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Evaluation on the Service Functional Values of the Wetland Ecosystem in the Bosten Lake Basin, Xinjiang

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In this paper, a monetization assessment on the direct utilization value (material production function and tourist service function) and the indirect utilization value (water conservation function, flood control function, purification service function, habitat service function, cultural service function and scientific research function) of the wetland ecosystem in the Bosten Lake Basin is carried out based on the theories and methods of resources economics and ecological economics. The results reveal that the total annual value of indirect and direct service functions of the wetland ecosystem in the Bosten Lake Basin is 7.835×10⁹ yuan, in which the direct utilization value is 1.487×10⁸ yuan and accounts for 1.89% of the total value; the annual value of water conservation service function is 5.896×10⁹ yuan and accounts for 75.30% of the total value. The results also show that the main function of the wetland ecosystem in the Bosten Lake Basin is to conserve water for the ecosystem maintenance and the social and economic development in the Tarim Basin. While making the construction and development planning of the wetland ecosystem in the Bosten Lake Basin, it is suggested to pay great attention to the continuous construction of its ecological service function value and consider proportionally all the ecosystem service functions in the study area. After analyzing, an idea about the sustainable utilization of the wetland ecosystem in the Bosten Lake Basin is put forward, and the study results can be referred in achieving sustainable development in the Bosten Lake Basin.

【Key Words】 : **Bosten Lake Basin wetland ecosystem ecological service function value assessment.**

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