

# Mulders Chart Nutrient Interaction

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## Mulders Chart Nutrient Interaction

In the soil, nutrients interact with one another leading to changes in availability to plants. The figure below (Mulder's Chart) displays the various interactions that can occur. Antagonism: High levels of a particular nutrient in the soil can interfere with the availability and uptake of other nutrients. For example, high nitrogen levels can reduce the availability of boron, potash and copper; high phosphate levels can influence the uptake of iron, calcium, potash, copper and zinc; high ...

## Mulder's Chart: Nutrient Interactions - NutriAg Group

Source of Chart: NutriAg: <https://www.nutriag.com/> Antagonism. Mulder's Chart shows some of the interactions between plant nutrients. High levels of a particular nutrient in the soil can interfere with the availability and uptake by the plant of other

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nutrients. Those nutrients which interfere with one another are said to be antagonistic.

## **Mulder's Chart of Plant Nutrient Interactions ...**

This is why too much or too little of certain minerals in the soil may interfere with nutrient availability. This is where Mulder's Chart comes in. How to use Mulder's Chart Looking at Mulder's Chart, you can see 11 essential plant nutrients and micronutrients arranged around a circle. Solid and dotted lines connect the nutrients, with arrows heading one way or the other.

## **Mulder's Chart - The Daily Garden**

If we look at a Mulder's Chart, we will see that over application of nitrogen will reduce the plants ability to uptake potash, boron and copper. If you do make the application of N, be sure to address the plants need for the other nutrients. [CLICK HERE to VIEW a Mulder's Chart](#), one is available on our website. If you have any questions about this, please feel free to contact us via email or phone.

## **What is a Mulders Chart? - CultivAce Growth**

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## **Mulders Chart Nutrient Interaction - c2.redeye.se**

Mulder's chart (PLANT NUTRIENT INTERACTIONS) allows us to see the how nutrients in the soil can influence the availability and uptake or each other. Antagonism Mulder's Chart shows some of the interactions between plant nutrients. High levels of a particular nutrient in the soil can interfere with the availability and uptake

## **Mulder's Chart (Nutrient Wheel) | Facebook**

The Mulder's Chart shows how elements interact. The dotted lines show which elements enhance each other. The solid lines show which elements antagonize each other. For example, calcium can cause a magnesium deficiency, while nitrogen can

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solve this deficiency.

## **Interactions between nutrients - CANNA CANADA**

Again, as with an antagonism, the result is an imbalanced nutrient supply causing deficiencies in the growing crop.

Mulder's Chart, shown below, demonstrates just how complex all these soil nutrient interactions can be, and how a comprehensive soil analysis has the greatest potential to reveal hidden nutrient issues.

## **Understanding Soil Nutrient Interactions**

The thicker the bar the more available the nutrient. A lesser known but equally important interaction is the one shown by the Mulder's Chart (Figure 2). The Mulder's chart represents the interaction between 11 of the essential plant elements. Some interactions are positive (synergistic) and others are negative (antagonistic).

## **More reasons for soil testing - MSU Extension**

7-jan-2013 - Mulders Chart of Soil Nutrient Interaction. Mulder's Chart - shows the interaction between minerals.

## **Mulders Chart of Soil Nutrient Interaction**

The mineral wheel illustration is a very useful visualization of the complexity of soil-mineral relationships first promoted by Mulder in 1953. It is a diagram showing how the levels of soluble/interactive minerals in the soil affect their uptake and utilization by plants. Though the mineral relationships it depicts are complex, it is actually a simplified version of the many complex relationships between soil minerals.

## **Mineral Wheel - Earthwise Agriculture**

Above is Mulder's Chart. There are other versions which cover more of the micronutrients but this one covers the essentials. The arrows point to which one is affected, while green means synergy and blue is antagonism. Note: not all lines go both ways.

## **Mulders Chart, Nutrient Synergy and Antagonism ...**

Mulder's Chart (above) helps to simplify understanding the interactions between plant nutrients. Some elements work in

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synergy. They stimulate the uptake of other elements and increase their availability while some elements are 'antagonistic'. They interfere with the uptake or availability of other nutrients.

## **Plant Nutrient Interactions | Hydroponics**

Mulder's Chart, shown below, demonstrates just how complex all these soil nutrient interactions can be, and how a comprehensive soil analysis has the greatest potential to reveal hidden nutrient issues. Understanding Soil Nutrient Interactions The Mulder's chart represents the interaction between 11 of the essential plant elements.

## **Mulders Chart Nutrient Interaction - modapktown.com**

Mulder's Chart Manganese (Mn) Potash (K) Decreased availability of a nutrient to a plant due to the action of another nutrient High level of a nutrient increases the demand by the plant for another nutrient Copper (Cu) Iron (Fe) Phosphate (P) Magnesium (Mg) Molybdenum (Mo) Boron (B) Zinc (Zn) Nitrogen (N) Figure 1.

## **NUTRIENT ANTAGONISM RX**

The chart below developed by D. Mulder demonstrates the effect that elements have on nutrient availability. Some nutrients interfere with the availability or uptake of another which is called antagonism. In Mulder's chart, the lines coloured green indicate an antagonistic relationship between each connecting element.

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