Aspire® Alfalfa Yield Trials

Objective
• Evaluate the yield response to Aspire® (0-0-58-0.5B) compared to MOP (0-0-60).

Overview
• MOP is commonly used as a potassium (K) source in alfalfa production.
• In addition to K, alfalfa removes approximately 1.5 oz boron (B) per ton of dry matter.
• Granular B products can be blended with K, but application of these blends often leads to undesirable distribution.
• Aspire is the first-of-its-kind micronutrient-enhanced potash fertilizer. Formed using innovative Nutriformal™ technology, Aspire premium potash combines potassium and boron in each granule to help achieve balanced crop nutrition.

Trial Details
Locations and Crop Management:
CROP: Alfalfa (Medicago sativa)
YEARS: 2013–2014
LOCATIONS: 8 trials
United States – MN, OH, WI
DATA SOURCE: Field studies conducted by third-party, independent researchers.
EXPERIMENTAL DESIGN: Small-plot RCBD with 4 replications.
CROPPING CONDITIONS: Trials conformed to local cropping practices and were conducted on an established stand.
• P Rate: As required by soil test.
• K Rate: 180 lbs K₂O/ac
• B Rate: 1.55 lbs B/ac
• Application Timing: Directly following first cutting.
• Application Method: Broadcast

Results

<table>
<thead>
<tr>
<th>Location</th>
<th>Yield (tons/ac)</th>
<th>Yield Difference (tons/ac)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOP</td>
<td>9.1</td>
<td></td>
</tr>
<tr>
<td>Aspire</td>
<td>9.6</td>
<td>0.5</td>
</tr>
</tbody>
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Summary
• Across 8 trials, Aspire outyielded MOP by 0.5 tons/ac.
• By combining K and B in one granule, Aspire reduces the risk of uneven application and improves nutrient use for maximum yields.