

HACETTEPE UNIVERSITY INSTITUTE OF POPULATION STUDIES
TECHNICAL DEMOGRAPHY PROGRAM

**Analyses of Fertility Trends in Turkey: An Application of Own-
Children Method to 1993, 1998 and 2003 Turkey Demographic and
Health Surveys**

Pelin AĞATAY

M.A. thesis submitted for the partial fulfilment
of the requirements for the M.A. degree
in Technical Demography Program at Hacettepe University
Institute of Population Studies

Ankara
January, 2006

HACETTEPE UNIVERSITY INSTITUTE OF POPULATION STUDIES
TECHNICAL DEMOGRAPHY PROGRAM

**Analyses of Fertility Trends in Turkey: An Application of Own-
Children Method to 1993, 1998 and 2003 Turkey Demographic and
Health Surveys**

Pelin ÇAĞATAY

M.A. thesis submitted for the partial fulfilment
of the requirements for the M.A. degree
in Technical Demography Program at Hacettepe University
Institute of Population Studies

Supervisor
Assoc. Prof. Dr. İsmet KOÇ

Ankara
January, 2006

This is to certify that we have read and examined this thesis and in our opinion it fulfils the requirements in scope and quality of a thesis for the degree of Master of Arts in Technical Demography.

Jury Members:

Prof. Dr. Mahir Ulusoy (Chair)

Abant İzzet Baysal University, Faculty of Economic and Administrative Sciences

Assoc. Prof. Dr. İsmet Koç (Supervisor)

Hacettepe University, Institute of Population Studies

Dr. Sinan Türkyılmaz

Hacettepe University, Institute of Population Studies

This thesis has been accepted by the above-signed members of the Jury and has been confirmed by the Administrative Board of the Institute of Population Studies, Hacettepe University.

.../.../2006

Prof. Dr. Sabahat Tezcan
Director

SUMMARY

Information related to fertility is obtained from vital registrations, censuses and demographic researches. Due to the fact that vital registration system in Turkey does not work well and they are not very reliable, censuses and demographic surveys are mostly utilised for fertility estimations. By using one of these two sources, the level and trend of fertility can also be determined by means of indirect methods. Own-children method is one of the indirect methods of fertility estimation that uses the current information about the age-structure of women and children as well as their mortality pattern in order to provide the estimations of fertility rates for the 15-year period preceding a census or survey.

The prior objective of this study is to apply the own-children method to the household data sets of 1993, 1998 and 2003 Turkey Demographic and Health Survey carried out by Hacettepe Institute of Population Studies every five years nationwide. When employing the method, mortality is assumed to have remained constant during the 15-year time period and East model among Coale-Demeny model life tables has been preferred. The findings of the own-children method have also been presented concerning urban-rural and five regions in addition to the countrywide results. If each of the three surveys are thought to produce a 15-year estimation period for fertility with this method, own-children provides the opportunity to do more definitive analyses related to the level and trend of fertility in Turkey as of 1978 without any age restrictions.

In order to check the validity and reliability of the own-children method, fertility estimates of own-children have also been compared with those of TDHS-type. Overlapping estimates of overall fertility rates derived from the two approaches and resembling findings for fertility attained from either TDHS itself or own-children regarding both urban-rural breakdown and five regions have been apparently observed despite some slight differences.

ÖZET

Doğurganlığa ilişkin bilgiler, kayıt sistemlerinden, nüfus sayımlarından ve demografik çalışmalardan elde edilmektedir. Ancak, Türkiye’de kayıt sisteminin iyi çalışmamasından ve güvenilir olmamasından dolayı doğurganlık tahminleri için daha çok sayımlardan ve demografik araştırmalardan yararlanılmaktadır. Doğurganlık düzeyi ve eğilimi, bu iki veri kaynağından herhangi birisi kullanılarak dolaylı yöntemler aracılığıyla da tespit edilebilir. Öz çocuk yöntemi de, kadınların ve çocukların yaş yapısına ve bunların ölümlülük örüntülerine ilişkin güncel veriyi kullanarak araştırma veya sayımdan geriye dönük 15 senelik dönem için doğurganlık hızlarının tahmin edilmesini sağlayan dolaylı bir yöntemdir.

Bu çalışmanın öncelikli amacı, Hacettepe Nüfus Etütleri tarafından 5 yılda bir ülke çapında gerçekleştirilen 1993, 1998 ve 2003 Türkiye Nüfus ve Sağlık Araştırmaları’nın hanehalkı veri setlerine öz çocuk yöntemini uygulamaktır. Bu yöntem uygulanırken ölümlülüğün, 15 yıllık zaman dilimi içerisinde sabit kalacağı varsayılmış ve Coale-Demeny model hayat tablolarından Doğu modeli tercih edilmiştir. Öz çocuk yöntemiyle elde edilen sonuçlar, ülke geneline ek olarak kır-kent ve 5 bölge için de verilmiştir. Üç araştırmanın her birinden 15 senelik doğurganlık tahmini elde edileceği düşünülürse öz çocuk yöntemi, Türkiye’deki doğurganlık düzeyine ve eğilimine ilişkin daha kesin analizlerin 1978 yılı itibarıyla yapılmasına herhangi bir yaş kısıtlaması olmadan olanak tanımaktadır.

Öz çocuk yönteminin geçerliliğinin ve güvenilirliğinin test edilmesi amacıyla da bu yöntemle elde edilen bulgular, Türkiye Nüfus ve Sağlık Araştırmaları (TNSA) tarafından hesaplanmış olan doğurganlık hızları ile karşılaştırılmıştır. Elde edilen sonuçlar, öz çocuk yöntemiyle bulunan doğurganlık hızı tahminlerinin TNSA’lardaki hızlarla hemen hemen örtüştüğünü, kır-kent ve 5 bölge ile ilgili olarak yapılan hesaplamalarda da gerek öz çocuk yönteminin gerekse de TNSA sonuçlarının birbirine çok benzer olduğunu göstermektedir.

SUMMARY

Pelin ÇAĞATAY: The Analyses of Fertility Trends in Turkey: An Application of Own-Children Method to 1993, 1998 and 2003 Turkey Demographic and Health Survey. (Unpublished Master Thesis, Hacettepe University, Ankara, 2006)

Information related to fertility is obtained from vital registrations, censuses and demographic researches. Due to the fact that vital registration system in Turkey does not work well and they are not very reliable, censuses and demographic surveys are mostly utilised for fertility estimations. By using one of these two sources, the level and trend of fertility can also be determined by means of indirect methods. Own-children method is one of the indirect methods of fertility estimation that uses the current information about the age-structure of women and children as well as their mortality pattern in order to provide the estimations of fertility rates for the 15-year period preceding a census or survey.

The prior objective of this study is to apply the own-children method to the household data sets of 1993, 1998 and 2003 Turkey Demographic and Health Survey carried out by Hacettepe Institute of Population Studies every five years nationwide. When employing the method, mortality is assumed to have remained constant during the 15-year time period and East model among Coale-Demeny model life tables has been preferred. The findings of the own-children method have also been presented concerning urban-rural and five regions in addition to the countrywide results. If each of the three surveys are thought to produce a 15-year estimation period for fertility with this method, own-children provides the opportunity to do more definitive analyses related to the level and trend of fertility in Turkey as of 1978 without any age restrictions.

At the end of this study, fertility estimates of own-children method have been compared with those of TDHS-type in order to check the validity and reliability of the own-children. Overlapping estimates of overall fertility rates derived from the two approaches and resembling findings for fertility attained from either TDHS itself or own-children regarding both urban-rural breakdown and five regions have been apparently observed despite some slight differences.

