Aspire® Soybean Fertility

Objective
• Evaluate the yield response of soybeans to Aspire® (0-0-58-0.5B), MOP (0-0-60) + Granular B (0-0-0-14.3B) blend and a Control (No K) treatment.

Overview
• MOP is commonly used as a potassium (K) source in soybean production.
• Micronutrients such as boron (B) are essential for plant growth, yet often overlooked in balanced crop nutrition.
• Granular B products can be blended with K, but application of these blends leads to undesirable B distribution.
• Additionally, boron is mobile in the soil and can leach beyond root systems under certain conditions.
• Aspire is a premium potash that uses Nutriform® technology to combine potash along with two forms of boron (fast and slow release) in every granule. This combination delivers B for uptake throughout the season, and provides a more flexible application window compared to other B sources.

Trial Details
CROP: Soybean (Glycine max)
YEARS: 2016–2017
DATA SOURCE: Field studies conducted by third-party, independent researchers.
EXPERIMENTAL DESIGN: Small-plot RCBD with 4 replications.
CROPPING CONDITIONS:
• P Rate: 40 lbs P₂O₅/ac applied as MicroEssentials® S10® across entire trial
• K Rate: 60 lbs K₂O/ac applied as MOP or Aspire
• B Rate: 0.5 lb B/ac applied as Granular B or Aspire
• Application Timing: Preplant
• Application Method: Broadcast incorporated

Results

<table>
<thead>
<tr>
<th>Soybean Yield (bu/ac)</th>
<th>MOP + Granular B</th>
<th>Control (No K)</th>
<th>Aspire</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>61.7</td>
<td>59.9</td>
<td>63.7</td>
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LOCATIONS: 18 trials across the United States: AR, GA, IL, KS, MN, NC, NE, SC, TN, WI

Summary
• Soybean yields increased with the addition of potassium and boron.
• The addition of MOP + Granular B increased yields by 1.8 bu/ac.
• Aspire demonstrated a +2.0 bu/ac response over the MOP + Granular B and a +3.8 bu/ac response over the Control (No K).
• This study demonstrated that when a foundational rate of phosphorus and sulfur is provided by MicroEssentials S10, additional yield can be achieved with potassium and boron applications; especially with Aspire and Nutriform technology.

WARNING: Contains boron. Use of boron may result in crop injury. DO NOT place this product in direct contact with the seed. For more information, go to AspireBoron.com.

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