

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

К	14% K ₂ O
	(11.6% K)

Mg	6% MgO
	(3.6% Mg)

Ca	17% CaO
	(12.2% Ca)







When

- Planting: May 15, 2018
- Harvest: October 4, 2018



Where

Wisconsin, USA



Crop

Potato (Solanum tuberosum) cv. Russet Burbank



Soil type

Acidic, loamy sand



Measurements

- Yield
- Quality

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



- fertilizers.sales@icl-group.com
- in icl-growingsolutions
- @iclgrowingsolutions
- @ICLGrowingSolutions

http://icl-growingsolutions.com

Polysulphate is a registered trademark of ICL.

For more information consult http://icl-growingsolutions.com/contact-office/ for your contact in your region.



Objective

To evaluate Polysulphate as a substitute potassium, calcium, and sulphur from muriate of potash and gypsum in conventional practice, for potato 'Russet Burbank' grown in central Wisconsin.

Treatments

Grower practice consists of 37 kg N/ha applied at planting as DAP. At emergence and active growth, 85 and 190 kg N/ha was applied, respectively as ammonium sulphate and ammonium nitrate. Phosphorus, derived from DAP, was applied at 185 kg P_2O_5 /ha at planting. Potassium was applied pre-plant at 310 kg K_2O /ha as MOP, and at 135 kg K_2O /ha as SOP at planting. In addition, at pre-plant gypsum was applied at 560 kg/ha.

The Polysulphate treatment was a duplicate of the grower practice without the pre-plant MOP and gypsum. Instead, Polysulphate was applied at 1,680 kg/ha at pre-plant.

Results

- Polysulphate fertilization increased the marketable ideal* yield by 1.79 ton/ha over conventional grower practice.
- Marketable yield increased by 15% with the addition of Polysulphate.

