Polysulphate® Trial

Broccoli
(Brassica oleracea var. italica) 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

Where

France, Kervignac

Crop

Broccoli
(Brassica oleracea var. italica)

Soil type

Sandy loam soil

Measurements

- Yield
- Nutrients content in the head

Objective

To investigate the effect of the application of single and split applications of Polysulphate on the yield of broccoli.

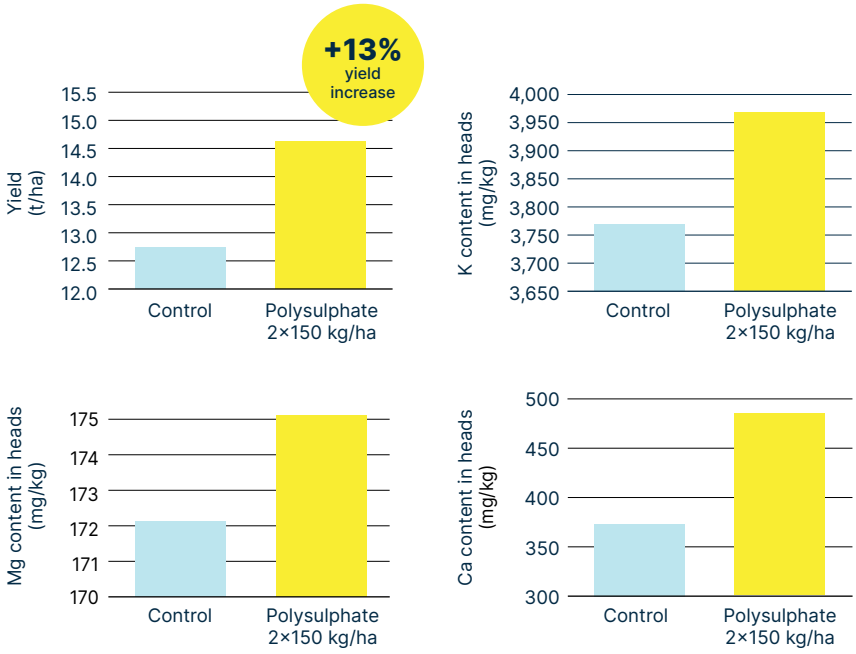
Treatments

This field trial consisted of three treatments in four replicates:

- Farmer's fertilizer practice (control)
- Polysulphate applied 15 days after planting at a rate of 150 kg/ha.
- Polysulphate applied 15 and 40 days after planting (split application) at a rate of 150 kg/ha each (total 300 kg/ha).

Results

- The split Polysulphate application (2 × 150 kg/ha) resulted in the best response. The single application had no effect on the crop.
- The yield of the split Polysulphate treatment improved by 13% over the control, this means 1.75 mt/ha yield increase based on 25,000 plants/ha.
- The average head size increased from 534 g in the control to 604 g with the two Polysulphate applications.
- Potassium, magnesium and calcium content in the heads with the split Polysulphate application increased by 5%, 1.7% and 23% respectively compared to the control.



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

Polysulphate

fertilizers.sales@icl-group.com
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