基于农用地分等的基本农田保护空间规划方法研究

Spatial planning method for the basic farmland protection based on the farmland classification

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中文摘要：

耕地中直接影响到粮食安全的是基本农田，实施耕地保护实质上就是实施基本农田保护。针对当前基本农田保护规划中存在的问题，以及本轮土地利用规划修编的特点和要求，考虑土地利用数据共享原则，对在基本农田保护规划中充分利用农用地分等成果进行了探讨，即在进行基本农田保护空间布局过程中，把农用地综合等作为一个重要因素加以考虑。在考虑粮食安全的基础上，再依据基本农田的内涵，建立了以基本农田保护规划决策模型为核心的技术方法。通过熵权系数法、理想点法与GIS技术的结合，基于Mapbasic编程并在Mapinfo平台上试验，建立了一套基本农田保护空间规划的技术路线，完成了从专业模型分析到规划图自动生成的全过程，实现了基本农田规划编制的决策支持和决策可视化，使规划成果更加科学合理。通过在济南市的实证，取得了令人满意的结果。

英文摘要：

Basic farmland has a direct influence on food safety. Farmland protection is virtually basic farmland protection. Aiming at the problems in basic farmland protection planning at present and the demands of land use planning revision, considering the principle of land use data sharing, the full using of the results of farmland classification in basic farmland protection planning was discussed, which is that the farmland integrated grading was considered as an important factor in the process of spatial distribution for the basic farmland. Based on the food supplies safety and the meaning of basic farmland, the technical method of which the decision-making model of basic farmland protection planning is the core was established. By the method of entropic coefficient, ideal points and GIS technology, a techno-route was established for the basic farmland spatial planning based on the Mapbasic programming and trying on the Mapinfo, the process from the analysis of the professional model to the auto-making of the planning map was accomplished, the decision-making support and visibility was realized for the basic farmland planning, which make the planning results more scientific and reasonable. Satisfying results were obtained by the demonstration in Jinan city.

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