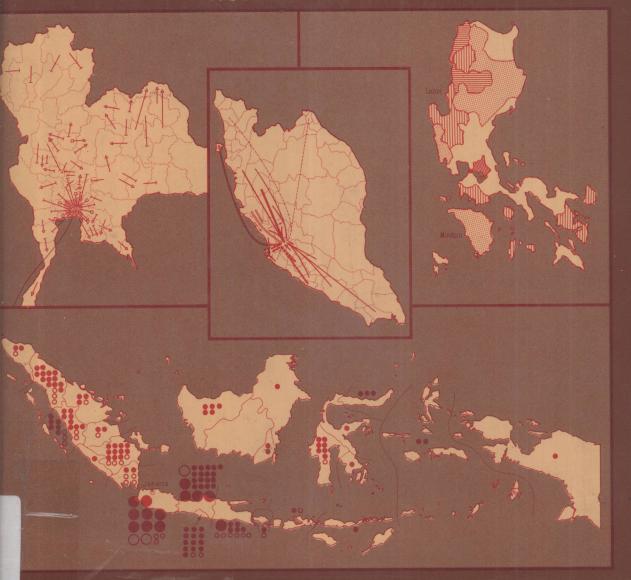
# Migration and Development in South-East Asia

A Demographic Perspective

Edited by ROBIN J. PRYOR



## Migration and Development in South-East Asia

**A Demographic Perspective** 

Edited by ROBIN J. PRYOR

KUALA LUMPUR
OXFORD UNIVERSITY PRESS
OXFORD NEW YORK MELBOURNE
1979

### Oxford University Press OXFORD LONDON GLASGOW NEW YORK TORONTO MELBOURNE WELLINGTON KUALA LUMPUR SINGAPORE JAKARTA HONG KONG TOKYO DELHI BOMBAY CALCUTTA MADRAS KARACHI NAIROBI DAR ES SALAAM CAPE TOWN

©Oxford University Press 1979

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of Oxford University Press

ISBN 0 19 580420 1 (Boards) ISBN 0 19 580421 X (Limp)

### **Acknowledgements**

INDIVIDUAL sources of assistance are acknowledged in the various chapters, but the Editor wishes to gratefully acknowledge the cooperation of the contributors and their institutions, and the support of the Department of Demography and the Research School of Social Sciences at the Australian National University (ANU) for funding data collection and field work. Keith Mitchell of the Cartography Labor-

atory, Department of Human Geography, ANU, drew the figures in fine style from some very rough originals; and Mrs. E. M. Schock and Mrs. B. Addison typed the manuscript with consummate good humour and accuracy.

This volume is dedicated to my parents, for their support in my migration and development.

### **Notes on the Contributors**

### Editor

Robin J. Pryor, Research Fellow in Demography, Research School of Social Sciences, Australian National University, Canberra, Australia, Dr. Pryor has a B.A., Dip. Ed. and M.A. in Geography from Melbourne University, and a Ph.D. from the University of Malaya, Kuala Lumpur. His major interests are urbanization and social change in South-East Asia, and in Australia. He is a member of the International Union for the Scientific Study of Population and of the Commission on Population Geography of the International Geographical Union. Monographs include Internal Migration and Urbanisation (1971); Spatial Analysis of Internal Migration, West Malaysia (1974); Movers and Stayers in Peninsular Malaysia (1975); The Motivation of Migration (1975); and Population Redistribution: Policy Research (1976). With I. H. Burnley and D. T. Rowland he is editing Mobility and Community Change in Australia.

### Contributors

Garth Cant, Senior Lecturer in Geography, University of Canterbury, Christchurch, New Zealand. Dr. Cant has an M.A. from the University of New Zealand and a Ph.D. from the University of Malaya. He is engaged in a long-term study of the evolution of the Philippine space economy since 1850 and has recently contributed to UNESCO projects on the application of social indicators to contemporary problems of spatial planning in Asia. Through the Malaysian Branch of the Royal Asiatic Society he has published the monograph *An Historical Geography of Pahang* (1973).

Benjamin V. Cariño, Associate Professor and Director of Research, Institute of Environmental Planning, University of the Philippines. He has a B.A. in Public Administration from the University of the Philippines and an M.A. and Ph.D. in Political Science from Indiana University. He specializes in

urban and regional development planning, applied urban economics, urban government and public administration. Monographs include *The Bicol River Basin Region* (1974) and *Socio-Economic Determinants of Internal Migration in the Philippines* (1973).

