Fertility, Family Planning, and Population Policy in China

Edited by
Dudley L. Poston, Jr, Che-Fu Lee,
Chiung-Fang Chang, Sherry L. McKibben,
and Carol S.Walther

Routledge Studies in Asia's Transformations



Also available as a printed book see title verso for ISBN details

>X<<>>X<<>>X<<

Fertility, Family Planning, and Population Policy in China

China's one-child population policy, first initiated in 1979, has had an enormous effect on the country's development. By reducing its fertility in the past two decades to less than two children per woman, and developing a family planning program focused heavily on sterilization and abortion, China has undergone a significant transition in status to a demographically developed country.

Fertility, Family Planning, and Population Policy in China brings together contributions from leading scholars on such developments as family planning policy and contraceptive use, biological and social determinants of fertility, patterns of family and marriage, and China's future population trends. As such it will be essential reading for academics, researchers, policy-makers, and government officials with an interest in China's demography, fertility, and population policy.

Dudley L.Poston, Jr is Professor of Sociology at Texas A&M University, College Station, Texas.

Che-Fu Lee (deceased) was Professor of Sociology at the Catholic University of America, Washington, DC.

Chiung-Fang Chang is Assistant Professor of Sociology at Texas A&M University, Kingsville, Texas.

Sherry L.McKibben is Assistant Professor of Sociology at the University of Texas of the Permian Basin, Odessa, Texas.

Carol S.Walther is a PhD Candidate at Texas A&M University, College Station, Texas.

Routledge Studies in Asia's Transformations

Edited by Mark Selden
Binghamton and Cornell Universities, USA

The books in this series explore the political, social, economic, and cultural consequences of Asia's transformations in the twentieth and twenty-first centuries. The series emphasizes the tumultuous interplay of local, national, regional, and global forces as Asia bids to become the hub of the world economy. While focusing on the contemporary, it also looks back to analyze the antecedents of Asia's contested rise.

This series comprises several strands:

Asia's Transformations aims to address the needs of students and teachers, and the titles will be published in hardback and paperback. Titles include:

China in War and Revolution, 1895-1949

Peter Zarrow

Confronting the Bush Doctrine

Critical views from the Asia-Pacific Edited by Mel Gurtov and Peter Van Ness

Japan's Quiet Transformation

Social change and civil society in the 21st century *Jeff Kingston*

State and Society in 21st Century China

Edited by Peter Hays Gries and Stanley Rosen

The Battle for Asia

From decolonization to globalization Mark T.Berger

Ethnicity in Asia

Edited by Colin Mackerras

Chinese Society, 2nd edition

Change, conflict and resistance

Edited by Elizabeth J.Perry and Mark Selden

The Resurgence of East Asia

500, 150 and 50 year perspectives Edited by Giovanni Arrighi, Takeshi Hamashita, and Mark Selden

The Making of Modern Korea

Adrian Buzo

Korean Society

Civil society, democracy and the state Edited by Charles K.Armstrong

Remaking the Chinese State

Strategies, society and security

Edited by Chien-Min Chao and Bruce J.Dickson

Mao's Children in the New China

Voices from the Red Guard Generation Yarong Jiang and David Ashley

Chinese Society

Change, conflict and resistance Edited by Elizabeth J.Perry and Mark Selden

Opium, Empire and the Global Political Economy

Carl A Trocki

Japan's Comfort Women

Sexual slavery and prostitution during World War II and the US occupation Yuki Tanaka

Hong Kong's History

State and society under colonial rule Edited by Tak-Wing Ngo

Debating Human Rights

Critical essays from the United States and Asia *Edited by Peter Van Ness*

Asia's Great Cities aims to capture the heartbeat of the contemporary city from multiple perspectives emblematic of the authors' own deep familiarity with the distinctive faces of the city, its history, society, culture, politics, and economics, and its evolving position in national, regional, and global frameworks. While most volumes emphasize urban developments since the Second World War, some pay close attention to the legacy of the longue durée in shaping the contemporary. Thematic and comparative volumes address such themes as urbanization, economic and financial linkages,

architecture and space, wealth and power, gendered relationships, planning and anarchy, and ethnographies in national and regional perspective. Titles include:

