



# Fertilization Manager

A comprehensive  
overview of  
your soil

Testing for Life

[soil-health-solutions.com](http://soil-health-solutions.com)



# Fertilization Manager

## Holistic soil analysis, with fertilization guidelines.

In Fertilization Manager you will find an overview of:

- Physical, biological and chemical characteristics, as well as carbon characteristics.
- The essential main and micronutrients.
- Plant available nutrients, soil stock nutrients, as well as the supply capacity are given.
- The crop-based fertilizer recommendation is displayed as an annual application. It is available for over 300 crops and, if known, also for specific crop varieties.
- The soil-based fertilizer recommendation is designed to improve or maintain soil nutrient status, thereby improving the yield potential of the field.

There are soil-based recommendations for the nutrients P, K, Ca and Mg and for organic matter, pH and soil structure.

- Fertilization Manager can be used for grassland, maize land, arable land, field vegetables, fruit growing, bulb cultivation and tree cultivation; in short: for all open cultivation.
- Fertilization Manager reports the analysis results in kg per ha in the sampled layer.

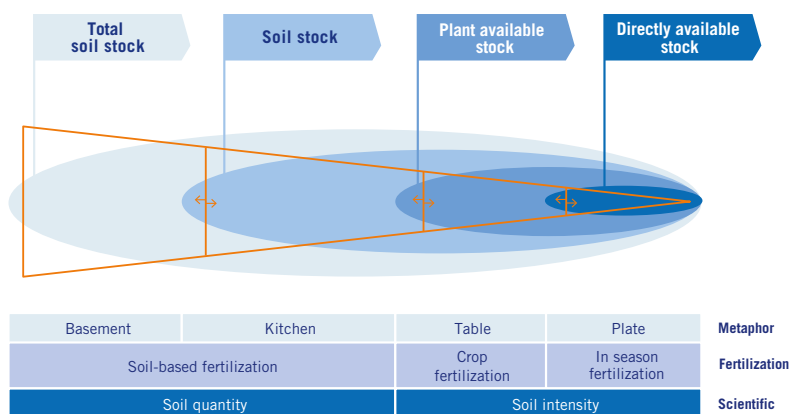
### Infographics

In addition to the fertilization advice, Fertilization Manager offers infographics about:

- The organic matter balance: how to maintain and improve the level of soil organic matter.
- The quality of the organic matter.
- The soil type (texture triangle), both for peaty soil (peaty sand / clay and clay peat and peat) and for mineral soils (sand / clay / loess).
- Guidelines for improving soil structure (soil structure triangle).
- The water holding capacity of your soil: a pF curve with information about the maximum irrigation for your crop.

