ชื่อเรื่อง **Studies on the Effects of the Soil and Water Conservation of Vetiveria Zizanioides in Eucalyptus Plantations**

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Abstract

In the new forestation land of Eucalyptus ABL No. 12 plantation, at Yangxi country, Guangdong province, China, three experiment plots, included a row of vetiver grass in two rows of trees, a row of stylo grass in two rows of trees and only trees without any grass (the control plot), were set up in April 1991. The runoff plot had been established in each plot and the laws of changes in rain height, surface loss rate of soil and water were observed and studied. The three-year observation results indicated that the surface runoff rate in vetiver grass was 20351 t/hm^2, which was 15.2% lower than that of stylo grass and 58.5% lower than of the control plot. The solid less was 68.2 t/hm^2, which was 28.2 lower than that of stylo grass and 51.1% lower than that of the control plot. The less rate of the solid and liquid nutrients were also much lower than that of the stylo grass and control plot. The vetiver grass hedge can not only resist erosion, but promotes tree growth as well.