David W. Drakakis-Smith, Research Fellow in Human Geography, Research School of Pacific Studies, Australian National University, Canberra, Australia. He has a B.A., Dip. Ed. and M.A. from the University of Wales and a Ph.D. from Hong Kong University. His major research interests relate to the problems of rapid urban growth in developing countries, and in particular to the provision of housing for the urban poor. He has studied housing problems in Hong Kong, Singapore, Malaysia, Thailand and Turkey and has published monographs on Housing Provision in Metropolitan Hong Kong (1974), and (with W. B. Fisher) Housing in Ankara, Turkey (1975).

Alice Goldstein, Research Assistant, Population Studies and Training Center, Brown University, Providence, Rhode Island, U.S.A. She has a B.A. from Connecticut College, and is engaged in research on the interrelations among fertility, migration and urbanization in Thailand. She has also served as an editorial assistant for a volume of comparative country studies of urbanization sponsored by the Committee on Urbanization and Population Redistribution of the International Union for the Scientific Study of Population. She has co-authored monographs on *The Influence of Labor Force Participation and Education on Fertility in Thailand* (1972), and *Urban-Rural Migration Differentials in Thailand* (1974).

Sidney Goldstein, Professor of Sociology and Director, Population Studies and Training Center, Brown University, Providence, Rhode Island. Dr. Goldstein has a B.A. and M.A. from the University

of Connecticut, and a Ph.D. from the University of Pennsylvania. His major research interests are in migration, fertility, and urbanization and their interrelations, particularly in less developed countries, and he is currently engaged in research using data from the Thai censuses of 1960 and 1970 and from the National Longitudinal Study of Social. Economic, and Demographic Change in Thailand. Dr. Goldstein is Chairman of the International Union for the Scientific Study of Population's Committee on Urbanization and Population Redistribution, and at Brown University he is in charge of a series of comparative field studies of migrant adjustment to urban life in the less developed world. During 1975-6, he served as President of the Population Association of America. He has written or co-authored some twenty-five books and monographs, including Urbanization in Thailand, 1947-1967 (1972), Interrelations between Migration and Fertility in Population Redistribution in Thailand (1971), The Demography of Bangkok (1972), Residential Mobility, Migration, and Metropolitan Change (with Speare and Frev: Ballinger, 1975) and Patterns of Urbanization: Comparative Country Studies (with Sly; Ordina, 1976).

Graeme J. Hugo, Lecturer in Geography, School of Social Sciences, Flinders University of South Australia, Bedford Park, Australia. He has a B.A. Hons. from the University of Adelaide, an M.A. from Flinders University and a Ph.D. in Demography from the Australian National University. His main research interests are in population mobility and development in West Java and the southern Philippines. He has published a review monograph *Demographic Research in Indonesia* (1975), and is jointly authoring a demographic study of Indonesia.

Gavin W. Jones, Senior Fellow in Demography, Australian National University, Canberra, Australia. He has a B.A. from the University of New England, and a Ph.D. in Demography from the Australian National University. He has been Demographic Advisor to the National Economic Development Board in Bangkok and Population Council Representative in Indonesia. Recent research interests include analysis of the 1975 Indonesian Fertility—Mortality Survey, census data on religion and education in Indonesia, and he has written a monograph on the population of North Sulawesi,

co-authored *Population Growth and Economic Development in Ceylon* (1972), and published *Population Growth and Educational Planning in Developing Nations* (Irvington, 1975).

Warwick Neville, Senior Lecturer in Geography, University of Auckland, New Zealand. He has a B.A., M.A. and Dip. Ed. from the University of New Zealand and a Ph.D. from the London School of Economics and Political Science. His teaching and research interests include population characteristics and problems associated with ethnicity and plural societies in South-East Asia, particularly Singapore; studies completed include analysis of population structure and aspects of fertility decline, and he has contributed to journals and books on these themes.

Larry Sternstein, Senior Lecturer in Geography, School of General Studies, Australian National University, Canberra, Australia. He has a B.S. from the City University of New York, an M.A. from Syracuse University and a Ph.D. from Australian National University. His major research interest in population and development concerns internal migration and urbanization, particularly in Thailand. He was the Municipal Advisor to the Government of Thailand from 1965-71 and has published monographs on The Municipality of Banakok: A Critique of Population Data (1968), Greater Bangkok Metropolitan Area, Population Growth and Movement 1956-1960 (1970), Greater Banakok Metropolitan Area: Migration and Research for Planning (1969) and The Effect of a Growth Center on Internal Migration in a Primate City System: Migration to and from Khon Kaen, Development Center of Northeast Thailand (1976).