### Are the nutrients available to the crop?

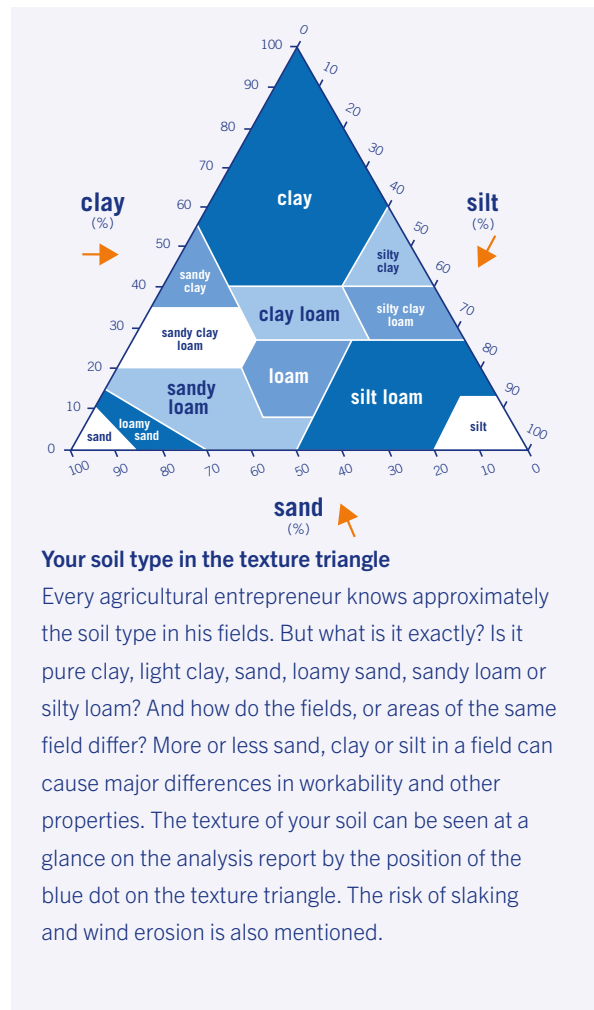
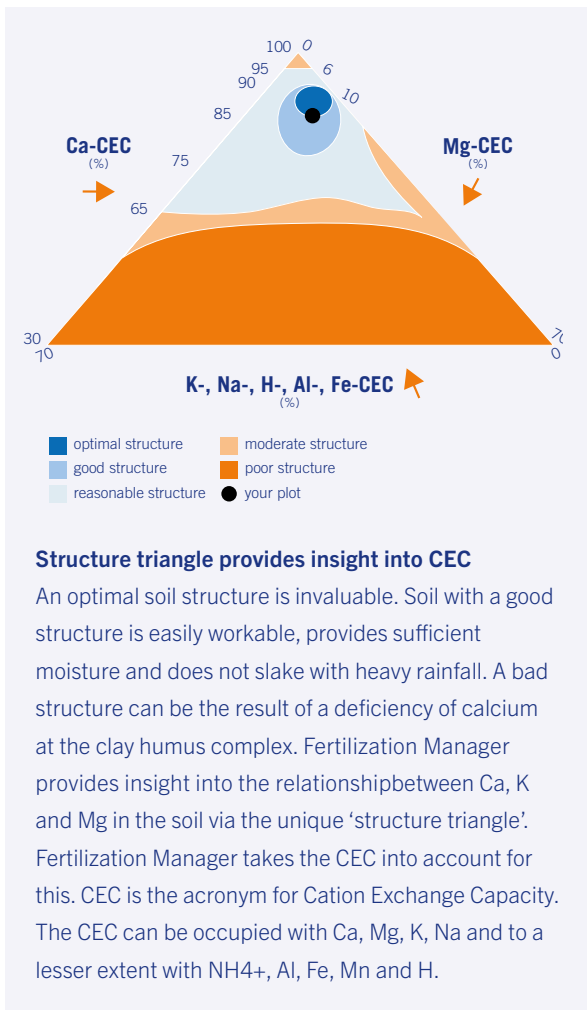
To give more insight into the functioning of the soil, Eurofins reports on different soil nutrient fractions. The food can be present on the plate (directly absorbable), on the table (available), in the kitchen (soil stock) and in the basement (total soil stock).



### The quantity and quality of the organic matter

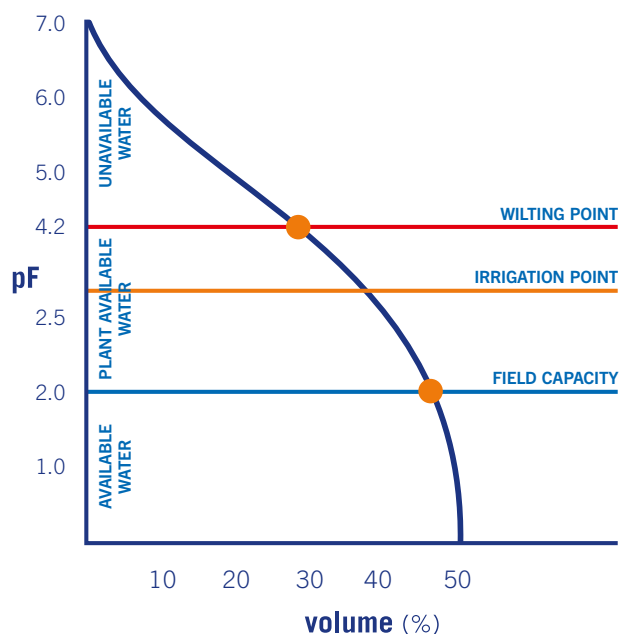
Fertilization Manager reports on soil organic matter (SOM). An improved SOM status will reflect in improved soil workability, less risk of erosion and soil slaking, and more supply of cations like K, Mg and Ca. Part of its benefit comes from its breakdown; soil organic matter is food for soil life and through mineralization N, S and some P will become plant available. Soil organic matter consists mainly of C, N, S and P. More carbon (C) in the soil, means less carbon in the atmosphere (CO<sub>2</sub>). Improved soil carbon status will slow down climate change according to the Paris Climate Agreement (2015).





