

ชื่อเรื่อง

A Study on Root Depth and Density of Vetiver Grass

ชื่อผู้วิจัย

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Abstract

A study on Vetiver root depth and their density in artificial bed was conducted by using the soil sample serie "Roi Et" at Sakon Nakhon Field Crops Research Center starting in May 1993. Soil samples were collected from different depths at 5, and 10 cm and were classified based on the soil Solum. Eight ecotypes of vetiver were planted to observed their root depth and density. The result obtained will be employed for the selection of the appropriate ecotypes for using in soil and water conservation activity.

The result indicated that the soil series Roi Et has a high acidity with average pH 4.65, OM equal 0.41%. The soil is impoverished and lacks P_2O_5 and K_2O . The vetiver ecotype Buri Ram has a root depth up to 315 cm. and the ecotype Loei has the highest root density average dry weight 1,000 gm/clump. The ecotype Pang Kwang-Chiang Mai has the most shallow root depth and less density not appropriate for use in soil and conservation work.