



Polysulphate[®]

Trial

Strawberry

(*Fragaria X ananassa* Duch.)
on an Andisol

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

Planting:
September 2017
Harvest:
April 2018-March 2019



Where

Sotara, Cauca State,
Colombia



Crop

Strawberry (*Fragaria*
X ananassa Duch.,
cv *Sabrina*)



Soil type

Andisol, Silt loam
with acidic pH (5.6),
high OM (26.3%) and
medium K, Ca, Mg
contents



Measurements

Total yield during two
months of the harvest
peak



Objective

To evaluate the effect on strawberry yield of using Polysulphate as a complementary nutrient source.

Treatments

This trial consisted of twelve 35 m beds, each with 210 plants. Four treatments, or Polysulphate doses, were applied on a one year old plantation:

1. No Polysulphate
2. 5 g/plant (250 kg/ha)
3. 10 g/plant (500 kg/ha)
4. 15 g/plant (750 kg/ha)

All treatments received a total NPK application of 200, 140 and 280 kg/ha, from urea, Enraifos, potassium sulphate, kieserite and included Polysulphate as a complementary K, Ca and Mg source. All treatments were also fertigated every week using a farmer's combination of all nutrients.

Results

- Polysulphate had a positive effect on strawberry yield.
- Polysulphate increased yield up to 95% compared with the control without Polysulphate.
- Supply of K, Ca, Mg and S from Polysulphate improved the fruit setting, appearance and shelf life.
- A recommended Polysulphate dose of 10 g/plant twice or three times a year increases strawberry productivity and improves fruit quality.

Mined in the UK, ICL is the first – and only – producer in the world to mine polyhalite, marketed as Polysulphate.

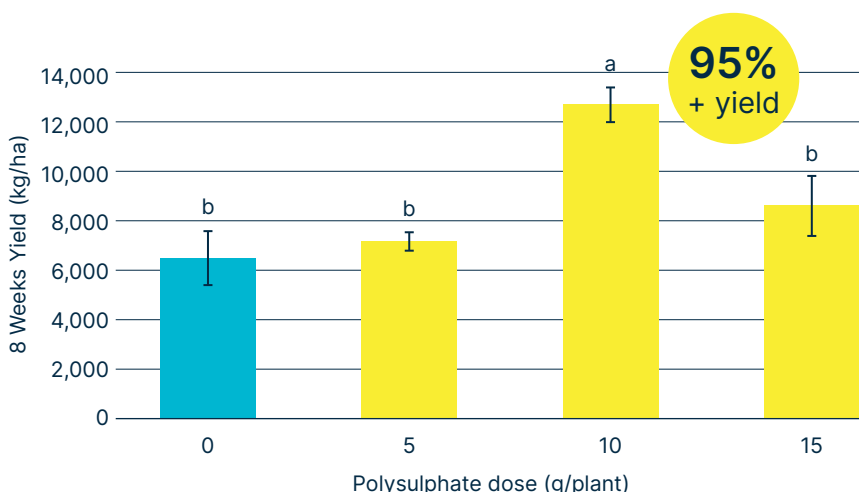
Polysulphate

fertilizers.sales@icl-group.com
 icl-growing-solutions
 @iclgrowingsolutions
 @ICLGrowingSolutions

<https://icl-growing-solutions.com>

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<https://icl-growing-solutions.com/contact-office/> for your contact in your region.



Bars indicate standard errors. Different letters indicate significant differences among treatments by Tukey test ($P=0.05$)