

UNIVERSITI PUTRA MALAYSIA

WOMEN'S ACCESS TO TRAINING IN THE RUBBER SMALLHOLDER SECTOR IN THE DISTRICT OF **HULU LANGAT, SELANGOR DARUL EHSAN, MALAYSIA**

VANAJA R. VAITHYANATHAN

FPP L 1995 2



WOMEN'S ACCESS TO TRAINING IN THE RUBBER SMALLHOLDER SECTOR IN THE DISTRICT OF HULU LANGAT, SELANGOR DARUL EHSAN, MALAYSIA.

VANAJA R. VAITHYANATHAN

MASTER OF SCIENCE UNIVERSITY PERTANIAN MALAYSIA 1995



WOMEN'S ACCESS TO TRAINING IN THE RUBBER SMALLHOLDER SECTOR IN THE DISTRICT OF HULU LANGAT, SELANGOR DARUL EHSAN, MALAYSIA.

By

VANAJA R. VAITHYANATHAN

Thesis Submitted in Partial Fulfilment of the Requirements for the Degree of Master of Science in the Centre for Extension and Continuing Education, University Pertanian Malaysia.

April 1995



ACKNOWLEDGEMENTS

First and foremost, I am thankful to God for providing me this opportunity and the endurance to complete this Masters programme successfully. I also acknowledge the help and support of all individuals and institutions that made this research a reality. indebted for the financial support and necessary facilities kindly provided by the Government Malaysia, Rubber Research Institute of Malaysia and Universiti Pertanian Malaysia. For the support and assistance I am thankful to the Institute's Director, Dr. Abdul Aziz bin S.A. Kadir, Assistant Director, Department of Development and Extension, Dr. Wan Abdul Rahman bin Wan Yaacob, Head, Project Implementation and Development Division, Dr. Najib Lofty bin Arshad and to the chairperson of my supervisory committee, Dr. Hjh. Mazanah bte Muhamad.

In the course of completing my thesis, I was greatly assisted by many generous and talented people. To my committee members, Dr. Hjh. Mazanah bte Muhamad, Assoc. Prof. Dr. Hj. Saidin bin Teh and Dr. Hj. Turiman bin Suandi I am grateful for their guidance, counsel and support throughout my graduate work. Special



thanks goes to Dr. Hjh. Mazanah who was instrumental in skills of inquiry in developing mу in-depth interviewing and who provided constructive criticisms and stimulating ideas throughout the research. also grateful to Assoc. Prof. Dr. Ng Choon Sim, Y. M. Dr. Raja Ahmad bin Tajuddin Shah, Assoc. Prof. Dr. Hj. Azimi bin Hj. Hamzah, Assoc. Prof. Dr. Hjh. Aminah bte Ahmad and Dr. Hjh. Maimunah bte Ismail of Universiti Pertanian Malaysia for providing useful insights and relevant reading materials, and to Professor Dr. Carter rendered valuable advice and guidance qualitative methodology during his term as Visiting Professor to Universiti Pertanian Malaysia.

I would like to express my special appreciation to RRIM officers and extension staff especially, Tuan Hj. Rosley bin Abdullah, Y. M. Dr. Raja Badrul Shah bin Raja Shah Kobat, Encik Azmi bin Din, Encik Chooi Phooi Seng and Encik Zamri bin Abd. Rahman; RISDA staff, particularly, Encik Moneyvellu, Encik Hamid, Puan Sukiam, Hajjah Hasnah and other extension personnel; and MARDEC staff, Encik Sallehudin for their assistance and facilitation in obtaining data and access to the respondents of the study as well as Puan Siti Mariam bte Mohd Rashid for helping in the translation of the



abstract. My special thanks also go to all the women respondents, village heads and local leaders who participated in this study and made this research a reality.

Last, but not least, I wish to express my thanks to my husband, Veeramuthu, and my children, Nalina Selvi and Dinesh Kumar who have provided an endless stream of love, support, patience and encouragement. My husband has been a source of great strength and provided a guiding hand throughout my study.

While all these people are acknowledged for their help in making this study a reality, they are in no way responsible for the interpretations and conclusions, as well as, any error inadvertently found in the thesis. I take full responsibility for them.



