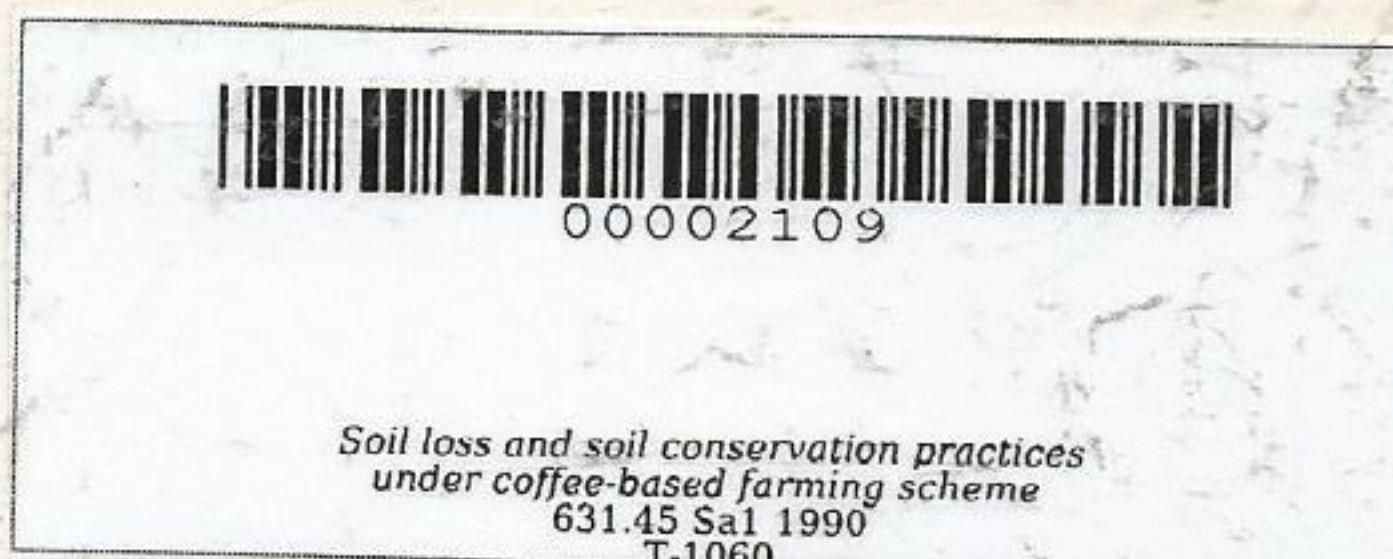


^cSOIL LOSS AND SOIL CONSERVATION PRACTICES
UNDER COFFEE-BASED FARMING SCHEME

An Undergraduate Thesis
Presented to the Faculty of the
Don Severino Agricultural College
Indang, Cavite

In Partial Fulfillment of the
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of Science in Agricultural Engineering
(Major in Soil and Water Management)



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A B S T R A C T

DE SAGUN, JUNIBERT ERSANDO. Don Severino Agricultural College, Indang, Cavite, April 1990. "Soil Loss and Soil Conservation Practices Under Coffee-Based Farming Scheme." Eng'r. Eufemio G. Barcelon (Adviser).

The study, "Soil Loss and Soil Conservation Practices Under Coffee-Based Farming Scheme", was conducted in three Barrios of Indang, Cavite namely: Kayquit, Mahabang Kahoy and Carasuchi from October, 1989 to February, 1990. It aimed to determine the amount of surface runoff and sediment yield under different slope gradients and the soil conservation practices under coffee-based farming scheme.

Three areas of different slopes were used in the study. Nine erosion plots with a dimension of 3 meters x 6 meters were used. The slopes used were: 23%, 30% and 38%.

A random sampling survey was made to get information on the different soil conservation practices under coffee-based farming scheme. A set of questionnaires patterned to different soil conservation practices was given to the coffee growers.

A highly significant result was attained in the amount of surface runoff and sediment yield. The 38%

slope had the greatest amount of surface runoff and sediment yield. This has value of $1466.34 \text{ m}^3/\text{ha}$ and 8089.55 kg/ha , respectively. This was followed by the 30% and 23% slopes, respectively.

The common soil conservation practices used were mixed cropping, maintenance of soil cover/vegetation, mulching and contour farming.

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