

UDK 631.41:631.445.4 (477.7)

COMPARISON OF THE GRANULOMETRIC AND MICROAGGREGATE COMPOSITIONS OF CHERNOZEM ORDINARY ON WATERSHED AND SLOPE

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The purpose of research is to evaluate the particle size distribution (PSD) and microaggregate composition of chernozem ordinary. For this was laid two sections in Mykolaiv region (south part of Ukraine, Steppe zone): in the watershed and on the slope of west exposure. From each section selected 12 soil samples (every 10 cm) for further determination of their PSD and microaggregate composition of the soil, as defined methodology conducted by N. Kaczynski pipette method.

In addition, on the basis of particle size analysis and microaggregate studied soils were calculated following indicators: dispersion factor of Kaczynski; structuring factor of Fageler; the degree of aggregation of Baver and Rhoades; coefficient of the microaggregation of Dimo.

Determined lowering of silt and clay fraction (<0.01 mm) content within layer 0-30 cm as a result of surface washing on the eroded slope soil in comparison with the not eroded one. In addition, eroded soil has less water resistant microstructure, although the coefficient of the micro aggregation eroded soil is higher than not eroded.

Key words: *particle size distribution (PSD); microaggregate composition; slope soil; chernozem ordinary.*

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СРАВНЕНИЕ ГРАНУЛОМЕТРИЧЕСКОГО И МИКРОАГРЕГАТНОГО СОСТАВА ЧЕРНОЗЕМА ОБЫКНОВЕННОГО НА ВОДОРАЗДЕЛЕ И СКЛОНЕ

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Определены гранулометрический и микроагрегатный состав чернозема обыкновенного легкоглинистого в профилях двух разрезов, заложенных на водоразделе и на склоне западной экспозиции. Выяснили, что в результате смыва количество фракций ила (<0,001 мм) и физической глины (<0,01 мм) в слое почвы 0-30 см на склоне, где проявляются эрозионные процессы, меньше по сравнению с водоразделом. Кроме того, микроструктура эродированной почвы на склоне менее водоустойчива и потому почва более склонна к разрушению вследствие проявления эрозионных процессов, хотя коэффициент микроагрегации эродированной почвы выше чем неэродированной.

Ключевые слова: *гранулометрический состав; микроструктура; склоновая почва; чернозем обыкновенный.*