Plant Nutrient Interactions Mulder's Chart



Mulder's Chart shows some of particular nutrient in the soil can interfere with the availability and uptake by the plant of other nutrients. Those nutrients which interfere with one another are said to be antagonistic. For example, high nitrogen levels can the uptake of iron, calcium potash, copper and zinc; high potash levels can reduce the adequate balanced supply of all the nutrients – by the use of phosphorus and potassium in compound fertilisers can induce plant deficiencies of other essential nutrients.

Stimulation

level of a particular nutrient increases the demand by the Increased nitrogen levels create a demand for more magnesium. If more potassium is used – more manganese is required and so on. Although the cause of stimulation is different from that of antagonism, the result is the same - induced deficiencies of the crop if not supplied with a balanced diet. High levels of the herbage reduce an animal's ability to absorb copper into the to be fed or injected with copper Mo/Cu dotted line).



ANTAGONISM

Decrease in availability to the plant of a nutrient by the action of another nutrient (see direction of arrow).

STIMULATION -----

An increase in the need for a nutrient by the plant because of the increase in the level of another nutrient.

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