Growing RICE IN CHINA

KEY FINDINGS
7% grain yield improvement
Enhanced grain nutrient content and uptake
Increased residual soil fertility

A CASE FOR POLY4

- China is the largest rice producer in the world (213 million tons from 31 million ha, 29% of global rice production).
- Sichuan Province has 2 million hectares of rice.
- Soil K is often deficient in Sichuan. Soils are also S deficient in some areas of the region.
- POLY4 provides K and S as well as Mg, Ca and micro nutrients. These nutrients are supplied at a sustained rate over time to meet requirements of the growing crop.

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The highest grain yield was achieved with 50% $K\textsubscript{2}O$ supplied by POLY4 (MOP + POLY4 (50:50)); higher yield subsequently offered US$234/ha higher revenue compared to MOP.

### IMPROVED GRAIN NUTRITION

POLY4 improved nutrient uptake. Grain K and S were both greater with MOP + POLY4 than with MOP.

### ENHANCED SOIL NUTRIENT STATUS

Post-trial soil nutritional status was enhanced with the use of POLY4, which can be beneficial for future cropping. Soil potassium was improved with both treatments, and soil sulphur was significantly improved after MOP + POLY4 treatment.

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*All treatments received 150kg N ha\(^{-1}\) and 75 kg P\(_{2}O_{5}\) ha\(^{-1}\) from urea and DAP.*