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三峡库区农村居民点用地适宜性评价

Evaluation on suitability of rural residential land in Three Gorges Reservoir region

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英文关键词: [land use](#) [rural areas](#) [ecology](#) [three gorges reservoir region](#) [land suitability](#) [multi-factor comprehensive evaluation](#) [ArcGIS](#)

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中文摘要:

三峡库区是典型的生态敏感区域,巫山县地处三峡库区的腹心地带,生态环境脆弱,经济发展滞后。研究基于ArcGIS 10数据处理平台,结合成本加权距离,选取自然因素、经济因素、社会因素、环境因素等4个方面的7个因子综合建立评价指标体系,对农村居民点用地进行多因素综合评价。将巫山县农村居民点用地适宜性评价结果划分为4个等级:适宜、较适宜、基本适宜和不适宜用地,其面积分别占农村居民点总面积的9.52%、50.87%、34.58%和5.03%。研究该地区农村居民点用地适宜性,根据自然条件本底因素,结合库区社会经济发展条件进行适宜的土地资源开发利用是破解生态环境问题的关键,不仅有利于库区土地资源实现合理利用,而且有助于保护土地资源,促进区域可持续发展。

英文摘要:

The Three Gorges Reservoir region is a typical ecological sensitive area. Wushan county in Chongqing is situated in the central area of Three Gorge district. Its poor soil, extremely fragile ecological environment and stagnate economics are the major obstacles during development. Based on ArcGIS10 and cost weighted distance method, seven indexes involving the natural factors, economic factors, social factors and environment factors that affected the location of rural residential were chosen to evaluate suitability of rural residential land in this research. The result of suitability evaluation of rural residential land in Wushan county was graded into four classes, optimal, suitable, basically suitable and unsuitable rural residential land, accounting for 9.52%, 50.87%, 34.58%, 5.03% of total area of rural residential land respectively. Researches on rural residential land suitability, optimal land resources exploitation and utilization according to root physical factors and reality economy development conditions are the key countermeasures to solve the ecological environment problems. Suitability evaluation of rural residential land in this region is not only favorable to land resources exploitation and utilization, but also beneficial to land conservation and regional sustainable development.

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