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## Dynamics of the ecosystem service values of farming-pastoral zone along the upper reaches of Haihe River

GAO Qing-zhu, HE Li-huan, HUANG Xiao-xia, JIANG Yuan

Institute of Resource Science,China Ecological Capital Assessment Research Center,Key Laboratory of Environmental Change and Natural Disaster,Ministry of Education,Beijing Normal University,Beijing100875,China

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**Abstract** The land use changes of farming-pastoral zone along the upper reaches of Haihe River were obtained by analyzing NOAA/AVHRR data. Thus the dynamics of eco-environmental quality caused by land use changes were evaluated by using Costanza's method of evaluating the world's ecosystem service. The results indicate, the ecosystem service values of farming-pastoral zone along the upper reaches of the Haihe River have been diminished due to the land use change in the past 10 years. The loss of ecosystem service values is around 2.5%~2.7%, equating to  $4.18 \times 10^7 \sim 4.90 \times 10^7$  US\$.

**Key words :** [Haihe River Drainage Basin](#) [farming-pastoral zone](#) [ecosystem](#) [service value](#)**Received:** 06 March 2002**Cite this article:**

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