

## **296. APPLICABILITY OF REMOTE SENSING AND GIS APPROACH FOR PRIORITIZATION OF WATERSHED THROUGH SEDIMENT YIELD INDEX**

Sarita Gajbhiye\* and S.K. Sharma

\*gajbhiesarita@gmail.com

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 (Gajbhiye et al. 2013b). The study area is divided into 07 sub-watersheds on the basis of drainage conditions. Sediment Yield index has been calculated for all the seven sub-watershed, following the All India Soil and Land Use Survey (AISLUS) method and accordingly prioritized. The maximum SYI value of 1221 is recorded for Kanhaiya (KN)-05 sub-watershed and minimum value of 1130 is in Kanhaiya (KN)-06 sub-watershed.

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