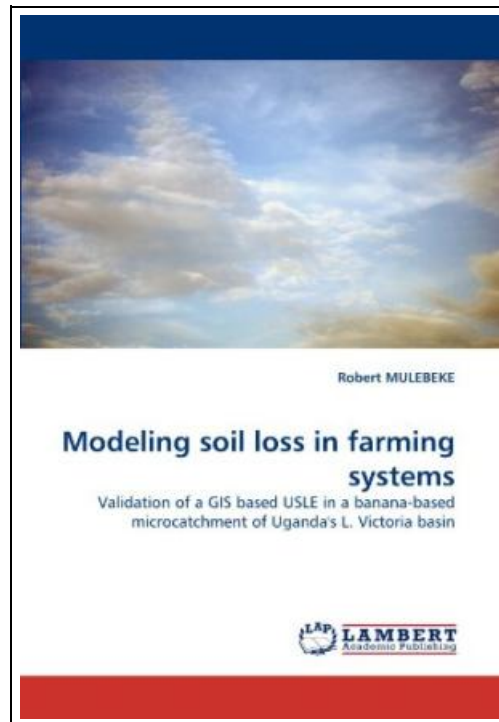


Modeling soil loss in farming systems



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MODELING SOIL LOSS IN FARMING SYSTEMS



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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Validation of a GIS based USLE in a banana-based microcatchment of Uganda's L. Victoria basin | Soil erosion is a wide spread phenomenon in Uganda's Lake Victoria Basin (LVB). Choice of appropriate conservation practices depends on accurate quantification of the magnitude of damage. Variability across a toposequence on catchment level makes assessment studies technically difficult and economically not feasible. However, Geographical Information Systems (GIS) can capture spatial variability. A GIS-based Universal Soil Loss Model was initialized and used in this study to; 1) validate the predicative capacity of the initialized GIS USLE model across the major land uses and soil types in the microcatchment, 2) Quantify the on-site damage in terms of soil loss, soil structure deterioration and nutrient loss. Run-off plot approach was used to collect runoff and sediment for soil and nutrient loss quantification. USLE parameters were obtained from: mean annual rainfall, soils map, Topomap, aerial photographs and satellite images using modeling operations in ILWIS. Applicability of the GIS-based USLE was demonstrated but calibration is essential. Land use had stronger influence on soil loss than slope. | Format: Paperback | Language/Sprache: english | 72 pp.



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