

Catchment modelling for planning use of land and water resources in semi-arid areas

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Catchment models provide important planning tools that can be used in management of land and water resources. Models can be used in the understanding of dynamic processes and to predict the rates of these processes thereby providing tools for land use planning. This is very important in semi-arid areas where it is difficult to obtain relevant data over a short period such as rainfall, which tends to be irregular and erratic both spatially and temporally. This paper presents a single soil layer model that can be applied in semi-arid catchments for predicting rates of runoff and sediment yield.