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)

Vining peas (*Pisum sativum* cv. Amalfi)

Polysulphate fertiliser 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

2018

Where

Lincolnshire, UK

Crop

Peas (*Pisum sativum* cv. Amalfi)

Soil type

Light to medium deep silt

Measurements

- NDVI
- Yield

Objective

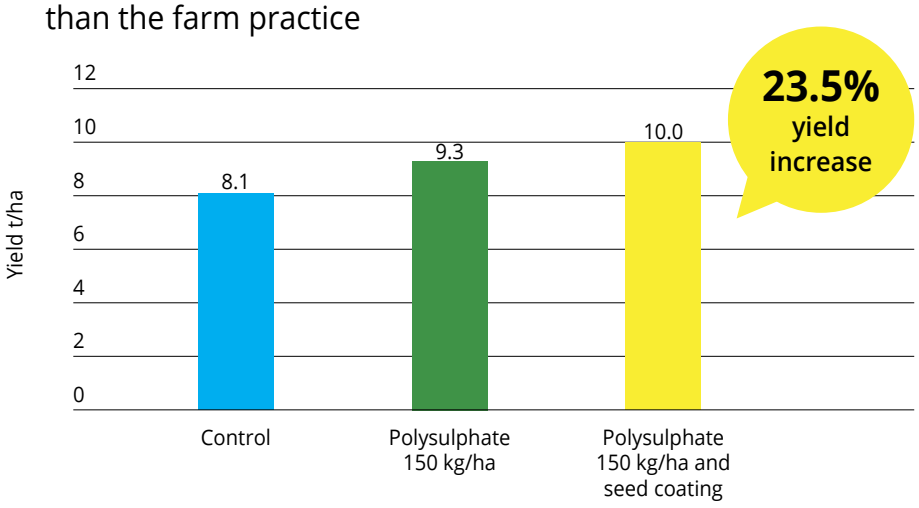
To investigate the effect of application of Polysulphate on vining peas. Specifically, to increase the yield and to see if seed rates are higher would this improve overall yield. The phased release of sulphate from Polysulphate should help with the formation of nitrogen fixing nodules in the roots of the pea crop.

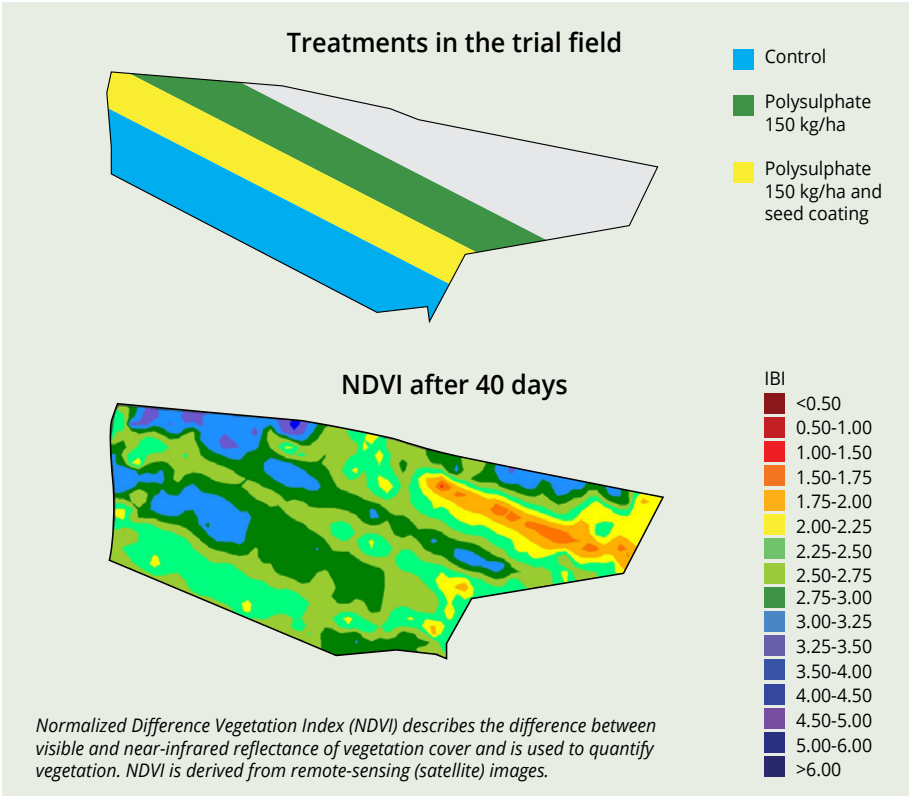
Treatments

- This trial was a split field trial
- Polysulphate was applied at a rate of 150 kg/ha at drilling

Results

- The average yield for the field was 8 t/ha when all areas were averaged. Polysulphate increased the yield by 1.2 t/ha over the standard farm practice and when the seed coating is added the yield improved to 1.9 t/ha over the control
- The satellite images had higher NDVI (green and blue colors) in the Polysulphate strips, thus showing denser vegetation than the farm practice





Normalized Difference Vegetation Index (NDVI) describes the difference between visible and near-infrared reflectance of vegetation cover and is used to quantify vegetation. NDVI is derived from remote-sensing (satellite) images.

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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