

## 果园生态系统服务价值评估——以莆田市为例

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## Service value assessment of orchard ecosystem: A case of Putian City of Fujian.

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- 摘要
- 参考文献
- 相关文章

全文: PDF (460 KB) HTML (1 KB) 输出: BibTeX | EndNote (RIS) 背景资料

**摘要** 基于中国陆地生态系统服务价值当量表, 通过生态系统服务价值评估模型对莆田市果园生态系统服务价值进行评估. 结果表明: 2002—2008年, 莆田市果园生态系统服务价值总体呈大幅上升趋势. 其中, 气体调节和水源涵养的价值出现先升后降的波动趋势, 其他功能的服务价值呈迅速上升(2002—2006年)而后平缓发展的趋势; 莆田市果园生态系统调节功能的价值高于直接利用功能的价值, 说明只有在维护好生态系统各项功能的基础上才能更好地对果园生态系统进行索取和利用; 莆田市的果园大多是山地果园, 在果园建设和生态保护上存在明显的脱节, 使果园变为裸地等其他用地类型, 导致了严重的水土流失和地力衰退, 既破坏了果园生态, 又影响了农业生产效益. 莆田市未来果园的建设中, 应实行山、水、田、林、路等综合规划治理, 并根据国内外市场需求, 因地制宜, 利用高新技术降低果园建设成本, 综合利用资源与调节生物间的关系, 促进生态系统的良性循环, 使果园系统结构趋于合理.

**关键词:** 生态果园 果园生态系统 服务价值评估 莆田市

**Abstract:** Based on the equivalent weight factor of China terrestrial ecosystem service value, and by using ecosystem service value assessment model, this paper evaluated the orchard ecosystem service value in Putian City. In 2002-2008, the orchard ecosystem service value in the City had an overall increasing trend, among which, the service value of gas regulation and water resource conservation had a fluctuation trend of decreased after an initial increase, and that of other functions increased rapidly in 2002-2006 and then developed mildly. The service value of regulation function was higher than that of direct use function, showing that only on the basis of preserving well the functions of ecosystem, could the orchard ecosystem be claimed and used. As most of the orchards in the City are on hills or mountains, the construction and ecological protection of the orchards are obviously disjointed, making the orchards become bare land or other land-use types, resulting in serious soil erosion and degradation, which not only destroyed the orchard ecology, but also gave negative effects on the production efficiency of agriculture. In the future construction of Putian orchards, it should implement comprehensive planning and management of mountain areas, water regions, farm lands, forest lands, and paths, reduce the orchard construction costs by taking advantage of high and new technologies in light of the local conditions and the demands of domestic and foreign markets, and promote the virtuous circle of ecosystem by comprehensive utilization of resources and regulation of biological interaction to make the structure of the orchard ecosystem approached to scientific and rational.

**Key words:** eco-orchard orchard ecosystem service value assessment Putian City

## 引用本文:

. 果园生态系统服务价值评估——以莆田市为例[J]. 应用生态学报, 2011, 22(09): 2399-2404.

. Service value assessment of orchard ecosystem: A case of Putian City of Fujian. [J]. Chinese Journal of Applied Ecology, 2011, 22(09): 2399-2404.

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