

CHANGES IN PHYSICO-CHEMICAL PROPERTIES OF SPodosol UNDER DIFFERENT SOIL MANAGEMENT

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The results of the studies of native and agricultural Spodosols under different management are presented in the paper. Soil samples were collected at the Leningrad Agricultural Institute (Belogorka, Leningrad region) and Novgorod Agricultural Institute (Borki, Novgorod region). Thirty three soil profiles were described at different locations (arable, allotment, greenhouse, lay, grassland forest).

It was shown that the ploughed layers of arable soils in Novgorod region had higher acidity and low levels of nitrate-nitrogen. In general most of the studied soils in Novgorod region had lower level of soil fertility under all studied managements than the soils of Leningrad region.

Keywords: Spodosol, water-soluble nitrogen, actual acidity, agricultural soils.