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Preliminary study on effects of hydraulic engineering on river ecosystem services

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Based on the supply-demand theory of western economics and the evaluation methods of economic value of natural resources, the theory and methods about the effects of hydraulic engineering on river ecosystem services were established. The effects of Three Gorges Project (TGP) on river ecosystem services were evaluated by use of the following methods: the market value, the opportunity cost, the shadow project, the prevention expenditure and the restoration expenditure. The results show that the flood control and hydropower generation by TGP are the main positive effects on the river ecosystem services, and the reservoir contamination, sedimentation and inundation by TGP are the main negative effects.

【Key Words】 : **hydraulic engineering river ecosystem service economic value effect evaluation**

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