Growing CORN IN FRANCE

KEY FINDINGS
7% higher yield than standard farm practice
Enhanced crop nutrition
Financially efficient

POLY4 BENEFITS
Source of macro and micro nutrients
Sustained nutrient delivery
Suitable for organic farming
Excellent environmental profile

A CASE FOR POLY4

• France is the third largest maize producer in Europe and the 11th largest globally.
• MOP + AS is a standard farm fertilizer practice if application of potassium is required.
• S deficiency is an increasing problem for European farmers.
• POLY4 supplies K, S, Mg, Ca and micro nutrients in one product.
• POLY4 provides a sustained delivery of nutrients. This is important for grain fill when K requirements are high.

poly4.com
ENHANCED CROP NUTRITION

Leaf tissue analyses indicated the N + P (control) and MOP + AS fertilized crops were deficient in K (<16 g kg\(^{-1}\)) and S (<1.5 g kg\(^{-1}\)). The MOP + POLY4 (50:50) treatment had the highest concentration of both K and S making POLY4 a very effective K and S fertilizer. Increased K and S supply to deficient crops can produce a greater yield.

HIGHER YIELD

The POLY4 fertilizer programmes had up to 1.1 t ha\(^{-1}\) more yield than standard farm practice (MOP + AS). The largest yield was achieved when 50% of K\(_2\)O was supplied by POLY4.

FINANCIALLY EFFICIENT FERTILIZER PROGRAMME

The POLY4 fertilizer programmes had the highest revenues.

Notes: 1) FAO Stat, 2017; 2) 158 kg N and 90 kg P\(_2\)O\(_5\), ha\(^{-1}\) applied to all treatments; 3) Initial soil analysis: pH (water) 6.8, 1.9% SOM, 110 mg P kg\(^{-1}\), 50 mg K kg\(^{-1}\), 684 mg Ca kg\(^{-1}\), 35 mg Mg kg\(^{-1}\); 4) Data analysed by Genstat ANOVA analysis, with Fisher’s LSD (5%) used to separate means; 5) Leaf nutrient analysis after representative leaves (below and opposite cob) were taken at grain filling (GS71); 6) Maize price was US$161/t.

Source: Antedis, France (2018), 17000-ASA-17013-18 (corn).