

Nutrient status of the American cranberry in Latvia (2005–2015)

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The American cranberry (*Vaccinium macrocarpon* Aiton) is an evergreen groundcover plant native to North America. Nowadays cranberries are successfully cultivated in Latvia with total plantings of more than 100 ha. Being a native wetland plant, cranberries are considered as nutrients low requiring crop; however, balanced mineral nutrition is one of the key factors that determine plant growth and yield development. Together 200 plant samples were collected from different cranberry producing sites in Latvia over period: 2005–2015. Cranberry tissue analyses were used as diagnostics method to control plant nutrient (N, P, K, Ca, Mg, S, Fe, Mn, Zn, Cu, Mo and B) status. The obtained results revealed notable nutrient imbalance in the years of the study. Deficiency of N, P, S, Fe, Cu and Mo, and high level of Mn was found in the majority of samples analysed. In general, positive tendencies were stated for nutrient supply of cranberries from 2005 to 2015. Mean nutrient concentrations of N, P, K, Ca and S become more corresponding to tissue standards.

Keywords: mineral nutrition, plant analysis, *Vaccinium macrocarpon* Aiton