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Estimation of gains and losses of ecosystem services value with land consolidation

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In this paper, three land consolidation projects locating on the east, the center and the west in China respectively are selected as cases. Based on the data of land use change in land consolidation project area, applying Costanza's method of evaluating the world's ecosystem services and the table of Chinese ecosystem service value per unit area of different ecosystem types, we evaluate the ecosystem services value before and after land consolidation, then estimates the gains and losses of ecosystem services value. This research can provide reference on the decision of land consolidation and help to achieve the sustainable aim. The ecosystem services values all decreased after land consolidation in the three project area with the maximum loss rate of 23.63% and the minimum of 0.94%, which represent that one of the prominent problems in land consolidation in China are ecological problems. Meanwhile, in the three project area, the values of climate regulation, soil formation and preservation, food production added. However, the values of water conservation, biodiversity, recreation decreased. And others functions values decreased or added in different land consolidation project area.

【Key Words】 : **land consolidation environmental engineering land use**

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