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REPEATED TESTING OF SOIL FACTORS AFTER LIMING OF 52 DIFFERENT SOIL TYPES IN THE SOUTH OF SWEDEN 2009-2014

ABSTRACT

The background of this research project was a previous investigation in the sugar beet growing area showing that many soils are suboptimal in pH, resulting in reduced growth and yield. The aim of this new research project was to improve the nutritional status of the soils and develop specific liming recommendations for different soil types.

During 2009-2011, 52 different soil types in the south of Sweden were limed with factory lime or lime stone meal. The soils were limed in the autumn before sugar beets. In the following three years, a soil sample was collected every spring in the plots. The soil samples were analysed for pH and soluble nutrients Ca, Mg, P and K by extraction with ammonium lactate.

The yearly changes in soil factors will be presented for the different soil types. Implications for new liming recommendations will be discussed.
