

# Watershed Prioritization Using Sediment Yield Index Model

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### Watershed Prioritization Using Sediment Yield

#### **PRIORITIZATION OF MICRO- WATERSHEDS**

watershed Prioritization of watersheds using remote sensing data by sediment yield prediction has been carried out by Chakraborti (1991) Site location for check dam construction by studying runoff in part of Mahi River has been carried out by Durbude et al (2001) GIS ...

#### **Sediment Yield Estimation for Watershed Management in ...**

watershed is its Sediment Yield The sediment yield process can be divided into upland and lowland phases The sediment detachment process predominates in the upland phase whereas sediment transport and deposition are the main processes in the low land phase [1] During recent times,

#### **Prioritization of watershed through morphometric ...**

using the sediment yield index (SYI) model and morpho-metric analysis using GIS Gajbhiye et al 2014b carried out a study on prioritization of watershed through SYI using RS and GIS approaches Morphometric analysis and prioritization of eight sub-watersheds of Uttala river watershed, which is a tributary of Son River, was carried

#### **Watershed Characterization and Prioritization Using Remote ...**

Abstract:The study identifies the extent of soil loss and proposes a method for prioritization of micro-watershed in the Nun Nadi watershed The study used the Sediment Yield Index (SYI) method, based on weighted overlays of soil, topography, rainfall erosivity and land use parameters in 10 micro watersheds Accordingly, the values and thematic

**1, 2 1**

water Article Streamflow and Sediment Yield Prediction for Watershed Prioritization in the Upper Blue Nile River Basin, Ethiopia Gebiaw T Ayele 1,\*  
Engidasew Z Teshale 2, Bofu Yu 1, Ian D Rutherford 3 and Jaehak Jeong 4 1 Australian Rivers Institute and School of Engineering, Griffith University,

Nathan, Queensland 4111, Australia; byu@griffitheduau

**XXII ISPRS Congress, 25 August 01 September 2012 ...**

SEDIMENT YIELD ESTIMATION AND PRIORITIZATION OF WATERSHED USING REMOTE SENSING AND GIS Sreenivasulu Vemu, Udaya Bhaskar Pinnamaneni Department of Civil Engineering, JNT University, Kakinada, Andhra Pradesh, India-533003

**Soil erosion planning using sediment yield index method in ...**

Soil erosion planning using sediment yield index method in the Nun Nadi watershed, India Hasan Raja Naqvi a, n , AS Mohammed Abdul Athick a , Hilal Ahmad Ganaie b , Masood

**Estimation of Sediment Yield and Areas of Soil Erosion and ...**

Water Resour Manage (2010) 24:2091-2112 DOI 101007/s11269-009-9540-0 Estimation of Sediment Yield and Areas of Soil Erosion and Deposition for Watershed Prioritization

**Morphometric based prioritization of watershed for ...**

crucial role in prioritization of sub-watershed, scientific literature have discussed role of morphometric param-eters: watershed prioritization in the Guhiya basin, India (Khan, Gupta, & Moharana, 2001), check dam positioning by prioritization of micro-watershed using the ...

**Prioritization of Semi-Arid Agricultural Watershed Using ...**

Watershed Using Morphometric and Principal Component Analysis, Remote Sensing, and GIS The soil map of the watershed has been digitized using Arc GIS software Prioritization of the 43 sub-watersheds was performed using ten li- caused serious soil erosion loss and high sediment yield in wadis and rivers draining to the Jordan Rift

**Module 6 - (L22 - L26): "Use of Modern Techniq es in Wate ...**

Watershed delineation Resource mapping Identification of erosion-prone areas Modeling sediment yield Conservation prioritization Conservation planning Monitoring watershed for environmental impact assessment 16 Prof T I Eldho, Department of Civil Engineering, IIT Bombay

**Estimating catchment sediment yield, reservoir ...**

Estimating catchment sediment yield, reservoir sedimentation and reservoir effective life using SWAT Model Sanjeet Kumar a\*, Ashok Mishra , NS Raghuwanshi aDepartment of Agricultural and Food Engineering Indian Institute of Technology,

**Characterization of hydro geological behavior of the upper ...**

Semi-quantitative method of the sediment yield index (SYI) model for watershed prioritization is also used in many studies (Mosbahi et al, 2012; Jang et al, 2013) Hydrological modeling approach has defined a new dimension in integrating the result of morphometric analysis data ...

**Prioritization of Sub-Watersheds in a Large Semi-Arid ...**

on watersheds prioritization in Jordan using morphometric analysis method, multivariate statistics, soil erosion susceptibility, and RUSLE soil loss modeling in watershed prioritization was assessed Prioritization of the 43 sub-basins was productivity, changes in river morphology, high sediment yield and reduction in reservoir storage

**Prioritization of Micro-watersheds in the Balekoppa Sub ...**

cover, universal soil loss equation, sediment yield, sediment production rate etc (Thirumalai et al 2014) Watershed prioritization is the ranking of different sub-watersheds or micro-watersheds of a watershed according to the order in which they have to be taken for treatment for ...

**Vulnerability Assessment of Soil Erosion/Deposition in a ...**

prioritization of watershed management/treatment activities within a river basin/catchment However, soil erosion and sediment yield exhibit large spatial variability due to heterogeneity involved in various parameters (catchment physical as well as climatic) responsible for ...

#### **Watershed Development Prioritization by Applying WERM ...**

Watershed Development Prioritization by Applying WERM Model and GIS Techniques in Takoli Watershed of District Tehri (Uttarakhand) Anju Panwar catchments to erosion, is the sediment yield of a basin In India, sediment yield data are generally not collected for smaller sub-catchments and it becomes difficult to identify the

#### **Prioritization of Watersheds across Mali Using Remote ...**

in the Kanera watershed of Madhya Pradesh, India by using morphometric and land use analysis Sadeghi [19] also did a similar analysis by giving more importance to land use in the watershed Vemu and Pinnamanesni [20] used sediment yield estimation using USLE to prioritize the watersheds in the Indravathi basin of Andhra Pradesh in India

#### **Watershed development prioritization by applying werm ...**

WATERSHED DEVELOPMENT PRIORITIZATION BY APPLYING WERM MODEL AND GIS TECHNIQUES IN VEDGANGA BASIN (INDIA) Sachin Panhalkar and C T Pawar is the sediment yield of a basin In India, sediment yield data are generally not ...

#### **l o g y : C u r r e n t H y d r o l o g y e s e d r o a y c h C u r r e n t ...**

the spatial distribution of sediment yield using Sediment deliver ratio (SDR) and Revised Universal Soil Loss Equation (RUSLE) of Koga watershed in a GIS and remote sensing environment Specifically, an effort was made to map and assess the sediment delivery ratio and soil loss of Koga watershed and to identify sediment hotspot areas for