

研究简报

白鹇种群分布与栖息地斑块特征的关系

郑家文^{1,2}, 丁平¹, 徐肖江¹, 夏贵荣¹

¹浙江大学生命科学学院, 杭州 310012; ²山东理工大学资源与环境工程学院, 淄博 255049

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摘要 为了解白鹇(*Lophura nycthemera*)种群分布与栖息地斑块特征之间的关系, 于1998年9月至1999年8月在浙江省古田山自然保护区及其外围地区对白鹇种群进行调查. 通过羽迹法调查并估计斑块内局部种群数量的相对大小, 分析斑块内植被及景观特征对斑块占有及种群相对密度大小的影响. 结果表明, 斑块面积、总盖度、乔木层盖度和灌木层高度等对斑块内有无白鹇出现影响显著, 斑块面积大、总盖度及乔木层盖度高、灌木层高度高的斑块内白鹇出现率高, 斑块面积大则局部种群的相对密度也大, 两者间呈极显著正线性相关.

关键词 [白鹇](#) [种群密度](#) [栖息地斑块](#) [古田山自然保护区](#)

分类号

Effects of habitat patch on *Lophura nycthemera* population

ZHENG Jiawen^{1,2}, DING Ping¹, XU Xiaojiang¹, XIA Guirong¹

¹College of Life Science, Zhejiang University, Hangzhou 310012, China; ²College of Resource and Environmental Engineering, Shandong University of Technology, Zibo 255049, China

Abstract

To understand the relationships between the distribution of *Lophura nycthemera* population and the attributes of habitat patch, this paper investigated the population of *L. nycthemera* in the National Gutian Mountain Natural Reserve and its periphery area in Zhejiang Province from September 1998 to August 1999. The relative population density of *L. nycthemera* in each patch was determined by transect census with collecting molted feathers, and the effects of vegetation and landscape characteristics on the relative population density and patch occupancy were analyzed by statistic methods. The results showed that the occurrence of *L. nycthemera* was significantly affected by patch area, total cover, arbor cover, and shrub height. High frequency occurrence of *L. nycthemera* was observed in the patches with large area, dense total cover, dense arbor cover and high shrub height, and high relative population density was found in large size patches. There was a significant positive linear correlation between relative population density and patch area.

Key words [Lophura nycthemera](#) [Population density](#) [Habitat patch](#) [Gutian Mountain Nature Reserve](#)

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