Watershed Prioritization Using Sediment Yield Index Model

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Watershed Prioritization Using Sediment Yield

The watershed prioritization is thus considered as the ranking of different areas of a watershed according to their need to soil and water conservation measures. It requires detailed information on watershed sediment yield and a tradeoff among complex driving forces (Sadeghi, 2005). Eventually, prioritizing different areas of a watershed based on the problem severity provides numerous benefits to managers and it is a useful tool for the government when preparing regional

development strategies.

Sub-watershed prioritization based on sediment yield using ...

On the basis of sediment yield index values the watersheds were grouped into very high, high, moderate and low priorities. High priority watersheds with very high SYI value (>150) need immediate attention for soil and water conservation whereas, low priority watershed having good vegetative cover and low SYI value (<50) may not need immediate attention for such treatments.

Watershed prioritization using remote sensing and ...

In the absence of sediment yield data, a Sediment Yield Index expressing the relative sediment yield on the basis of grading the basin or watershed in order of priority for soil and water conservation measures. The study area is divided into 15 sub-watersheds on the basis of drainage conditions.

Prioritization of watershed through sediment yield index ...

On the basis of sediment yield index values the watersheds were grouped into very high, high, moderate and low priorities. High priority watersheds with very high SYI value (>150) need immediate attention for soil and water conservation whereas, low priority watershed having good vegetative cover and low SYI value (<50) may not need immediate attention for such treatments.

Watershed prioritization using remote sensing and ...

Comparative preference of effective variables on sediment yield in study sub-watersheds in the Gorganroud and Qareh Sou Watersheds, Iran. Dd: Drainage density (km km 2

Sub-watershed Prioritization based on Sediment Yield using ...

The study used the Sediment Yield Index (SYI) method, based on weighted overlays of soil,

topography, rainfall erosivity and land use parameters in 24 micro watersheds. Accordingly the values and thematic layers were integrated as per the SYI model, and minimum and maximum sediment yield values were calculated.

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

Estimation of Sediment Yield and Areas of Soil Erosion and Deposition for Watershed Prioritization using GIS and Remote Sensing Article (PDF Available) in Water Resources Management 24(10):2091 ...

(PDF) Estimation of Sediment Yield and Areas of Soil ...

Watershed prioritization based on the natural resources and physical processes involves locating critical areas of erosion, which produce maximum sediment yield to take up conservation activities on priority basis.

Multi-Criteria Decision Making Approach for Watershed ...

Estimation of sediment yield and areas of soil erosion and deposition for watershed prioritization using GIS and remote sensing

(PDF) Estimation of sediment yield and areas of soil ...

This catchment prioritization study indicated that more than 85% of the sediment was sourced from lowland areas (slope range: 0–8%) and the variation in sediment yield was more sensitive to the land use and soil type prevailing in the area regardless of the terrain slope.

Streamflow and Sediment Yield Prediction for Watershed ...

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 overlaying techniques has been used to locate

PRIORITIZATION OF MICRO- WATERSHEDS

Raja et al. (2015) used Sediment Yield Index (SYI) method for prioritizing the watershed to know the extent of soil loss. There are many factors which are affecting soil erosion directly or indirectly.

Identification of critical soil erosion prone areas and ...

Abstract The proper placement of soil and water conservation measures cannot be designated due to lack of appropriate technical prioritization of different areas of a watershed. Therefore, quantifying soil erosion hazard and spatial prioritization of sub-watersheds would aid in better watershed management planning.

Sub-watershed prioritization based on sediment yield using ...

Using these maps, the gross soil erosion was routed to the watershed outlet using hydrological drainage paths, for derivation of transport capacity limited sediment outflow maps. These maps depict the amount of sediment rate from a particular grid in spatial domain and the pixel value of the outlet grid indicates the sediment yield at the ...

Estimation of Sediment Yield and Areas of ... - SpringerLink

The predicted sediment yield verified with the observed data. The Indravathi basin is divided into 424 sub-watersheds and prioritization of all 424 sub-watersheds is carried out according to soil loss intensity for soil conservation purpose. Generated soil loss map will be useful to soil conservationist and decision makers for watershed management.

Sediment Yield Estimation and Prioritization of Watershed ...

of sediment load passing the outlet of a watershed is known as the sediment yield. Urbanization, agriculture expansion and deforestation predominantly change the landuse due to which soil erosion ...

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

Abstract Sediment Yield estimation on the basis of texture, slope, land use and soil erosion has become inevitable component for effective watershed management in terms of conserving soil and water resources. To assess the sediment yield, it is necessary to prepare a land use / land cover map,

Sediment Yield Estimation for Watershed Management in ...

"Estimation of Sediment Yield and Areas of Soil Erosion and Deposition for Watershed Prioritization using GIS and Remote Sensing," Water Resources Management: An International Journal, Published for the European Water Resources Association (EWRA), Springer;European Water Resources Association (EWRA), vol. 24(10), pages 2091-2112, August.

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

The results of this study also identify regions of high sediment yield and sediment delivery ratio. To enhance the SWAT model performance, it is recommended to use sub-daily data and to prioritize soil erosion at the Hydrological Response Units level for improvement of watershed management.