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WATER CONSERVATION OF FOREST ECOSYSTEM IN THE UPPER REACHES OF YANGTZE RIVER AND ITS BENEFITS

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According to the difference of physical geography, forest in the upper reaches of Yangtze River where is chosen as the case of this paper is divided into dark coniferous forest, other coniferous, broadleaf forest, economic forest, bamboo forest, shrubbery and six corresponding types of forest ecosystems. And then the effects and benefits of water conservation for different types of forest ecosystems are assessed, which is calculated by making use of relevant indicators as annual rainfall, crown cover of forest; shadow project and experiment data. It indicates that the benefits of water conserved through forest ecosystems within this region is about 23 972.814×10⁸ m³ every year and the economic value is about 16 061 785.55 million Yuan RMB, which is equal to one fourth of gross domestic production of corresponding areas in 1999. Therefore it can be concluded that both ecological and economic benefits of forest ecosystem are significant in regional sustainable development.

【Key Words】 : **Forest ecosystem Economic value Upper reaches of Yangtze River**

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