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This paper conducts an assessment of the three public benefits of the main forest areas in Hunan: preventing soil erosion, keeping fertility and cleaning air. It is demonstrated that the soil (234.37×106 t), organic matter (7 802 376 t), N (405 248 t), P (124 297 t) and K (3 751 074 t) can be reduced per year but the return of nutrients (N 2 662 079 t, P 30 299 t, K 190 787 t) through the tree litter is apparent. The efficiency of preventing soil erosion, improving soil (18.78 ×108 yuan), and cleaning air (63.74×108 yuan) is respectively 3.64, 14.5 and 4.91 times than that of woody production.

【Key Words】 : forest public benefit economic assessment preventing soil erosion and keeping fertility improving soil cleaning air

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