

Growing OILSEED RAPE IN CHINA



POLY4
A SIRIUS MINERALS PRODUCT

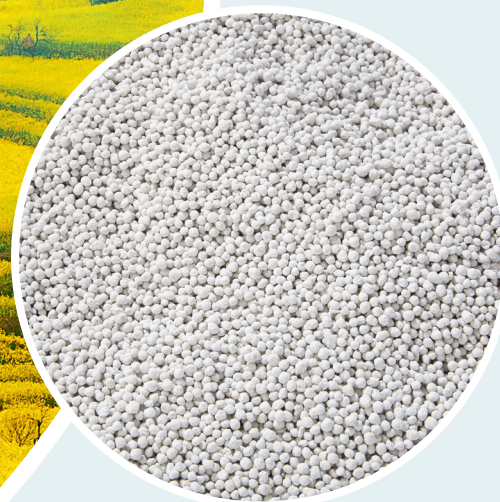
K ₂ O	S	MgO	CaO
14%	19%	6%	17%

KEY FINDINGS

Greater early growth

7% yield improvement

Increased revenue



A CASE FOR POLY4

- China is the second largest producer of oilseed rape, producing 13 million tonnes a year.
- Hubei is one of the main provinces growing the crop.
- Many soils in Hubei are deficient in potassium and sulphur. Yields from these soils are typically low (<2 t ha⁻¹).
- The crop benefits from a good supply of sulphur and potassium together with other macro and micro nutrients delivered from POLY4.

POLY4 BENEFITS



Multi-nutrient fertilizer



Source of plant available sulphate-S



Sustained nutrient delivery



pH neutral

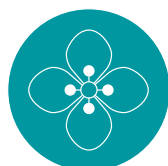


Compatible in NPK blends

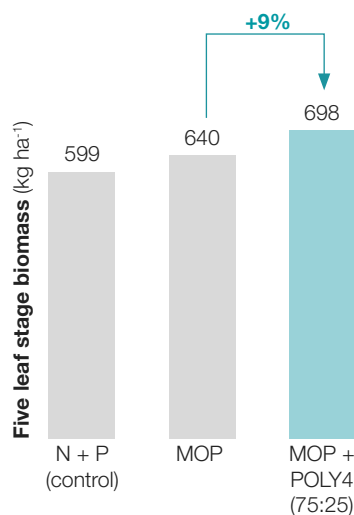
Treatment	Nutrients applied (kg ha ⁻¹)				
	K ₂ O	S	CaO	MgO	Cl
N + P (control)	0	0	39	0	0
MOP	60	0	39	0	46
MOP + POLY4 (75:25)	60	20	57	6	38

*Each treatment received 165 kg N ha⁻¹ and 90 kg P₂O₅ ha⁻¹ from urea and TSP.

GREATER EARLY GROWTH



At the five-leaf stage, there was a large biomass increase after adding K. The MOP + POLY4 fertilized crops had the greatest biomass. The tallest plants at harvest were also from the MOP + POLY4 treatment.



TRIAL FOCUS

To compare the response of oilseed rape to POLY4 fertilizer treatment with MOP.

PARTNER

**Hubei Academy
of Agricultural
Science**

LOCATION

**Xianning, Hubei
Province, China**

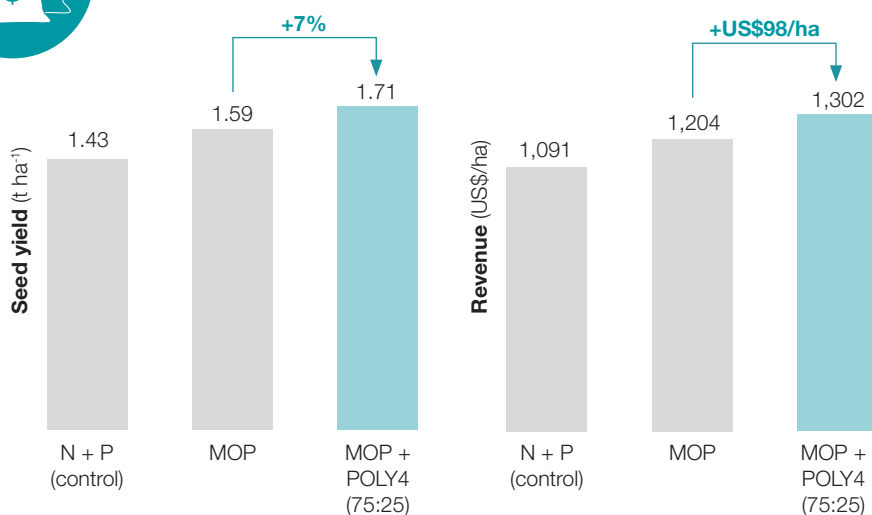
DATE

2017

IMPROVED YIELD AND CROP VALUE



Early growth improvements were followed by greater yield after using MOP + POLY4. The value of the crop was increased by US\$98/ha.



Notes: 1) Crop statistics from FAOSTAT for 2017; 2) Each treatment received 165 kg N ha⁻¹ and 90 kg P₂O₅ ha⁻¹ from urea and TSP; 3) MOP + POLY4 ratio is on a K:K basis. 4) Cultivar HYZ 62; 5) Yield at 91% DM; 6) Initial soil analysis: pH 5.8, 1.7% SOM, 11 mg P kg⁻¹, 95 mg K kg⁻¹, 1070 mg Ca kg⁻¹, 85 mg Mg kg⁻¹; 7) Crop price (China minimum purchase price): US\$805/t.

Source: Hubei Academy of Agricultural Science (2017), 46000-HUB-46012-16 (OSR).

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