Table II.1.2. A Summary Table Indicating Last Three Nationwide Demographic Surveys in Turkey

SURVEYS	FEATURES OF SURVEYS				
	FROM	TO	SURVEY SAMPLE	LEVEL OF ANALYSIS	QUESTIONNAIRE TYPE
TDHS-1993	August '93	October '93	8,619 households 6,519 ever-married women 15-49	national urban-rural 5-region	household ever-married
TDHS-1998	August '98	November '98	8,059 households 8,576 all women15-49	national urban-rural 5-region	household ever-married never-married women husband
TDHS-2003	December '03	May '04	10,836 households 8,075 ever-married women 15-49	national urban-rural 5-region ¹ 12-region ²	household ever-married

¹ West, South, Central, North and East

² İstanbul, West Marmara, Aegean, East Marmara, West Anatolia, Mediterrean, Central Anatolia, West Black Sea, East Black Sea, Northeast Anatolia, Central East Anatoli and Southeast Anatolia

TABLE OF CONTENTS

SUMMARY.....	iv
ÖZET.....	v
ACKNOWLEDGEMENT.....	vi
TABLE OF CONTENTS.....	vii
LIST OF TABLES.....	ix
LIST OF FIGURES.....	xiii
I. INTRODUCTION.....	1
II. DATA SOURCES AND METHODOLOGY.....	3
II.1. DATA SOURCES.....	3
II.1.1. 1993 Turkish Demographic and Health Survey.....	3
II.1.2. 1998 Turkish Demographic and Health Survey.....	4
II.1.3. 2003 Turkish Demographic and Health Survey.....	5
II.1.4. Data and Number of Cases Used in the Study.....	6
II.1.5. Variables.....	7
II.2. HISTORICAL DEVELOPMENT OF OWN-CHILDREN METHOD.....	11
II.3. THE METHODOLOGY OF OWN-CHILDREN METHOD.....	12
II.4. STRENGTHS AND LIMITATIONS OF THE METHOD.....	13
II.5. DATA REQUIRED.....	15
II.6. COMPUTATIONAL PROCEDURE.....	16
II.7. MORTPAK FOR LIFE TABLE FUNCTIONS.....	22
II.7.1. MATCH Procedure.....	22
II.7.2. UNABR Procedure.....	23

III. LITERATURE REVIEW ON OWN-CHILDREN METHOD.....	25
III.1. WORLDWIDE EXAMPLES ON THE APPLICATION OF THE OWN-CHILDREN METHOD OF FERTILITY ESTIMATION.....	25
III.2. OWN-CHILDREN METHOD IN TURKEY.....	30
IV. FERTILITY TRENDS AND LEVELS IN TURKEY.....	32
V. APPLICATION OF OWN-CHILDREN METHOD TO TURKISH DEMOGRAPHIC AND HEALTH SURVEYS CONDUCTED IN 1993, 1998 AND 2003.....	41
V.1. DATA QUALITY.....	41
V.2. APPLICATION OF THE METHOD TO TDHS-1993, TDHS-1998 AND TDHS-2003.....	49
V.3. TDHS-TYPE FERTILITY ESTIMATION VERSUS OWN- CHILDREN ESTIMATES OF OWN-CHILDREN METHOD.....	88
VI. CONCLUSION.....	109
VII. REFERENCES.....	113
APPENDIXES.....	119

Table V.2.11. Estimated Number of Births in Single Year Periods by Single Year Age of Mother Derived from TDHS-1993

Age of mother at birth of child	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	15.88	10.28	18.04	12.44	21.12	9.08	11.86	12.31	15.65	15.05	13.28	4.95	3.87	2.71	3.16
16	21.76	32.56	22.70	25.45	28.53	17.59	24.28	18.47	22.36	18.96	18.26	13.20	9.40	10.84	11.06
17	25.87	45.12	50.06	29.97	38.24	30.64	33.89	29.11	29.63	27.88	29.32	17.60	28.76	17.89	21.07
18	45.27	51.40	60.53	58.24	40.52	51.07	44.62	46.46	39.69	30.66	45.92	27.51	36.51	33.07	32.66
19	58.21	89.67	55.88	74.08	70.77	52.78	63.25	63.25	54.23	40.70	56.98	50.06	47.02	55.30	54.26
20	69.38	88.53	82.65	58.24	80.47	62.99	57.04	73.32	67.09	58.54	64.17	61.07	54.21	60.72	59.01
21	69.97	80.53	86.73	65.60	61.06	70.94	72.85	67.17	61.50	68.02	56.43	64.92	50.89	60.72	62.17
22	59.39	87.96	86.14	71.82	76.47	64.69	85.28	87.88	54.79	64.11	54.21	56.11	59.74	55.84	69.02
23	67.03	75.39	73.92	70.12	69.05	81.72	63.82	83.96	70.44	47.39	54.21	53.36	56.97	54.21	60.59
24	58.80	80.53	61.12	61.07	71.34	66.96	65.51	59.33	66.53	63.00	43.15	58.87	45.91	48.79	65.85
25	67.62	66.25	72.17	41.85	78.76	56.18	61.56	72.21	45.28	59.65	54.77	42.36	43.15	43.37	55.32
26	59.97	66.25	62.28	48.63	62.78	54.48	65.51	58.21	43.61	40.70	54.77	46.21	38.17	44.45	46.89
27	36.45	55.40	71.59	49.76	59.35	33.48	62.12	45.34	36.90	46.83	44.26	45.11	41.49	34.15	47.41
28	52.92	32.56	58.79	47.50	41.66	44.83	41.23	39.18	50.32	37.91	45.92	33.56	33.19	37.95	32.14
29	43.51	49.69	30.85	38.45	47.94	44.26	47.44	26.31	46.96	33.45	34.85	38.51	22.68	31.44	34.24
30	35.87	38.27	39.00	22.62	44.51	40.86	38.40	35.26	21.80	27.88	31.53	30.26	24.34	16.26	34.24
31	35.87	30.27	32.59	33.36	22.26	32.35	36.14	28.55	21.80	18.96	22.13	26.96	14.38	17.89	24.76
32	26.46	27.99	36.09	28.84	23.40	14.19	30.50	26.87	20.13	13.94	14.94	22.56	18.81	17.35	29.50
33	24.70	17.13	33.18	26.01	23.40	24.40	16.94	26.87	28.51	11.71	19.36	14.85	18.25	15.72	25.81
34	14.70	19.42	17.46	25.45	31.39	21.00	25.98	19.03	22.36	21.19	16.60	14.85	10.51	10.30	17.39
35	20.58	11.42	14.55	16.96	29.11	11.35	21.46	22.95	13.42	18.40	18.26	8.80	13.83	9.22	12.12
36	28.22	14.28	11.64	13.01	17.12	12.48	22.59	12.87	20.69	8.36	13.28	9.90	13.28	13.01	10.01
37	26.46	24.56	19.79	7.35	14.27	10.21	19.77	9.52	11.74	7.25	2.21	9.35	13.83	9.76	10.54
38	23.52	19.99	20.95	6.79	7.42	6.24	9.04	9.52	7.83	4.46	6.09	4.40	11.62	5.96	10.01
39	15.29	13.14	13.39	11.31	10.27	3.97	10.17	5.60	8.39	4.46	6.64	6.60	3.87	3.25	12.64
40	23.52	9.71	10.48	13.01	15.41	6.81	7.91	6.16	4.47	4.46	4.98	4.95	2.21	1.08	8.43
41	19.40	9.71	9.31	9.61	10.84	7.94	6.21	2.80	2.24	2.23	4.43	3.85	2.77	2.71	2.11
42	4.70	6.85	11.06	3.96	6.28	5.67	6.78	5.04	0.00	2.23	1.66	2.75	3.87	2.17	1.05
43	2.35	4.00	8.73	2.83	3.99	5.11	4.52	7.28	0.56	2.23	0.55	0.55	3.87	1.08	1.05
44	0.00	4.57	2.33	2.83	6.28	3.40	3.39	3.36	2.80	1.67	0.55	2.20	1.66	1.63	0.53
45	4.70	2.86	1.16	1.13	5.71	2.84	1.69	1.12	4.47	1.12	3.87	1.65	0.00	0.54	0.53
46	4.70	1.14	1.16	1.70	1.14	1.13	0.56	1.12	2.24	0.00	3.32	0.55	0.00	0.00	0.53
47	0.00	0.57	0.00	1.13	2.85	0.00	1.69	3.36	0.56	0.00	0.00	0.55	0.00	0.54	0.53
48	0.00	1.14	0.00	0.00	3.42	1.13	1.69	2.24	1.12	1.12	0.55	0.00	0.00	0.54	0.00
49	0.59	1.14	0.00	0.00	0.57	1.13	0.56	0.00	0.56	1.12	0.55	0.00	0.00	0.00	0.00

