

Climatic change influences of the in the production of silts in mountains basins. Argentina.

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This research analyzes the quantification of the silt production by superficial water erosion in the Bermejo River, located in the northwest of Argentina (Salta and Jujuy counties) and in south of Bolivia (Tarija department), extending in an area of 50 550 Km². Starting from the estimate of the production of silts in the current situation of the basin, the possible incidence is studied that will have in the quantities of generated silt, futures climatic changes that affect the precipitation and temperature variables. The socioeconomic scenario is analyzed from to 2080. The methodology of Gavrilovic is used - Modified that is the method that better is adjusted for the quantification of silts in basin of high mountain and great extension. This methodology was implemented using a system of geographical information as calculation tool. The obtained results show that in the future the silt production for superficial water erosion will increase progressively, being accentuated with more importance.

KEY WORDS: Production of silts, superficial water erosion, climatic change