

# SOIL-ECOLOGICAL CONDITIONS OF RECLAIMED AND UNIMPROVED AGRICULTURAL LANDS OF “BUGRY” FARM

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A field survey of three soil types differing in hydromorphism degree, on reclaimed lands and unimproved areas of "Buggy" farm (Leningrad region) has been made. Morphometric study and morphological description of the soil profiles has been conducted. Soil physical properties and parameters, including hydrological constants, were measured. The experience of practical application of the substantively-genetic classification of soils, published in 2004, is described. The soil names are given according to this new soil classification. Evaluation and comparison of the productivity of the soils was done using the soil-ecological indices. To calculate the soil-ecological indexes the information on agrophysical properties and soil parameters was used.

*Keywords:* soil agrophysical properties, land assessment, soil and environmental indexes, soil fertility