

K-MAG BRIEFS™

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

For High-Yielding, High-Quality Vegetables

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 chloride

Progressive vegetable producers know that quality, in addition to quantity, is key to profit potential. Numerous field trials have shown that a balanced fertilization program increases both the total and marketable yields of vegetables like tomatoes.

A product of mineral earth extracted from deep below the New Mexico soil surface, K-Mag is a naturally-occurring source of potassium (21-22% K₂O), magnesium (10.5-11% Mg) and sulfur (21-22% S) — all essential nutrients for vegetable production. 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 vegetable production:

Potassium (K)

Most vegetables demand high amounts of K for a variety of reasons. K increases root growth and enhances a plant's ability to defend against disease and cold. At the same time, K promotes the formation and translocation of sugars, starches, and proteins that promote high-quality produce.

Magnesium (Mg)

As the heart of the chlorophyll molecule, Mg is necessary for photosynthesis to take place. If photosynthesis is inhibited, plants may mature late and produce inferior fruit. Increased K rates can inhibit Mg

uptake by the plant. Therefore, a proper balance must be maintained between K and Mg. K-Mag supplies these nutrients in the correct balance.

Sulfur (S)

Not only is S necessary to build proteins in plants, it is a key component of

many unique vegetable traits. S puts the "green and leafy" traits into crops like spinach, while giving garlic and asparagus their distinctive flavors. Without adequate S, "hot" mustard or horseradish would not exist.

K₂O Absorption by Several Vegetables

Crop	Yield (cwt/A)	K ₂ O Uptake (lb/A)
Lettuce	400	185
Potatoes	500	546
Table Beets	500	580
Tomatoes	600	336
Onions	600	160
Cabbage	700	249

K not only increases total yield of vegetable crops, but their marketability as well. In fact, K additions can help prevent uneven ripening and irregularly shaped fruit in valuable tomato crops.

Summary of 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 virtually 100% water soluble, so it is immediately available to crops. Yet, K-Mag Granular dissolves gradually.

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

