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English

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最新目录 | 下期目录 | 过刊浏览 | 高级检索

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### DEA方法在现代烟草农业资源配置效率评价中的应用

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### Application of DEA Model in the Resource Allocation Efficiency Evaluation of Modern Tobacco Agriculture

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摘要

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**摘要** 烟草农业正处于由传统经营管理模式向现代管理模式转变的时期。为合理评价各项资源在现代烟草农业中的配置效率, 运用数据包络分析(DEA)法构建了现代烟草农业评价指标体系并对武隆各地区进行资源配置效率评价。结果表明: 武隆资源配置效率总体水平不高, 存在资源浪费现象, 突出表现在烘烤投入、平衡施肥投入和机械作业等方面, 资源溢出总量分别达到51.38, 45.80, 15.08万元, 所以应加强密集烘烤技术推广、科学平衡施肥等方面的工作。数据包络分析可以避免常规赋权方法中的主观因素限制, 而投影原理可以进一步根据已有结论提出具体改进措施。

**关键词:** 现代烟草农业 数据包络分析 资源配置效率 投影

**Abstract:** Tobacco agriculture has been in the transforming from traditional management mode to the modern one. In order to evaluate the allocation efficiency of the resources in the modern tobacco agriculture, in this paper the method of DEA was used to construct the evaluation index system of modern tobacco agriculture, and the allocation efficiency of every region in WuLong was appraised. The results showed that the allocation efficiency of Wulong was not high on the whole, there existed serious waste of resources, displayed prominently in the costs of curing; costs of balanced fertilization and mechanized cultivation, the total quantity of source waste had reached 513.800, 45.8and 15.0800yuan, respectively. It was suggested that the popularization of the technology of bulk curing barn and scientific balanced fertilization should be strengthened. The method of DEA can avoid the subjective reasons in the Conventional methods, and the projecting principle can put forward specific measures for improving by the preexisting conclusions.

**Keywords:** modern tobacco agriculture data envelopment analysis resource allocation efficiency projecting

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