TABLE OF CONTENTS

	PAGE
ACKNOWLEDGEMENTS	iii
LIST OF TABLES	xi
LIST OF FIGURES	xii
ABSTRACT	xiii
ABSTRAK	xvi
CHAPTER	
I INTRODUCTION	1
Background of the Problem	1
Women and Training	5
Women and Productivity	12
Statement of the Problem	19
Objectives of the Study	20
Significance of the Study	20
Limitations of the Study	22
Scope of the Study	23
Definition of Terms	23
II REVIEW OF LITERATURE	25
Agriculture in Malaysia	26
Extension Education in Malaysia	28
Extension Education in Relation to Rubber	29
Women in Rubber Production Activities	32
Concept of Access and Participation	39



Concept of Gender Subordination	42
The Separate Spheres Approach	44
The Social Ideology Approach	46
Concept of Culture	48
Concept of Training	49
Definition of Adult Education	50
Theories, Models and Research on Adult Learning Motivation	52
Characteristics of Adult Learners Theory	53
Margin Theory	54
Proficiency Theory	55
Conscientisation Theory	56
Force Field Analysis	56
Expectancy-Valence Paradigm	58
Boshier's Congruence Model	59
Chain of Response Model	60
Past Experiences	62
Research on Motivational Orientations	63
Barriers to Learning and Related Research .	72
Situational Barriers	74
Institutional Barriers	75
Dispositional Barriers	76
Research on Barriers to Participation	78
Conceptual Framework	87
Concluding Remarks	93



III	METHODOLOGY 9
	Research Methodology 9
	Interview 9
	Location of Study Area 9
	Population and Sample
	Population 10
	Sample 10
	Data Collection 104
	Sources of Data 104
	Procedures of Field Work 109
	Data Analysis 110
	Data Categorization 112
	Realibility and Validity 116
	Limitations 122
	Lessons Learned 124
IV	FINDINGS AND DISCUSSION 127
	Findings 128
	Profile of the Respondents 128
	Membership in Organisations 141
	Number of Trainings Attended in the Past Three Years
	Nature of Training Attended 144
	Access to Training 150
	Owner Operators
	Owner Non-Operators 155



	Wives Helping Husbands	158
	Hired Tappers	165
	Reasons for Access and Non-Access to Training	169
	Reasons for Participation	170
	Reasons for Non-Participation	174
	Respondents Understanding of Training	179
	Respondents Experiences During Training	187
	Benefits and Losses from Training	192
	Benefits	193
	Losses	197
	Discussion	198
	Profile	198
	Objective One: To Identify Whether Women in the Rubber Smallholder Sector Have Access to Training	203
	Objective Two: To Identify Reasons Related to Women's Access and Non-Access to Training	216
	Objective Three: To Discover their Understanding of Training	225
	Objective Four: To Discover the Experiences during Training of Those Women Who had Access	226
	Objective Five: To Discover their Benefits and Losses from Training	227
J	SUMMARY, CONCLUSIONS, IMPLICATIONS AND RECOMMENDATIONS	230
	Problem	230
	Objectives	231



Methodolog	gy	231
Findings	•••••	233
Conclusion	ns	237
Implication	ons for Extension	241
Recommenda	ations	245
BIBLIOGRAI	РНҮ	250
APPENDICES	5	
A	Interview Guide: A Study on Women's Access to Training	262
В	Socio-Demographic Details of Respondents	267
BIOGRAPHIC	CAL SKETCH	270



LIST OF TABLES

Table		Page
1.	Number and Hectarage of Registered Smallholders by Farm Size and Sex	3
2	Number of Respondents by Location and Category	104
3	Age Distribution of Respondents by Category	129
4	Marital Status of Respondents by Category	130
5	Educational Attainment of Respondents by Category	131
6	Number of Years of Experience in Rubber Cultivation/Tapping by Category	132
7	Sources of Learning How to Tap	135
8	Size of Rubber Holdings Owned/Tapped by Category	138
9	Average Family Size of Respondents by Category	139
10	Average Monthly Income Reported by the Respondents by Category	140
11	Distribution of Respondents by Membership in Organisation by Category	142
12	Distribution of Respondents by Number of Trainings Attended in the Last Three Years by Category	143
13	Nature of Training Attended by Respondents by Category	145
14	Respondents Access to Training by Category	151
15	Respondents Reasons for Access and Non-Access to Training	169
16	Comparison of Motivational Factors Derived from Selected Studies	220



