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盘锦湿地芦苇群落生物量动态特征研究

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摘要 基于2005年4～9月盘锦湿地芦苇生态系统的观测资料,分析了盘锦湿地优势植物芦苇的群落学特性。结果表明:地上生物量峰值出现在7月,4～7月茎重与叶重呈显著的正相关;地下生物量存在明显的季节和垂直变化,其中0～30 cm的芦苇须根最大值出现在7月,根茎最大值出现在6月,30～40 cm深度为生物量变化在垂直剖面的分界线;根冠比以7月为最低,分层营养物质在30 cm以下积累。

关键词 湿地 芦苇 群落生物量 根冠比 动态特征

分类号

Study on biomass dynamics of Phragmites communis community in Panjin wetland

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Abstract Based on the biomass observation data of Phragmites communis community in Panjin wetland during growing season in 2005,the characteristics of its biomass were analyzed.The maximum value of aboveground biomass appeared in July.There was significant positive correlation between the weights of the stem and leaf from April to July.The belowground biomass presented obviously seasonal and vertical changes.The maximum values of fibre biomass and rhizome biomass from the depth of 0 to 30 cm appeared in July and in June,respectively.The soil depth of 30～40 cm could be taken as a shift depth of the vertical distribution of Phragmites communis belowground biomass.The value of root-shoot ratio was the lowest in July,and the nutriment accumulated under the soil depth of 30 cm.

Key words Wetland Phragmites communis Biomass Root-shoot ratio Dynamic characteristics

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