Suwanlee Piampiti, Instructor in Demography, School of Applied Statistics, National Institute of Development Administration, Bangkok, Thailand. She has a B.Comm. from Chulalongkorn University, an M.A. from the University of Massachusetts and a Ph.D. in Sociology from the University of Georgia. Major research projects have included internal migration in Thailand, the effects of migration on urban development in the southern region of Thailand and currently she is studying female migrants in Bangkok—Thon Buri under a Rockefeller—Ford grant.

Penporn Tirasawat was a doctoral student in Sociology under Professor Goldstein in the Population

Studies and Training Center, Brown University, Providence, Rhode Island, U.S.A. With Professor Visid Prachuabmoh she was co-author of *Internal Migration in Thailand* (1974), and she has been involved in a number of projects on this theme in Thailand.

Tunku Shamsul Bahrin, Professor of Geography, and Dean, Faculty of Arts, University of Malaya, Kuala Lumpur, Malaysia. He has a B.A. from the University of Malaya and an M.A. from the University of Sheffield. He has studied and published on the processes and patterns of the migration of Indonesians into Peninsular Malaysia; he is currently engaged in a comparative study of resettlement programmes in Indonesia, Malaysia and the Philippines, and has travelled and conducted field surveys in all three countries. He is also engaged in a study of squatter settlements in urban centres of Peninsular Malaysia and (with P. D. A. Perera) is currently completing a book on the history of the Federal Land Development Authority of Malaysia.

Teo Siew Eng, Senior Lecturer in Geography, University of Singapore, Singapore. She has a B.A. from Sydney University, an M.A. from Australian National University and a Ph.D. from the University of Singapore. She specializes in the teaching of social and urban geography and her research interests include residential mobility, perception geography, minority groups and urban development in Singapore; she has published a number of papers on these subjects.

Richard Ulack, Assistant Professor of Geography, University of Kentucky, Lexington, Kentucky, U.S.A. He has a B.A. from Stetson University, and an M.Sc. and Ph.D. from Pennsylvania State University. His major teaching and research interests include developmental problems in South-East Asia and population geography with emphasis on internal migration and urbanization; his doctoral research was conducted in Mindanao, the Philippines, and a number of papers have been published from this work.

Visid Prachuabmoh, prior to his death in 1978, was Professor of Demography of the Institute of Population Studies, and Dean of the Graduate School, Chulalongkorn University, Bangkok, Thailand. He had a B.A. Hons. from Chulalongkorn University, and an M.A. and Ph.D. from the University of Chicago. He had been primarily engaged

in educational administration at the graduate level. but also maintained an active involvement in teaching and research in general demography, population policy, urbanization and migration and fertility. Other responsibilities included membership of the UN Population Commission, Vice-Chairman of the Committee on the National Population Policy and Planning of the Thailand National Economic and Social Development Board, and Co-Director of the World Fertility Survey in Thailand. He had co-authored a number of monographs, including The Potharam Study (1969, 1971), The Methodology of the Longitudinal Study of Social, Economic, and Demographic Change (Thailand, 1971), The Rural and Urban Population of Thailand (1972), The Fertility of Thai Women (1973) and Urban-Rural Migration Differentials in Thailand (1974).

Peter D. Weldon, Project Specialist with the Ford Foundation, Jakarta, Indonesia. He has an A.B. in Government from Harvard College and an M.Sc. and Ph.D. in Rural Sociology from Cornell University. He has lectured in Sociology at the University of Singapore, and his current duties in Indonesia include serving as Secretary of the Social Science Research Training Program, which seeks to assist the development of Indonesian social sciences through the provision of in-country village level field-work, and overseas training opportunities. He also lectures in research methods and social change, and is involved with a number of projects dealing with problems of rural and urban development and population, and he has published a number of papers on these subjects.

