



Higher yields are available with K-Mag[®] fertilizer



K-Mag benefits

Supplies essential nutrients often overlooked by traditional NPK programs

Virtually 100% water-soluble – K, Mg and S are immediately available to crops

No risk of fertilizer burn thanks to low chloride levels and a low salt index

Helps boost yields without affecting soil pH

Typical broadcast rates are 150-300 lbs/A, but soil analysis should direct usage. Additional K may be required.

Why K-Mag?

The shortage of just one essential nutrient can shortchange rice productivity and profits. Growers can optimize yields and maximize profits by providing a balanced soil fertility program that ensures all 17 essential nutrients are available to plants.

K-Mag fertilizer provides three essential nutrients in the highly available sulfate form. Available in PREMIUM, GRANULAR and STANDARD grades, K-Mag provides 21-22% potassium (K_2O), 10.5-11% magnesium (Mg) and 21-22% sulfur (S).

Also known as langbeinite, potassium magnesium sulfate, or double sulfate of potash, K-Mag is sourced from ore beds deep beneath the earth's surface, where an isolated lake of ocean water once existed. Langbeinite, an evaporite mineral, is one of the most soluble salts in the ocean.

Increase rice yields

Rice production is regarded by some as the single most important economic activity in the world since roughly half of the world's population relies on it as a primary food source. Quality rice production demands balanced nutrient management for maximum yields and disease resistance.

K-Mag provides three essential nutrients critical to rice production:

Potassium (K)

K is a key element of all cereal crops because it impacts grain fill. High-yielding rice cultivars need high K inputs to replenish levels lost during production. A 7,000 lb grain crop can remove 170 lb of K, more than 1.5 times as much as N. K also has a profound effect on increasing resistance to disease and insects. By increasing stem strength and producing healthy leaves, K enhances pest tolerance.

Fertilization Reduces Brown Planthopper (BPH) Infestation

K Applied (lbs/A)	BPH Count Number / Sq Meter*
0	800
33	625
67	580
100	302

*105 days after planting

Magnesium (Mg)

High K rates can inhibit Mg uptake. Mg, the core element in chlorophyll, is at the center of complex nutrient reactions. For instance, Mg promotes phosphorous (P) absorption. Without Mg, chlorophyll does not perform and photosynthesis becomes impossible. As photosynthesis rates decline, so do quality and yield. K-Mag provides a readily available soluble source of Mg, and it supplies K and Mg in the proper balance.

Sulfur (S)

Sulfur is a component of several amino acids and is essential for plant protein formation. S applications have been found to increase plant protein levels, and boost overall yields. A University of Missouri conducted in 2004 showed that S additions numerically increased rice yields. The 2-year average yield for all S treatments was 194 bu/A compared to 185 bu/A for the control. Preplant and pre-flood S treatments had higher yields than for later applications. The study also found that herbicide savings, due to accelerated early plant growth, are possible with preplant and pre-flood S applications.

Ensure your rice crop has all the nutrients it needs to thrive.

Contact us today to learn about adding K-Mag to your balanced soil fertility program!

kmag.com



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