**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\(^{-1}\) of POLY4 was applied, the remainder of K\(_2\)O has been applied from MOP.

**Average nutrients applied (lb acre\(^{-1}\))**

<table>
<thead>
<tr>
<th></th>
<th>K(_2)O</th>
<th>S</th>
<th>Mg</th>
<th>Ca</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOP + AMS</td>
<td>77</td>
<td>28</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>POLY4 program</td>
<td>77</td>
<td>28</td>
<td>5.3</td>
<td>18</td>
</tr>
</tbody>
</table>

**Results**

**Trial locations**

**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.