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# Study on the Impact of Socio-economic Driving Factors of Land Use Change on the Ecosystem Service Values in Fujian Province

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Based on XIE Gao-di's coefficient of ecosystem services value, the land use change in Fujian province from 1995 to 2005 and the ecosystem services value change caused by it were quantitatively analyzed; and we also analyzed the correlation and sensitivity between the changes of ecosystem services value and the social economic impact factors of land use change including the total population amount, GDP and the urbanization level. The results showed: ① From 1995, the ecosystem services value of farmland, forest and grassland decreased 5.51%, 0.39% and 7.23% respectively; while the value of garden plot, construction land and waters increased 9.61%, 23.03% and 2.27%. Because of the ecosystem services value decreased by 17.14×10<sup>8</sup> yuan which was much greater than the value increased by 9.47×10<sup>8</sup> yuan, the total ecosystem services value of Fujian province decreased 7.67×10<sup>8</sup> yuan in total, and the annual average decreased was 0.697×10<sup>8</sup> yuan. ② The changes of ecosystem services value in Fujian province had a obvious negative correlation with the total population amount, GDP and the urbanization level, which meant that socio-economic development had great pressure and obvious negative effect on the environment; from 1995 to 2005, the average environmental price for the socio-economic development was 0.697×10<sup>8</sup> yuan/yr-1. ③ The changes of ecosystem services value in Fujian province lack sensitivity with the total population amount, GDP and the urbanization level; combined with the viewpoints of system science, the environment was the key parameter in the population-economy-environment combined system, and had a decisive effect on it, therefore more attention should be paid to the protection of the environment. Relatively speaking, the changes of ecosystem services value was most sensitive to the population increase, and had less sensitivity to the urbanization level and the least sensitivity to the GDP increase. Over the past 11 years, the sensitivity coefficient of the changes of ecosystem services value to the total population amount, GDP and the urbanization level had been increased 24.45, 39.67 and 23.67 times respectively, which meant that the environmental price of the same amount of socio-economic development was dramatically increased year by year.

【Key Words】 : **land use ecosystem services valuation change sensitivity Fujian province**

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