

Study of bed load transport in Mina wadi and its impact on Sidi M'hamed Ben Aouda dam sedimentation, Wilaya of Relizane

Among the problems raised by sediments transports in the watersheds, we can mention sedimentation of dams. In Algeria, the sedimentation reaches very high volumes and raises therefore serious problems. This phenomenon is mainly caused by the high rate of erosion on the watershed of these dams and by underestimation of sediments quantities that may collect.

Generally speaking, sediment transport measurement is restricted to suspension, from which the bed-load material is estimated as a percentage (%).

The example of Mina wadi watershed allows us to develop the quantification by regression which is a simple and cost-effective statistical method. This will be used as a tool to estimate the forecasts of Sidi M'hamed Ben Aouda dam sedimentation.