Stephen H. K. Yeh, Professor of Sociology and Urban and Regional Planning, University of Hawaii, Honolulu, Hawaii, U.S.A. He has a B.A. in Mathematics and a B.A. in Anthropology from San Francisco State University and an M.A. and Ph.D. in Sociology from New York University. His teaching and research interests include housing, population policy and urban development planning. Current consultantships include the UN Asian Development Institute, Bangkok, and the Statistics and Research Department, Housing and Development Board, Singapore. He has published *Homes for the People* (Government Printer, Singapore, 1972) and edited *Public Housing in Singapore* (University of Singapore, 1975).

### **Foreword**

I have been invited—perhaps challenged—to contribute a prefatory note to this volume, placing it in the context of the 'wealth flows' demographic transition theory I have been attempting to develop. The offer is the more challenging because Robin Pryor has already designed the study in terms of the broad sweep of socioeconomic and demographic change in a region which has experienced very great change over the last forty years.

Demographic transition in its broadest sense is the story of the transformation of society from traditional villages of food cultivators or fishermen, or even scattered bands of hunters and food gatherers, to a situation where most people live in cities or large towns and are employed outside agriculture. The former are likely to be characterized by high fertility subject, at least within marriage, to little control, while the latter will eventually exhibit low fertility. The question here is whether one set of demographic parameters, fertility and mortality, is in any way linked with those defining migration and urbanization.

Wealth flow theory suggests that in pre-transitional society large families are economically best off, probably on a per capita basis and certainly in terms of the older or parental generation. The fundamental reason is that society is so structured that there is a net flow of wealth over a lifetime from the younger to the older generation. An additional, but often important, reason is that large families can afford to spare some members from the central tasks of subsistence farming and the maintenance of the household to pursue more lucrative opportunities, often at a distance.

In age-old traditional society such opportunities could hardly arise, but such conditions are now rare in South-East Asia and towns, plantations, mines, construction sites and other areas of employment are known to most villagers and are within access. It is precisely when the wealth flows still tend to be from the young to the old that the latter are likely to en-

courage some of the former to make use of such opportunities, which usually mean migrating, at least temporarily. There are two reasons. Firstly, the upward flow of wealth means that the old are almost certain to benefit, perhaps by regular remittances, irregularly timed gifts, help in emergencies, assistance in old age and other means. Secondly, the kind of social control that determines the upward flow also permits some guidance about movement (although this may be subtle).

The basic proposition of the wealth flows theory is that it is the social structure, especially at the family level, which determines the direction of the wealth flows and the economic impact of high or low fertility.

This is an important premise in terms of the migration of family members, because such migration inevitably causes social change. The migrant is subject to non-traditional influences merely because of his or her movement from the centre of origin, even if the move is to another traditional area. However, the chances are that the destination will be far from traditional in character. The work will be different and the minimal changes in lifestyle and attitudes necessary can be subsumed under the rubric of 'modernization'. So can the living conditions, which may well make the migrant husband and wife more dependent on each other—an important point, for the wealth flows theory argues that the changing family structure which alters the direction of the wealth flows by emotionally and economically crystallizing out the nuclear family is most likely to start with a metamorphosis of the conjugal relationship. However, the theory also argues that such changes within the family usually go a long way beyond minimal adjustment to new occupation and residential conditions, the reason being that the areas of opportunity are permeated with Western cultural values which are a vehicle for Western behaviour patterns in terms of family nucleation, conjugal relationships and parentchild relationships. Clearly this is the case in Singapore and Kuala Lumpur, originally settled by immigrant

vi FOREWORD

populations within a colonial framework, and extensively in the Philippines with centuries of cultural diffusion and an imported religion.

It is also of some importance in terms of those who stay at home. The absence of the migrants changes the family structure, as does the inevitably new relationship with the migrant members (especially with the daughters-in-law). Subtler changes are wrought by the new ideas imported, as well as by the money and goods, while much stronger influences may be exerted on the migrant's parents and siblings if they use their contacts with the migrant to visit the areas of opportunity.

All these influences tend to influence mortality: the emigrant probably has better access to health facilities than he had at home; while his family of origin may benefit by his access to health facilities or knowledge or may be able to use wealth he has brought back.

Sooner or later, the net upward flow of wealth is likely to be challenged—probably sooner in the household which sends migrants forth and later in the one which does not. The migrant may place increasing emphasis on the economic primacy of his own conjugal family, with several effects. Parents in his village may be less certain of the value of high fertility. The migrant, by his new attitudes and behaviour, will almost certainly ensure that his own children are likely to demand more from him while being likely to give him less; he may, in fact, perceive this in time to limit his fertility, a recognition of the reversal of the direction of the net intergenerational wealth flow.