LIST OF FIGURES

Figure		Page
1	Flow of Technology Transfer Process at Regional/State Level	30
2	Modified Chain-of-Response (COR) Model for Understanding Participation in Adult Learning Activities	88
3	Map of Hulu Langat District in the State of Selangor Darul Eshan, Malaysia	99
4	A Summary of the Elements that Emerged from the Study	229



Abstract of thesis submitted to the Senate of Universiti Pertanian Malaysia in partial fulfilment of the requirements for the degree of Master of Science

WOMEN'S ACCESS TO TRAINING IN THE RUBBER SMALLHOLDER SECTOR IN THE DISTRICT OF HULU LANGAT, SELANGOR DARUL ESHAN, MALAYSIA

Ву

VANAJA R. VAITHYANATHAN

December, 1994

Chairman: Dr. Hjh. Mazanah bte Muhamad

Faculty: Centre for Extension and Continuing

Education

The focus of the study was on women's access to training which is operationally defined as getting to hear and participating in training in the form of short courses, workshops, seminars, demonstrations and study visits. The specific objectives of the study were: (1) to identify whether women in the rubber smallholder sector had access to training; (2) to identify reasons related to women's access and non-access to training; (3) to discover their understanding of training; (4) to discover the experiences during training of those women who had access; and (5) to discover their benefits and losses from training.





The data was obtained through in-depth interviews with 60 women respondents from several villages in three mukims (wards) in the district of Hulu Langat, Selangor Darul Ehsan utilizing the purposive sampling technique. Interviews with key informants comprising extension agents and local leaders and observation of training sessions were also conducted to provide the background context to the study.

The qualitative data showed that women who owned land had access to training. Owner operators and owner non-operators by virtue of being owners of their rubber holdings got to hear and participated in training regarding rubber cultivation. Membership in farmer's organisations and women's groups also enabled access to training on women's activities and other agricultural activities. Wives helping husbands got to hear about training regarding rubber from their husbands who were owners of the smallholdings. On the other hand, hired tappers who did not own rubber land and were not members of farmer's or women's organisations had minimal access to training.



for women's participation in training informed and invited; 2) included: 1) to learn experience and knowledge; and obtain relevant 3) socialising and visiting new places. Reasons for non-participation were: 1) not informed and invited; 2) baby-sitting and household duties; 3) commitments; 4) other work commitments; and 5) age and health.

The findings generated are useful for extension policy and programme planning for women in the rubber smallholder sector, particularly, pertaining targeting training activities to those who actually carry out the rubber farm activities. Theoretically, the study contributed towards literature regarding participation in adult education where the modified COR model incorporating concepts such as culture and gender subordination was found useful in understanding women's access to training in the rubber smallholder sector. The study concluded that culture and subordination should be included in adult education participation and non-participation studies especially non-western situations for more meaningful understanding of the phenomenon.



Abstrak tesis yang dikemukakan kepada Senat Universiti Pertanian Malaysia sebagai memenuhi sebahagian daripada syarat untuk mendapatkan Ijazah Master Sains

AKSES WANITA KEPADA LATIHAN DI SEKTOR PEKEBUN KECIL GETAH DI DAERAH HULU LANGAT, SELANGOR DARUL ESHAN, MALAYSIA

Oleh

VANAJA R. VAITHYANATHAN

Disember, 1994

Pengerusi: Dr. Hajjah Mazanah Muhamad

Fakulti: Pusat Pengembangan dan Pendidikan

Lanjutan

Tumpuan kajian ini adalah akses wanita kepada ditakrifkan latihan yang sebagai mendengar dan menghadiri latihan dalam bentuk kursus pendek, bengkel, seminar, demonstrasi dan lawatan sambil belajar. Objektif spesifik kajian ini adalah: (1) untuk mengenal pasti sama ada wanita disektor pekebun kecil getah mendapat akses kepada latihan; (2) untuk mengenal pasti sebab mengapa wanita mendapat atau tidak mendapat akses kepada latihan; (3) untuk mengetahui kefahaman wanita terhadap latihan; (4)untuk mengetahui pengalaman mereka yang mendapat akses; dan (5) untuk mengetahui faedah dan kerugian dari latihan.

