

ชื่อเรื่อง

Integrated Vetiver Grass in Cassava Based-Cropping Systems

ชื่อผู้วิจัย

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Abstract

A field experiment was conducted in the experimental farm, faculty of agriculture, Khon Kaen University during the rainy seasons of 1993-1994 and 1994-1995. The main objective of the study is to investigate the effect of intercropping cassava with vetiver grass on the cassava tuber yield in the row located adjacent to a vetiver grass row. Cassava yield was decreased by 14 and 9% in the year 1993-1994 and 1994-1995 with the treatment of two rows vetiver grass intercropped between the cassava row at plant spacing 2x1 meter as compared to the treatment with no intercropping. In 1994-1995, cassava yield was obtained from the row where located beyond the vetiver grass higher than that of the treatment with no intercropping. Vetiver grass total dry matter was highest 784 gm/hill/year (3 cutting) when they intercropping 1 row between cassava row with the spacing of 1x1 meter in the year of 1994-1995. Vetiver grass horizontal root growth extended to a 50 cm distance, however, beyond this area the small amount of root length density was observed. This study indicated that intercropping of cassava to reduce surface run-off should be designed as cassava and vetiver grass row are located at least 1 meter apart. Two rows of vetiver grass is recommended for more productive soil erosion control.