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Variation of Ecosystem Services Value in the Suburbs of Beijing Based on the Land Use Change

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Using the data of land-use change produced from the integrating Landsat TM images of Beijing City in 1996 and 2005, this paper analyzes the change of land use structure and ecosystem services value and their relationship by three typical coefficients of ecosystem services value. The results show that: (1) The variation of land-use in the study area from 1996 to 2005 is dramatic. The cropland decreases dramatically and reduces 264.38 km², the water and unused land reduce 72.19, 0.17 km² respectively while the forest, grass land, construction land increase 63.76, 19.94, 253.05 km² respectively. (2) When assessed by the three different indices, the total ecosystem services value from 1996 to 2005 decreases 0.522, 0.368 and 3.649 billion yuan respectively. The farther away from the downtown, the faster decline in the value of ecosystem services. (3) In the process of rapid urbanization, the main factors that caused the ecosystem services value decline significantly in the study area is the construction land, the cropland and water area.

【Key Words】 : **land use ecosystem services value RS GIS Beijing City**

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