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# Analysis on Spatial-Temporal Changes of Land Use and Ecosystem Services Value in Wuhan City

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Ecosystem services value has been one of the hottest issues in the field of ecology.The objective of this paper is to analyze the spatial-temporal changes of land use and to examine their effects on the spatial-temporal changes of ecosystem services value(ESV).The methods are based on ESV computing formula and ESV coefficients.The following results and conclusions could be obtained:(1) From 1988 to 2004,the changes of land use and the total value of ecosystem services focused on the rural-urban fringes.(2) The total value of ecosystem services of Wuhan city increased.However there are some changes in the structure of ecosystem services value and the function of ecosystem services.(3) The rate of water conservation services value had the greatest increase,whereas the rate of food production services value had the greatest decrease.Some function of ecosystem services were weakened in urban build-up areas,for example,gas regulation,soil formation and disposition,waste treatment,bio-diversity conservation and food production.Some function of ecosystem services were also weakened in rural-urban fringes,for example,climate regulation,soil formation and disposition and food production.

【Key Words】 : **land use ecosystem services value(ESV) spatial-temporal Wuhan city**

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