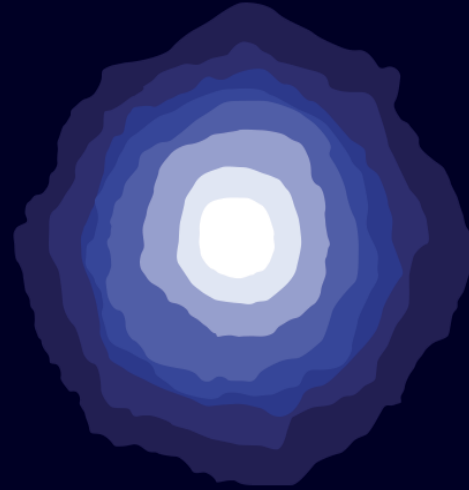


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THE FUTURE OF
FERTILIZER

Oilseed rape
May 2016

Important Notices



BASIS CPD Points – PN/51028/1516/g

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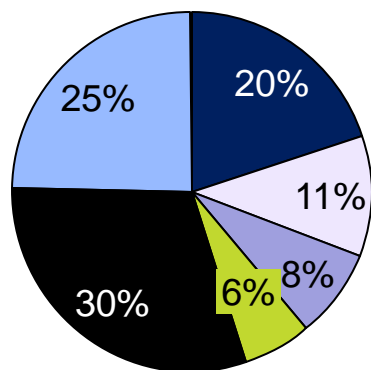
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Global oilseed rape industry

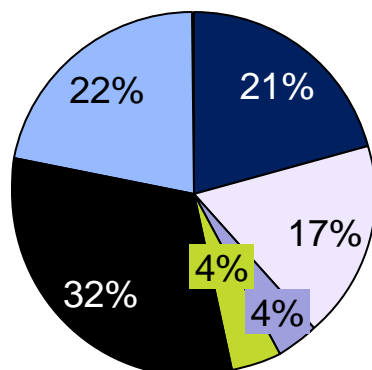
Large international market resulting in a diverse range of processed products

Global oilseed rape industry¹



Production

Total : 73 Mt



Area harvested

Total : 36 million ha

Key comments

- The global oilseed rape market is worth US\$40.76 billion¹
- China makes up 30% of the market by value¹
- Oilseed rape can be processed for rape oil, dairy or pig feed and honey²
- Potassium and sulphur are key yield drivers
- China uses over 7.5 million ha of farmland to grow oilseed rape¹
- For an estimated 80 kg K₂O/ha crop requirement in China this represents 4.3 Mt of POLY4

Potential oilseed rape potash demand is worth 4.3 Mt of POLY4

Treatment structure

Evaluation of two potassium based fertilizers on oilseed rape

Average treatment composition^{1,2}

Fertilizer	Nutrient application (kg/ha)						
	N	P ₂ O ₅	K ₂ O	MgO	CaO	S	Cl
Control	180	120	0	0	0	0	0
MOP	180	120	80	0	0	0	64
POLY4	180	120	80	34	97	108	17

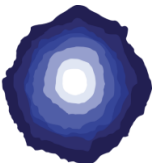
- In this trial, three rates of K₂O application (40, 80 and 120 kg K₂O/ha) were used to compare MOP and POLY4
- The POLY4 option supplies additional magnesium, calcium and sulphur plus beneficial micro-nutrients compared to the MOP option
- 36 plots measuring 24 m² each were used for all treatment and rate combinations

Trial was designed to evaluate two sources of potassium at three rates

Notes: 1) GENSTAT means of inputs for 40 – 120 kg K₂O/ha except for control where 0 kg K₂O/ha; 2) Urea and DAP supplied nitrogen and phosphorus. Initial soil analysis: pH 4.88, P 10 mg/kg, K 90 mg/kg, Mg 173 mg/kg, S 30 mg/kg. Source: Nanjing Institute of Soil Science 2015

