Polysulphate®

Trial

Potato
(Solanum tuberosum)
on loamy fine sand

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

S	19.2% S
K	14% K_2O
Mg	3.6% Mg
Ca	12.2% Ca

ICL

When

Planting Date:
February 22, 2021
Harvest Date:
June 29, 2021

Where

Vandermeere,
North Carolina, USA
(Mid-Michigan
Agronomy)

Crop

Potato
(Solanum tuberosum)

Soil type

Stockade loamy fine sand

Measurements

Tuber yield & quality

Objective

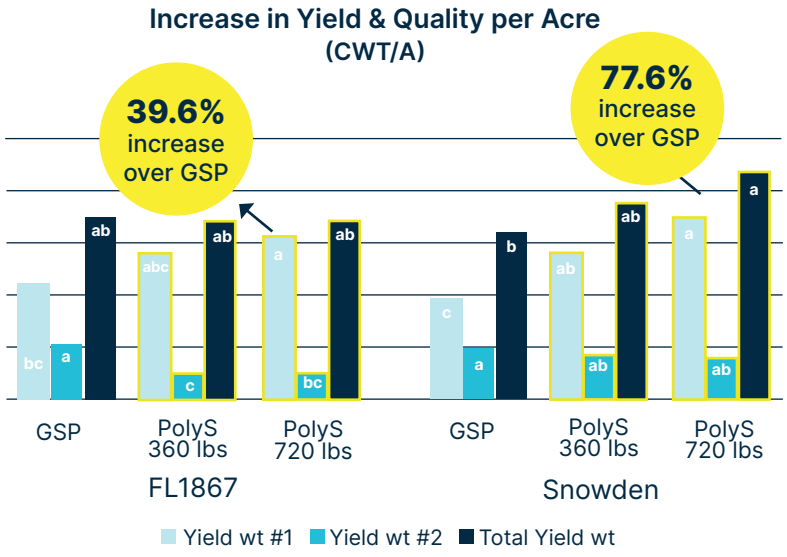
Evaluate the yield and quality from Polysulphate fertilizer on Snowden and FL1867 chipping potatoes when applied at planting on a loamy fine sand.

Treatments

Grower standard practice (GSP) consisted of 10 gallons of 10-34-0 + 360 lbs of pelletized Gypsum (Pel Gyp) in-furrow at planting and MOP applied preplant. The Polysulphate treatment consisted of the GSP with either 360 or 720 lbs/a of Polysulphate with the amount of $CaSO_4$ and MOP being adjusted to match total applied K_2O across all treatments. Treatments were evaluated in a randomized complete block design with six replications.

Results

- Polysulphate showed a significant increase (39.6% for FL1867, 77.6% for Snowden) in higher quality #1 potatoes (at 720 lbs/a)
- Compared to GSP, Polysulphate resulted in improved total yields by 36.3% for Snowden's (720 lbs/a)
- Lower quality #2 potatoes were cut in half for FL1867 with Polysulphate (360 and 720 lbs/acre) compared to GSP



**Different letters in bars indicate significant differences (a=0.10)*

Conclusion

- Compared to GSP, in-furrow Polysulphate applications, at planting, increases quality and yield on FL1867 and Snowden chipping potatoes
- Balanced nutrient management by specific potato variety is critical to maximizing yield and profitability

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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