Such change does not necessarily slow down the rate of migration; it may well accelerate it, for now the potential migrant is likely to reap a larger share of his earnings and to be more likely to initiate his original movement.

Internal migration almost certainly hastens fertility decline, though initially it might provide an additional support for high fertility. It probably also hastens mortality decline, even though some rural-urban migrants live in terrible conditions. Migrations may also be a response to declining mortality in rural areas—it may help to create the family that can afford to export some of its members to areas of greater opportunity. Ultimately, all these demographic movements will be seen to be parts of the same great twentieth century demographic transformation of the world.

This foreword is an essay which has doubtless trespassed well beyond the limits set for this book—a book which is in the best of the traditions that Robin Pryor and his colleagues within the Demography Department of the Australian National University and outside it have established for migration studies and for work in South-East Asia. Doubtless, too, they will eventually test most of the propositions put forward here and help to establish better migration and better demographic transition theory.

Department of Demography
Australian National University

J. C. CALDWELL

### **Preface**

POPULATION redistribution within countries, particularly in the form of urbanization and the rapid growth of the larger cities in the Third World, has attracted increasing attention in recent years as national governments and city administrations attempt to cope with burgeoning squatter communities, unemployment and underemployment, and the provision of housing, health, educational and other infrastructure. There have been other programmes designed to keep the population 'down on the farm', or to attract rural migrants by opening up frontier lands, highly capitalized agricultural settlement schemes, the Transmigration programme in Indonesia, and regional development projects which seek to integrate the expansion of urban and rural employment opportunities.

Such trends, problems, and projects place a premium on analyses of internal migration, and many countries in South-East Asia have introduced relevant census questions for the first time during the 1970 Census round, or have expanded the range of migration-relevant questions, and some have conducted separate or complementary surveys to gain further insights into population mobility. It is important to emphasize, however, that only a very small proportion of all mobility is tapped by censuses: most changes of residence occur within a province, rather than across provincial boundaries; and seasonal movements such as harvesting and fruit picking, circular mobility based on employment in both urban and rural areas, tourism, and some forms of long-term commuting are all ignored by censuses which focus on a somewhat arbitrary definition of what constitutes a significant residential change.

For the first time, this volume brings together a series of migration studies utilizing data from the 1970 Census round in Thailand, Malaysia, Singapore, Indonesia and the Philippines. Census information is supplemented by sample surveys of migration in all countries, although residential mobility in Singapore is somewhat restricted and stereotyped in comparison

with the variety of migration patterns and migrant characteristics in the other four countries.

The definition of South-East Asia in this volume is derived from the pragmatic factors of data availability and current research activity, and where authors are not Asian nationals, they have all lived and conducted field research in one or more countries of South-East Asia for some years. Geographic contiguity and some common threads of historical experience also link these countries. Vietnam (now called The Socialist Republic of Vietnam), Cambodia (now called Kampuchea) and other countries in the border region have been omitted, not because of the insignificance of internal migration-indeed South Vietnam plans to resettle 10 million urban dwellers in rural areas. 1 and a similar policy was implemented in the Khmer Republic-but because data of comparable scope and reliability are unavailable, and because the recent military situation in these countries had created very different causal patterns and development problems. Refugees have crossed into Thailand on foot, and by sea to Malaysia, and some internal movements in northern Thailand undoubtedly reflect the security situation there, but this form of forced migration falls outside the aims of the book.

The volume has been planned in three major sections. Firstly, as well as introducing the theme of migration and development, Chapter 1 provides a perspective on the demographic and mobility transitions, and on the regional patterns of internal migration characteristic of countries in the 'transitional' stage of economic development and social change.

Secondly, the series of country studies has been assembled to document four interwoven themes:

- 1. Regional patterns of migration within each country (Chapters 2, 7, 14 and 18).
- 2. Migration to large cities or growth centres (Chapters 3, 5, 15, 19 and 20).
- 1. Quoted in *The Canberra Times*, 4 June 1976; on the dynamics of migration to Saigon 1964–72, see Goodman and Franks (1975).