### Calculate the maximum irrigation for your crop

During spells of dry weather, field irrigation can provide a solution. This prevents growth retardation and yield loss. However, irrigation is very expensive. The pF curve is a unique tool to improve the efficiency of irrigation, on a field by field basis. Using the pF curve, you can calculate how many millimeters of irrigation are required. If you irrigate more than is required, the water will drain from the field or seep to deeper layers where it cannot be easily accessed by your crop. This can also cause environmental problems, as nutrients and chemicals can then enter local water systems. By comparing the pF curves of different fields you can see which fields are the most drought-sensitive. The result is that you will save water and fuel and protect the environment.

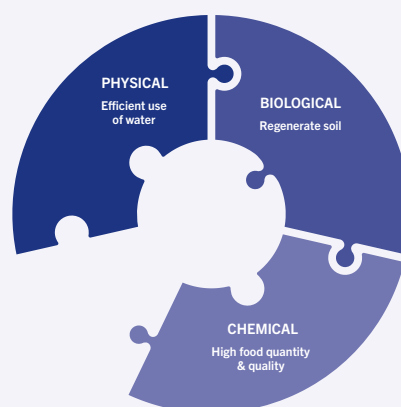




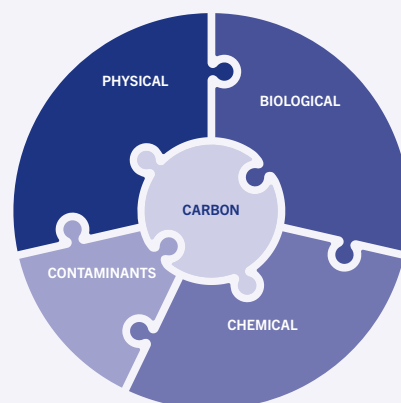
Chemical	Physical
<b>Macronutrients</b>	
<ul style="list-style-type: none"> <li>• N-total</li> <li>• C/N-ratio</li> <li>• N-supplying capacity</li> <li>• S-total</li> <li>• C/S-ratio</li> <li>• S-supplying capacity</li> <li>• S-available</li> <li>• P-stock (P-AI)</li> <li>• P-available</li> <li>• K-stock</li> <li>• K-available</li> <li>• Mg-stock</li> <li>• Mg-available</li> <li>• Ca-stock</li> <li>• Ca-available</li> <li>• Na-stock</li> <li>• Na-available</li> </ul>	<ul style="list-style-type: none"> <li>• pH</li> <li>• Organic matter</li> <li>• Organic carbon</li> <li>• Carbonated lime</li> <li>• Risk of soil slaking</li> <li>• Crumbling</li> <li>• Risk of soil erosion</li> <li>• CEC</li> <li>• Ca-saturation%</li> <li>• Mg-saturation%</li> <li>• K-saturation%</li> <li>• Na-saturation%</li> <li>• H-saturation%</li> <li>• Al-saturation%</li> <li>• CEC-saturation%</li> </ul>
<b>Micronutrients</b>	<b>Biological</b>
<ul style="list-style-type: none"> <li>• Si</li> <li>• Fe</li> <li>• Zn</li> <li>• Mn</li> <li>• Cu</li> <li>• Co</li> <li>• B</li> <li>• Mo</li> <li>• Se</li> </ul>	<ul style="list-style-type: none"> <li>• Microbial biomass</li> <li>• Microbial activity</li> <li>• Fungal-to-bacteria ratio</li> </ul>
<b>Infographics</b>	<b>Recommendations</b>
<b>Texture triangle</b>	• Soil-based fertilizer recommendations
<b>Structure triangle</b>	
<b>Organic matter balance</b>	• Crop-based fertilizer recommendations
<b>Organic matter quality</b>	
<b>pF-curve</b>	

## Soil life parameters

The biological component relates to the diversity, abundance and interactions of living organisms in the soil. These determine nutrient transformations, the disease suppressive capacity of the soil, and the organic matter content. A healthy soil contains millions of micro-organisms, such as fungi and bacteria. With Fertilization Manager we measure the microbial biomass, microbial activity and fungal-to-bacteria ratio.



Fertilization Manager provides insight in the chemical, biological and physical aspects of soil.



Fertilization Manager is part of the Soil Health Solutions from Eurofins. Providing insight into optimal soil health, including water holding capacity, soil biodiversity, essential nutrients, carbon storage and potential pollution.