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Analysis of Ecological Service of Forest Ecosystem in Qilian Mountain

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Forests have many kinds of ecological services. One of them produces organisms. In fact, organism production is the process of synthesis and accumulation of carbon. As the biggest pool of terrestrial carbon storage, forests have played an important role in the concentration of atmospheric carbon dioxide. Based on direct field measurement of biomass and productivity, we built a regression equation between stand biomass and volume to estimate the total biomass of two main forest types in Qilian Mountain. The object is to analyze their ecological service of storing carbon. The results showed that total carbon storage was $99.88 \times 10^4 \text{t}$ in 1995 because of fossil fuel burned by industrial activities. From the view of point of the region, the forest has effect on balancing the concentration of atmospheric carbon dioxide. With the increase of industrial activities, the trend of atmospheric carbon dioxide is increasing. Therefore, breeding and management of current forest is very important.

【Key Words】 : **biomass carbon storage carbon density Qilian mountain.**

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