

安徽池州森林植被碳贮量调查及分析

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Carbon Storage of Forest Vegetation in Chizhou of Anhui Province

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摘要

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摘要 气候变暖及应对是国际社会关注的焦点,也是当前学术界的研究热点,森林植被碳汇定量评估是气候变化应对研究的重要方面。安徽池州是国家首个生态经济示范区,也是“生态安徽”建设试点市。利用2009年森林清查资料,采用调查研究、模型研究和文献研究等手段,基于不同林分生物量与蓄积量回归方程、全干生物量的计算方法,揭示了池州森林植被碳贮量。结果表明:池州总生物量为 $3.598\ 879\ 0\times 10^7$ t,总全干生物量为 $3.513\ 103\ 1\times 10^7$ t,总碳贮量为 $1.716\ 13\times 10^7$ t,碳密度为 $34.70\ \text{t}\cdot\text{hm}^{-2}$ 。该文有助于加深政府部门及公众对池州森林植被巨大碳汇生态服务功能的认识,为制定生态立市发展战略提供理论依据,从而增强人们保护池州森林植被的积极性与主动性。

关键词: 碳贮量 池州 气候变化 森林植被

Abstract: Climate warming and responses become the focus of international attention and academic research. Quantitative assessment of forest vegetation carbon sequestration is an important aspect of climate change research. Chizhou is the first eco-economy demonstration area in China and also the pilot city of construction in ecological Anhui Province. With forest inventory data from 2009, we used investigation, models, literature search and other methods to show carbon storage of forest vegetation in Chizhou based on calculating biomass of different stands and volume regression equations on the whole dry biomass. The total biomass of Chizhou is 35.988 790 million t; the total whole dry biomass 35.131 031 million t; the total carbon storage is 17.161 3 million t, and the carbon density is $34.70\ \text{t}\cdot\text{hm}^{-2}$. This article can help government departments and increase public awareness about the huge forest vegetation ecosystem services of carbon sequestration in Chizhou to provide a theoretical basis for establishing the eco-city development strategy; it also enhances the enthusiasm and initiative of forest vegetation protection in Chizhou.

Keywords: carbon storage Chizhou climate change forest vegetation

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