

201

FERTILITY DECLINE IN TAIWAN, SINGAPORE AND HONG KONG:  
TESTING DEMOGRAPHIC TRANSITION THEORY

by  
HUNG-LING CHOU

B.S., Tunghai University, 1978

---

A MASTER'S THESIS

submitted in partial fulfillment of the

requirements for the degree

MASTER OF ARTS

Department of Sociology, Anthropology and Social Work

KANSAS STATE UNIVERSITY  
Manhattan, Kansas

1983

Approved by:



Major Professor

LD  
2668  
.TY  
1983  
C56  
c.2

A11202 593903

ACKNOWLEDGEMENTS

I am very grateful for the instruction and patience of Dr. Donald J. Adamchak, my major professor, who guided me through the research process. I also would like to express thanks to my husband Chern-Hwang Hwang. With his continuous encouragement and support, I was able to fully apply my energy to the completion of the master's program.

Appreciation is extended to my thesis committee members, Dr. Wayne Rohrer and Dr. James Miley. I also appreciate the support of the Population Research Laboratory for data and computer time.

## TABLE OF CONTENTS

	PAGE
LIST OF TABLES .....	iv
LIST OF FIGURES .....	vi
CHAPTER	
1. INTRODUCTION .....	1
Importance of problem .....	2
2. LITERATURE REVIEW .....	3
3. METHODOLOGY .....	17
The theoretical framework of model design .....	17
Measurement of dependent variable .....	23
Measurement of independent variables .....	26
Hypothesis .....	30
Analytic procedure .....	31
4. ANALYSIS .....	37
Correlation between a dependent variable and independent variables .....	37
Cross-national difference in fertility: 1965-1970 and 1975-1980 .....	38
Longitudinal analysis of age-sex standardized birth rate: 1975-1980 to 1950-1959 .....	46
5. SUMMARY AND CONCLUSIONS .....	57
General Implications .....	60
Future research .....	61
BIBLIOGRAPHY .....	63
ABSTRACT .....	

## LIST OF TABLES

TABLE	PAGE
1. CENSUS OF SINGAPORE: 1980 .....	20
2. MEASUREMENT OF MODERNIZATION DIFFERENCE .....	22
3. STANDARDIZATION PROCEDURE OF THE INDIRECT METHOD .....	25
4. ZERO-ORDER CORRELATION MATRIX: 1965-1970 AGE-SEX STANDARDIZED BIRTH RATE .....	39
5. ZERO-ORDER CORRELATION MATRIX: 1975-1980 AGE-SEX STANDARDIZED BIRTH RATE .....	41
6. MULTIPLE REGRESSION COEFFICIENTS OF 1965-1970 AGE-SEX STANDARDIZED BIRTH RATE (ASSBR) ON INDEPENDENT VARIABLES- CROSS-NATIONAL MODEL .....	43
7. MULTIPLE REGRESSION COEFFICIENTS OF 1975-1980 AGE-SEX STANDARDIZED BIRTH RATE (ASSBR) ON INDEPENDENT VARIABLES- CROSS-NATIONAL MODEL .....	44
8. COEFFICIENTS, THE EXPLAINED VARIANCE FROM REGRESSIONS OF 1975-1980 AGE-SEX STANDARDIZED BIRTH RATE ON INDEPENDENT VARIABLES - LAGGED DEPENDENT VARIABLE MODEL .....	47
9. COMPARISONS OF RATE OF DECLINE IN CRUDE DEATH RATE (CDR) AND RATE OF AGE-SEX STANDARDIZED BIRTH RATE (ASSBR) DECLINE.	49
10. COMPARISONS OF RATE OF INCREASE IN EXPECTATION OF LIFE AT BIRTH FOR MALES ( $E_0^m$ ) AND RATE OF AGE-SEX STANDARDIZED BIRTH RATE (ASSBR) DECLINE .....	50
11. COMPARISONS OF RATE OF DECLINE IN INFANT MORTALITY RATE (IMR) AND RATE OF AGE-SEX STANDARDIZED BIRTH RATE (ASSBR) DECLINE .....	51
12. COMPARISONS OF AGE-SPECIFIC FERTILITY RATE (ASFR) 20-24 IN THE 1975-1980 PERIOD .....	52

TABLE	PAGE
13. COMPARISONS OF PERCENT OF WOMEN MARRYING AGED 15-19 IN THE 1975-1980 PERIOD .....	53
14. COMPARISONS OF INCREASE IN CONTRACEPTIVE APPLICATION IN THE 1975-1980 PERIOD .....	54
15. COMPARISONS OF RATE OF INCREASE IN LEGAL ABORTION RATE IN THE 1975-1980 PERIOD .....	55

## LIST OF FIGURES

FIGURE	PAGE
1. TRANSITION MODEL (I)	31
2. TRANSITION MODEL (II)	32

**THIS BOOK  
CONTAINS  
NUMEROUS PAGES  
WITH THE ORIGINAL  
PRINTING BEING  
SKEWED  
DIFFERENTLY FROM  
THE TOP OF THE  
PAGE TO THE  
BOTTOM.**

**THIS IS AS RECEIVED  
FROM THE  
CUSTOMER.**