Singapore

Wealth, power and the culture of control Carl A.Trocki

Representing Calcutta

Modernity, nationalism and the colonial uncanny Swati Chattopadhyay

Hong Kong

Global city Stephen Chiu and Tai-Lok Lui

Shanghai

Global city

Jeff Wasserstrom

Beijing in the Modern World

David Strand and Madeline Yue Dong

Bangkok

Place, practice and representation Marc Askew

Asia.com is a series which focuses on the ways in which new information and communication technologies are influencing politics, society, and culture in Asia. Titles include:

The Internet in Indonesia's New Democracy

David T Hill and Krishna Sen

Asia.com

Asia encounters the internet *Edited by K.C.Ho, Randolph Kluver, and Kenneth C.C.Yang*

Japanese Cybercultures

Edited by Mark McLelland and Nanette Gottlieb

Literature and Society is a series that seeks to demonstrate the ways in which Asian Literature is influenced by the politics, society, and culture in which it is produced. Titles include:

Chinese Women Writers and the Feminist Imagination (1905–1945)

Haiping Yan

The Body in Postwar Japanese Fiction

Edited by Douglas N.Slaymaker

Routledge Studies in Asia's Transformations is a forum for innovative new research intended for a high-level specialist readership, and the titles will be available in hardback only. Titles include:

1. Fertility, Family Planning, and Population Policy in China

Edited by Dudley L Poston, Jr, Che-Fu Lee, Chiung-Fang Chang, Sherry L.McKibben, and Carol S.Walther

2. Genders, Transgenders and Sexualities in Japan

Edited by Mark McLelland and Romit Dasgupta

3. Developmental Dilemmas

Land reform and institutional change in China Edited by Peter Ho

4. Japanese Industrial Governance

Protectionism and the licensing state

Yul Sohn

5. Remaking Citizenship in Hong Kong

Community, nation and the global city *Edited by Agnes S.Ku and Ngai Pun*

6. Chinese Media, Global Contexts

Edited by Chin-Chuan Lee

7. Imperialism in South East Asia

'A fleeting, passing phase'
Nicholas Tarling

8. Internationalizing the Pacific

The United States, Japan and the Institute of Pacific Relations in War and Peace, 1919–1945

Tomoko Akami

9. Koreans in Japan

Critical voices from the margin Edited by Sonia Ryang

10. The American Occupation of Japan and Okinawa*

Literature and memory Michael Molasky

* Now available in paperback.

Critical Asian Scholarship is a series intended to showcase the most important individual contributions to scholarship in Asian Studies. Each of the volumes presents a leading Asian scholar addressing themes that are central to his or her most significant and lasting contribution to Asian studies. The series is committed to the rich variety of research and writing on Asia, and is not restricted to any particular discipline, theoretical approach, or geographical expertise.

China's Past, China's Future

Energy, food, environment *Vaclay Smil*

China Unbound

Evolving perspectives on the Chinese past Paul A.Cohen

Women and the Family in Chinese History

Patricia Buckley Ebrey

Southeast Asia

A testament George McT.Kahin

Fertility, Family Planning, and Population Policy in China

Edited by

Dudley L.Poston, Jr, Che-Fu Lee, Chiung-Fang Chang, Sherry L.McKibben, and Carol S.Walther



LONDON AND NEW YORK

First published 2006 by Routledge 2 Park Square, Milton Park, Abingdon, Oxon OX14 4RN Simultaneously published in the USA and Canada by Routledge 270 Madison Ave, New York, NY 10016

Routledge is an imprint of the Taylor & Francis Group
This edition published in the Taylor & Francis e-Library, 2006.

"To purchase your own copy of this or any of Taylor & Francis or Routledge's collection of thousands of eBooks please go to http://www.ebookstore.tandf.co.uk/."

© 2006 Dudley L.Poston, Jr, Che-Fu Lee, Chiung-Fang Chang, Sherry L.McKibben, and Carol S.Walther, selection and editorial matter; the contributors, their own chapters

All rights reserved. No part of this book may be reprinted or reproduced or utilised in any form or by any electronic, mechanical, or other means, now known or hereafter invented, including photocopying and recording, or in any information storage or retrieval system, without permission in writing from the publishers.