Table V.2.12. Estimated Number of Births in Single Year Periods by Single Year Age of Mother Derived from TDHS-1998

Age of mother at birth of child	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	9.68	9.08	7.47	6.77	7.34	9.95	8.27	3.27	8.28	7.04	3.81	3.77	4.30	4.24	3.66
16	14.80	15.32	14.36	17.48	14.11	18.25	19.84	13.09	13.80	15.70	12.53	8.62	10.75	14.84	8.36
17	25.05	18.15	25.27	26.50	31.04	21.57	33.61	29.45	25.39	26.53	21.79	16.16	23.64	22.27	21.43
18	39.85	24.39	28.14	36.65	34.99	30.97	35.82	39.27	45.82	31.40	28.87	26.40	35.47	34.46	32.41
19	38.14	41.98	36.75	39.47	46.28	37.05	45.19	41.45	54.10	38.98	47.94	43.64	42.45	46.65	44.44
20	43.26	55.03	53.98	42.29	47.41	42.02	59.52	48.54	52.44	50.89	62.64	54.42	49.97	48.24	50.19
21	48.39	62.41	56.28	50.75	59.82	42.02	63.92	56.17	57.41	55.22	66.46	58.73	55.89	44.53	53.33
22	49.52	64.11	56.28	59.77	76.19	43.68	53.45	65.44	57.41	55.76	58.29	58.19	53.20	51.95	58.55
23	57.49	56.16	56.85	67.67	59.82	56.40	49.60	50.17	61.27	47.10	51.20	54.42	52.12	58.84	60.12
24	52.37	64.11	49.96	58.65	52.49	60.82	55.66	36.54	60.17	41.69	48.48	53.88	49.97	59.90	60.64
25	56.36	62.41	46.52	47.93	46.28	51.42	51.25	49.63	48.58	33.02	48.48	52.80	46.75	58.84	57.51
26	49.52	47.65	44.22	47.37	41.20	35.94	55.11	43.08	46.92	33.02	42.49	48.49	47.83	52.48	46.01
27	36.43	41.41	53.41	41.17	42.33	35.94	53.45	35.45	46.37	47.64	34.32	32.87	46.75	36.58	38.69
28	35.86	33.47	47.09	37.78	33.30	39.81	39.68	35.99	45.27	39.52	38.13	24.78	31.70	32.34	41.30
29	30.74	38.01	31.58	34.96	32.17	28.20	38.57	33.81	41.95	33.57	33.77	30.71	19.34	32.87	38.16
30	39.28	33.47	33.31	18.05	30.48	24.88	35.27	31.63	33.67	29.23	29.42	28.56	27.41	23.86	29.28
31	34.15	28.93	29.86	19.17	20.88	25.44	28.66	20.72	27.60	23.82	25.06	23.71	28.48	26.51	28.75
32	16.51	23.26	29.86	24.81	19.75	16.04	20.39	22.36	25.39	24.36	16.34	24.78	19.88	25.98	33.46
33	20.49	13.62	25.84	21.43	16.37	12.72	12.12	24.00	28.71	16.78	16.34	23.17	13.43	22.27	24.57
34	18.79	17.59	17.80	15.23	15.80	13.27	13.23	14.18	22.08	15.16	16.89	17.78	9.14	21.21	19.87
35	15.94	15.32	16.65	9.59	11.29	16.04	15.43	13.63	10.49	11.37	12.53	9.70	9.67	16.43	19.87
36	22.77	15.32	14.36	10.15	6.77	14.93	17.08	9.82	12.14	8.12	8.17	8.08	10.21	11.13	17.25
37	17.08	17.59	13.21	7.89	10.72	8.29	11.02	10.36	11.59	12.45	3.27	8.08	6.45	6.89	13.07
38	9.68	9.64	10.34	9.59	9.59	6.08	3.86	10.36	9.94	8.66	7.08	5.39	4.30	5.83	5.75
39	5.12	5.67	5.74	9.02	11.29	3.32	6.61	3.82	8.28	8.12	7.63	4.85	3.22	7.42	3.14
40	7.40	4.54	6.89	3.38	12.98	3.87	6.61	4.91	4.42	7.04	4.36	4.31	3.76	3.71	4.71
41	11.38	9.64	4.59	2.82	6.77	4.98	6.61	4.91	4.42	1.62	4.36	4.31	2.69	3.71	2.61
42	6.26	10.78	5.17	1.69	3.39	3.87	8.27	3.27	3.86	1.08	2.72	2.16	1.61	2.65	1.05
43	2.85	4.54	6.89	3.38	0.56	4.98	5.51	4.36	2.76	0.54	2.72	1.08	1.07	1.59	1.57
44	3.42	3.40	4.02	3.38	3.39	3.32	2.20	2.18	2.76	1.08	2.18	1.62	0.00	1.59	2.09
45	3.42	1.70	2.87	1.13	3.95	2.76	0.00	0.55	2.21	1.62	0.54	1.08	0.00	1.06	1.05
46	2.28	0.57	1.72	0.56	0.56	2.76	0.55	0.55	1.66	0.54	1.09	0.00	0.00	0.53	0.52
47	0.57	1.13	0.57	0.00	0.56	1.66	1.65	2.18	1.10	0.54	1.09	0.54	1.07	0.00	0.52
48	0.57	0.57	1.15	1.13	0.56	0.55	1.10	2.18	1.66	1.08	0.54	0.54	1.07	0.53	0.00
49	0.57	0.00	0.57	1.69	1.13	0.00	0.00	0.55	1.66	2.17	0.00	0.00	0.00	0.53	0.00

Table V.2.13. Estimated Number of Births in Single Year Periods by Single Year Age of Mother Derived from TDHS-2003

