

SWEET POTATO PRODUCTION ON ALLUVIAL SOIL WITH HIGH CLAY CONTENT

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Abstract. *The comprehensive goals of our research program are to develop the domestic production technology and to examine the possibilities of the utilization of sweet potato. In 2016 we set up a production technology experiment of four repetitions in randomized block design on clay loam soil in Deszk, Hungary. The storage root yields of plants developing from cuttings derived directly from sprouting storage roots (primary cuttings) and from the sprouting of primary cuttings (secondary cuttings) did not show significant differences. On hectare level, however, the differences can reach even as much as 10 tons. The evaluation of the effects of different nutrient doses on the storage root yields did not show significant differences. The reason can be the good nutrient supply of the soil of the experimental fields. Despite the heavy soil where usually ridge planting is preferred, the comparison of planting on ridges and flat proved the production technology without ridges being more effective here.*

Keywords: *Ipomoea batatas*, sweet potato, production technology

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