

# K-Mag® Facts

## COTTON



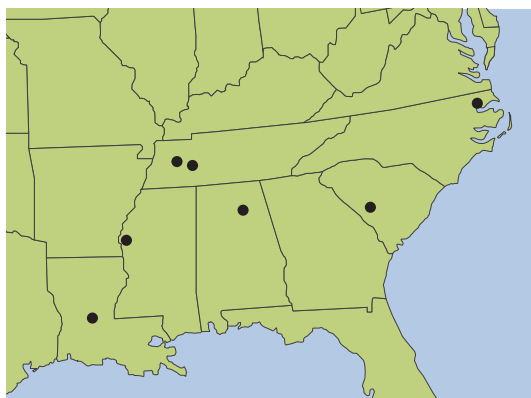
## K-Mag® Blend Study

### Objective

- Evaluate cotton yield when K-Mag® Premium (0-0-21.5-10.5Mg-21S) is used to replace a small amount of K<sub>2</sub>O in a common nutrient application of MOP (0-0-60) + Foliar B.

### Overview

- Muriate of Potash (MOP) and boron (B) are common fertilizers used in cotton production.
- Potassium (K), magnesium (Mg), and sulfur (S) are macronutrients needed for a balanced crop nutrition program in cotton.
- Magnesium is critical for photosynthesis, heat-stress tolerance, disease resistance, crop quality, and lint yield.
- Higher yields combined with lower atmospheric sulfur (S) deposition has accelerated the need for S on cotton.
- K-Mag is a unique 3-in-1 nutrient source that features low chloride, water soluble nutrients, and does not affect soil pH; regardless of application rate.



**LOCATIONS:** 10 trials across the following states - AL, LA, MS, NC, SC, TN

### Trial Details

**CROP:** Cotton (*Gossypium hirsutum* L.)

**YEARS:** 2018-2019

**LOCATIONS:** 10 trials  
AL, LA, MS, NC, SC, TN

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

#### **CROPPING CONDITIONS:**

All trials conformed to local cropping practices.

#### **EXPERIMENTAL DESIGN:**

Small-plot RCBD with 4 replications.

**N Rate:** Applied according to local recommendations

**P Rate:** Applied according to local recommendations

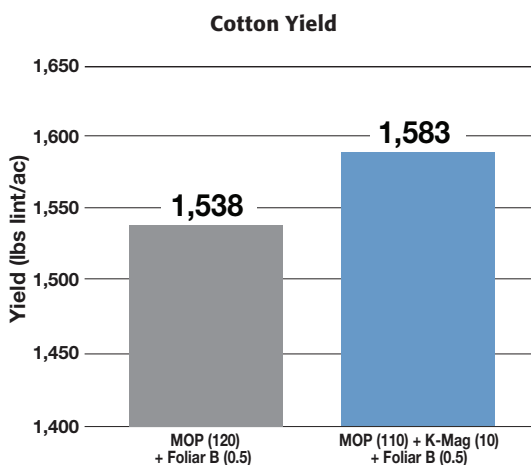
**K Rate:** 120 lbs K<sub>2</sub>O/ac as either MOP or MOP (110) + K-Mag (10)

**B Rate:** 0.5 lbs as Foliar B across all treatments

#### **APPLICATION DETAILS:**

- MOP and MOP + K-Mag: Preplant broadcast incorporated.
- Foliar B: Early bloom foliar.

### Results



# 45 lbs lint/ac

Increased yield with a small amount of K-Mag in the blend



©2026 International Minerals Carlsbad, Inc. All rights reserved. K-Mag® is a registered trademark of International Minerals Carlsbad, Inc.

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.

For more information, go to [Kmag.com](http://Kmag.com)

### Summary

- Replacing a small amount of MOP with K-Mag increased cotton yield by 45 lbs lint/ac averaged across 10 trials (2018 – 2019).
- The K, Mg, and S found in K-Mag provide a great source of necessary macronutrients (primary and secondary) to provide a balanced crop nutrition program in cotton.
- Access additional yield data, technical information, and resources at [CropNutrition.com](http://CropNutrition.com)