

# Document details

**Title**

Effect of land use change on ecosystem services value of the upper reaches of the Yangtze River.

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Based on the dynamic data of land use in 1980, 1990 and 2000, and by the table of Chinese ecosystem service value per unit area of different ecosystem types and ecological sensitivity analysis, typical ecological fragile zones of the upper reach of the Yangtze River were selected to explore land use changes and their effects on the ecosystem services value. Results showed that the area of forest, grassland and wetland had varying degrees of growth, and ecosystem service values showed an upward trend in the study region from 1980 to 1990. However, due to a dramatic increase in the area of construction land, farmland and unused land from 1990 to 2000, which were mainly transferred from forest and grassland, all kinds of ecosystem functions declined in different extents during the whole study period. The total ecosystem service value of the study region was reduced from  $11\,119.16 \times 10^8$  Yuan in 1980 to  $11\,077.85 \times 10^8$  Yuan in 2000, with a net decline of  $41.31 \times 10^8$  Yuan. The rapid urbanization and development mode aimed at economic interests have brought significant harm to the local ecosystem service functions and sustainable development.

## About this document

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