



## Aspire® Alfalfa Boron Fertility

### Objectives

- Evaluate the yield response to Aspire® with Boron (0-0-58-0.5B) compared to MOP (0-0-60).
- Compare the efficiency of Aspire to MOP + boron (B) applied at two rates of B.

### Overview

- MOP is commonly used as a potassium (K) source in alfalfa production.
- In addition to K, alfalfa removes approximately 1.5 oz of B per ton of dry matter.
- Granular B products can be blended with K, but low application rates of these blends often lead to undesirable distribution.
- Aspire is the first-of-its-kind micronutrient-enhanced potash fertilizer. Formed using the innovative Nutriform® technology, Aspire premium potash combines K and B in each granule to help achieve uniform nutrient distribution.

### Trial Details

#### Locations and Crop Management:

**CROP:** Alfalfa (*Medicago sativa*)

**YEARS:** 2013–2015

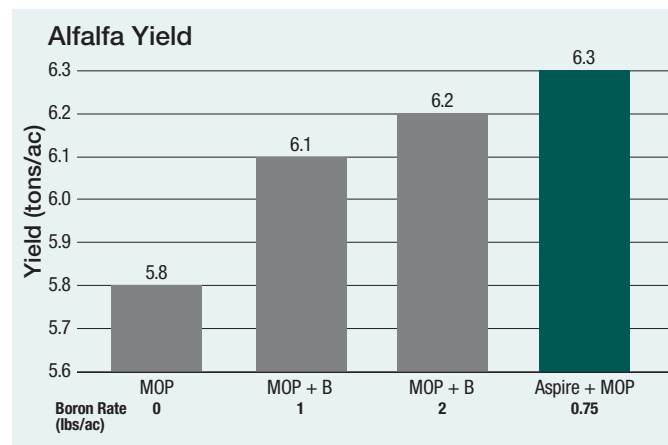
**DATA SOURCE:** Field studies conducted by third-party, independent researchers.

**EXPERIMENTAL DESIGN:** Small-plot RCBD with 4 replications.

**CROPPING CONDITIONS:** Trials conformed to local cropping practices and were conducted on an established stand.

- **K and B Sources:** MOP, MOP + B blend, Aspire + MOP (Each applied at 90 lbs K<sub>2</sub>O/ac.)
- **K Rate:** 180 lbs K<sub>2</sub>O/ac
- **B Rate:** 0.75 lb B/ac as Aspire vs. 1 lb and 2 lbs B/ac as granular borax
- **P Rate:** As required by soil test
- **Application Timing:** Directly following first cutting
- **Application Method:** Broadcast

### Results



**LOCATIONS:** 13 trials across the United States – CA, MN, NY, OH, SD, WI

### Summary

- Across 13 trials, Aspire + MOP outyielded MOP alone by 0.5 ton/ac.
- Aspire + MOP (0.75 lb B/ac) yielded higher than the MOP + B blends applied at 1 lb and 2 lbs B/ac.
- By combining K and B in one granule, Aspire reduces the risk of uneven application that is common with traditional blends and improves nutrient use efficiency for maximum yields.

**Aspire**®

**0.5**  
ton/ac

Increase with Aspire + MOP over MOP.

**Mosaic**®

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Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

**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 [AspirePotash.com](http://AspirePotash.com).

AlfaBOR-4165