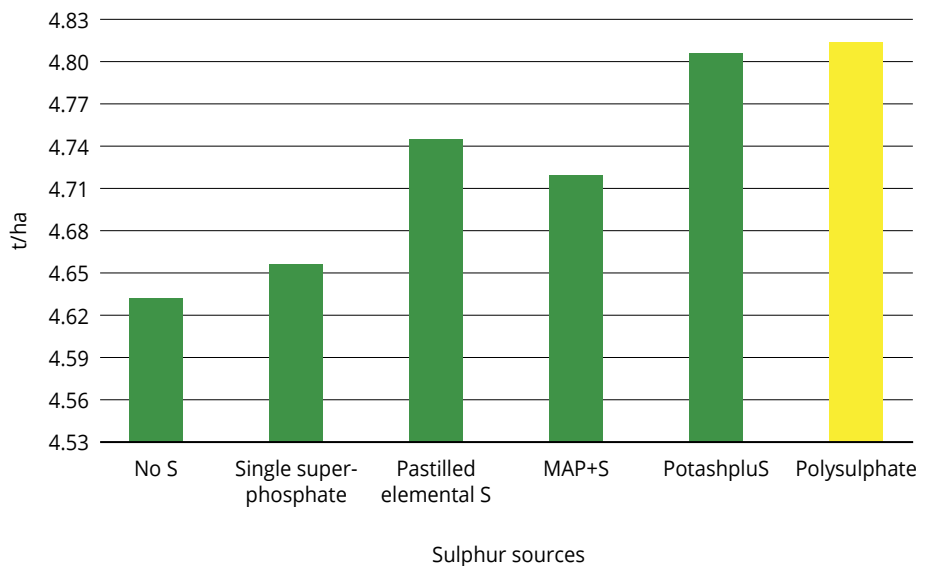
To evaluate the agronomic efficiency of Polysulphate and PotashpluS as a sulphur source on the yield of soybean.

Treatments

This randomized block trial consisted of six treatments with four replications. Treatments were combinations of MAP, MOP, Polysulphate, PotashpluS, single superphosphate, pastilled elemental S and one commercial blend with MAP and sulphur in two forms, sulphate and elemental. All treatments were fertilized with 80 kg/ha P_2O_5 , 80 kg/ha K_2O and 20 kg/ha S, except the control treatment where S was not applied. The MAP, single superphosphate, MAP+S, Polysulphate and pastilled elemental S were applied in the furrow; MOP and PotashpluS were applied broadcast and pre-planting.

Results

- Polysulphate in the furrow and PotashpluS in broadcast were highly viable sources of sulphur for soybean fertilization.
- Soybean yield increased over 3.9% in comparison to the fertilization without sulphur.
- In comparison with other sulphur sources, ICL products increased soybean yield by 1.5 to 3.5%.



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

For more information consult www.polysulphate.com/contact for your contact in your region.

www.polysulphate.com

Polysulphate is a registered trademark of ICL.

Polysulphate

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