



An Anglo American Product



# Corn

## response to Anglo American's POLY4<sup>®</sup>

### Trial focus

Evaluate the yield response of corn to MOP + AMS and POLY4 program.

### Overview

- 14.2 billion bushels of corn were produced in the USA in 2020.
- Standard practice for corn in the USA is to apply N, P and K according to crop need and soil testing.
- Potassium (K) fertilizer for corn is MOP. Corn crops also often receive sulfur (S) commonly supplied by AMS.

### Treatments applied

- All treatments received standard N and P application rates.
- POLY4, MOP and AMS were spring applied.
- On average 146 lb acre<sup>-1</sup> of POLY4 was applied, the remainder of K<sub>2</sub>O has been applied from MOP.

Average nutrients applied (lb acre<sup>-1</sup>)

	<b>K<sub>2</sub>O</b>	<b>S</b>	<b>Mg</b>	<b>Ca</b>
<b>MOP + AMS</b>	77	28	0	0
<b>POLY4 program</b>	77	28	5.3	18

### Trial locations



### Results

POLY4 program versus MOP + AMS



### Conclusion

- Yields with the POLY4 program were higher than MOP + AMS: in 11 trials POLY4 yield outperformed MOP + AMS by at least 3.4 bushels per acre; in seven trials by at least 5 bushels per acre.
- POLY4 supplies plant-available S in sulfate form as well as K, Mg and Ca.
- The results demonstrate that POLY4 offers the benefits of a balanced, season-long crop nutrition helping to increase yield potential.

**Crop:**

Corn

**Years:**

2015–2020

**Locations:**

18 trials in Illinois, Iowa, Minnesota, North Dakota, South Dakota, Tennessee, Virginia.

**Data source:**

Trials conducted by third-party, independent researchers.

# 3.9 bu/ac

**POLY4 program average yield advantage over MOP + AMS**

Notes: Median yield with standard practice was 167 bu/ac.