

AN EVALUATION OF THE SHIFTING CULTIVATION SYSTEM OF
THE BADUY SOCIETY IN WEST JAVA USING SYSTEM MODELING

JOHAN ISKANDAR

THESIS SUBMITTED TO THE GRADUATE SCHOOL IN
PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF

MASTER OF SCIENCE
(AGRICULTURE)

IN AGRICULTURAL SYSTEMS

GRADUATE SCHOOL

CHIANG MAI UNIVERSITY

CHIANG MAI, THAILAND

SEPTEMBER 1991

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright © by Chiang Mai University
All rights reserved

AN EVALUATION OF THE SHIFTING CULTIVATION SYSTEM OF
THE BADUY SOCIETY IN WEST JAVA USING SYSTEM MODELING

JOHAN ISKANDAR

THIS THESIS HAS BEEN APPROVED TO BE PARTIAL
FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
MASTER OF SCIENCE (AGRICULTURE)
IN AGRICULTURE SYSTEMS

EXAMINING COMMITTEE

B. Shinawatra CHAIRMAN
(Dr. Benchaphun Shinawatra)

Manu Seetisarn MEMBER
(Dr. Manu Seetisarn)

M. Ekasingh MEMBER
(Dr. Methi Ekasingh)

Sakda Jongkaewattana MEMBER
(Dr. Sakda Jongkaewattana)

SEPTEMBER 1991
Copyright of the Graduate School, Chiang Mai University

ACKNOWLEDGEMENTS

I wish to express my appreciation and gratitude to those who have made it possible for me to complete this thesis. Dr. Benchaphun Shinawatra, my academic advisor and thesis supervisor patiently, provided valuable guidance and suggestions from the early initiation of the study to the printing of the final draft. Dr. Manu Seetisarn and Dr. Methi Ekasingh thesis committee members, were particularly helpful in my studies providing valuable recommendation as well as comments on the thesis. Dr. Sakda Jongkaewwattana, for his valuable suggestion and timely correction of my manuscripts.

I wish to express my appreciation and gratitude to Arjan Phrek Gypmantasiri, Associate Director, Multiple Cropping Center, Dr. Kanok Rerkasem and Dr. Benjavan Rerkasem professors of the program and Dr. Terry Rambo Research Associate and Coordinator of the Program on Human Ecology at the Environment and Policy Institute, East West Center, Hawaii, USA for their constructive suggestions and generosity in sharing me many research experiences in Agroecosystem. I wish also to express my appreciation and gratitude to Prof.Dr.Ir. Otto Soemarwoto, professor of Bio-Management at the Department of Biology, Faculty Mathematics and Natural Science and Director of the Institute Ecology, Padjadjaran University, Bandung, Indonesia. He provided valuable guidance and suggestions in the conduct of my research at Baduy area,

Kanekes Village, West Java, Indonesia. He supported me as scholarship student at Chiang Mai University.

I am also greatly pleased to thank Prof.Dr. Theodore.C.Foin, Division of Environmental Studies, University of California, Davis, and Prof.Dr. Jeff Romm, Natural Resources Management Program, University of California, and Mr. Andrew Mittelman, agroforestry technical advisor, who have given their comments and suggestions.