Age of mother at birth of child	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	10.07	13.21	9.74	5.99	8.75	6.98	6.00	8.09	6.96	3.80	4.84	4.84	2.12	1.58	1.56
16	18.46	23.68	22.72	14.70	17.51	17.72	16.91	14.56	14.98	16.29	5.91	13.44	7.95	4.21	8.83
17	28.53	33.59	37.87	30.49	30.64	31.67	30.00	24.27	20.33	28.24	25.81	23.11	22.25	20.52	19.73
18	39.16	39.64	45.44	50.08	42.13	40.80	38.18	38.82	33.71	32.59	46.24	33.32	35.49	34.20	28.03
19	48.11	51.21	46.52	54.44	61.83	48.32	45.82	45.30	55.64	42.37	44.63	48.91	51.38	38.93	35.82
20	61.54	60.02	58.42	59.88	64.56	58.51	67.64	54.46	58.85	56.49	52.69	54.82	58.80	47.87	41.01
21	66.01	68.27	57.34	75.12	61.28	64.96	80.73	64.71	49.22	57.03	58.61	58.58	56.15	53.14	64.89
22	62.10	61.67	51.93	66.41	70.03	73.01	69.82	72.26	58.32	53.77	55.92	74.17	59.86	50.50	76.32
23	64.34	58.36	49.23	59.34	54.71	65.49	67.09	77.11	71.16	61.38	60.22	72.02	62.51	49.98	66.45
24	67.13	77.08	51.39	52.80	52.52	54.22	63.82	68.48	64.20	75.50	61.83	68.80	68.33	56.29	64.38
25	57.62	69.38	61.13	48.45	47.05	54.22	56.19	63.63	56.18	68.98	66.13	68.26	67.27	48.40	58.66
26	53.71	65.52	52.47	59.34	47.05	44.02	57.28	55.00	55.11	45.08	60.22	67.72	53.50	47.87	57.11
27	47.55	56.71	47.06	56.07	53.62	32.75	45.82	46.91	44.41	36.39	46.78	60.20	51.91	55.24	42.57
28	38.60	42.95	40.03	47.36	45.41	38.12	35.46	40.98	37.99	31.50	43.01	45.15	47.67	44.72	31.15
29	40.84	46.80	28.67	39.74	41.03	43.48	40.37	36.67	34.78	38.56	38.71	47.84	39.73	30.51	36.34
30	37.48	39.64	24.88	32.12	34.47	33.28	38.73	37.21	40.13	37.48	37.10	41.92	42.38	26.83	33.23
31	31.33	36.34	29.75	29.40	33.92	25.77	32.73	36.67	44.94	32.05	30.11	32.25	38.14	23.15	28.55
32	23.50	30.28	29.75	27.76	28.45	23.08	28.37	29.66	35.31	31.50	24.19	25.80	25.43	18.41	23.36
33	19.02	18.72	18.93	23.41	23.53	20.94	23.46	26.42	27.29	28.24	23.66	16.66	13.24	21.04	16.61
34	16.78	17.07	12.44	16.33	22.43	20.40	24.00	24.27	20.87	27.16	22.04	13.97	14.83	20.52	18.69
35	15.11	14.87	11.36	15.79	15.87	16.11	18.00	16.72	12.84	16.29	18.82	16.12	19.07	13.15	14.54
36	12.31	13.21	8.66	10.34	10.40	8.05	10.91	14.56	10.70	9.23	11.83	17.20	16.42	11.05	7.27
37	13.43	10.46	5.95	3.81	9.85	6.44	8.18	10.78	10.17	11.95	8.60	15.05	13.24	14.20	10.38
38	14.55	9.36	10.28	5.44	6.57	6.98	6.00	7.01	9.10	13.58	7.53	10.75	9.01	9.47	9.34
39	10.63	7.71	12.44	7.08	4.38	4.29	5.45	3.77	7.49	9.23	4.30	10.21	5.83	6.31	5.71
40	9.51	3.85	8.11	8.71	6.02	5.37	3.27	4.31	2.14	3.80	2.69	6.99	7.42	3.16	4.67
41	10.07	4.96	4.87	7.62	3.83	4.83	3.27	3.77	1.61	2.17	4.84	4.30	5.30	2.63	2.60
42	6.15	5.51	5.95	4.90	2.19	3.76	3.82	2.16	2.68	3.26	3.76	2.69	1.06	4.21	2.60
43	3.92	2.75	4.87	4.36	2.19	3.76	4.91	1.08	3.21	2.72	0.54	0.54	1.59	2.10	2.08
44	3.92	1.65	1.62	3.81	3.28	2.68	4.36	0.54	2.14	1.09	0.54	0.00	1.06	0.53	0.52
45	1.68	1.10	1.08	2.18	1.64	1.61	2.18	1.62	0.00	1.09	1.08	0.54	1.06	0.00	0.00
46	0.56	0.00	1.62	0.54	0.00	0.54	2.18	1.62	0.54	1.09	0.54	1.61	1.06	0.53	0.00
47	1.12	0.55	1.08	0.00	0.00	0.54	1.09	0.54	0.54	1.09	0.54	1.07	0.53	0.53	0.00
48	1.12	0.55	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.54	0.54	0.00	0.53	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table V.2.14. Estimated Number of Women in Single Year Periods by Single Year Age of Woman Derived from TDHS-1993

Age of mother	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	308.51	264.14	311.99	304.34	323.62	340.43	342.71	377.49	372.15	405.92	419.62	437.71	508.46	508.36	482.56
16	310.46	310.82	266.12	314.33	306.62	326.04	342.98	345.28	380.31	374.94	408.96	422.76	440.98	512.26	512.16
17	237.70	307.10	307.46	263.24	310.93	303.30	322.51	339.27	341.54	376.20	370.88	404.53	418.18	436.21	506.72
18	296.13	237.58	306.94	307.30	263.10	310.77	303.15	322.34	339.09	341.36	376.00	370.69	404.32	417.97	435.99
19	285.24	298.39	239.39	309.28	309.64	265.11	313.13	305.45	324.80	341.68	343.96	378.86	373.51	407.40	421.15
20	261.31	280.94	293.89	235.78	304.62	304.97	261.11	308.41	300.85	319.90	336.52	338.78	373.15	367.88	401.26
21	253.89	263.18	282.94	295.98	237.46	306.79	307.15	262.97	310.61	303.00	322.18	338.93	341.20	375.81	370.51
22	213.45	253.80	263.09	282.85	295.88	237.38	306.69	307.05	262.88	310.51	302.89	322.08	338.81	341.08	375.69
23	249.58	212.06	252.15	261.38	281.01	293.96	235.84	304.69	305.05	261.17	308.49	300.92	319.98	336.61	338.86
24	234.83	249.44	211.94	252.02	261.24	280.86	293.80	235.71	304.53	304.89	261.03	308.32	300.76	319.81	336.43
25	248.77	234.71	249.32	211.84	251.90	261.11	280.72	293.66	235.60	304.38	304.74	260.91	308.17	300.62	319.66
26	231.69	248.66	234.61	249.21	211.75	251.78	261.00	280.60	293.53	235.49	304.25	304.60	260.79	308.04	300.48
27	174.84	230.26	247.12	233.16	247.67	210.44	250.23	259.39	278.87	291.72	234.04	302.37	302.72	259.18	306.14
28	215.15	175.61	231.27	248.20	234.18	248.76	211.36	251.33	260.52	280.09	293.00	235.07	303.69	304.05	260.32
29	187.16	213.92	174.61	229.95	246.79	232.85	247.34	210.16	249.90	259.04	278.49	291.33	233.73	301.97	302.32
30	183.92	186.16	212.78	173.67	228.73	245.48	231.61	246.02	209.04	248.56	257.66	277.01	289.77	232.48	300.35
31	186.75	183.75	185.98	212.58	173.51	228.51	245.25	231.39	245.79	208.84	248.33	257.42	276.75	289.50	232.26
32	143.52	186.68	183.68	185.92	212.50	173.45	228.43	245.16	231.31	245.70	208.76	248.24	257.32	276.65	289.40
33	152.63	142.85	185.81	182.82	185.04	211.51	172.63	227.36	244.00	230.22	244.55	207.78	247.07	256.12	275.35
34	125.14	151.95	142.21	184.98	182.01	184.22	210.57	171.87	226.35	242.92	229.20	243.47	206.86	245.98	254.98
35	147.90	125.20	152.02	142.28	185.06	182.09	184.31	210.66	171.95	226.45	243.03	229.30	243.57	206.96	246.09
36	194.67	147.38	124.75	151.47	141.77	184.40	181.44	183.65	209.91	171.33	225.64	242.16	228.48	242.70	206.22
37	201.49	194.11	146.95	124.39	151.04	141.36	183.88	180.92	183.12	209.31	170.84	224.99	241.47	227.83	242.01
38	214.34	201.15	193.78	146.70	124.18	150.78	141.12	183.56	180.61	182.81	208.95	170.55	224.61	241.06	227.44
39	172.35	213.23	200.11	192.77	145.94	123.54	150.00	140.39	182.61	179.68	181.86	207.87	169.67	223.45	239.81
40	225.30	172.28	213.14	200.03	192.70	145.88	123.48	149.94	140.33	182.54	179.60	181.79	207.78	169.60	223.35
41	223.42	223.93	171.23	211.84	198.81	191.52	144.99	122.73	149.03	139.48	181.42	178.51	180.68	206.52	168.56
42	138.61	222.99	223.49	170.90	211.42	198.42	191.15	144.71	122.49	148.73	139.20	181.07	178.16	180.33	206.11
43	133.82	138.13	222.20	222.70	170.30	210.68	197.72	190.47	144.20	122.06	148.21	138.71	180.43	177.53	179.69
44	106.95	133.18	137.47	221.14	221.64	169.48	209.68	196.78	189.57	143.51	121.48	147.51	138.05	179.57	176.69
45	227.32	106.29	132.36	136.62	219.78	220.27	168.44	208.39	195.57	188.40	142.63	120.73	146.60	137.20	178.47
46	220.65	226.43	105.87	131.84	136.09	218.92	219.41	167.78	207.57	194.80	187.66	142.07	120.26	146.02	136.67
47	94.28	220.14	225.91	105.63	131.54	135.77	218.42	218.91	167.40	207.09	194.35	187.23	141.75	119.98	145.69
48	121.25	93.60	218.53	224.26	104.86	130.58	134.78	216.82	217.31	166.17	205.58	192.93	185.86	140.71	119.11
49	110.61	120.95	93.36	217.97	223.69	104.59	130.25	134.44	216.27	216.75	165.75	205.06	192.44	185.39	140.35

