Ecological Services and Their Values of Chinese Agroecosystem

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Agroecosystem not only provides people with grains,vegetables,fibre, etc.,but also plays an important role in soil and water conservation,environmental decontamination,etc.Furthermore,Agroecosystem has negative effects on our environment,such as,soil and water pollution caused by fertilizer and pesticide utilization.So, the ecological services of farmland are more complicated than grassland and forest.So far,there are a few of research findings about Chinese farmland's ecological services but only part of ecological services were involved in these documents.An integrated research is needed now in order to understand agroecosystem comprehensively.

This paper gave a primary result of ecological services and their monetary value of Chinese agroecosystem.The results showed that the total monetary value of ecological services provided by Chinese agroecosystem is 1,912.18 billion yuan RMB in 2003(present price in 2003);the positive value is 2,233.41 billion yuan and negative is-321.23 billion yuan.The services value per hectare is 18,960.6 yuan/hm2;the value of farm products is 14,788.7 yuan/hm2, or hers are 4 171.9 yuan/hm2 and negative value is 318.52 yuan/hm2. There is great distinction of farmland ecological services in different regions. The values range from 8.68~505.08 billion yuan and Huang-Huai-Hai Region and Middle and Lower Reaches of the Yangtze River are bigger and Inner Mongolia and Northeast region are smaller.
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