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Supply,Consumption and Valuation of Ecosystem Services in China

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The ecosystem service has been become one of most important concepts advanced by ecological economists. Being a research hotspot in field of ecological economics since 1990s, the ecosystem service and its value has been widely studied and appreciated. However, the process and characteristics of the supply, consumption and valuation on ecosystem service still does not well researched and have no systemic theory to explain and analyse rationally the behaviors of producer and consumers of ecosystem services. This article, in accordance with the existed econometrics theory and new knowledge involved the ecosystem services, attempts to construct a theoretical frame to describe the process of the supply, consumption and valuation of ecosystem service. In the proposed theoretical frame the ecology service production function and the ecology service cost function are regarded as its main rationale and analysis approach for analyzing its supply process; the ecosystem service consumption function and the ecosystem service utility function regarded as its main rationale and its analysis approach for analyzing its consumption process; the utility value theory, the producer and the consumer surplus theory and the payment willingness theory are allowed to form its main rationale and the appraisal method for valuation of ecosystem services.

【Key Words】 : **Ecosystem service Valuation Consumption Supply**

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