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NISKANEN, RAINA, Nutritional status in commercial currant fields

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Abstract

The nutritional status on commercial currant fields was elucidated by advisory analytical data of 357 pairs of soil and leaf sc commercial black, red and white currant fields in Southern and Middle Finland. The purpose was to investigate how nutrient comsoil and leaves fitted in the recommended ranges, correlated with each other and to evaluate their usefulness in diagnosis of r status. Soil pH(H 2 0) and extractable nutrients (NO 3 -N, P, K, Ca, Mg, B, Cu, Mn) and leaf nutrients (N, P, K, Ca, Mg, B) we mean soil pH, P, K and Mn were in the recommended ranges. Over 50% of soil P and 60% of Mg results and the greatest part of Ca below the lower recommended limits, but soil B and Cu were frequently over the upper recommended limits. The mean leaf N, P and currants, Mg on black and red currants and Ca and B on black currant were within the recommended limits. The lower recommended passed below in 74% of white currant leaf samples. Positive correlations were found between soil and leaf nutrient concentration and Mg. The recommended lower soil analysis limits might possibly be too high for coarse soils, because low values of soil P, I common. The nutrients also might not be evenly distributed in the sampled soil layer but might be accumulated in a thin surface because of repeated surface broadcasting of fertilizers.

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[Full text] (PDF 226 kt)

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