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The paper attempts to develop a finite element model for simulating runoff and soil erosion on mechanically treated agricultural lands, validate the model under field conditions and evaluate the effect of soil, topographic, climatic and landuse parameters on runoff and sediment yields. The model has been validated with field data. The sensitivity analysis for conservation bench terrace system has been carried out. Application of the model as a planning tool for soil conservation and impact of landuse changes on runoff and soil erosion