



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.

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

Why K-Mag?

The shortage of just one essential nutrient can shortchange apple orchard yields and quality. 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 (K₂O), 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 apple yields

Tree nutrition is probably the most important factor in a successful orchard operation. A recent 3-year study on improved apple cultivars in the Pacific Northwest showed a favorable response to the K and Mg in K-Mag. The 3-in-1 nutrient was shown to:

- Improve leaf tissue K concentration
- Increase soil K levels
- Maintain leaf Mg levels
- Increase soil Mg levels
- Increase apple fruit size
- Decrease incidence of disease



Potassium (K)

Apples demand high levels of K. Often called the “quality nutrient,” K puts the crisp in juicy apples by controlling water retention. K also contributes to fruit color, winter hardiness, tree growth and disease resistance.

Magnesium (Mg)

High K inputs can inhibit magnesium (Mg) uptake, and Mg deficiency is becoming more evident in many orchards. Without Mg, plants can't photosynthesize, and important carbohydrates and proteins aren't produced. Mg deficiencies can cause small fruit and premature fruit drop. K-Mag helps supply K and Mg in the correct balance.

Sulfur (S)

S encourages initial root development, increases fruit production, promotes stronger, more robust plants, and helps protect against mildews. The S provided by K-Mag does not lower pH, unlike other S sources.

K-Mag increases available nutrients to Fuji and Spartan Cultivars

	Fuji Leaf K	Spartan Leaf K	Fuji Leaf Mg	Spartan Leaf Mg	Fuji Soil K	Spartan Soil K	Fuji Soil Mg	Spartan Soil Mg
Control	1.44	1.30	0.29	0.36	0.31	0.36	0.39	0.37
107 K from K-Mag	1.56	1.46	0.29	0.35	0.43	0.46	0.51	0.52
214 K from K-Mag	1.61	1.53	0.29	0.36	0.61	0.52	0.73	0.63
Result	Increased	Increased	Maintained	Maintained	Increased	Increased	Increased	Increased

Data collected by orchard field personnel; samples analyzed by the AgriFood Canada Research Station.

Ensure your apple crop has all the nutrients it needs to thrive. Contact us today to learn about adding

kmag.com



The Mosaic Company, 3033 Campus Drive, Plymouth, Mn. 55441

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