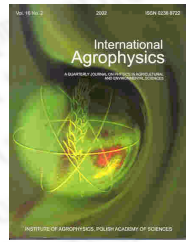




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Characterisation of soil aggregate stability by ultrasonic dispersion

(get PDF )

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abstract Ultrasonic soil aggregate stability (USAS) of 5 European soils was determined in ultrasonic dispersion tests, studying mass fractions of macroaggregates at different absorbed specific energy levels. The parameter %USAS (1.95 J ml<sup>-1</sup>) was determined using the mass fraction of macroaggregates (2000-200 μm) at absorbed specific energy 1.95 J ml<sup>-1</sup>, the respective mass fraction prior to sonification and the mass fraction greater than 200 μm after chemical dispersion. Soil aggregate stability determined by the method of wet sieving (%SAS) served for comparison.