Table V.2.15. Estimated Number of Women in Single Year Periods by Single Year Age of Woman Derived from TDHS-1998

Age of mother	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	277.61	274.43	285.74	311.29	337.76	341.03	337.13	329.79	327.60	352.76	350.05	390.20	421.56	401.87	377.29
16	238.59	275.42	272.27	283.50	308.85	335.10	338.35	334.48	327.20	325.03	349.98	347.30	387.13	418.25	398.71
17	219.60	239.84	276.87	273.70	284.99	310.47	336.87	340.13	336.24	328.92	326.73	351.82	349.12	389.16	420.44
18	267.52	218.13	238.23	275.01	271.86	283.07	308.38	334.60	337.84	333.98	326.71	324.54	349.46	346.77	386.55
19	274.64	271.65	221.49	241.90	279.25	276.05	287.43	313.13	339.76	343.05	339.13	331.75	329.54	354.84	352.12
20	250.48	270.36	267.41	218.03	238.13	274.89	271.75	282.95	308.25	334.46	337.70	333.84	326.57	324.40	349.31
21	238.70	251.53	271.50	268.54	218.95	239.13	276.05	272.89	284.14	309.55	335.87	339.12	335.24	327.95	325.77
22	237.56	237.47	250.23	270.09	267.14	217.82	237.89	274.62	271.48	282.67	307.94	334.13	337.36	333.50	326.25
23	255.49	238.47	238.38	251.19	271.13	268.17	218.66	238.81	275.68	272.52	283.76	309.13	335.42	338.66	334.79
24	232.84	256.39	239.31	239.22	252.07	272.08	269.11	219.42	239.64	276.64	273.48	284.75	310.21	336.59	339.85
25	218.70	229.96	253.21	236.35	236.26	248.95	268.71	265.78	216.71	236.68	273.22	270.09	281.23	306.37	332.42
26	206.11	219.49	230.79	254.13	237.20	237.11	249.85	269.68	266.74	217.49	237.53	274.21	271.07	282.24	307.48
27	181.74	205.30	218.63	229.88	253.13	236.27	236.18	248.87	268.63	265.70	216.64	236.60	273.13	270.01	281.14
28	205.65	181.08	204.56	217.84	229.05	252.22	235.42	235.33	247.97	267.66	264.74	215.85	235.75	272.15	269.03
29	199.62	207.63	182.82	206.52	219.93	231.25	254.64	237.67	237.59	250.35	270.22	267.28	217.93	238.01	274.76
30	196.61	197.61	205.54	180.98	204.45	217.72	228.93	252.08	235.29	235.20	247.84	267.51	264.59	215.74	235.62
31	189.01	196.10	197.10	205.01	180.51	203.92	217.16	228.33	251.43	234.68	234.59	247.19	266.82	263.91	215.18
32	146.50	189.60	196.72	197.72	205.65	181.08	204.56	217.84	229.05	252.22	235.42	235.33	247.97	267.66	264.74
33	166.58	146.15	189.14	196.24	197.24	205.15	180.64	204.06	217.31	228.49	251.60	234.84	234.75	247.37	267.00
34	156.45	166.28	145.89	188.81	195.89	196.89	204.79	180.32	203.70	216.92	228.09	251.16	234.43	234.34	246.93
35	145.41	156.19	166.01	145.65	188.50	195.57	196.57	204.45	180.02	203.37	216.57	227.72	250.75	234.04	233.96
36	169.70	144.51	155.22	164.98	144.74	187.33	194.36	195.34	203.18	178.90	202.10	215.22	226.30	249.19	232.59
37	141.17	169.65	144.46	155.18	164.93	144.70	187.27	194.30	195.29	203.13	178.85	202.05	215.16	226.24	249.12
38	130.60	141.19	169.68	144.49	155.21	164.96	144.73	187.31	194.34	195.33	203.16	178.89	202.09	215.20	226.28
39	128.76	130.09	140.64	169.02	143.93	154.60	164.32	144.16	186.58	193.58	194.56	202.37	178.19	201.30	214.36
40	166.10	128.41	129.74	140.26	168.56	143.54	154.19	163.88	143.78	186.07	193.06	194.04	201.83	177.71	200.75
41	167.59	165.16	127.69	129.01	139.47	167.61	142.73	153.32	162.95	142.97	185.03	191.97	192.95	200.69	176.71
42	113.31	167.45	165.03	127.59	128.91	139.36	167.48	142.62	153.20	162.82	142.85	184.88	191.82	192.79	200.53
43	115.12	112.91	166.86	164.45	127.14	128.45	138.87	166.89	142.11	152.65	162.25	142.35	184.23	191.14	192.11
44	117.40	114.50	112.30	165.97	163.56	126.45	127.76	138.12	165.99	141.35	151.83	161.38	141.58	183.24	190.11
45	160.06	117.30	114.40	112.21	165.83	163.43	126.35	127.66	138.01	165.85	141.23	151.71	161.24	141.47	183.08
46	134.76	159.64	116.99	114.10	111.91	165.39	162.99	126.01	127.32	137.64	165.41	140.86	151.31	160.82	141.09
47	69.75	134.26	159.04	116.56	113.67	111.50	164.77	162.39	125.54	126.85	137.13	164.80	140.33	150.74	160.22
48	91.65	69.26	133.31	157.92	115.74	112.87	110.71	163.61	161.24	124.66	125.95	136.17	163.64	139.35	149.68
49	90.35	91.39	69.07	132.94	157.48	115.42	112.56	110.40	163.16	160.79	124.31	125.60	135.79	163.18	138.96

