

草坪杂草入侵及其竞争效应

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摘要:

以华中农业大学校园的建植草坪为研究对象,以机械布点方式进行样地布设。在所设置的85块样地中进行物种名录调查与统计,并对其中不同光照条件、建植年限及人工管理水平等17块典型样地进行物种特征值调查与计算,以物种重要值来反映该物种在群落中的地位与优势程度。结果表明,在所建植的草坪内入侵植物达141种,隶属39科,其中菊科、蝶形花科、伞形科、石竹科等杂草通过入侵、定居、生长和繁殖,成为优势物种。入侵物种的分布及其竞争能力受光照条件、土壤质地、建植草坪草物种特性及人工管理的影响。管理技术措施,如遮荫、松土、施肥、灌溉及去除杂草是影响其竞争能力的最直接因素。

关键词: 草坪; 入侵种; 竞争; 演替

Weeds invading and the competition impact in turf

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Abstract:

Totally 85 turf plots on campus of Huazhong Agricultural University were investigated regarding invasive species, and then 17 typical plots with different light conditions, ages and management levels were used to determine the important value of each species in order to identify the statue and competition ability in community. The results showed that there were about 141 invasive species that belongs to 39 families. Those species from Compositae, Papillionaceae, Pmbelliferae and Caryophyllaceae became dominants through competition. The competition ability and distribution for the invasive species were affected by sunlight, soil, species characteristics and turf management level. All management approaches, such as shading, irrigation, soil loosing, fertilization and weeds controlling, were the direct factors affecting competition ability of invasive species.

Keywords: turf invasive species competition succession

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