British Library Cataloguing in Publication Data
A catalogue record for this book is available from the British Library

Library of Congress Cataloging in Publication Data
A catalog record for this book has been requested

ISBN 0-203-35644-6 Master e-book ISBN

ISBN 0-203-38955-7 (Adobe e-Reader Format) ISBN 0-415-32330-4 (Print Edition) To our co-editor, Che-Fu Lee, who played a major role organizing, editing, and writing this book, but who did not live to see it published.

Requiescat in Pace!

Contents

	List of figures	xiii
	List of tables	XV
	List of contributors	xviii
	Preface	xix
	Prologue DUDLEY L.POSTON, JR AND CAROL S.WALTHER	1
1	Fertility and population policy: an overview QIUSHENG LIANG AND CHE-FU LEE	7
PART	T I Family planning policy and contraceptive use	20
2	Patterns of induced abortion JUAN WU AND CAROL S.WALTHER	21
3	Patterns of sterilization CAN LIU AND CHIUNG-FANG CHANG	35
PART	II Family and marriage patterns	48
4	The impact of family structure on fertility FEINIAN CHEN	49
5	The impact of intermarriage on the fertility of minority women CHIUNG-FANG CHANG	61
6	Emerging patterns of premarital conception CAROL S.WALTHER	75
7	Changing patterns of desired fertility LI ZHANG, XIAOTIAN FENG, AND QINGSONG ZHANG	86
PART	TIII Biological and social determinants of fertility	106
8	Age at menarche and the timing of the first birth	107

9	The effect of floating migration on fertility	122
	XIUHONG YOU AND DUDLEY L.POSTON, JR	
10	The impact of language dialect on fertility	140
	XIAODONG WANG AND XIUHONG YOU	
PART	T IV Implications and the future	152
11	The managed fertility transition in rural China and implications for the future of China's population CHE-FU LEE AND QIUSHENG LIANG	153
12	China's demographic destiny: marriage market implications for the twenty-first century	167
	DUDLEY L.POSTON, JR AND KAREN S.GLOVER	
	Index	182

Figures

1.1	Total fertility rate (average number of children per woman) for urban and rural places and all China, 1949–1999	12
1.2	Crude rates of birth, death, and natural increase in China, 1949–2000	14
2.1	Probability of surviving the hazard of an abortion after the birth of the first child, stratified by rural and urban residence, China, 1997	27
3.1	Kaplan-Meier estimates of Chinese women surviving the hazard of sterilization, 1997	41
3.2	Kaplan-Meier estimates of Chinese women surviving the hazard of sterilization, by residence, 1997	42
4.1	Cumulative distribution of first birth by duration months since date of marriage, CHNS	53
4.2	Residential patterns of parents-in-law and parents of married women, CHNS, 1993	54
5.1	Comparison of the observed distribution of CEB, with the univariate Poisson distribution with mean of 2.82	65
8.1	Kaplan-Meier survival estimates for the hazard of a first birth: Chinese Han women, 1997	113
8.2	Kaplan-Meier survival estimates for the hazard of a first birth: Chinese minority women, 1997	114
9.1	Frequency distribution of CEB variable, and univariate Poisson distribution based on mean of 2.148	127

9.2	Generation of the migration status variable	129
11.1	Age-specific fertility rates by urban and rural places: all China	158
11.2	Age-specific fertility rates by urban and rural places: Hebei province	159
11.3	Population growth rates of China and India, 1950–2000	162
12.1	TFRs: China, 1950–2001	168
12.2	SRB: Mainland China and the United States, 1980–2001	171
12.3	Sex ratios by age: the United States, July 1, 1999	173
12.4	Males and females born in Mainland China, 1980–2001	174
12.5	Number of excess males at marriageable age of 22: Mainland China, 2000–2021	174

