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# Measurement and Dynamic Change of Ecosystem Services Value in the Farming-pastoral Ecotone of Northern China

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Based on the characteristics of ecosystem types,NPP and vegetation coverage in the farming-pastoral ecotone of northern China,by adopting RS and GIS technology,integrating with methods of ecology-economics,this paper measured the value of ecosystem services and its dynamic change.The results showed that:(1)the value of grassland,farmland and forestland is the most important in all the ecosystem services;(2)the per-pixel value of forest and shrub is higher than that of other ecosystems;(3)in horizontal distribution,the value of ecosystem services has obvious regional difference,and its distribution was greatly impacted by climate and human activities;in vertical distribution,the topographic factors affect the value of ecosystem services more evidently than human activities;(4)the value of every ecosystem service and the total value are decreasing,and the maximum value of per-pixel ecosystem services changed from northeast to southwest,at last reaching the central section of the ecotone during 1986~2000.

【Key Words】 : **vegetation coverage NPP ecosystem services economic value the farming-pastoral ecotone of northern China**

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