



## ONION

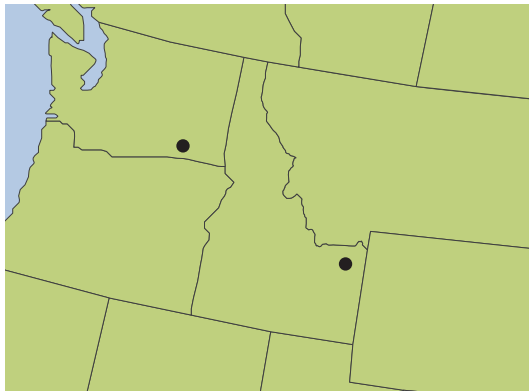
# K-Mag<sup>®</sup> Onion Blend Study

## Objective

- Evaluate onion marketable yield response to MAP (11-52-0), MAP + MOP (0-0-60) and MAP + MOP + K-Mag<sup>®</sup> Premium (0-0-21.5-10.5Mg-21S).

## Overview

- Phosphorus (P), along with potassium (K), magnesium (Mg) and sulfur (S) are macronutrients needed for a balanced crop nutrition program in onions.
- Magnesium is critical for photosynthesis, increased dry matter, heat-stress tolerance, disease resistance, and crop quality.
- Ensuring K, Mg, and S availability through bulb development can be difficult on coarse, well-drained sandy soils.
- 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:** 4 trials across the following states - ID, WA

## Trial Details

### Locations and Crop Management:

**CROP:** Onion (*Allium cepa*)

**YEARS:** 2019-2020

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

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

### Cropping conditions:

All trials conformed to local cropping practices

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

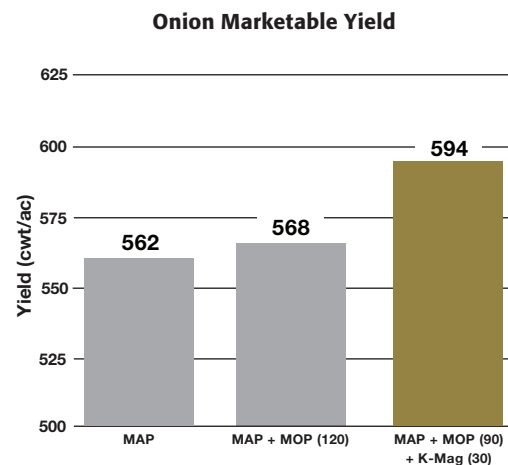
**P Rate:** 100 lbs P<sub>2</sub>O<sub>5</sub>/ac applied as MAP

**K Rate:** 120 lbs K<sub>2</sub>O/ac applied as either MOP or a blend of MOP (90 lbs K<sub>2</sub>O/ac) + K-Mag (30 lbs K<sub>2</sub>O/ac)

**Application Timing:** Preplant

**Application Method:** Broadcast Incorporated

## Results



## Summary

- Addition of MOP increased onion yield 6 cwt/ac compared to MAP only.
- Replacing a small amount of MOP with K-Mag (30 lbs K<sub>2</sub>O) increased onion yield by 26 cwt/ac over MAP + MOP.
- These results demonstrate the value of K, Mg, and S for a balanced crop nutrition program in onions.
- Access additional yield data, technical information, and resources at [KMag.com/Performance](http://KMag.com/Performance).



# 26 cwt/ac

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



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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.

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

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