- 3. Migration differentials or selectivity, using censuses and surveys to describe the main demographic characteristics of internal migrants and, where possible, comparing them with non-migrants (Chapters 4, 8, 12, 13, 15 and 16).
- 4. The interrelationships of migration with social and economic development and national planning: multivariate analyses describe the links between indicators of migration and development (Chapters 9, 12 and 21); and development strategies which influence population redistribution processes are discussed for individual countries (Chapters 5, 6, 10, 13, 17, 20 and 21), and in a comparative study of all five (Chapter 22).

Finally, Chapters 22–24 draw together the migration experience and development planning practice in the region by focusing respectively on national development plans, urban planning, and land settlement. The concluding chapter attempts to summarize the major patterns of population redistribution and the main problems of planning, and indicates certain policy and research options and needs.

Department of Demography Australian National University Canberra ROBIN J. PRYOR

### **Contents**

	Foreword	٧
	Preface	vii
	Tables	xi
	Figures	XV
	Acknowledgements	xviii
	Notes on the Contributors	xix
PAI	RT I INTRODUCTION	1
1.	ROBIN J. PRYOR, South-East Asia: Migration and Development	3
PAI	RT II THAILAND	17
2.	LARRY STERNSTEIN, Changing Patterns of Population Movement, 1960–1970	19
3.	LARRY STERNSTEIN, Internal Migration and the Development of the 'Capital District'	30
4.	VISID PRACHUABMOH, SIDNEY GOLDSTEIN, PENPORN TIRASAWAT and ALICE GOLDSTEIN, Urban and Rural Migration Selectivity	48
5.	LARRY STERNSTEIN, Migration and Regional Development: The Khon Kaen Development Centre	59
6.	SUWANLEE PIAMPITI, Population Distribution and Development Strategies	69
PAI	RT III MALAYSIA	77
7.	ROBIN J. PRYOR, Patterns of Population Movement to 1970	79
8.	ROBIN J. PRYOR, A Demographic Analysis of Internal Migrants	98
9.	ROBIN J. PRYOR, Migration and Development: A Regional Synthesis	113
10.	ROBIN J. PRYOR, Population Distribution and Development Strategies	125
PAF	RT IV SINGAPORE	137
11.	WARWICK NEVILLE, Urbanization and Demographic Change	139
12.	TEO SIEW ENG and PETER D. WELDON, Patterns of Status, Housing and Mobility	152
13.	STEPHEN H. K. YEH, Residential Mobility and Public Housing	165
PAF	RT V INDONESIA	175
14.	GRAEME J. HUGO, Patterns of Population Movement to 1971	177

### CONTENTS

15. GRAEME J. HUGO, Migration to and from Jakarta	192
16. GRAEME J. HUGO, The Impact of Migration on Villages in Java	204
17. GAVIN W. JONES, The Transmigration Programme and Development Planning	212
PART VI THE PHILIPPINES	223
18. ROBIN J. PRYOR, Patterns of Population Movement to 1970	225
19. RICHARD ULACK, The Impact of Migration on Iligan City, Mindanao	244
20. BENJAMIN V. CARIÑO, Migration and Regional Development: The Bicol Region	251
21. GARTH CANT, Spatial Patterns and Spatial Planning	259
PART VII DEVELOPMENT PLANNING	273
22. ROBIN J. PRYOR, Population Redistribution Policies and South-East Asian Development Plans	275
23. DAVID W. DRAKAKIS-SMITH, Urban Planning: The Challenge of an Alternative Urbanism in South-East Asia	286
24. TUNKU SHAMSUL BAHRIN, Land Settlement: Policies and Practices in South-East Asia	295
The second secon	204
PART VIII CONCLUSION	305
25. ROBIN J. PRYOR, Internal Migration in South-East Asia: Patterns, Problems and Policies	307
Bibliography	332
Subject Index	349
Author Index	352

