

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% SO₃
	(19.2% S

L	14% K ₂ O
	(11.6% K)

Mg	6% MgO
	(3.6% Mg)

Ca	17% CaO
	(12.2% Ca)







When

- Application: 27
 December 2019
- 4 cuts: 4 May, 12 June, 16 July and 26 August 2020



Where

Ravenna, Italy



Crop

Alfalfa (*Medicago sativa*) 2nd year of cultivation



Soil type

Clayey soil, pH 8



Measurements

- Yield
- Dry matter (%)
- Proteins
- RFV (Relative Feed Value)

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
- Twitter.com/Polysulphate
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For more information consult www.polysulphate.com/contact/ for your contact in your region.



Objective

To evaluate the effect of Polysulphate on the yield and quality of alfalfa in Northern Italy.

Treatments

The trial consisted of strip plots with 4 replicates. The 3 treatments were a control; Polysulphate applied at 150 kg/ha; and Polysulphate applied at 300 kg/ha. As per the farmer's usual practice, the alfalfa was grown in rotation with wheat.

Results

- Polysulphate application generally increased the protein percentage and the Relative Feed Value (RFV). Protein content was significantly higher in the first cut with the application of 300 kg/ha of Polysulphate, and similar trends appeared in the other cuts, though not significant.
- Considering the mean value of the four cuts, Polysulphate application at 300 kg/ha enhanced the quality parameters of the alfalfa. The protein percentage was increased by 9.1% and the RFV increased by 9.6% as compared to the control.
- Drought in spring-summer limited the productivity of dry matter (16.2 tons/ha over the 4 cuts, on average). Dry matter production was similar across treatments, with no significant differences on the individual cuts nor in the cumulative production.



Higher letters indicate significant differences at P < 0.05.