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The Forest Ecosystem Services and Their Valuation of Beijing Mountain Areas (CBA:390837)

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[Acta Ecologica Sinica](#) [2002, 22(5):783-786]

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Abstract

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The quantitative studies on the ecosystem service function of forests have become a worldwide discussed issue in current days due to the various forest-related environmental problems. This paper attempts to evaluate the forestry ecosystem service benefits of Beijing mountain area and provide data supports to the decision-makers based on the field investigations and researches of more than ten years. Beginning with the concept of forest ecosystem services, the authors adopted the eco-economy evaluation methods and classified the forest ecosystem service of Beijing mountain area in to direct and indirect benefits. Direct benefits of forest ecosystem include the income form timber and tree crops products and tourism; indirect ecosystem service of forest is the principal part of its environment protection function and consists of water resource and soil conservation, air and water resource purification, carbon fixation and oxygen production. The studies^ results show that average annual forest ecosystem services benefits of Beijing mountain areas, which covers 4056.64km², adds up to 16.78 billion yuan (Chinese RMB), of which, direct benefits makes up 5.74% and are about 0.964 billion yuan, which includes about 90.7498 million yuan incom from tourism, about 873 million yuan of the output of standing economic trees and forest products, whereas indirect benefits make up 94.26% and are 15.816 billion yuan, which consist of 9.167 billion yuan of water-holding, 1.53 billion yuan of water purification, and about 28.0692 million yuan of soil conservation, about 224 million yuan of carbon fixation and oxygen production, about 4.865 billion yuan of air purification. Compared to the direct benefits of forest ecosystem, indirect benefits are more important for the survival of human being.



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