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前植物生产层

草坪生态系统中碳汇与碳源的研究进展

高伟平, 熊雪, 周禾

摘要:

本文综述了国内外关于草坪生态系统中碳汇与碳源的相关研究以及各种自然环境因子和人为管理措施对草坪生态系统中碳汇与碳源影响的研究进展, 并指出目前研究存在的问题和需要改进的方面, 从而为今后的相关研究提供参考。

关键词: 草坪生态系统 碳汇 碳源

Research progress on carbon sinks and carbon sources in the turfgrass ecosystem

GAO Wei ping, XIONG Xue, ZHOU He

Abstract:

The research progress of carbon sinks and carbon sources in the turfgrass ecosystem both at home and abroad was reviewed in this paper. In the first part, the paper reviewed three aspects: 1) turfgrass biomass, leaf area index and net primary productivity; 2) dynamic changes of soil organic carbon accumulation in the turfgrass ecosystem; 3) soil respiratory intensity. In the second part, it discussed the main research methods of carbon sinks and carbon sources in the ecosystem. There are two main methods, which are eddy correlation and chamber measurements. Furthermore, in the third part, we summarized different factors affected the dynamics of carbon sinks and carbon sources. The factors could be summed as two aspects, which on the one hand was natural environmental factors, such as photosynthetic active radiation, atmospheric temperature, soil moisture content and soil temperature; on the other hand was human factors, including mowing, fertilization and irrigation, etc. In the last part of the paper, it also indicated problems of the present researches and the sides to be improved. This paper thus provides reference information for relevant researches in the future.

Keywords: turfgrass ecosystem carbon sink carbon source

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