Tables

1.1	Population, birth, and death rates of China, 1949–2000	10
2.1	Descriptive data: 11,762 women with at least one child, China, 1997	27
2.2	Cox proportional hazards models for the hazard of having abortion for the pregnancy following a woman's first child, China, 1997	31
3.1	Descriptive data of 10,406 currently married women with at least one child, China, 1997	40
3.2	Hazard ratios of female sterilization in China, 1997	43
4.1	Descriptive statistics of selected sample characteristics (<i>N</i> =218)	56
4.2	Woman month risk of first birth, 1989–1993, CHNS (N=12432)	57
5.1	Descriptive data for ever-married women aged 15–49, by ten ethnic groups, China, 1990	67
5.2	Mean numbers of CEB for exogamous women and endogamous women, by ten ethnic groups, China, 1990	68
5.3	Reduced Poisson regression models predicting number of CEB: minority ever-married women, aged 15–49, China, 1990	69
5.4	Poisson regression models predicting number of CEB, by rural and urban, minority ever-married women, ages 15–49, China, 1990	71
6.1	Dependent and independent variables: means and standard deviations, China, 1997	80

6.2	Logits and odd ratios of Chinese women having a premarital conception, 1997	82
7.1	Patterns of the desired number of children in rural areas of China	90
7.2	Pattern of the desired number of children in urban areas of China	94
7.3	Patterns of the desired gender of children in rural areas of China	95
7.4	Patterns of the desired gender of the next child and the number of existing children in rural China	97
7.5	Patterns of the desired gender of children in urban areas of China	99
8.1	Descriptive statistics of Chinese Han women for the hazard of a first birth, 1997	112
8.2	Descriptive statistics of Chinese minority women for the hazard of a first birth, 1997	112
8.3	Cox Proportional Hazard analysis of the hazard of a first birth: ever-married Han females, China, 1997	116
8.4	Cox Proportional Hazard analysis of the hazard of a first birth: ever-married minority females, China, 1997	117
9.1	Social demographic variables by migration status: ever-married women in China, aged 15–49, 1990	126
9.2	Percentage distributions of education status, for nonmigrants and groups of migrants: ever-married Chinese women, aged 15–49, 1990	130
9.3	Poisson regressions of number of CEB: ever-married Chinese women, aged 15–49, 1990	131
9.4	Poisson regressions of number of CEB: ever-married Chinese	135

	women, aged 15–49, 1990 (rural nonmigrants and rural-to- urban floating migrants)	
9.5	Poisson regressions of number of CEB: ever-married Chinese women, aged 15–49, 1990 (urban nonmigrants vs. rural-to-urban floating migrants and urban permanent migrants)	136
10.1	Chinese dialects and their major locations in China	143
10.2	Lu's quantified indices for selected cities and the dialects groups	144
10.3	The coding of Chinese dialects by province	145
10.4	Descriptive statistics of independent and dependent variables	147
10.5	Zero-order correlations of dependent and independent variables	147
10.6	Standardized regression coefficients of effects of independent variables on CBR	147
11.1	Crude rates of birth, death and natural increase for urban and rural China, selected years, 1957–1999	155
11.2	Development indices of China and India around the year 1950	161

Contributors

- **Chiung-Fang Chang** is Assistant Professor of Sociology at Texas A&M University, Kingsville, Texas.
- **Feinian Chen** is Assistant Professor of Sociology at North Carolina State University, Raleigh, North Carolina.
- **Xiaotian Feng** is Professor of Sociology at Nanjing University, Nanjing, China.
- **Karen S.Glover** is a Doctoral Candidate in Sociology at Texas A&M University, College Station, Texas.
- **Che-Fu Lee** (deceased) was Professor of Sociology at the Catholic University of America, Washington, DC.
- **Qiusheng Liang** is Research Associate at the Catholic University of America, Washington, DC.
- Can Lin is a JD Candidate at the School of Law at the University of Texas at Austin.
- **Sherry L.McKibben** is Assistant Professor of Sociology at the University of Texas of the Permian Basin, Odessa, Texas.
- Dudley L.Poston, Jr is Professor of Sociology, and Holder of the George T. and Gladys H.Abell Endowed Professorship in Liberal Arts, at Texas A&M University, College Station, Texas.
- **Carol S.Walther** is a Doctoral Candidate in Sociology at Texas A&M University, College Station, Texas.
- **Xiaodong Wang** is a Doctoral Candidate in Sociology at Texas A&M University, College Station, Texas.
- Jnan Wu is a Doctoral Candidate in Finance at Texas A&M University, College Station, Texas
- **Xiuhong You** is a Doctoral Candidate in Sociology at the University of Texas at Austin; and a Research Associate in the Office of the State Demographer. Austin, Texas.
- **Li Zhang** is a Doctoral Candidate in Sociology at Texas A&M University, College Station, Texas.
- Qingsong Zhang is a Human Resources Officer at the Huawei Company, Shenzhen, China.

