Thesis Title	THE ECONOMIC STUDY ON RUX FIBER (CALOTROPIS GIGANTEA) FARMING AND LOCAL FABRIC PRODUCTION FROM RUX FIBER
Name	Uthai Chareonwong
Degree	Master of Science (Technology of Environmental Managemnt)
Thesis Supervisory Committee	Thanakorn Uan-On, D.Engr. Lek Monchareon, M.Sc. Manu Srikhajon, M.Sc. Pinai Orrungroage, M.Eng.
Date of Graduation	16 April B.E.2533 (1990)

ABSTRACT

The objectives of this study were to conduct the economic evaluation of Rux (Calotropis gigantea R.Br.) fiber farming and Rux fabric making under the various management trials.

Rux stems and seeds were collected from all five physiographic regions of Thailand and germinated by stem cutting after the selection from each region according to their ecotypes. The planting experiment was designed in order to collecting cost in Rux fiber farming of each selected superior clones under management trials. Five sets of management trial had been experimented in 2 phases. In the first phase, there were High input (H1) and Low input (L1) with 2x2 metres spacing

between tree. In the second phase, there were High input (H2), Medium input (M2), and Low input (L2) with 3x3 metres spacing between tree. All of management trials were differentiated by level of input such as fertilizer, pest control, weeding, and watering.

The study results revealed that in high input with 2x2 metres spacing, the highest yield clone was N 07 with 65.09 kilogram per rai and 76.17 Baht per kilogram of fiber. In low input with 2x2 spacing, the highest yield clone was N 07 with 22.71 kilogram per rai and 94.10 Baht per kilogram.

In high input with 3x3 metres spacing, the highest yield clone was N 07 with 18.53 kilogram per rai and 205.39 Baht per kilogram. In medium input, the highest yield clone was N 07 with 15.96 kilogram per rai and 206.04 Baht per kilogram. In low input, the highest yield clone was N 06 with 4.88 kilogram per rai and 332.89 Baht per kilogram.

After spinning to yarn by blending Rux fiber with cotton in weight ratio 1:1, fabric was woven and introduce the cost of 27.85-107.87 Baht per metre which relied on costs per kilogram of fiber and fiber output in each management trial.

Rux farming show the obvious benefit of planting this tree for the second source of income for small land holders and fabric cottage industry.