Supply, Consumption and Valuation of Ecosystem Services in China

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The ecosystem service has become one of the 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 applied. However, the process and characteristics of the supply, consumption and valuation on ecosystem service still does not well researched. The paper attempts to construct a theoretical frame to describe the process of the supply, consumption and valuation of ecosystem services. In the proposed theoretical frame, the ecosystem service production function and the ecosystem service cost function are regarded as its main rationale and its analysis approach for analyzing its supply process; the ecosystem service consumption function and the ecosystem service utility function are 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 ecosystem service utility function regarded as its main rationale and its analysis approach for analyzing its consumption process.

Keywords: Ecosystem service, Valuation, Consumption, Supply

In the proposed theoretical frame, the ecology service production function and the ecology service cost function are regarded as its main rationale and its analysis approach for analyzing its supply process; the ecosystem service consumption function and the ecosystem service utility function are regarded as its main rationale and its analysis approach for analyzing its consumption process.

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