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)

Potato *(Solanum tuberosum)* on a clay soil

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

ICL Fertilizers

Polysulphate

When

- Planting: April 2019
- Harvest: October 2019

Where

Kozani, Greece

Crop

Potato *(Solanum tuberosum)*
cv. Spunta

Soil type

Clay soil

Measurements

Yield

Objective

This trial in Northern Greece compared the yield of potatoes grown with an improved ICL fertilizer package, which included Polysulphate, to potatoes grown using the standard local farmers' practice.

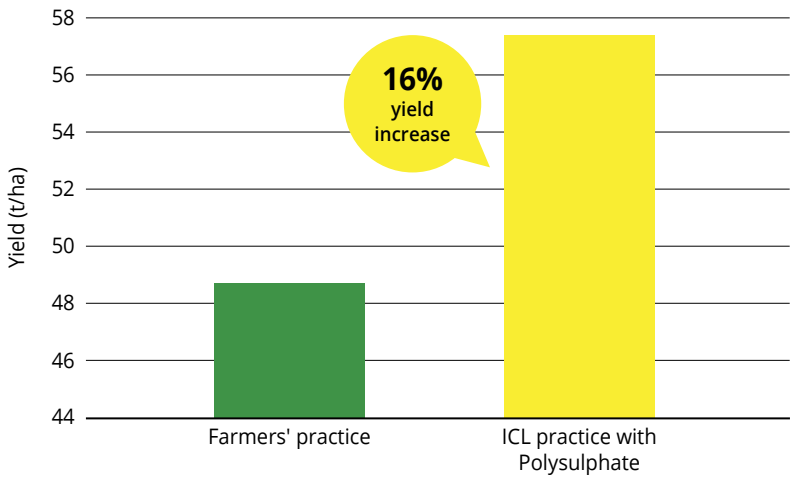
Treatments

The farmers' practice consisted of a basal application of 1,100 kg/ha of compound fertilizer 14-14-14+26SO_3+ 2MgO; a top dressing of 300 kg/ha of potassium-magnesium sulphate (0-0-30+42SO_3+10MgO) and 200 kg/ha of 40-0-0+14SO_3; 80 kg/ha of 20-19-19 and 80 kg/ha of 12-6-36+TE applied through fertigation; and 2.5 kg/ha of 3-27-18+seaweed applied as a foliar sprayed. In total 259.6 kg N/ha, 174 kg P_2O_5/ha, 288 kg K_2O/ha, 440 kg SO_3/ha and 52 kg MgO/ha were applied to the crop.

The improved ICL practice included the same basal fertilization; a top dressing of 500 kg/ha of Polysulphate and 200 kg/ha of 40-0-0+14SO_3; and 100 kg/ha of ICL "Solinure" 11-35-11+2MgO+TE and 250 kg/ha of ICL "NovaNPK" 10-10-40+TE applied through fertigation. In total 270 kg N/ha, 214 kg P_2O_5/ha, 335 kg K_2O/ha, 554 kg SO_3/ha, 54 kg MgO/ha and 85 kg CaO/ha were applied to the crop.

Results

- The improved Polysulphate practice increased potato yield by 16%.
- Net income for the potato grower using the improved practice increased by 15% when compared to the standard practice.



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

fertilizers.sales@icl-group.com
Twitter.com/fertilizerpluS
YouTube.com/c/Polysulphate-Fertilizer
Facebook.com/Polysulphate

Fertilizerplus
Premium plant nutrition from ICL Fertilizers