Preface

The idea of a book on fertility, family planning, and policy in China was introduced at the meetings of the North American Chinese Sociologists Association (NACSA) held in Anaheim, California in August of 2001. Earlier versions of several of the chapters in this book were presented at the NACSA conference. Che-Fu Lee of the Catholic University of America served as the NACSA conference organizer. Since the authors of several of the NACSA conference papers were at the time graduate students of Dudley Poston at Texas A&M University, Lee and Poston discussed developing a China fertility book using the NACSA papers as a base. They approached several other scholars who did not make presentations at the NACSA conference to write chapters for the book, to help fill voids and to flesh out theoretical and empirical aspects of Chinese fertility and family planning not covered in the conference presentations. Poston then asked Chiung-Fang Chang, Sherry McKibben, and Carol Walther to assist him and Lee in putting the book together.

In the subsequent development of this book, we are very much indebted to Mark Selden of the State University of New York, Binghamton, who serves as a China book series editor for Routledge, for assisting us in the preparation of a book proposal; to Zoë Botterill of Routledge Publishers for working with us in developing the book contract; and to Helen Baker of Routledge Publishers for helping us get the book ready for production. As the book chapters were revised and/or written, the five editors each, in turn, read and edited them. The edited chapters were then returned to the authors for revision. Poston was responsible for the final reading and editing. All the chapters were then copy-edited at Texas A&M University by Chris Lewinski, who then discussed and reviewed the final changes and edits with Poston. We thank her for her dedicated and timely work, and all the others who assisted us.

When the book was in the final stages of editing in February of 2005, we were saddened to lose our co-editor Che-Fu Lee, who died at the age of 64. Without Che-Fu's encouragement and hard work, this book would never have been completed. As already noted, Che-Fu was the organizer of the 2001 annual meeting of the North American Chinese Sociologists Association where several of the chapters in this book were first presented. He was very instrumental in commissioning several of the other chapters, he provided valuable editorial assistance to the authors of all the chapters, and he wrote two of the chapters with his colleague Qiusheng Liang. We dedicate our book to him.

Dudley L.Poston, Jr
College Station, Texas
Chiung-Fang Chang
Kingsville, Texas
Sherry L.McKibben
Odessa, Texas
Carol S.Walther
College Station, Texas

Prologue

Dudley L.Poston, Jr and Carol S. Walther

This book focuses on fertility, family planning, and population policy in China—the most populated country in the world. In 2004 China had nearly 1.3 billion inhabitants. After India, the United States is the third most populated country, with a population in 2004 of 293 million. But China has a land mass slightly less than that of the United States (9.6 million square kilometers of surface area compared to 9.8 million of the United States) with a population that is 4.4 times larger.

China has reduced its fertility in the past two decades to less than two children per woman, has a family planning program focusing heavily on sterilization and abortion, and a population policy based on one child, and no more than two children, per woman. The country's fertility transition, family planning programs, and one-child policy have captured the attention of academicians, researchers, policy practitioners, government officials, and laypeople the world over. Indeed, some have seen China's experiences as providing important lessons for the demographic transitions of many countries in the developing world. Others have denounced the policy's system of quotas, and particularly forced abortions, as gross violations of human rights. What is certain is that the transition has made it possible for China to achieve in a relatively brief time the status of a demographically developed country. Its fertility, family planning, and policy dynamics that are analyzed in the chapters of this book need to be considered in this context. This Prologue first places these demographic issues in a historical perspective.

