

K-MAG BRIEFS™

Brought to you by IMC Global — Producers of Quality Crop Nutrients

For High-Yielding, High-Quality Soybeans

An excellent 3-in-1 source of K, Mg and S

All nutrients are in the readily-available, water-soluble sulfate form

Does not affect soil pH

Low salt index

More soybeans are grown in the United States than anywhere else in the world. High quality, profitable yields are the product of a well-balanced fertility program, which ensures crops receive an adequate supply of all the essential nutrients.

A product of mineral earth extracted from deep below the New Mexican soil surface, K-Mag is a 100% natural source of potassium (21-22% K₂O), magnesium (10.5-11% Mg) and sulfur (21-22% S) — essential nutrients for crop growth. All the nutrients in K-Mag are in the highly-available, water-soluble sulfate form.

Each nutrient in K-Mag plays a critical role in soybean production:

Potassium (K)

Proper K levels are critical to successful pod formation. Not only does K increase the total number of pods, but it also helps retain pods until harvest. Added K also benefits a plant's water balance, making it better able to withstand periods of drought. As K concentrations increase, transpiration loss of water from leaves decreases.

Magnesium (Mg)

Mg is important, not only for its essential role in photosynthesis, but also as a phosphorous (P) carrier. What's more, recent research indicates that Mg (and S) additions also can improve soybean oil production. However, Mg uptake may be reduced with increased K fertilization, thereby stifling plant productivity. Using K-Mag in a balanced fertilization program helps ensure that K, Mg and S are supplied in the appropriate balance.

Sulfur (S)

S is essential for optimal nodule formation on legume roots. The nodule-forming bacteria help fix nitrogen from the atmosphere so that it can be incorporated into plant proteins. As the backbone of three different amino acids, S itself also is a key constituent in plant proteins, an important contributor to crop quality.

Nutrient Utilization

Yield (per Acre)	N	P ₂ O ₅	K ₂ O	Mg	S
60 bu grain	240	48	84	17	12
Stover	84	16	58	10	13
Total	324	64	142	27	25

As yields increase, soybeans require higher levels of potassium (K), magnesium (Mg) and sulfur (S). K-Mag supplies these three essential nutrients in the highly-available, water-soluble sulfate form.

Summary of K-Mag Benefits

K-Mag is the fertilizer choice that supplies critical nutrients, like Mg and S, often overlooked by traditional N-P-K programs.

Unlike other fertilizers, K-Mag is 100% water-soluble, so nutrients are immediately available to plant roots. Yet, K-Mag Granular dissolves slowly as the plants develop.

K-Mag eliminates any chance of fertilizer burn from its nutrients since its unique traits include low chloride levels and a low salt index.

As a neutral salt, K-Mag boosts yields without decreasing soil pH.

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

If your crop needs a boost in yield and quality, it may be time to incorporate the benefits of K-Mag into your fertilization program. Contact us today to learn more about K-Mag.

