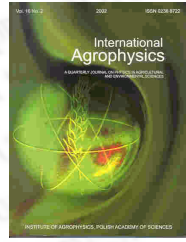




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Application of SLEMSA and USLE erosion models for potential erosion mapping in south-eastern Nigeria

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abstract Assessment of potential soil erosion aids in detailed farm plan management. Two potential erosion hazard maps of Anambra and Enugu Nigeria were developed by the application of SLEMSA and USLE erosion purpose was to ascertain which of these models is more applicable to the area. Information was obtained from the soil map of the area, topographic maps at 1:50 000, aerial photographs, and rainfall data. In each case five erosion hazard units were developed. For the SLEMSA the erosion hazard unit (EHU) categories were: very slight (<100), moderately high (101-250), high (251-500); very high (501-1000) and extremely high (>1000). The USLE model is categorized into very slight (<50 Mg/ha)