

Simplified method of sediment monitoring and estimation: A case study of the Narayani River

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ABSTRACT:

A simplified method of sediment monitoring and estimation considered here is based on easily available inexpensive equipment and minimum level of training. Sediment samplings were carried out both by standard and simplified methods. A sediment rating curve was obtained by establishing a relationship between bank sediment concentration (simplified sampling) and mean sectional sediment concentration (standard samplings) sampled at different water level stages. The simplified method of sampling was found satisfactory, and hence, could be used for long-term monitoring and estimation of sediment in difficult conditions where standard equipment and skilled human resources are not available. A sediment rating curve for the Narayani River shows a good correlation over a range of values obtained during the monitoring period.

Keywords: sediment, concentration, simplified sampling, sediment rating curve
