

ชื่อเรื่อง

**Study of Optimum Rows and Different Plant Spacings of Vetiver Grass for
Soil Erosion Control on Sloping Land**

ชื่อผู้วิจัย

Pitak Intaphan, Sawatdee Boonches and Sasriprapa Vathatum

ชื่อหน่วยงาน

Land Development Department, Ministry of Agricultural and Cooperatives,
Bangkok, THAILAND

ปีที่ดำเนินการ

ปีที่พิมพ์รายงาน

Abstract

The optimum rows and plant spacings of vetiver grass to control soil erosion on sloping land was studied at Chiang Dao District, Chiang Mai Province during 1993-1994. A randomized complete block design with 3 replications and 7 treatments were observed. The treatments were single and double rows of vetiver grass with hill spacing at 10, 15 and 20 cm., the distance between rows of double row treatments was 30 cm. compared with the farmers' practice treatment (without vetiver grass).

The results indicated that single row planting obtained better growth than planting at double rows. Wider hill spacing also provided a higher tiller number and bigger hill size than close spacing. There were not significant differences in crop's yield among the treatments. By planting vetiver grass in single or double rows gave significantly differences in reducing soil loss than without vetiver grass and there was no differences between the single and double rows. Moreover, those treatments tended to conserve soil moisture longer than that of farmers' practice treatment.