Polysulphate

Trial

Tomato
(Solanum lycopersicum)
on a fluvisol

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

- Transplanting: April 2016
- Harvest: July 2016

Where

Zhoukou, Henan province, China

Crop

Tomato
(Solanum lycopersicum)
variety NO.4 Zhengfen

Soil type

Fluvisol
(fluvo-aquic soil)

Measurements

- Yield
- Number of fruits per plant
- Fruit weight

Objective

To evaluate the addition of Polysulphate and sulphate of potash (SOP) to the farmers' practice on the yield and yield parameters of tomato crop grown in Henan Province, China.

Treatments

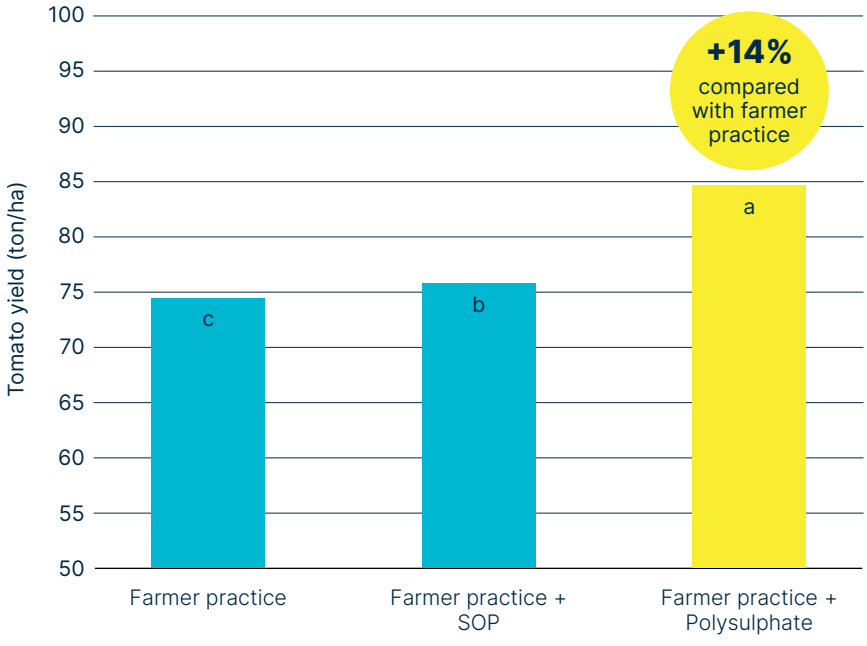
This randomized complete block trial consisted of three replicates with three treatments:

1. Farmer practice
2. Farmer practice + 750 kg/ha of SOP
3. Farmer practice + 750 kg/ha of Polysulphate

Farmer practice consisted of applying 7.5 ton/ha organic fertilizer as base-fertilizer. In addition, there were 4 topdressings of 240 kg/ha of urea during the whole growth period.

Results

- Polysulphate application led to an increase in the number of fruits per plant, and an increase in fruit weight.
- Compared with SOP application, the average yield in the treatment with Polysulphate increased by 8.84 ton/ha (yield increase of 11.6%).
- Polysulphate application significantly increased yields as compared with farmer practice: the average yield when treated with Polysulphate increased by 14%.



Different letters above bars indicate significant differences among treatments (P <0.05)

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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