xvi





diperolehi melalui temubual Data telah yang mendalam dengan 60 orang wanita di beberapa kampung di tiga mukim di daerah Hulu Langat, Selangor Darul Eshan kaedah dengan menggunakan pensampelan bertujuan. Temubual dengan "key informants" yang terdiri dari egen pengembangan dan ketua-ketua tempatan juga dijalankan untuk mengetahui konteks latar belakang kajian beserta dengan pemerhatian sesi latihan.

Data kualitatif menunjukkan bahawa wanita yang memiliki tanah mempunyai akses kepada latihan. pengusaha serta pemilik bukan pengusaha mendapat tahu dan menyertai latihan mengenai getah kerana memiliki kebun getah. Mereka juga menjadi ahli Pertubuhan Peladang dan Kumpulan Wanita yang seterusnya memberi akses kepada latihan mengenai getah, aktiviti-aktiviti wanita dan lain-lain aktiviti pertanian. Isteri-isteri yang membantu suami mereka mendapat tahu mengenai latihan tanaman getah melalui suami mereka yang memiliki kebun getah. Sebaliknya, penoreh upahan yang tidak memiliki kebun getah dan tidak menjadi ahli pertubuhan peladang atau wanita di dapati tidak mendapat akses kepada latihan.

xvii



Kajian ini menunjukkan bahawa sebab-sebab wanita menyertai latihan termasuklah: (1) mereka diberitahu dan diundang; (2) mereka ingin mempelajari dan mendapat pengalaman dan pengetahuan; (3) kesempatan bergaul dan melawat tempat-tempat baru. Sebab-sebab wanita tidak menyertai latihan adalah: (1) tidak diberitahu dan tidak diundang; (2) menjaga anak/cucu dan mengurus kerja rumah; (3) urusan keluarga; (4) urusan kerja lain; dan (5) umur dan kesihatan.

Hasil kajian yang diperolehi sangat berguna dalam merangkakan polisi dan program perancangan, terutama sekali dalam menumpukan aktiviti latihan kepada mereka sebenarnya terlibat yang dengan penanaman Secara teori, kajian ini telah memberi sumbangan kepada hasil pengajian mengenai penyertaan dalam pembelajaran dewasa di mana model COR yang telah diubahsuai dengan menggunakan konsep-konsep seperti budaya dan penindasan jantina telah didapati berguna dalam memahami akses wanita kepada latihan. Kajian ini telah membuat kesimpulan bahawa budaya dan penindasan jantina harus dimasukkan dalam kajian-kajian penyertaan dan tiada penyertaan dalam pembelajaran dewasa, terutama dalam situasi-situasi ketimuran bagi pemahaman yang lebih bermakna terhadap finomena tersebut.

xviii



CHAPTER 1

INTRODUCTION

Background of the Problem

The Natural Rubber (NR) industry has played a major role in the Malaysian economy since colonial times. Half a million families in Malaysia are directly or indirectly engaged in its cultivation. In 1993, NR contributed approximately 2 percent of Malaysia's total export value of primary commodities and ranked fifth after petroleum, timber, palm oil and liquefied natural gas (Economic Report 1993/94). The share of rubber to total agricultural value added was 11.8 percent. terms of employment, approximately 770,000 people were engaged in rubber production. This is equivalent to 12 percent of the total labour force employed in the country and about 40 percent of that employed in the agricultural sector. Of the total number employed, about 419,000 were working on individual holdings and 17,000 in organised schemes. On the whole, it is estimated that some 2.5 million people are dependent on the rubber industry for their livelihood. Smallholder



rubber production is basically a family activity where the holding is usually operated by a husband-wife team, as well as, other family members. As such a high percentage of women are involved in rubber production.

