

江苏农用地资源质量空间格局及影响机制研究

Spatial pattern and influence mechanism of farmland resources quality in Jiangsu Province

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作者	单位
任奎	南京大学地理与海洋科学学院, 南京 210093
周生路	南京大学地理与海洋科学学院, 南京 210094
张红富	南京大学地理与海洋科学学院, 南京 210095
吴绍华	南京大学地理与海洋科学学院, 南京 210096
郑群英	南京大学地理与海洋科学学院, 南京 210097

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中文摘要:

该文在农用地分等成果基础上,采用GIS技术、地统计学分析、景观生态学、典型相关分析相结合的方法,对江苏农用地资源质量空间格局及影响机制进行研究。结果表明:各农业区农用地资源质量结构差异和区域分异明显,表现出由南向北、由东向西两个方向上的递变规律。农用地资源质量空间格局的影响机制上,省域尺度主要受到地带性因素及大尺度的非地带性因素如大地貌单元等要素的控制;农业区尺度主要受到局部自然条件如土壤pH值、土壤有机质、耕层厚度等因素的制约和人类活动的影响,但主导因素有所差异;人类活动的扰动进一步影响了农用地资源质量的分布格局,使其更加复杂和多变。

英文摘要:

Based on the results of the farmland classification, the spatial distribution pattern of farmland resources quality in Jiangsu Province and its influence mechanism were studied by means of GIS, geostatistics analysis, landscape ecology, canonical correlation analysis. The results show that the differences of farmland resources quality in different agricultural regions are distinct. There was a degression of farmland resources quality from south to north and an increase from east to west. The influence mechanism was as follows: on the provincial scale, the farmland resources quality was mainly controlled by zonal factors and non-zonal factors of large-scale, just as large-geomorphic cells; on the agricultural region scale, it was controlled by local natural conditions such as soil pH value, soil organic matter, farming soil layer thickness and human activities, but the main factor was different in different agricultural regions; human activities further interfered the spatial distribution pattern of farmland resources quality, making it more complex and changeable.

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