

# 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,

#### **Ascribing soil erosion types for sediment yield using ...**

sediment sources and avoids many of these problems The problem is particularly complicated in develop-ing countries like Iran where, due to financial con-straints, many soil erosion control measures are not appropriately placed in the watershed area, because no prioritization has been made for sediment yield provenance

#### **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

### **Prioritization of Promising Wadi Wala Watershed (Southern ...**

order to minimize soil erosion rates and sediment yield production, 4) test the validity of achieved priority classes (sub-watershed groups) through morphometric analysis by means of Discriminant Analysis (DA) WWala is considered as a promising agricultural watershed, and water resources

### **Prioritization of sub watershed based on sediment ...**

Sediment Production is one of the major problems in the Watershed areas Based on this sediment production rate the area selected to study the Prioritization of the watershed was Arasalar-palavar watershed around Nagapattinam District Finally, the disaster reduction model was suggested by using "JOSE and DAS" formula To study this

### **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,

### **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

### **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

### **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

### **Prioritization of micro watersheds on the basis of soil ...**

the sediment yield Several other methods such as sediment yield index (SYI) method proposed by Bali and Karale (1977) and universal soil loss equation (USLE) by Wischmeier and Smith (1978) are extensively used for prioritization of the watersheds The USLE has been widely applied at a watershed scale on the basis of

### **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 ...

### **Time Scale Effects on Accuracy of Sediment Yield Estimation**

Time Scale Effects on Accuracy of Sediment Yield Estimation Sadeghi, SHR 1 - Aghabeigi Amin, S - Vafakhah, M - Yasrebi, B - Esmaeili Sari, A 1Head and Associate Professor, Department of Watershed Management Engineering, College of Natural Resources & Marine Sciences, Tarbiat Modares University, Noor 46417-78489 and a Member of National Commission on Soil Erosion

### **Micro Watershed Prioritization Based on Two Differentiate ...**

computing actual rate of sediment yield index factor The Soil and Land use Survey of India has developed Sediment Yield Index model for prioritizing watersheds J Adinarayana (1996) and Nooka Ratnam etal (2008) studied the prioritization of basinn using SYI and V ...

**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 ...

**Saaty's Analytical Hierarchical Process based ...**

A watershed is an ideal unit for management of all Natural resources like land and water and for alleviation the impact of natural disasters to achieving sustainable development Soil erosion from the watershed is the result of complex processes, which is controlled by climate, topography, geologic, geomorphic, and land use characteristics

**Geomorphological analysis and prioritization of sub ...**

Geomorphological analysis and prioritization of sub-watersheds using Snyder's synthetic unit hydrograph method average annual sediment yield estimation using the data of 50 catchments located in the plain region of India Pandey et al (2007) divided the Karso watershed of entire watershed using GIS software (Arc GIS 92) 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

**VISION - California**

• Water, sediment, and nutrient yield in complex watersheds • Impacts of alternative management practices Watershed Assessment Watershed Assessment, Cumulative Impact Toolset Watershed Prioritization Example In California, SWAT is being used for ...