Table V.2.16. Estimated Number of Women in Single Year Periods by Single Year Age of Woman Derived from TDHS-2003

Age of mother	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	384.34	362.33	365.53	383.55	415.59	414.65	427.78	465.08	428.48	405.46	406.44	403.53	451.96	455.94	416.37
16	366.67	383.13	361.18	364.38	382.34	414.27	413.34	426.42	463.61	427.12	404.18	405.16	402.25	450.53	454.50
17	316.61	369.51	386.10	363.98	367.20	385.30	417.48	416.54	429.73	467.20	430.43	407.31	408.30	405.37	454.02
18	328.99	313.05	365.35	381.76	359.89	363.07	380.97	412.79	411.86	424.89	461.94	425.59	402.73	403.70	400.81
19	316.65	330.98	314.94	367.57	384.07	362.07	365.27	383.27	415.29	414.35	427.47	464.74	428.17	405.17	406.15
20	311.61	315.67	329.96	313.97	366.43	382.88	360.95	364.14	382.09	414.01	413.07	426.15	463.31	426.85	403.92
21	280.41	310.41	314.45	328.68	312.75	365.01	381.40	359.55	362.73	380.61	412.40	411.47	424.50	461.51	425.19
22	266.40	279.19	309.06	313.09	327.25	311.40	363.43	379.75	358.00	361.16	378.96	410.61	409.69	422.66	459.51
23	320.18	266.74	279.54	309.45	313.48	327.67	311.79	363.89	380.22	358.45	361.61	379.44	411.13	410.20	423.19
24	339.15	320.18	266.74	279.54	309.45	313.48	327.67	311.79	363.89	380.22	358.45	361.61	379.44	411.13	410.20
25	329.20	339.15	320.18	266.74	279.54	309.45	313.48	327.67	311.79	363.89	380.22	358.45	361.61	379.44	411.13
26	293.00	328.93	338.87	319.91	266.52	279.31	309.19	313.22	327.39	311.53	363.59	379.91	358.15	361.31	379.12
27	275.66	290.90	326.56	336.44	317.61	264.60	277.31	306.97	310.97	325.04	309.29	360.98	377.18	355.58	358.72
28	303.99	275.53	290.76	326.41	336.28	317.46	264.48	277.17	306.83	310.83	324.89	309.15	360.80	377.00	355.41
29	292.13	303.99	275.53	290.76	326.41	336.28	317.46	264.48	277.17	306.83	310.83	324.89	309.15	360.80	377.00
30	276.87	290.28	302.07	273.79	288.92	324.34	334.15	315.45	262.80	275.42	304.88	308.86	322.83	307.19	358.52
31	261.76	279.02	292.54	304.42	275.92	291.17	326.87	336.75	317.91	264.85	277.56	307.26	311.26	325.35	309.58
32	228.19	258.94	276.01	289.39	301.14	272.95	288.03	323.35	333.12	314.49	261.99	274.57	303.95	307.91	321.84
33	244.31	228.88	259.72	276.84	290.26	302.05	273.77	288.90	324.32	334.12	315.43	262.78	275.40	304.86	308.83
34	213.91	243.73	228.34	259.10	276.19	289.57	301.33	273.12	288.21	323.55	333.33	314.68	262.16	274.74	304.14
35	192.44	213.74	243.54	228.15	258.90	275.97	289.34	301.09	272.90	287.98	323.29	333.07	314.43	261.95	274.53
36	207.80	192.39	213.68	243.47	228.09	258.82	275.89	289.26	301.00	272.82	287.90	323.20	332.97	314.34	261.88
37	230.73	206.95	191.60	212.82	242.48	227.16	257.77	274.77	288.08	299.78	271.71	286.73	321.89	331.62	313.06
38	258.98	230.10	206.38	191.08	212.23	241.81	226.54	257.06	274.01	287.29	298.96	270.97	285.95	321.00	330.71
39	237.53	258.66	229.81	206.12	190.84	211.96	241.51	226.25	256.74	273.67	286.93	298.58	270.63	285.59	320.60
40	226.29	236.59	257.63	228.89	205.30	190.08	211.12	240.55	225.35	255.72	272.58	285.79	297.39	269.55	284.45
41	188.94	225.67	235.94	256.93	228.27	204.75	189.56	210.55	239.90	224.74	255.03	271.84	285.01	296.59	268.82
42	146.30	188.05	224.61	234.84	255.72	227.20	203.79	188.68	209.56	238.77	223.69	253.83	270.57	283.68	295.20
43	172.68	146.31	188.05	224.62	234.84	255.73	227.21	203.79	188.68	209.57	238.77	223.69	253.83	270.57	283.68
44	146.65	171.90	145.65	187.21	223.61	233.79	254.58	226.19	202.88	187.83	208.62	237.70	222.69	252.69	269.36
45	158.77	145.88	170.99	144.88	186.22	222.43	232.56	253.24	224.99	201.81	186.84	207.52	236.45	221.52	251.36
46	155.43	158.23	145.38	170.41	144.39	185.59	221.68	231.77	252.38	224.23	201.12	186.21	206.82	235.65	220.76
47	111.65	154.18	156.95	144.21	169.04	143.23	184.09	219.89	229.90	250.34	222.42	199.50	184.71	205.15	233.75
48	144.41	111.44	153.88	156.66	143.93	168.72	142.95	183.74	219.47	229.46	249.87	222.00	199.12	184.36	204.76
49	159.80	143.33	110.61	152.74	155.49	142.86	167.46	141.89	182.38	217.84	227.75	248.01	220.35	197.64	182.98

Table V.2.14. Estimated Number of Women in Single Year Periods by Single Year Age of Woman Derived from TDHS-1993