China today is not demographically a country with an aged population. In 2000, only one-tenth of China's population was over age 60, compared to 16 percent for the United States. By comparison, in 2000, 10 countries, all in Europe, had more than 20 percent of their populations over age 60 (United Nations 2003). But China is one of the oldest countries in existence. Statistics on the size of

China's population suggest that the country had a population of around 60 million people at the time of Christ (Durand 1960). Of course, Chinese civilization began much earlier than the time of Christ, with the Xia Dynasty, the first dynasty of China, lasting from about the twenty-first century BC to the sixteenth century BC. There are, however, no demographic records of the Chinese population in the centuries before Christ, other than an estimate of about 13 million at the start of the Xia Dynasty (Sun 1988:9), a figure whose accuracy is difficult to establish.

During the Han Dynasty, China took a population count in the second century AD, and it showed a population size of just under 60 million people (Banister 1992). The population increases and decreases over the almost 20 centuries since the time of Christ have usually been associated with dynastic growth and decay. Typically, the beginning of a new dynasty was followed by a period of peace and order, cultural development, and population growth. As population density increased, it often exceeded the availability of food, and the Malthusian struggle for existence was intensified. Then there would come a period of pestilence and famine resulting in a reduction in the size of the population.

Two thousand years of Chinese records and archives show that for all the centuries prior to the seventeenth century, China's population size increased to around 50–60

million before declining. Indeed at the start of the Ming Dynasty (in 1368) the size of China's population was only slightly larger than it was at the time of Christ. For all the dynasties up until China's last dynasty, the Qing (1644–1911), China's population swayed roughly with the rise and fall of a dynasty (most dynasties reigned for about 200–300 years). The population grew in the initial years of the dynasty, then fell, so that one-third or sometimes one-half of the original population was decimated. Mortality then was too high to allow much of an increase in population.

To illustrate, from 1400 to 1500, the size of the Chinese population grew by around 25 million. It grew by another 50 million from 1500 to 1600. But since the mid-1700s after the establishment of the Qing Dynasty, slight reductions in mortality enabled the population to continue growing. By 1850 there were roughly 420 million people in the country, 6–8 times the traditional level (of 60–80 million) that was the demographic norm 200 years or so previously. The Qing Dynasty was supremely successful at living up to the Chinese ideal of "numerous descendants." It is indeed ironic that by achieving this ideal, not only was the Qing Dynasty wiped out, but China's dynastic system of almost four thousand years was eradicated. Previously, declines in population resulted in the collapse of the dynasties. The Qing fell in 1911, among other reasons, because the population became too large.

By the date of the birth of the People's Republic of China (PRC) on October 1, 1949, the population exceeded 500 million. It is at this point in the country's demographic narrative that we may turn to this book's first substantive chapter "Fertility and population Policy" by Qiusheng Liang and Che-Fu Lee. The authors revisit the process of the formation of the Chinese government's population policies over the past half-century. Their primary aim, through a systematic review of the evolving policies over a period of five decades, is to provide a comprehensive picture of the dynamics between policy decisions and their implementation at different points in time since the 1950s. The population policy considerations are reviewed in the context of the political economy and are demarcated into three stages over the past 50 years: (1) the harbinger of population planning in the 1950s, (2) the chaotic decade of the 1960s and the establishment of the birth-control institution in the 1970s, and (3) a policy experiment followed by a decentralization since the early 1980s.

Liang and Lee's policy reviews serve to frame the discussions of China's current fertility by presenting and discussing year-to-year baseline fertility data since the early 1950s. They show how the "on-again and off-again" fertility control policies of the 1950s and 1960s interacted with non-fertility related policies and ideologies to keep fertility rates high, especially in the rural areas. Their discussions provide an important perspective for the contemporary analyses of fertility that follow in later chapters of this book.

Two key features of China's family planning policy are abortion and sterilization. These are the subjects of Chapters 2 and 3 and comprise Part I of the book. The chapter by Juan Wu and Carol Walther deals with induced abortion. In 1957, induced abortion was introduced by the Chinese government as part of the first birth control campaign. This method was to be used during the first ten weeks of pregnancy. In later decades, however, for some women, induced abortion became the primary form of birth control, although the government discourages this practice. In this chapter, the authors show that population policy factors play a significant role in affecting a woman's chances of