### **Tables**

### INTRODUCTION

	INTRODUCTION	
1.1	Demographic Characteristics of Countries of South-East Asia and Australia, c. 1975	9
1.2	Socioeconomic Characteristics of Countries of South-East Asia, c. 1975	10
1.3	Brief Description of Population Censuses, 1970 Round, in South-East Asia	13
1.4	Migration-related Questions in the 1970 Census Round, South-East Asia	14
	THAILAND	
2.1	Salient Features of the Changes in Internal Migration by Province, 1960 to 1970 Censuses	21
3.1	Krung Thep Maha Nakhon: Salient Features of Internal Migration, 1960 and 1970 Censuses	30
3.2	Krung Thep Maha Nakhon: Salient Features of the Changes in Internal Migration by Province, 1960 to 1970 Censuses	33
3.3	Krung Thep Maha Nakhon: In-migrant Age Structure by Sex, as a Percentage of Total In-migration, 1960 and 1970 Censuses	36
3.4	Krung Thep Maha Nakhon: In-migrant Age Structure by Destination and Sex, as a Percentage of Total In-migration, 1970 Census	42
3.5	Krung Thep Maha Nakhon: Out-migrant Age Structure by Destination and Sex, as a Percentage of Total Out-migration, 1970 Census	43
4.1	Per cent of Population Classified as Five-year Migrants by Age, Sex and Current Residence	49
4.2	Distribution of Male Population by Five-year Migration Status, by Type of Move, Age and Current Urban Residence	50
4.3	Distribution of Female Population by Five-year Migration Status, by Type of Move, Age and Current Urban Residence	51
4.4	Per cent of Males Classified as Five-year Migrants, by Occupation, Current Urban Residence and Age	54
4.5	Thailand Rural Survey: Reasons for Moving of Male Household Heads, 1969 (per cent)	56
4.6	Thailand Urban Survey: Reasons for Moving of Lifetime Migrants, 1970 (per cent)	56
5.1		59
5.2	Salient Features of Internal Migration, Provinces Khon Kaen and Kalasin, 1960 and 1970 Censuses	60
5.3	Sex Ratios of In- and Out-migrants, Provinces Khon Kaen and Kalasin, 1960 and 1970 Censuses	60
5.4	Net Out-migration by Sex and Age as a Percentage of Total Net Out-migration, Provinces Khon Kaen and Kalasin, 1960 and 1970 Censuses	64

6.1	Net Migration by Region of Residence, 1955-1960 and 1965-1970	70
	Socioeconomic Variables and Net Interregional Migration by Region, 1965–1970	71
	MALAYSIA	
7.1	Numbers of Internal Migrants by State, 1957 and 1970	83
7.2	Selected Measures of Internal Migration by State, 1957 and 1970	83
7.3	Selected PR Migration Rates for the Major 'Receiving' and 'Sending' Districts, 1970	84
7.4	Migration to Major Towns, 1970	94
7.5	Distribution and Growth of Urban Population to 1970	96
8.1	Age Distribution of Total Population, Five-year Migrants and Interdistrict Migrants to Kuala Lumpur, 1970, and of Ten-year Migrants and Non-migrants, 1967	99
8.2	Selangor: Median Ages by Migrant Status, Community and Place of Birth, 1970	102
8.3	Sex Ratios of Total Population and Lifetime Interstate Migrants, 1957 and 1970, and Ten-year Migrants in Metropolitan Urban Selangor, 1970, by Community	103
8.4	Metropolitan Urban Selangor: Sex Ratios of Internal Migrants by Age, Length of Residence and Community, 1970	104
8.5	Kuala Lumpur District: Sex Ratios of Interstate Migrants Born in Peninsular Malay-	
	sia, by Age and Community, 1970	104
8.6	Lifetime Interstate Migrants by Community and Sex, 1957 and 1970; 'Previous Residence' Migrants by Community and Type of Move, 1970	106
9 1	Regional Indices of Income and Economic Development, c. 1970	114
	Indices of Population and Development for Factor Analysis	116
	Dimensions of Population and Development for 70 Districts, c. 1970	117
	Available Agricultural Land and Projected Land Development to 1990, by States	126
10.2	Estimates of Population Growth and Net Migration to 1990, by States	127
10.3	Aspects of Eight Regional Development Studies	129
10.4	Percentage Distribution of Observed 1970 and Equilibrium Populations for Life- time and 'Most Recent' Migration Data	132
10.5	Mean First Passage Times as Indices of Migration Accessibility between States	133
	SINGAPORE	
44.4		1.40
	Urban/Rural Distribution of Population by Ethnic Group, 1970	140
11.2	Females in Selected Age Groups as a Percentage of Total Population, 1957 and 1970	145
11.3	The Economically Active Population by Industry, 1957 and 1970 (per cent)	149
11.4	The Economically Active Population by Occupation, 1957 and 1970 (per cent)	150
12.1	Number of Rooms, Average Value and Monthly Rental of HDB Flats and Private Housing	153
12.2	Mean and Socioeconomic Composite Scores of Households, by House Type	155
12.3	Living Quarters Previously Occupied, by House Type (per cent)	157
12.4	Previous and Present Housing Status, by House Type (per cent)	158
12.5	Number of Times Moved over the Past Twenty Years, by House Type (per cent)	158
12.6	Reasons for Moving, by House Type (per cent)	161