Age of mother	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	308.51	264.14	311.99	304.34	323.62	340.43	342.71	377.49	372.15	405.92	419.62	437.71	508.46	508.36	482.56
16	310.46	310.82	266.12	314.33	306.62	326.04	342.98	345.28	380.31	374.94	408.96	422.76	440.98	512.26	512.16
17	237.70	307.10	307.46	263.24	310.93	303.30	322.51	339.27	341.54	376.20	370.88	404.53	418.18	436.21	506.72
18	296.13	237.58	306.94	307.30	263.10	310.77	303.15	322.34	339.09	341.36	376.00	370.69	404.32	417.97	435.99
19	285.24	298.39	239.39	309.28	309.64	265.11	313.13	305.45	324.80	341.68	343.96	378.86	373.51	407.40	421.15
20	261.31	280.94	293.89	235.78	304.62	304.97	261.11	308.41	300.85	319.90	336.52	338.78	373.15	367.88	401.26
21	253.89	263.18	282.94	295.98	237.46	306.79	307.15	262.97	310.61	303.00	322.18	338.93	341.20	375.81	370.51
22	213.45	253.80	263.09	282.85	295.88	237.38	306.69	307.05	262.88	310.51	302.89	322.08	338.81	341.08	375.69
23	249.58	212.06	252.15	261.38	281.01	293.96	235.84	304.69	305.05	261.17	308.49	300.92	319.98	336.61	338.86
24	234.83	249.44	211.94	252.02	261.24	280.86	293.80	235.71	304.53	304.89	261.03	308.32	300.76	319.81	336.43
25	248.77	234.71	249.32	211.84	251.90	261.11	280.72	293.66	235.60	304.38	304.74	260.91	308.17	300.62	319.66
26	231.69	248.66	234.61	249.21	211.75	251.78	261.00	280.60	293.53	235.49	304.25	304.60	260.79	308.04	300.48
27	174.84	230.26	247.12	233.16	247.67	210.44	250.23	259.39	278.87	291.72	234.04	302.37	302.72	259.18	306.14
28	215.15	175.61	231.27	248.20	234.18	248.76	211.36	251.33	260.52	280.09	293.00	235.07	303.69	304.05	260.32
29	187.16	213.92	174.61	229.95	246.79	232.85	247.34	210.16	249.90	259.04	278.49	291.33	233.73	301.97	302.32
30	183.92	186.16	212.78	173.67	228.73	245.48	231.61	246.02	209.04	248.56	257.66	277.01	289.77	232.48	300.35
31	186.75	183.75	185.98	212.58	173.51	228.51	245.25	231.39	245.79	208.84	248.33	257.42	276.75	289.50	232.26
32	143.52	186.68	183.68	185.92	212.50	173.45	228.43	245.16	231.31	245.70	208.76	248.24	257.32	276.65	289.40
33	152.63	142.85	185.81	182.82	185.04	211.51	172.63	227.36	244.00	230.22	244.55	207.78	247.07	256.12	275.35
34	125.14	151.95	142.21	184.98	182.01	184.22	210.57	171.87	226.35	242.92	229.20	243.47	206.86	245.98	254.98
35	147.90	125.20	152.02	142.28	185.06	182.09	184.31	210.66	171.95	226.45	243.03	229.30	243.57	206.96	246.09
36	194.67	147.38	124.75	151.47	141.77	184.40	181.44	183.65	209.91	171.33	225.64	242.16	228.48	242.70	206.22
37	201.49	194.11	146.95	124.39	151.04	141.36	183.88	180.92	183.12	209.31	170.84	224.99	241.47	227.83	242.01
38	214.34	201.15	193.78	146.70	124.18	150.78	141.12	183.56	180.61	182.81	208.95	170.55	224.61	241.06	227.44
39	172.35	213.23	200.11	192.77	145.94	123.54	150.00	140.39	182.61	179.68	181.86	207.87	169.67	223.45	239.81
40	225.30	172.28	213.14	200.03	192.70	145.88	123.48	149.94	140.33	182.54	179.60	181.79	207.78	169.60	223.35
41	223.42	223.93	171.23	211.84	198.81	191.52	144.99	122.73	149.03	139.48	181.42	178.51	180.68	206.52	168.56
42	138.61	222.99	223.49	170.90	211.42	198.42	191.15	144.71	122.49	148.73	139.20	181.07	178.16	180.33	206.11
43	133.82	138.13	222.20	222.70	170.30	210.68	197.72	190.47	144.20	122.06	148.21	138.71	180.43	177.53	179.69
44	106.95	133.18	137.47	221.14	221.64	169.48	209.68	196.78	189.57	143.51	121.48	147.51	138.05	179.57	176.69
45	227.32	106.29	132.36	136.62	219.78	220.27	168.44	208.39	195.57	188.40	142.63	120.73	146.60	137.20	178.47
46	220.65	226.43	105.87	131.84	136.09	218.92	219.41	167.78	207.57	194.80	187.66	142.07	120.26	146.02	136.67
47	94.28	220.14	225.91	105.63	131.54	135.77	218.42	218.91	167.40	207.09	194.35	187.23	141.75	119.98	145.69
48	121.25	93.60	218.53	224.26	104.86	130.58	134.78	216.82	217.31	166.17	205.58	192.93	185.86	140.71	119.11
49	110.61	120.95	93.36	217.97	223.69	104.59	130.25	134.44	216.27	216.75	165.75	205.06	192.44	185.39	140.35

Table V.2.15. Estimated Number of Women in Single Year Periods by Single Year Age of Woman Derived from TDHS-1998

Age of mother	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	277.61	274.43	285.74	311.29	337.76	341.03	337.13	329.79	327.60	352.76	350.05	390.20	421.56	401.87	377.29
16	238.59	275.42	272.27	283.50	308.85	335.10	338.35	334.48	327.20	325.03	349.98	347.30	387.13	418.25	398.71
17	219.60	239.84	276.87	273.70	284.99	310.47	336.87	340.13	336.24	328.92	326.73	351.82	349.12	389.16	420.44
18	267.52	218.13	238.23	275.01	271.86	283.07	308.38	334.60	337.84	333.98	326.71	324.54	349.46	346.77	386.55
19	274.64	271.65	221.49	241.90	279.25	276.05	287.43	313.13	339.76	343.05	339.13	331.75	329.54	354.84	352.12
20	250.48	270.36	267.41	218.03	238.13	274.89	271.75	282.95	308.25	334.46	337.70	333.84	326.57	324.40	349.31
21	238.70	251.53	271.50	268.54	218.95	239.13	276.05	272.89	284.14	309.55	335.87	339.12	335.24	327.95	325.77
22	237.56	237.47	250.23	270.09	267.14	217.82	237.89	274.62	271.48	282.67	307.94	334.13	337.36	333.50	326.25
23	255.49	238.47	238.38	251.19	271.13	268.17	218.66	238.81	275.68	272.52	283.76	309.13	335.42	338.66	334.79
24	232.84	256.39	239.31	239.22	252.07	272.08	269.11	219.42	239.64	276.64	273.48	284.75	310.21	336.59	339.85
25	218.70	229.96	253.21	236.35	236.26	248.95	268.71	265.78	216.71	236.68	273.22	270.09	281.23	306.37	332.42
26	206.11	219.49	230.79	254.13	237.20	237.11	249.85	269.68	266.74	217.49	237.53	274.21	271.07	282.24	307.48
27	181.74	205.30	218.63	229.88	253.13	236.27	236.18	248.87	268.63	265.70	216.64	236.60	273.13	270.01	281.14
28	205.65	181.08	204.56	217.84	229.05	252.22	235.42	235.33	247.97	267.66	264.74	215.85	235.75	272.15	269.03
29	199.62	207.63	182.82	206.52	219.93	231.25	254.64	237.67	237.59	250.35	270.22	267.28	217.93	238.01	274.76
30	196.61	197.61	205.54	180.98	204.45	217.72	228.93	252.08	235.29	235.20	247.84	267.51	264.59	215.74	235.62
31	189.01	196.10	197.10	205.01	180.51	203.92	217.16	228.33	251.43	234.68	234.59	247.19	266.82	263.91	215.18
32	146.50	189.60	196.72	197.72	205.65	181.08	204.56	217.84	229.05	252.22	235.42	235.33	247.97	267.66	264.74
33	166.58	146.15	189.14	196.24	197.24	205.15	180.64	204.06	217.31	228.49	251.60	234.84	234.75	247.37	267.00
34	156.45	166.28	145.89	188.81	195.89	196.89	204.79	180.32	203.70	216.92	228.09	251.16	234.43	234.34	246.93
35	145.41	156.19	166.01	145.65	188.50	195.57	196.57	204.45	180.02	203.37	216.57	227.72	250.75	234.04	233.96
36	169.70	144.51	155.22	164.98	144.74	187.33	194.36	195.34	203.18	178.90	202.10	215.22	226.30	249.19	232.59
37	141.17	169.65	144.46	155.18	164.93	144.70	187.27	194.30	195.29	203.13	178.85	202.05	215.16	226.24	249.12
38	130.60	141.19	169.68	144.49	155.21	164.96	144.73	187.31	194.34	195.33	203.16	178.89	202.09	215.20	226.28
39	128.76	130.09	140.64	169.02	143.93	154.60	164.32	144.16	186.58	193.58	194.56	202.37	178.19	201.30	214.36
40	166.10	128.41	129.74	140.26	168.56	143.54	154.19	163.88	143.78	186.07	193.06	194.04	201.83	177.71	200.75
41	167.59	165.16	127.69	129.01	139.47	167.61	142.73	153.32	162.95	142.97	185.03	191.97	192.95	200.69	176.71
42	113.31	167.45	165.03	127.59	128.91	139.36	167.48	142.62	153.20	162.82	142.85	184.88	191.82	192.79	200.53
43	115.12	112.91	166.86	164.45	127.14	128.45	138.87	166.89	142.11	152.65	162.25	142.35	184.23	191.14	192.11
44	117.40	114.50	112.30	165.97	163.56	126.45	127.76	138.12	165.99	141.35	151.83	161.38	141.58	183.24	190.11
45	160.06	117.30	114.40	112.21	165.83	163.43	126.35	127.66	138.01	165.85	141.23	151.71	161.24	141.47	183.08
46	134.76	159.64	116.99	114.10	111.91	165.39	162.99	126.01	127.32	137.64	165.41	140.86	151.31	160.82	141.09
47	69.75	134.26	159.04	116.56	113.67	111.50	164.77	162.39	125.54	126.85	137.13	164.80	140.33	150.74	160.22
48	91.65	69.26	133.31	157.92	115.74	112.87	110.71	163.61	161.24	124.66	125.95	136.17	163.64	139.35	149.68
49	90.35	91.39	69.07	132.94	157.48	115.42	112.56	110.40	163.16	160.79	124.31	125.60	135.79	163.18	138.96

