



Polysulphate  
Trial

**Winter wheat**  
(*Triticum aestivum*)  
on a sandy clay 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<sub>3</sub>  
(19.2% S)

**K** 14% K<sub>2</sub>O  
(11.6% K)

**Mg** 6% MgO  
(3.6% Mg)

**Ca** 17% CaO  
(12.2% Ca)



When

2018



Where

UK



Crop

Winter wheat  
(*Triticum aestivum*)



Soil type

Sandy clay loam



Measurements

Yield

## Objective

To investigate the effect of Polysulphate fertilizer as an autumn application to winter wheat. Specifically, to increase yield through crop establishment.

With UK soils being low or critical for sulphur deposits and plants needing S to take up nitrogen, this experiment is designed to test whether Polysulphate improves residual nitrogen uptake by the plant and improves establishment of the crop.

## Treatments

The base fertilizer (0-20-30) was applied at 250 kg/ha. The field was split down the middle.

250 kg/ha 0-20-30 base fertilizer  
100 kg/ha Polysulphate

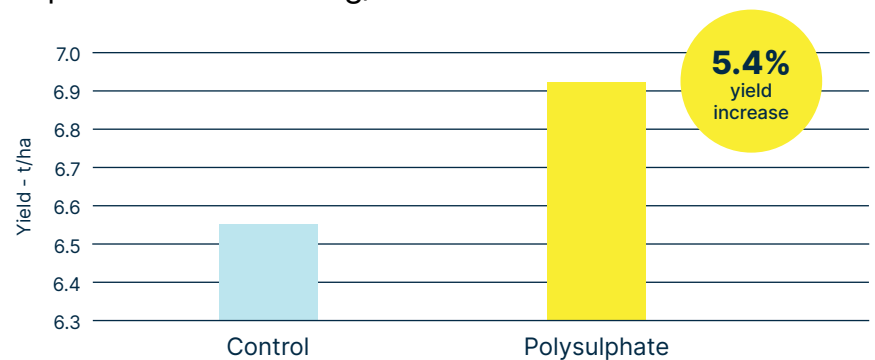
Field A - 1.92 ha

250 kg/ha 0-20-30 base  
fertilizer

Field B - 1.92 ha

## Results

Below you can see the difference in yield between the control and the area treated with Polysulphate, a yield improvement of 354 kg/ha.



## Conclusion

In this trial we found that Polysulphate improved the overall yield by 354 kg/ha. The average price for grain was £170/t (according to the farmer), which means that Polysulphate fertilizer improved the return for the farm by £60.18/ha.

When we remove the costs of the 100 kg of fertilizer (£16) per hectare, the return on investment in this trial is £44.18/ha.

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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