12.	7 Spearman's Coefficient of Rank-order Correlation: Variables in the Decision to Move, by House Type	164
13.1	Socioeconomic Characteristics of HDB Population, 1973, and Singapore Population, 1970	
13.2	2 Satisfaction with Living Conditions, 1973 (per cent)	168
13.3	Opinion on Change in Living Conditions Since Relocation into Public Housing, 1973 (per cent)	171 172
	INDONESIA	
14.1	Interprovincial Lifetime Migrants between and within Inner and Outer Indonesia, 1930 and 1971 (millions)	178
14.2	2 In-migrants to, and Out-migrants from, Indonesian Provinces, 1971	179
14.3	Lifetime Return Migration to, and Migration Effectiveness Ratios for, Indonesian Provinces, 1971	186
14.4	Sex Ratios (males per 1,000 females) for Indonesian Provinces, 1971	190
15.1	Jakarta: Per cent Distribution of the Provinces of Origin of In-migrants and Destination of Out-migrants, 1930 and 1971	193
15.2	Jakarta: Ethnic Structure in 1930 and 1961	195
	Jakarta: Average Annual Growth Rates of Birthplace Groups, 1961-1971	195
15.4	Per cent of Out-migrants from Jakarta in Urban Areas of Selected Provinces, 1971	196
15.5	Lifetime Return Migration from Jakarta to Other Indonesian Provinces, 1971	197
15.6	Sex Ratios of Migrants according to the Length of Time They Have Lived in Jakarta, 1971	198
16.1	'Permanent' Migrants to Urban Areas from Fourteen West Java Survey Villages: Reasons Given for Returning or Intending to Return to their Village Birthplace (per cent)	
17.1	Number of Transmigrants by Area of Destination, 1960–1961 to 1973–1974	205
17.2	Number of Transmigrants according to Settlement Area, 1951 to 1973–1974	213
17.3	Projections of the Population of Sumatra, 1971–2001 (in '000)	215
17.4	Projections of the Population of Lampung, 1970–2005 (in '000)	218 220
	(11 000)	220
	THE PHILIPPINES	
	Relative Status of Provinces by Five-year Intra- and Interprovincial Migrants and Sex Ratio, 1970	228
18.2	Number of Net Lifetime and Five-year Interprovincial Migrants, for the Major 'Receiving' and 'Sending' Provinces, 1970	229
18.3	Selected Cities by Ten-year Net Change and Urban Population Characteristics, 1970	
18.4	The Major Sources and Destinations of Important Lifetime In-migration and Outmigration Provinces, 1970	231
18.5	Age Distribution and Sex Ratios of Interprovincial Migrants, 1970	234
18.6	Age Distributions of Five-year (1965–1970) Interprovincial Migrants and Non-migrants in Selected Provinces, 1970 (in percentages)	237
18.7	Sex Ratios of Five-year (1965–1970) Interprovincial Migrants and Non-migrants in	238
	Selected Provinces, 1970	239

### TABLES

20.1	Net Migration Estimates for Bicol Provinces, Both Sexes	254
		255
21.1	Dimensions of Variation in Economy and Society in the Philippines, 1970: A Principal Components Analysis	264
	SOUTH-EAST ASIA	
22.1	South-East Asian Development Plans: Typology of Regional Strategies Relating to Population Redistribution	281
22.2	South-East Asian Development Plans: Typology of Policy Attributes Relating to Population Redistribution	282
23.1	Selected Urban Statistics for Nine Countries of South-East Asia	287
24.1	Land Area and Utilization in South-East Asian Countries	296
	CONCLUSION	
25.1	Thailand: Indices of Internal Migration (71 provinces)	308
		310
		312
		313
	20.2 21.1 22.1 22.2 23.1 24.1 25.1 25.2 25.3	Principal Components Analysis  SOUTH-EAST ASIA  22.1 South-East Asian Development Plans: Typology of Regional Strategies Relating to Population Redistribution  22.2 South-East Asian Development Plans: Typology of Policy Attributes Relating to Population Redistribution  23.1 Selected Urban Statistics for Nine Countries of South-East Asia  24.1 Land Area and Utilization in South-East Asian Countries