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Environmental impact assessment of the land use change in china based on ecosystem service value  
(PMID:17256625)

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[Huan Jing ke Xue= Huanjing Kexue / \[bian ji. Zhongguo ke xue Yuan Huan Jing ke xue wei Yuan hui "Huan Jing ke Xue" Bian ji wei Yuan Hui.\]](#) [2006, 27(10):2139-2144]

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Abstract

Highlight Terms

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The environmental impact of land use change is long-term and cumulative. The ecosystem service change results from land use change. Therefore, the ecosystem service function change is the key object in the environmental impact assessment of land use change. According to the specific situation of China, this paper adjusted the unit ecosystem service value of different land use types. Based on this, the ecosystem service value change of different provinces in China resulted from the land use change since the implementation of the last plan of land use (1997-2010) was analyzed. The results show that the ecosystem service value in China increased 0.91% from 1996 to 2004. Thereinto, Tianjin is the province that the ecosystem service value increased most quickly, which was 5.69% from 1996 to 2004, while Shanghai is the province that the value decreased most quickly, which was 9.79%. Furthermore, the change of 17 types of ecosystem services was analyzed. Among them, the climate regulation function enhanced 3.43% from 1996 to 2004 and the biology resource control was weakened by 2.26% in this period. The results also indicate that the increase of the area of water surface and forest is the main reason for why the ecosystem service value increased in China in that period.

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