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Appreciation and influence the degree of soil erosion on the physical and chemical properties of soil in rural areas of the republic of Moldova

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The purpose and tasks of research are the appreciation and influence the degree of soil erosion on the physical and chemical properties of common chernozems. Necessary investigations were carried out by taking soil samples from the territory of Negrea commune, Hincesti district. In this paper we argue the content of the granulometric fractions, the apparent density, the values of the hygroscopicity coefficient, the coefficients of wilting, the humus content, the carbonates, the pH, the nitrogen, the phosphorus, the potassium and their distribution on the soil profile. From the analysis of the data obtained in the laboratory on the dynamics of the physical and chemical properties of the investigated soils, it is noted that a significant quantitative and qualitative differentiation occurs, depending on the degree of erosion. Research conducted in the rural area of the Republic of Moldova showed that the physical and chemical properties of chernozems with different degrees of erosion are more strongly influenced by erosion. This means that in order to obtain adequate yields on eroded soils, it is necessary that the improvement works be directed first of all to the improvement of the physical and chemical properties and then to the other.