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Estimation Of Annual Suspended Sediment

Similar estimates of the 5-year average of annual SS yield were obtained from the $SSC - Q$ equation and the $\sum SS - \sum Q \times AR$ equation. However, in 2003, the difference in the annual SS yield estimated by those two equations was no less than 219 kg ha⁻¹ year⁻¹ (Table 1).

Estimation of annual suspended sediment yield from a ...

County. Annual suspended-sediment fluxes were estimated from 1931-95 for the Arkansas River at Tulsa streamflow-gaging station (07164500) and from 1973-82 for the Arkansas River near Haskell streamflow-gaging station (07165570). The annual flow-weighted suspended-sediment concentration decreased from 1,970 milligrams per liter to 350 milligrams per liter after the completion of Keystone Dam at the Tulsa

Estimation of Annual Suspended-Sediment Fluxes, 1931-95 ...

The annual flow-weighted suspended-sediment concentration decreased from 1,970 milligrams per liter to 350 milligrams per liter after the completion of Keystone Dam at the Tulsa station.

Estimation of Annual Suspended-Sediment Fluxes, 1931-95 ...

A positive relationship between observed yearly discharge and suspended sediment load was found. Land use maps with 100 meter spatial resolution were used to apply an empirical model and develop a regression model for estimating annual suspended sediment loads directly from land use and hydrologic data.

Statistical analysis and estimation of annual suspended

...

Land use maps with 100 meter spatial resolution were used to

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apply an empirical model and develop a regression model for estimating annual suspended sediment loads directly from land use and hydrologic data. Rivers were assigned to three groups according to statistical cluster analysis of suspended sediment (SS) concentration.

Statistical analysis and estimation of annual suspended

...

Estimation of Annual Suspended-Sediment Fluxes, 1931-95, and Evaluation of Geomorphic Changes, 1950-2010, in the Arkansas River Near Tulsa, Oklahoma: Usgs Scientific Investigations Report 2011-5091: Lewis, Jason M, Smith, S Jerrod, Et Al: Amazon.nl

Estimation of Annual Suspended-Sediment Fluxes, 1931-95 ...

The annual flow-weighted suspended-sediment concentration decreased from 1,970 milligrams per liter to 350 milligrams per liter after the completion of Keystone Dam at the Tulsa station.

Estimation of annual suspended-sediment fluxes, 1931-95

...

The annual suspended sediment yield of the Du catchment varied between 4 and 332 kg s⁻¹, and that of the sub-catchment varied between 2 and 135 kg s⁻¹.

Estimation of annual suspended sediment yield from a ...

Such plantations are vulnerable to surface erosion triggered by rainfalls, and could yield large amounts of suspended sediment (SS). However, few studies have investigated the annual SS yield. This study aimed to develop a modified model of SS yields, and to accurately estimate and characterize the annual SS yield from a Japanese cypress ...

Estimation of annual suspended sediment yield from a ...

Frost and Mansue (1984) estimated suspended-sediment discharges for 12 streams in Illinois using the hydrograph-shifting method with 2 yr of daily-fl ow and suspended-sediment record. Estimates of monthly and annual suspended-sediment dis- charges ranged from 16 to 326% and 41 to 136%, respec-

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tively, of measured values.

Estimating Sediment Discharge - USGS

Warrick et al. (2004) observed for the Santa Clara River that more than half of the annual sediment load is carried during the top 1–5 days of flooding. The estimation of suspended sediment concentration and subsequent load estimation is usually done with rating curves between sediment concentrations and discharge.

Estimation of local extreme suspended sediment ...

Daily suspended sediment loads were calculated using the estimated daily SS concentrations and the average daily flow records and then aggregated by month (Figure 5). The R software package loadflex was used to estimate daily SS concentrations and monthly/annual SS loads using both ADF and turbidity data as covariates (Appling et al., 2015).

Estimation of Suspended Sediment Concentrations and Loads

Detailed Description. Estimated Annual Yields of Suspended Sediment at Nine U.S. Geological Survey River Input Monitoring Stations. Details. Image Dimensions: 740 x 565

Estimated Annual Yields of Suspended Sediment

Estimation of annual suspended-sediment fluxes, 1931-95, and evaluation of geomorphic changes, 1950-2010, in the Arkansas River near Tulsa, Oklahoma (DLC) 2011459086 (OCOLC)743211567: Material Type: Document, Government publication, National government publication, Internet resource: Document Type: Internet Resource, Computer File

Estimation of annual suspended-sediment fluxes, 1931-95

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ARS mean annual total suspended sediment yield was 54.0 MT over the period 1996 to 2010. During the period, total suspended sediment yield varied between 26.0 MT (2006) and 88.0 MT (1998) (Figure 4).

Estimation of sedimentation rates in the distributary ...

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Streamflow, nutrient, and sediment concentration data needed to estimate long-term mean daily streamflow and annual constituent loads were compiled from Federal, State, Tribal, and regional agencies, universities, and nongovernmental organizations. The streamflow and loads are used to develop Spatially Referenced Regressions on Watershed Attributes (SPARROW) models.

Estimates of long-term mean daily streamflow and annual

...

Spatially Referenced Regression On Watershed attributes (SPARROW) models were applied to describe and estimate mean-annual streamflow and transport of total nitrogen (TN), total phosphorus (TP), and suspended sediment (SS) in streams and delivered to coastal waters of the southeastern United States on the basis of inputs and management practices...

SPARROW modeling: Estimating nutrient, sediment, and

...

estimate long-term mean annual end-of-valley and in-stream sediment loads. Due to lack of appropriate data, very little work has been done to test the accuracy of model predictions in Queensland catchments. The objective of this study is to compare mean annual total suspended sediment (TSS) load data estimated from rating curves with predictions of

Comparison Of Mean Annual Suspended Loads Estimated By The ...

Accurate measurement and estimation of suspended sediment transport is dependent on the timing and frequency of data collection. It is common in streams and rivers for most of the annual suspended sediment to be transported during a few, large runoff events.

Turbidity-controlled sampling for suspended sediment load ...

Hydroclimatic forcing was interpreted by the novel CliSMSSL (Climate-Scale Modelling of Suspended Sediment Load) model to estimate annual sediment loads. We used annual data on suspended-solid loads monitored at an experimental station from

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1987 to 2001 and on monthly precipitation data.
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