



Polysulphate[®]

Trial

Organic oats (*Avena sativa*) on 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.

S	48% SO ₃ (19.2% S)
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K	14% K ₂ O (11.6% K)
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Mg	6% MgO (3.6% Mg)
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Ca	17% CaO (12.2% Ca)
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When

Application: April 2021
Harvest: August 2021



Where

Sandby Gård, Sweden
Research Institute:
Hushållningssällskapet



Crop

Oats (*Avena sativa*),
Symphony variety



Soil type

Clay



Measurements

- Yield
- Protein content
- 1,000 grain weight

Objective

To evaluate the effect of Polysulphate fertilizer on the yield and quality of organically produced oats grown on a clay soil in Sweden.

Treatments

The trial consisted of three treatments and four repetitions.

Treatment 1 received no fertilizer; Treatment 2 received 5,427 kg/ha chicken manure; and Treatment 3 is the same as Treatment 2 with the addition of 100 kg/ha Polysulphate.



Results

- Application of Polysulphate in addition to chicken manure resulted in an increase in yield of 21% compared to the zero treatment (T1)
- Application of Polysulphate in addition to chicken manure resulted in an increase in protein content in grains, and 30% higher protein yield than the zero treatment (T1)
- The 1,000 grain weight in T3 (Polysulphate + chicken manure) was slightly higher (increase of 2%) than the zero treatment (T1)

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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