

Current Nutrient Supply

How much fertilizer should be bought? Should the fertilizer act alkaline, neutral or acidic? These questions arise in every agriculturist annually. Due to rising prices for fertilizers these questions become increasingly important. The survey program Current Nutrient Supply ascertains the current nutrient supply and helps to optimize the fertilization strategy.

If the survey works out a shortage (macro nutrients and trace elements) the recommended input is declared. For this declaration the real differences of existing and required nutrient quantities are calculated and used, not the content classes.

Special consideration is given to nutrient ratios. The ratios of Ca to Mg to K to Na are more important for soil fertility than their respective absolute contents. With the survey program Current Nutrient Supply we inform you about the measures to take to preserve soil fertility, if the nutrient ratios are divergent from optimum.

Range of Parameters:

Basic Parameters:

Soil Texture (KH), Coloration, Turbidity, pH_{Water}, pH_{KCl}, Electrical Conductivity (eC), Lime Content, C_{org} (=Soil organic Matter), organic Nitrogen, Cation Exchange Capacity (CEC_{pot}, CEC_{act}).

Elements in the Water Extract:

Ca, Mg, K, Na, NH₄-N, NO₃-N, Al, Ba, P, Si, SO₄, Cl, Fe, Mn, Cu, Zn, Co, Mo, B, As, Ni, Cr, Pb, Cd, Tl, V.

Elements in the Exchanger Extract:

Ca, Mg, K, Na, NH₄-N, Al, Ba P, Si, Fe, Mn, Cu, Zn, Co, Mo, B, As, Ni, Cr, Pb, Cd, Tl, V.

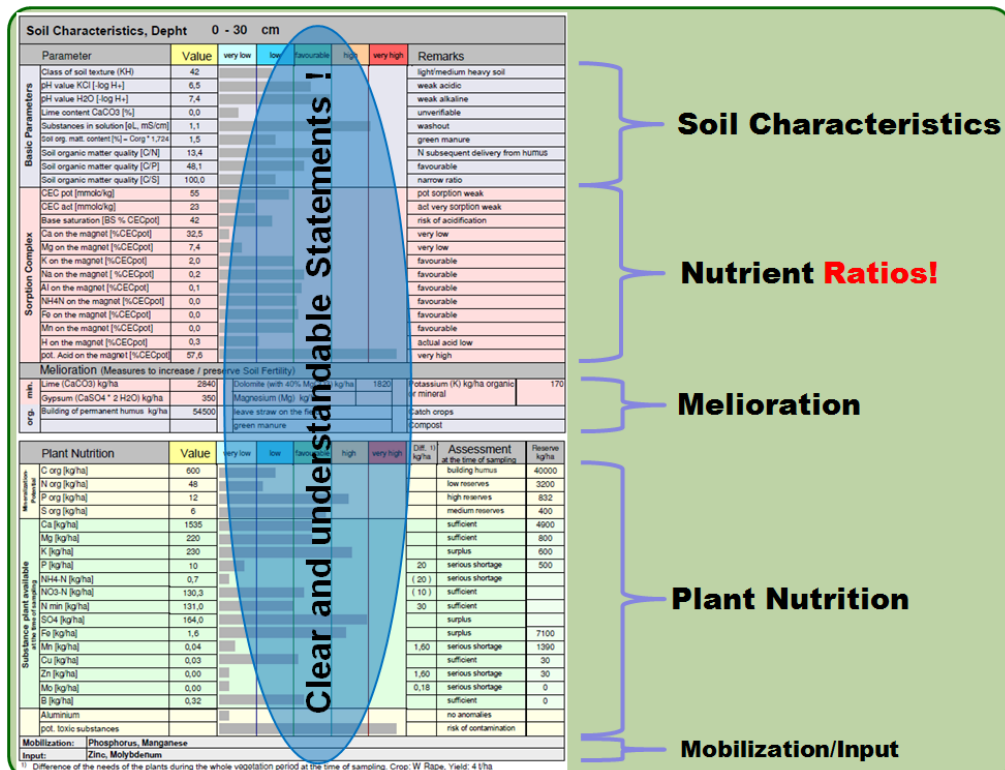


Figure: Survey Parameters „Current Nutrient Supply“