Growing LETTUCE IN USA

KEY FINDINGS

POLY4 increased lettuce yield by 2 t ha⁻¹

More cartons of lettuce produced

Improved revenue by US$144/ha

A CASE FOR POLY4

• Lettuce is grown continuously in California fields, with a new crop planted year-round every 80-85 days.

• Approximately 83% of all US Romaine lettuce is grown in California across 30,800 ha. US lettuce production in 2017 was valued at US$1.5 billion.

• POLY4 can benefit lettuce growers due to its sustained supply of K, S, Ca and Mg to growing crops.

POLY4 BENEFITS

Source of macro and micro nutrients

Low chloride content

Extended nutrient delivery profile

Suitable for organic farming

Low carbon footprint

poly4.com
POLY4 blend gave greater yield than the standard fertilizer option used by US lettuce growers.

**INCREASED PRODUCTION AND REVENUE**

Lettuces are sold by the carton. Cartons are filled with 18 large, 24 medium or 36 small lettuce heads. The MOP + POLY4 blend had the greatest number of cartons. Increased production subsequently improved revenue by US$144/ha.

### TRIAL FOCUS

To compare an NPK blend containing POLY4 to a standard NPK blend used by lettuce growers in California.

### PARTNER

**Pacific Ag Research**

### LOCATION

**Salinas, California, USA**

### DATE

2018

Notes: 1) Both treatments received 22 kg N ha⁻¹ from liquid AN-20; For POLY4 blend N and P₂O₅ was supplied by ammonium nitrate (AN) and DAP. 30% of K₂O was supplied by POLY4 and remainder from MOP; for standard NPK treatment N, P₂O₅ and K₂O supplied from commercial 15:15:15 blend; 2) Pre-trial soil analysis: pH 8.1, CEC 9.9 meq/100g, SOM 1.0%, 91 mg P (Bray 1) kg⁻¹, 162 mg K kg⁻¹, 150 mg Mg kg⁻¹, 1509 mg Ca kg⁻¹, 64 mg Na kg⁻¹, 22 mg S kg⁻¹; 3) Revenue is based on price of US$8/carton.