Growing SUGARBEET IN FRANCE

KEY FINDINGS

+ 11% yield advantage over Korn-Kali and +6%
over MOP + kieserite

Additional 3 t ha⁻¹ yield advantage with increased POLY4 rate

Greater sugar yield achieved with POLY4

A CASE FOR POLY4

- Sugarbeet is an important industrial crop in northern Europe and a major crop in France that grows 388 thousand hectares of sugarbeet, second largest area in Europe 28.

- Potassium is a critical nutrient to maximise root yields while crops also often receive magnesium and sulphur, and so kieserite or Korn-Kali are currently used as standard fertilizers for sugarbeet.

- POLY4 contains magnesium, potassium, sulphur and calcium in one product. POLY4 delivers its nutrients over an extended period, ensuring the crop has adequate nutrition throughout the growing season.

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**ROOT YIELD ADVANTAGE**

Application of a 84 kg ha\(^{-1}\) POLY4 rate gave a large yield improvement compared to alternative fertilizers with similar Mg and S applications. A standard application rate of 200 kg POLY4 ha\(^{-1}\) (supplying 20% of the potassium) had an additional 3 t ha\(^{-1}\) clean root yield.

**INCREASED SUGAR YIELD**

Sugar concentration was maintained in the roots with POLY4 treatments (average of 17.1% polarisable sugar). Improved root yields with POLY4 treatments directly translated into increased sugar yield.