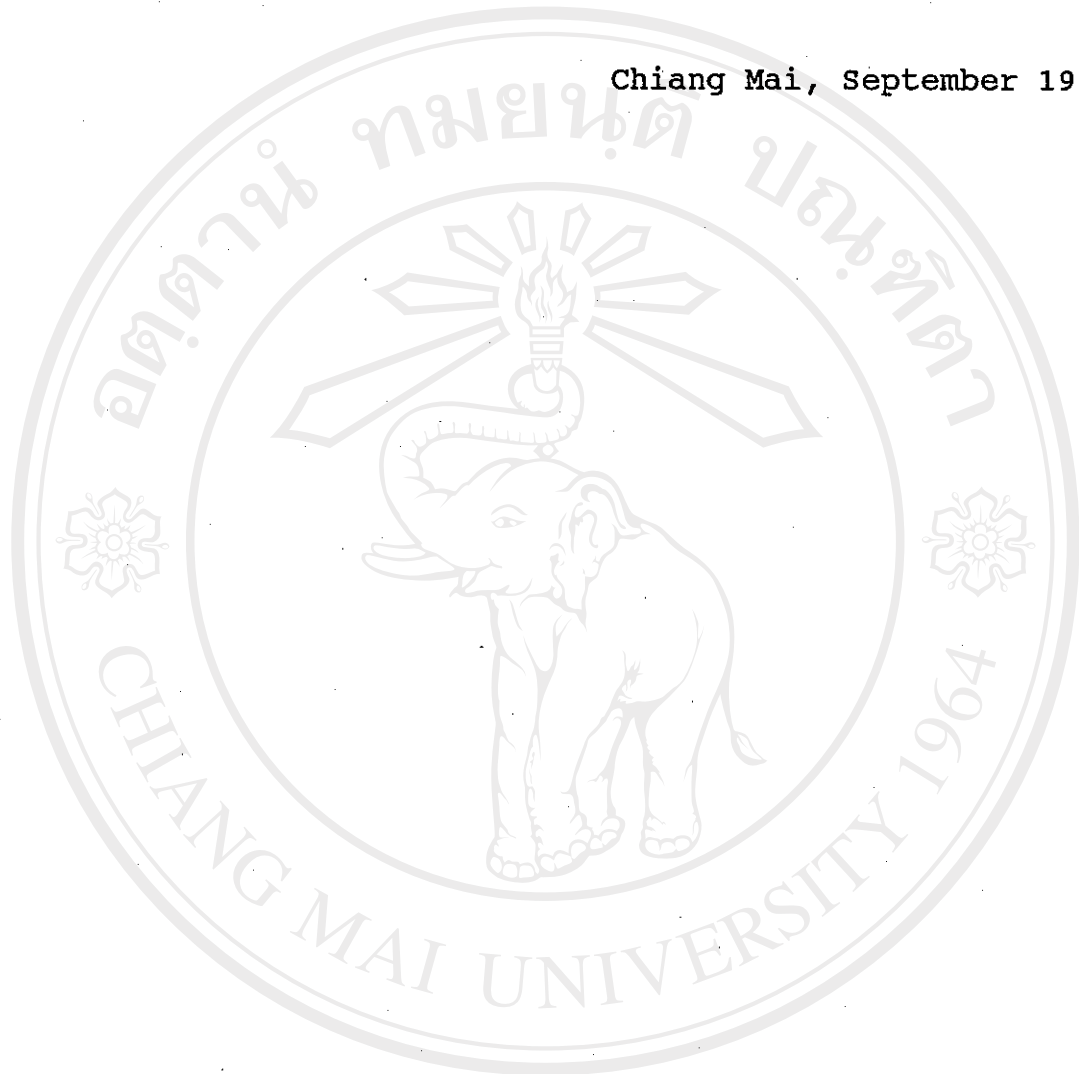
During my study, I profited from the many experiences in studying and working together with friends, particularly the second batch of Agricultural Systems Programme student, Faculty of Agriculture, Chiang Mai University i.e Anang, Ellen, Suporn, Wawta, Tongma, Zhang and Zhong. I wish to thank these friends that for sharing their knowledge. I really enjoyed studying together in our program.

I am greatly indebted to the Ford Foundation which gave me financial support for my study in Chiangmai as well as financial support given through the Institute of Ecology, Padjadjaran University Bandung, for conducting my research in Baduy area, West Java. I also want to thank the Multiple Cropping Center, Chiang Mai University for providing the financial assistance for analysing and writing my thesis.

I also thank all staff of the Multiple Cropping Center, Chiang Mai University, who kindly helped with academic administration matters during my study in Chiang Mai.

Lastly, I wish to thank my family, particularly my wife Wati.J. Iskandar who give me continuous moral support during my studies.

Chiang Mai, September 1991



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

Copyright© by Chiang Mai University

All rights reserved