



ICLPotashplus<sup>®</sup>  
Trial

**Potatoes**  
(*Solanum tuberosum*)  
on a 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** 23% SO<sub>3</sub>  
(9.2% S)

**K** 37% K<sub>2</sub>O  
(30.7% K)

**Mg** 2.8% MgO  
(1.7% Mg)

**Ca** 8% CaO  
(5.7% Ca)



When

2017



Where

North Yorkshire, UK



Crop

Potatoes  
(*Solanum tuberosum*)



Soil type

Loam



Measurements

Yield  
Tuber dry matter  
(% DM)

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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## Objective

To investigate how ICL PotashpluS compares to muriate of potash (KCl, MOP) as a source of potassium for processing potatoes.

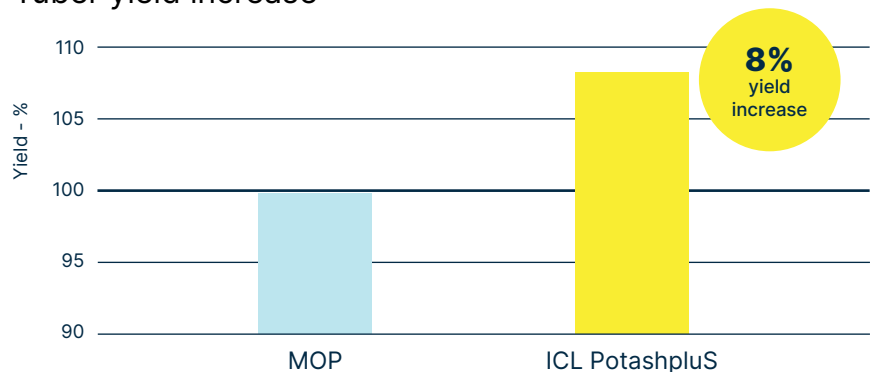
## Treatments

- This was a split field trial.
- ICL PotashpluS and MOP were applied to provide the same application rate of potassium: 340 kg K<sub>2</sub>O/ha.
- Both fertilizers were broadcast and incorporated prior to planting.

## Results

- ICL PotashpluS gave an 8% increase in yield over the MOP. This is attributed to the soluble magnesium, sulphur and calcium supplied by ICL PotashpluS, even when the soil was not magnesium deficient.
- The tuber dry matter was higher in the ICL PotashpluS treatment (20.6%) than where MOP was applied (19.8%). Dry matter is a valuable benefit for processing potatoes.
- The ICL PotashpluS tubers were judged to be more consistent in size, showing less variation.

### Tuber yield increase



### Tuber dry matter

