Abstract

Check the amount of sediment is one of the most important issues and problems in the watershed of the river engineering is that the specialists and engineers faced the blue boat Designer, knowledge of materials and examination of any component data required primary water project. To estimate the amount of suspended load several relationships, but the complexity of the migration phenomenon has caused deposits sometimes results obtained far from expected. Estimation of suspended load caused incorrect drawing of low, many of the water utility. According to scholars, researchers, and this is a party for the improvement of the method to estimate the load suspended examination have been suggested to be suspended once more with the accuracy of an estimate. One of the common approaches in estimation of suspended sediment hydraulic methods are provided by experts of the science of hydraulics is recommended.

Hydraulic load estimation method for hanging more realistic estimates than to provide hydrological methods because the geometric and hydraulic parameters, are included morphology of the river.

In the present research the six methods such as Einstein, Bagnold, Chan-Simons Richardson, Lane and kalinske,Van Rijn, Brooks on hydrometric stations Idenak and Tang Tokab of Maroon River located in Kohgiluyeh and Boyer-Ahmad for ١٤٤ monthly statistical period were evaluated.

Then compare the relative error percentage, the root mean square error, than standard public discrepancy, sediment load, standard error, coefficient of mean square error, index yielding and correlation coefficient, is the most appropriate method. The above method a lot of error showed that in this regard to any procedure to minimize the estimation error correction factor was applied to one.

Finally the correction method of lane and Kalinske to be the best method of suspended sediment load in the estimation of the hydraulic station was selected for Tang Tokab and Idenak station of any acceptable approximation methods of calculation were not suspended.

Key words: hydrometric stations, suspended load, hydraulic methods, evaluation, verification

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Evaluation of the Hydraulic Methods for Predicting Suspended Sediment Load (Case Study: Maroon River)

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