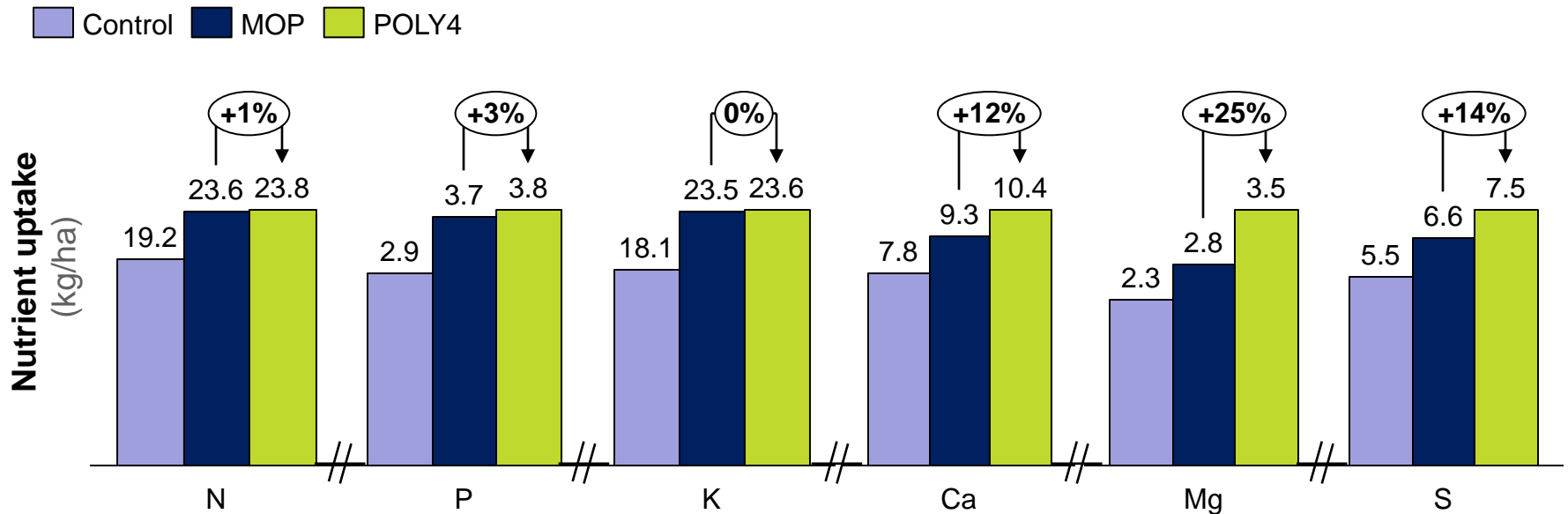
Plant nutrient uptake at early seed development

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Ensuring nutrient availability at the seed development stage supports yield

Total nutrient uptake at seed development^{1,2} (kg/ha)



- Peak nutrient demand for the oilseed rape crop is at mid flowering, prior to seed development
- High levels of nutrient uptake during peak demand indicates satisfactory nutrient supply from POLY4
- The addition of calcium, magnesium and sulphur from POLY4 supports nutrient uptake

POLY4 improves nutrient uptake during grain development

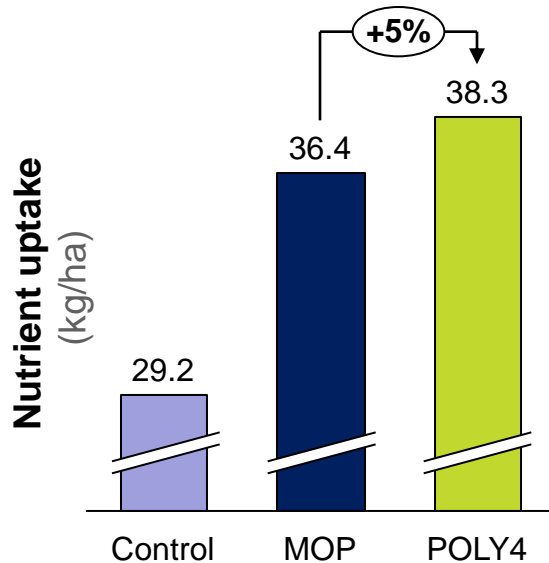
Notes: 1) GENSTAT means; 2) All plots received 180 kg N/ha and 120 kg P₂O₅/ha from urea and DAP with 80 kg K₂O/ha from MOP or POLY4. Initial soil analysis: pH 4.88, P 10 mg/kg, K 90 mg/kg, Mg 173 mg/kg, S 30 mg/kg. Source: Nanjing Institute of Soil Science 2015

