Growing
LETTUCE IN USA

POLY4
A SIRIUS MINERALS PRODUCT

| K₂O 14% | S 19% | MgO 6% | CaO 17% |

KEY FINDINGS

POLY4 increased lettuce yield by 2 t ha⁻¹

More cartons of lettuce produced

Improved revenue by US$144/ha

POLY4 BENEFITS

Source of macro and micro nutrients

Cl⁻ Low chloride content

Extended nutrient delivery profile

Suitable for organic farming

Low carbon footprint

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.

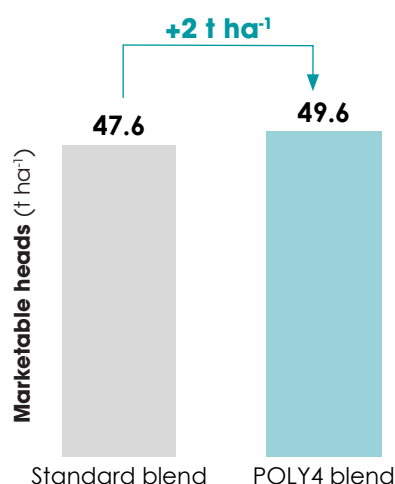| Treatments	Nutrients applied (kg ha⁻¹)						
	N	P_2O_5	K_2O	CaO	MgO	S	Cl
Standard blend (15:15:15) + AN-20	79	56	56	0	0	0	43
POLY4 blend (15:15:15) + AN-20	79	56	56	19	7	21	34

*All treatments received applications of N and P fertilizer.

GREATER YIELD

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

+2 t ha⁻¹

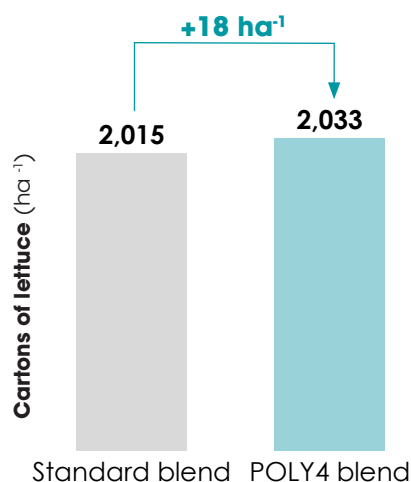47.6 — Standard blend

49.6 — POLY4 blend

Marketable heads (t ha⁻¹)

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.

+18 ha⁻¹

2,015 — Standard blend

2,033 — POLY4 blend

Cartons of lettuce (ha⁻¹)

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

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