

白洋淀流域大鸨越冬栖息地的适宜性评价

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Suitability evaluation of great bustard (*Otis tarda*)' s wintering habitat in Baiyangdian basin .ZHAO Zhi-xuan^{1,2}, YAN Deng-hua², WENG Bai-sha^{1,2}, ZHANG Biao^{2,3}

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摘要 基于大鸨越冬期生境选择的相关研究成果, 结合专家意见和近年来白洋淀流域大鸨的分布点记录, 选择3项一级指标和13项二级指标, 用以表征影响大鸨越冬生境选择的关键因子, 并通过构建适宜性评价模型, 对白洋淀流域大鸨越冬生境的质量进行了评价。结果表明: 2005年, 白洋淀流域内大鸨越冬适宜栖息地面积11907.25 km², 占流域总面积的34.1%; 其中, 最适宜生境面积4596.25 km², 仅占流域总面积的13.2%。研究区最适宜生境的空间分布相对集中, 主要位于流域东部的白洋淀自然保护区及其周边(I区)和流域西南部的行唐、曲阳2县(II区)。I区和II区中最适宜生境面积之和达2803.55 km², 占流域内最适宜生境面积的61.0%。为保护流域内大鸨的越冬生境, 须重点针对上述2个区域的特点, 分别采取适当措施加以保护。

关键词: 大鸨 生境适宜性 地理信息系统 白洋淀流域

Abstract: Based on the related researches of great bustard' s wintering habitat selection as well as the advices of related experts and the distribution records of great bustard in Baiyangdian basin, 3 first class indices and 13 second indices were chosen to characterize the key factors affecting the wintering habitat selection of great bustard, and a habitat quality evaluation model was built to assess the quality of wintering habitat selection of great bustard in Baiyangdian basin. In 2005, the suitable wintering habitats of great bustard in the basin had an area of 11907.25 km², accounting for 34.1% of the total. Of the suitable wintering habitats, the most suitable habitats had an area of 4596.25 km², only 13.2% of the total and comparatively concentrated in two zones, *i.e.*, Baiyangdian Wetland Natural Reserve and its peripheral area (zone I) in the east of Baiyangdian basin, and Xingtang and Quyang counties (zone II) in the southwest of Baiyangdian basin. The total area of the most suitable habitats in zone I and zone II was 2803.55 km², accounting for 61.0% of the most suitable habitats in the basin. To protect the wintering habitat of great bustard in the basin, proper measures should be taken according to the environmental features of the two zones.

Key words: great bustard (*Otis tarda*) habitat suitability GIS Baiyangdian basin

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