Seed NPK uptake at harvest

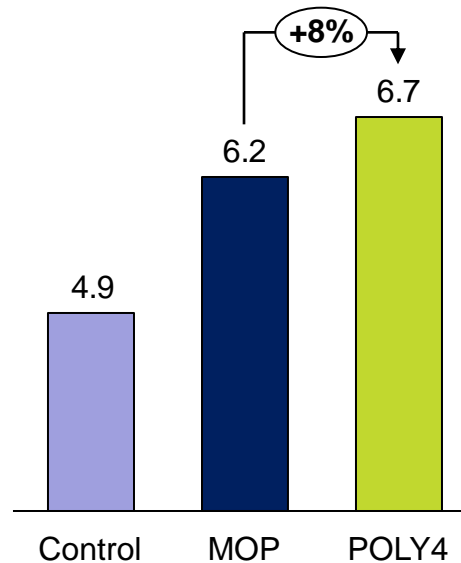
Higher seed nutrient uptake may indicate nutrient use efficiency



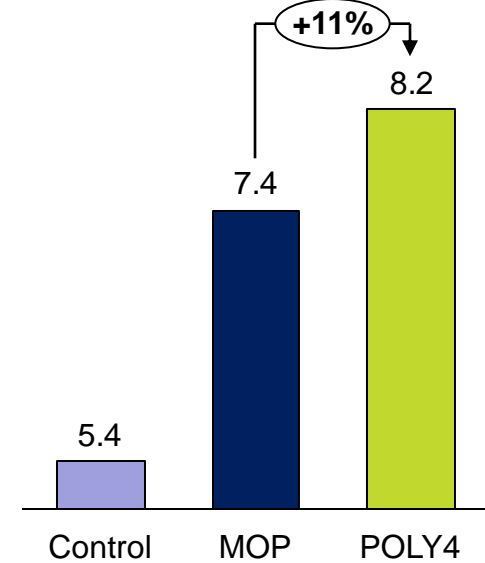
Seed N uptake^{1,2}
(kg/ha)



Seed P uptake^{1,2}
(kg/ha)



Seed K uptake^{1,2}
(kg/ha)



- Using POLY4 improves nitrogen, phosphorous and potassium use efficiency
- POLY4 delivers the highest amounts of nitrogen, phosphorus and potassium into the yield component by 5%, 8% and 11% respectively
- Delivering nutrients into the seed is important for yield and oil quality at harvest

POLY4 aids NPK uptake through the oilseed rape plant to the seed

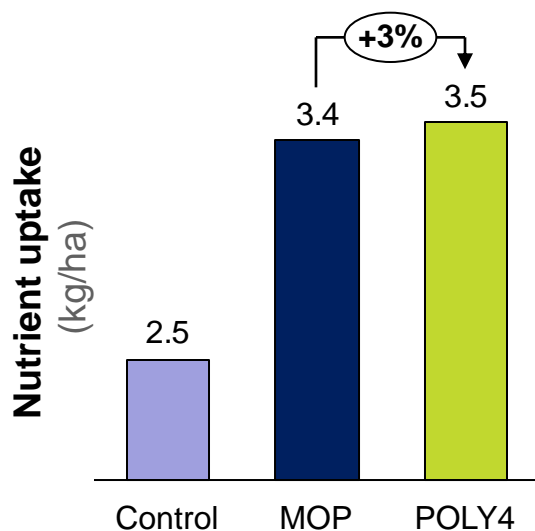
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Ca, Mg and S uptake at harvest