both by the estate Rubber is produced smallholder sub-sectors in the country. Estates are classified as being of more than 40 hectares (100 acres) in size and are well organised with high level of management efficiency and inputs. Rubber areas that less than 40 hectares in size are termed smallholdings. These rubber holdings are classified as organised and independent smallholdings; the former refers to agricultural land development schemes while the latter are individual scattered smallholdings. independent holdings are units that have been under individuals since their original alienations during the 1920s and 1930s, and subdivided holdings which are pieces of land arising from subdivision of estates, a practice which was started in 1950 and stopped in the mid-1960s due to undesirable social, economic 1992 political consequences. As at there were altogether 418,911 registered smallholders Peninsular Malaysia with a total land area of 1,276,530 hectares (Table 1). Of this 137,184 (33 percent) were smallholders owning approximately 335,922 women hectares.



Table 1

Number and Hectarage of Registered Smallholders by Farm Size and Sex

Farm Size	======	Number			ectarage	
rarm Size	Male	Female	Total	Male	Female	Total
<3 ha	232,058	124,097	356,155	774,820	303,887	1,078,707
3 - <5 ha	43,245	11,414	54,659	144,351	27,964	172,315
5 - <10 ha	4,705	1,303	6,008	15,748	3,188	18,936
>10 ha	1,719	370	2,089	5,689	883	6,572
Total	281,727	137,184	418,911	940,608	335,922	1,276,530

Source: Banci Pekebun Kecil RISDA 1992



The smallholder sector is playing an increasingly important role in the nation's NR output. In 1993, out of the total production of 1,190 million tonnes, 74 percent was from the smallholder sector. In terms of total planted area under rubber, smallholdings occupied 82 percent (1,470,000 hectares) while 320,000 hectares were under estates. The national average yield per hectare for estates and smallholdings was 1,327 kilogrammes and 960 kilogrammes, respectively. (Rubber Statistics Handbook, 1993).

The yield gap between the estate and smallholder sector is still significant. This disparity can be attributed to fast adoption of speculative clones, advanced planting materials coupled with good agronomic, exploitation and processing practices in the estate sector. The well organised estate sector with high levels of management inputs has easy access and is efficiently adopt available technologies to generated from Research and Development (R associated with the rubber industry. On the other the smallholder sector, particularly hand. unorganised or individual smallholders, do not have such access and knowledge of available easy technologies. Whatever knowledge obtained is either from extension services provided by the various



relevant implementing agencies or neighbouring smallholders and estates.

In their efforts to bridge this yield gap between the estate and smallholder sectors, the Rubber Research Institute of Malaysia (RRIM) and Rubber Industry Smallholders Development Authority (RISDA) currently place greater emphasis on the adoption and usage of high yielding and promising planting materials, as well as, intensified efforts towards transferring relevant technologies to the smallholder sector. One way in which this could be achieved is by providing training to smallholders.

Women and Training

women generally have poor access agricultural information and services. Their limited access to education and technical training further hinders progress. One FAO study found that women represented up to 80 percent of the food producers in some countries, but they received only two to ten (FAO, of the extension contacts percent Agricultural training is also mainly focussed on male farmers and extension personnel, both male and female, tend to overlook the needs of women farmers.



training programmes for women still emphasize domestic skills rather than agricultural skills though both are relevant and need to be combined.

Rahim M. Sail and Mazanah Muhamad's (1994) study regarding factors associated with non-adoption technology by rubber smallholders found that information holds the key to decision-making and change processes and hence, technology adoption. constraints, among them weakness in extension services and communication support system were found to form negative forces that act against the adoption of recommended practices. The authors were of the view that some of these constraints could be overcome or minimized with the provision and implementation of a systematic flow of information from research extension and from extension to smallholders. Training is an important flow of information that should be given due consideration.

A recent training needs assessment for smallholders found that rubber smallholders including women should be trained on ways and means to shorten immaturity period of rubber (Ibrahim Mamat, et al. 1992). This involved training on usage of good quality advanced planting materials, establishment of cover crops, proper fertilizer application, weed control and

