

K-Mag AGRI FACTS

Brought To You By IMC — Producers of Quality Crop Nutrients

Balanced Fertilization For High-Yielding, Quality Celery

Whether grown on muck or mineral soils, celery requires a high level of soil nutrients for efficient production. In particular, it is wise to build up levels of phosphate (P_2O_5) and potassium (K_2O) in the soil to high levels and then add moderate amounts of fertilizer each year to maintain those levels.

In addition, the balance of P and K with other nutrients is important. For example, a 30 ton (1,000 crate) per acre crop of celery removes about 200 lb of nitrogen (N), 150 lb phosphate (P_2O_5), 600 lb potash (K_2O), 400 lb calcium and 30 lb of magnesium. To maintain the desired nutrient levels in the soil while producing a 30 ton/A crop, replace nutrients at least at their removal rate.

Keeping Potassium And Magnesium Balanced

Large additions of potassium to celery requires an awareness for the importance of balanced fertilization. One of the main reasons for using K-Mag in celery fertilization programs is to maintain a proper balance between K and Mg in the soil and in plant tissues. It is well documented that large applications of K can restrict plant absorption of Mg. So it is very important — especially under high-yield conditions — to keep these nutrients in balance in order to maximize fertilizer efficiency.

K-Mag Is A Premium Quality Fertilizer

Individual nutrients perform best when properly teamed with other nutrients in a complete fertility program.

K-Mag is an excellent source of sulfur, potassium and magnesium in a water-soluble sulfate form. This 3-in-1 fertilizer is a



combination of readily available sulfur (22% S), potash (22% K_2O) and magnesium (11% Mg).

K-Mag is completely water soluble yet it is in a mineral form which dissolves slowly to resist leaching. It does not change the soil pH, even at high application rates.

K-Mag's low salt index and low chloride content are two additional features attractive to celery growers. Since celery has high nutrient requirements and thus demands heavy applications of fertilizer, growers usually prefer nutrient sources that have a low salt index.

Start Using K-Mag For Better Celery

You can use K-Mag in combination with other fertilizers or apply it directly. The information in Table 1 shows the range of K-Mag rates typically applied and the amount of nutrients supplied at each rate. Your own application rate should be based on crop needs, soil test results, research data, as well as your own yield goals and experience.

Table 1. K-Mag Application.

Rate (lb/A)	Nutrients Supplied (lb/A)		
	K ₂ O	Mg	S
200	44	22	44
400	88	44	88
600	132	66	132