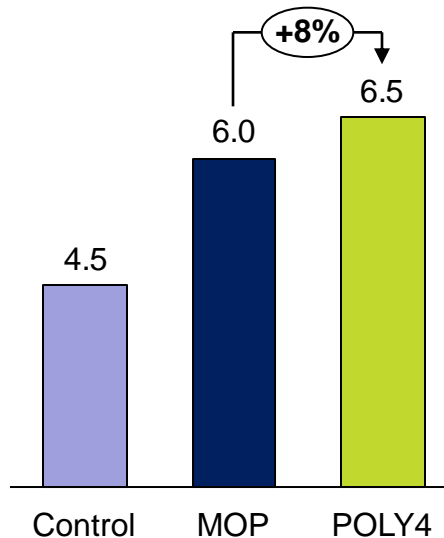
POLY4 fertilizer supports seed nutrient uptake



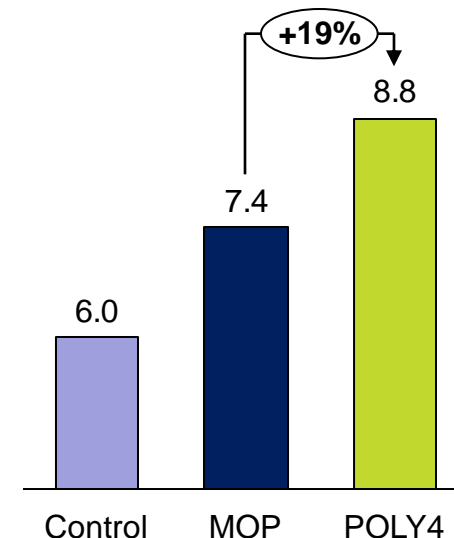
Seed Ca uptake^{1,2}
(kg/ha)



Seed Mg uptake^{1,2}
(kg/ha)



Seed S uptake^{1,2}
(kg/ha)



- POLY4 delivers the highest amounts of calcium, magnesium and sulphur into the yield component by 3%, 8% and 19% respectively
- POLY4 satisfies the high oilseed rape sulphur demand, which is supportive of oil production

POLY4's macro nutrients are key yield drivers

Notes: 1) GENSTAT means; 2) All plots received 180 kg N/ha and 120 kg P₂O₅/ha from urea and DAP with 80 kg K₂O/ha from MOP or POLY4. Initial soil analysis: pH 4.88, P 10 mg/kg, K 90 mg/kg, Mg 173 mg/kg, S 30 mg/kg. Source: Nanjing Institute of Soil Science 2015

Characteristics of oilseed rape plants

Response of plant features to fertilizers effects yield and quality

Plant characteristics^{1,2}

Parameter	Fertilizer regime		
	Control	MOP	POLY4
Percentage sterile seeds/pod (%)	13	14	14
Pod weight (kg/ha)	706	790	839
Chlorophyll content (mg/kg)	4.4	5.2	5.2
Oil Content (%)	45	45	45

- POLY4 increased pod weight by 6% over MOP and minimised sterile seed numbers which is supportive of yield
- Lower chlorophyll content in the oil is a common quality requirement
- Oil content over 40%, as supported by appropriate sulphur nutrition, commands a premium

