

ชื่อเรื่อง

A Test on the Use of Vetiver Grass With Some Soil Conservation and Improvement Measures for Sustainability in Cassava-Based Cropping (Sword Bean)

ชื่อผู้วิจัย

Chumpol Konsilp and Adul Srisupan

ชื่อหน่วยงาน

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

ปีที่ดำเนินการ

ปีที่พิมพ์รายงาน

Abstract

The test on the use of vetiver grass with some soil conservation and improvement measures for sustainability in cassava based cropping was carried out on Nam Pong soil series at Mahasarakam Province during 1993-1995. The treatments were (1) Cassava without any soil conservation or improvement measure. (2) Cassava with sword bean as cover crop (3) Cassava with sword bean and vetiver grass without seedbed. (4) Cassava with sword bean and vetiver grass with seedbed (5) Cassava with sword bean and mango in vetiver row without seedbed (6) Cassava with sword bean and mango in vetiver row with seedbed.

The results indicated that treatment 3 and 4 which including soil conservation by vetiver grass and soil improvement by sword bean showed good result in reducing soil loss and increased the cassava's yield from 30-43% in the first year and 46-48% in the second year. There was a potential to plant mango in the system but termites had to be controlled.