

Polysulphate 

**Trial**



**S** 48%  $\text{SO}_3$   
(19.2% S)

**K** 14%  $\text{K}_2\text{O}$   
(11.6% K)

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

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

## Pineapple (*Ananas comosus*) in Peat Soil

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



## When

January 2017 to May 2017



## Where

Simpang Renggam, Johor, Malaysia



## Crop

Pineapple (*Ananas comosus*)



## Soil type

Peat



## Measurements

- Yield
- Fruit grade

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

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

[www.polysulphate.com](http://www.polysulphate.com)

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**Polysulphate** 

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**Fertilizerplus**   
Premium plant nutrition from ICL Fertilizers



Without Polysulphate

With Polysulphate

## Objective

To determine the effectiveness of granular Polysulphate to improve the growth and yield of pineapples on peat soil.

## Treatments

Treatment	Fertilizer	Rate
Control	Compound fertilizer (13-13-21+TE)	500 kg/ha
Polysulphate	Granular Polysulphate (0-0-14 +48% SO <sub>3</sub> +6MgO +17CaO)	500 kg/ha

## Results

- In the control plot, the majority of plants showed symptoms of K deficiency during the fruiting stage, while the plants in the Polysulphate plot had fewer K deficiency symptoms.
- Plants treated with Polysulphate had bigger leaves and fruit.
- Polysulphate application increased the sugar content in fruit: in control plots the Brix level was 13-16% compared to 16-19% with Polysulphate.
- Fruit from the Polysulphate plots had a longer shelf life.
- Total yield was similar for both plots, but there was an 11% increase in grade A fruits (> 660 g per piece) in the Polysulphate plot compared to the control plot.