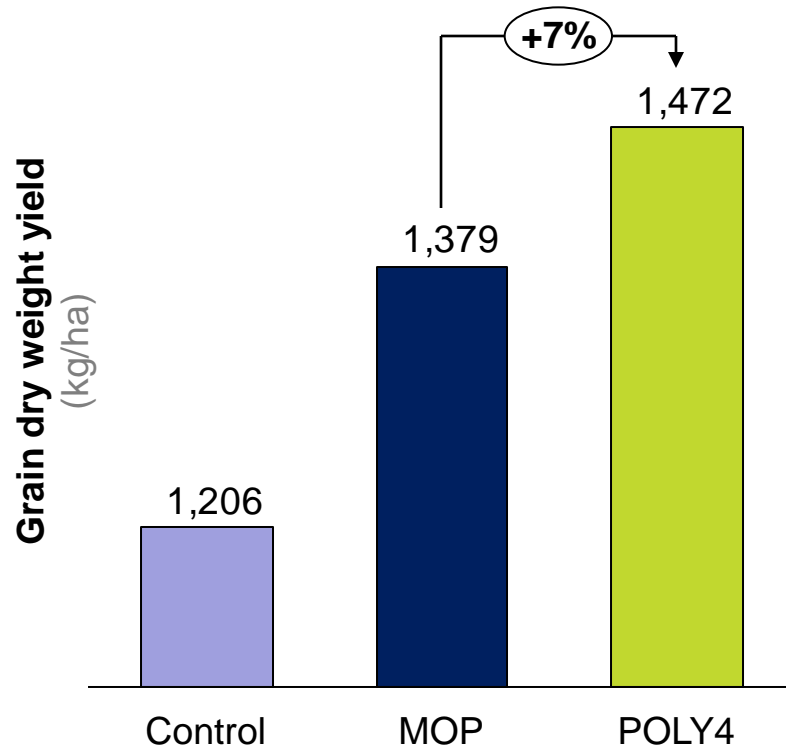
POLY4 supports essential yield and quality parameters

Notes: 1) GENSTAT means; 2) All plots received 180 kg N/ha and 120 kg P₂O₅/ha from urea and DAP with 80 kg K₂O/ha from MOP or POLY4. Initial soil analysis: pH 4.88, P 10 mg/kg, K 90 mg/kg, Mg 173 mg/kg, S 30 mg/kg. Source: Nanjing Institute of Soil Science 2015

Oilseed rape yield

Improving oilseed rape yield is important to growers

Yield
(kg/ha)



Key comments

- Potassium improves tolerance to pest attacks, disease, frost damage and improves plant-water relations
- POLY4 delivers improved macro nutrient grain uptake, driving yield improvement
- The POLY4 fertilized crop contained a 45% oil content whilst outperforming the MOP option by 7%
- The improvement is a result of the natural balanced fertilization offered by POLY4

POLY4 improves oil yield

Notes: 1) GENSTAT means; 2) All plots received 180 kg N/ha and 120 kg P₂O₅/ha from urea and DAP with 80 kg K₂O/ha from MOP or POLY4. Initial soil analysis: pH 4.88, P 10 mg/kg, K 90 mg/kg, Mg 173 mg/kg, S 30 mg/kg. Source: Nanjing Institute of Soil Science 2015

Oilseed rape presentation summary

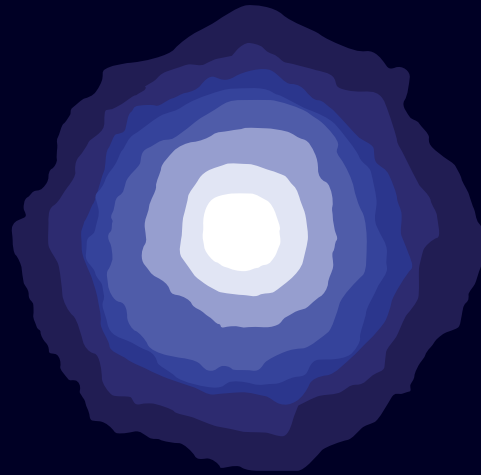
POLY4 is an effective fertilizer source for use on oilseed rape

Oilseed rape key conclusions

- POLY4 delivers key yield supporting nutrients during the important seed development stage
- Oilseed rape seeds benefit from improved macro nutrient uptakes, up to 25% greater than the MOP option
- POLY4 aids NPK, Ca, Mg and S uptake through the oilseed rape plant to the seed
- A fertilizer plan which delivers the crop's magnesium, sulphur and calcium needs besides the standard NPK offers insurance in marginal fertile soil conditions
- Timely nutrient uptake from POLY4 assures quality and a 7% yield improvement



Use of POLY4 on oilseed rape assures quality and yield



Thank you