



# Polysulphate<sup>®</sup> Trial

## **Pak Choi** (*Brassica rapa subsp. chinensis*) in fluvo-aquic soil

Polysulphate fertilizer is a soluble, easily-absorbed, cost-effective answer to crop nutrition, containing four key plant nutrients: sulphur, potassium, magnesium and calcium.

<b>S</b>	48% SO <sub>3</sub> (19.2% S)
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<b>K</b>	14% K <sub>2</sub> O (11.6% K)
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<b>Mg</b>	6% MgO (3.6% Mg)
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<b>Ca</b>	17% CaO (12.2% Ca)
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## When

- Sowing: 8 May 2016
- Harvest: 3 July 2016



## Where

Liuzhuang village,  
Shangqiu City, Henan,  
China



## Crop

Pak choi (*Brassica rapa*  
*subsp. chinensis*)



## Soil type

Fluvo-aquic soil



## Measurements

- Spread
- Number of leaves
- Height of plant
- Weight per plant
- Yield

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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For more information consult  
[www.polysulphate.com/contact/](http://www.polysulphate.com/contact/)  
for your contact in your region.

## Objective

To evaluate the addition of Polysulphate and sulphate of potash (SOP) to the farmers' practice on the yield and yield parameters of pak choi crop grown in Henan Province, China.

## Treatments

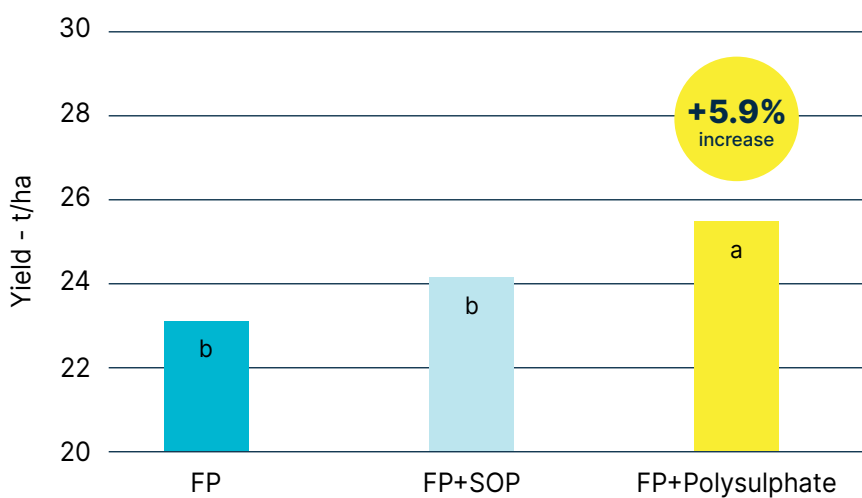
In the trial there were three treatments with three replications arranged in a random block design, the area of each plot was 30 m<sup>2</sup>. Sowing rate was 3 kg/ha, plant density in the field was 180,000 plants/ha.

1. Farmer practice (FP)
2. Farmer practice (FP) + 750 kg/ha of SOP
3. Farmer practice (FP) + 750 kg/ha of Polysulphate

Farmer practice: application of 600 kg/ha of 18-18-18 compound fertilizer as base fertilizer.

## Results

	Number of leaves per plant	Height of plant (cm)	Weight per plant (g)
FP	7.9	20.6	143.8
FP+SOP	8.1	20.9	146.9
FP+Polysulphate	8.6	22.3	156.7



\* Different letters above bars indicate significant differences among treatments.

## Conclusions

When comparing farmer's practice with the addition of either SOP or Polysulphate, the application of Polysulphate resulted in increased plant height, leaf number per plant, single plant weight and yield.

## Research Partner

Cooperation between the Soil and Fertilizer Station of Henan Province and the Land and Fertilizer Management station of Shangqiu City.