

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)

Rocket salad (*Eruca sativa*) on a silt-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



When

- Sown: October, 2016
- Harvest: October, 2017



Where

Campania, Italy



Crop

Rocket salad (*Eruca sativa*)



Soil type

Silt-loam soil



Measurements

- Fresh yield
- Dry matter yield



Objective

To investigate the effect of Polysulphate on the yield of greenhouse grown rocket salad.

Treatments

This trial consisted of three treatments with four replicates in a randomized complete block design. The treatments were: (1) Farmers' practice: 1,500 kg/ha of organic fertilizer + 350 kg/ha of 14-7-17 NPK fertilizer. (2) 1,500 kg/ha of organic fertilizer + 300 kg/ha of Agromaster 11-48 + 600 kg/ha of Polysulphate. (3) 1,500 kg/ha of organic fertilizer + 400 kg/ha of Agromaster 15-24-10 + 600 kg/ha of Polysulphate (Agromaster is ICL's controlled release fertilizer). All fertilizers were applied before sowing. The crop was harvested on 8 successive dates.

Results

- The cumulative yields in the Polysulphate treatments were significantly higher than the farmers' practice (+ 1.58 and + 2.85 t/ha respectively). The differences were evident right from the 1st harvest.
- From the 3rd harvest onwards, the treatments with Polysulphate produced higher dry matter yield per hectare. This parameter is essential to increase the shelf life of the rocket salad after harvesting.
- The return on investment (ROI) was higher in both Polysulphate treatments when compared with the farmers' practice: 1,630 €/ha for the Polysulphate treatment (1) and 3,390 €/ha for Polysulphate treatment (2).

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

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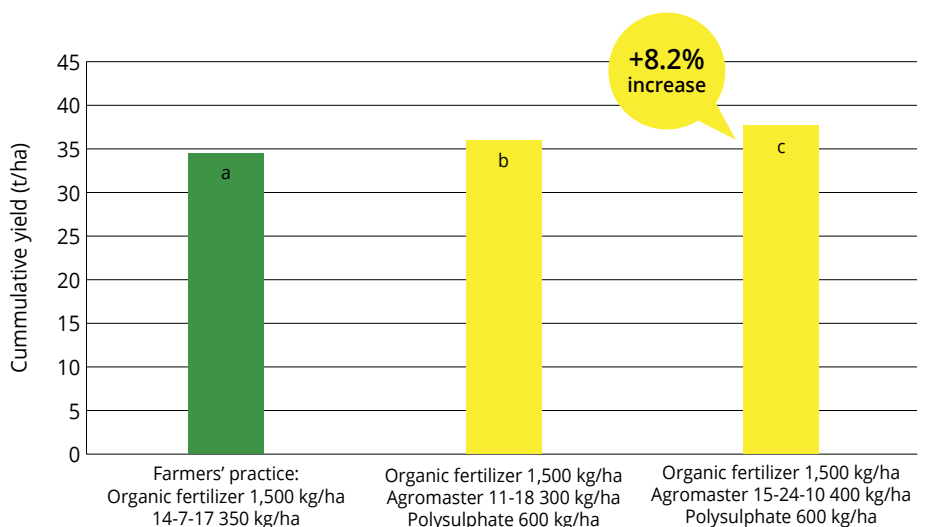
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*Different letters within columns indicate statistically significant differences

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