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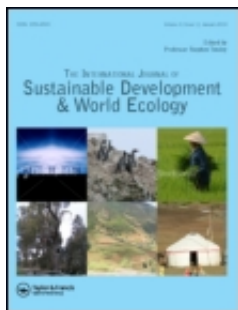
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Assessment of ecosystem services of Lugu Lake watershed

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Abstract

Better understanding and evaluation of ecosystem services are important for applying the correct model of regional development planning. Using the physical assessment method (PAM) and the value assessment method (VAM), the ecosystem services in Lugu Lake watershed, including product supply, soil conservation, water conservation, CO₂ absorption, O₂ release, nutrient cycle, flood storage and ecotourism, were evaluated and analysed. The results show that the total economic value of these ecosystem services was 500.68×10^6 Yuan/a (at comparable prices in 2004); ecotourism was the major component of ecosystem services, accounting for 41.6%; the values of O₂ release, flood storage, CO₂ absorption and water conservation accounted for 28.1, 13.7, 7.7, and 5.5%, respectively; the value of product supply accounted for only 2.4% and, therefore, was not a major part of watershed ecosystem services. Sustainable development of ecotourism and long-term preservation of the functions of O₂ release and flood storage need to be assured for realising

ecosystem services of Lugu Lake watershed.

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Keywords

- ECOSYSTEM SERVICES,
- MATERIAL ASSESSMENT,
- MONETARY ASSESSMENT,
- LUGU LAKE WATERSHED

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