Table V.2.16. Estimated Number of Women in Single Year Periods by Single Year Age of Woman Derived from TDHS-2003

Age of mother	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	384.34	362.33	365.53	383.55	415.59	414.65	427.78	465.08	428.48	405.46	406.44	403.53	451.96	455.94	416.37
16	366.67	383.13	361.18	364.38	382.34	414.27	413.34	426.42	463.61	427.12	404.18	405.16	402.25	450.53	454.50
17	316.61	369.51	386.10	363.98	367.20	385.30	417.48	416.54	429.73	467.20	430.43	407.31	408.30	405.37	454.02
18	328.99	313.05	365.35	381.76	359.89	363.07	380.97	412.79	411.86	424.89	461.94	425.59	402.73	403.70	400.81
19	316.65	330.98	314.94	367.57	384.07	362.07	365.27	383.27	415.29	414.35	427.47	464.74	428.17	405.17	406.15
20	311.61	315.67	329.96	313.97	366.43	382.88	360.95	364.14	382.09	414.01	413.07	426.15	463.31	426.85	403.92
21	280.41	310.41	314.45	328.68	312.75	365.01	381.40	359.55	362.73	380.61	412.40	411.47	424.50	461.51	425.19
22	266.40	279.19	309.06	313.09	327.25	311.40	363.43	379.75	358.00	361.16	378.96	410.61	409.69	422.66	459.51
23	320.18	266.74	279.54	309.45	313.48	327.67	311.79	363.89	380.22	358.45	361.61	379.44	411.13	410.20	423.19
24	339.15	320.18	266.74	279.54	309.45	313.48	327.67	311.79	363.89	380.22	358.45	361.61	379.44	411.13	410.20
25	329.20	339.15	320.18	266.74	279.54	309.45	313.48	327.67	311.79	363.89	380.22	358.45	361.61	379.44	411.13
26	293.00	328.93	338.87	319.91	266.52	279.31	309.19	313.22	327.39	311.53	363.59	379.91	358.15	361.31	379.12
27	275.66	290.90	326.56	336.44	317.61	264.60	277.31	306.97	310.97	325.04	309.29	360.98	377.18	355.58	358.72
28	303.99	275.53	290.76	326.41	336.28	317.46	264.48	277.17	306.83	310.83	324.89	309.15	360.80	377.00	355.41
29	292.13	303.99	275.53	290.76	326.41	336.28	317.46	264.48	277.17	306.83	310.83	324.89	309.15	360.80	377.00
30	276.87	290.28	302.07	273.79	288.92	324.34	334.15	315.45	262.80	275.42	304.88	308.86	322.83	307.19	358.52
31	261.76	279.02	292.54	304.42	275.92	291.17	326.87	336.75	317.91	264.85	277.56	307.26	311.26	325.35	309.58
32	228.19	258.94	276.01	289.39	301.14	272.95	288.03	323.35	333.12	314.49	261.99	274.57	303.95	307.91	321.84
33	244.31	228.88	259.72	276.84	290.26	302.05	273.77	288.90	324.32	334.12	315.43	262.78	275.40	304.86	308.83
34	213.91	243.73	228.34	259.10	276.19	289.57	301.33	273.12	288.21	323.55	333.33	314.68	262.16	274.74	304.14
35	192.44	213.74	243.54	228.15	258.90	275.97	289.34	301.09	272.90	287.98	323.29	333.07	314.43	261.95	274.53
36	207.80	192.39	213.68	243.47	228.09	258.82	275.89	289.26	301.00	272.82	287.90	323.20	332.97	314.34	261.88
37	230.73	206.95	191.60	212.82	242.48	227.16	257.77	274.77	288.08	299.78	271.71	286.73	321.89	331.62	313.06
38	258.98	230.10	206.38	191.08	212.23	241.81	226.54	257.06	274.01	287.29	298.96	270.97	285.95	321.00	330.71
39	237.53	258.66	229.81	206.12	190.84	211.96	241.51	226.25	256.74	273.67	286.93	298.58	270.63	285.59	320.60
40	226.29	236.59	257.63	228.89	205.30	190.08	211.12	240.55	225.35	255.72	272.58	285.79	297.39	269.55	284.45
41	188.94	225.67	235.94	256.93	228.27	204.75	189.56	210.55	239.90	224.74	255.03	271.84	285.01	296.59	268.82
42	146.30	188.05	224.61	234.84	255.72	227.20	203.79	188.68	209.56	238.77	223.69	253.83	270.57	283.68	295.20
43	172.68	146.31	188.05	224.62	234.84	255.73	227.21	203.79	188.68	209.57	238.77	223.69	253.83	270.57	283.68
44	146.65	171.90	145.65	187.21	223.61	233.79	254.58	226.19	202.88	187.83	208.62	237.70	222.69	252.69	269.36
45	158.77	145.88	170.99	144.88	186.22	222.43	232.56	253.24	224.99	201.81	186.84	207.52	236.45	221.52	251.36
46	155.43	158.23	145.38	170.41	144.39	185.59	221.68	231.77	252.38	224.23	201.12	186.21	206.82	235.65	220.76
47	111.65	154.18	156.95	144.21	169.04	143.23	184.09	219.89	229.90	250.34	222.42	199.50	184.71	205.15	233.75
48	144.41	111.44	153.88	156.66	143.93	168.72	142.95	183.74	219.47	229.46	249.87	222.00	199.12	184.36	204.76
49	159.80	143.33	110.61	152.74	155.49	142.86	167.46	141.89	182.38	217.84	227.75	248.01	220.35	197.64	182.98

Table V.2.17. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1993

Age of woman	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	0.051	0.039	0.058	0.041	0.065	0.027	0.035	0.033	0.042	0.037	0.032	0.011	0.008	0.005	0.007
16	0.070	0.105	0.085	0.081	0.093	0.054	0.071	0.053	0.059	0.051	0.045	0.031	0.021	0.021	0.022
17	0.109	0.147	0.163	0.114	0.123	0.101	0.105	0.086	0.087	0.074	0.079	0.044	0.069	0.041	0.042
18	0.153	0.216	0.197	0.190	0.154	0.164	0.147	0.144	0.117	0.090	0.122	0.074	0.090	0.079	0.075
19	0.204	0.301	0.233	0.240	0.229	0.199	0.202	0.207	0.167	0.119	0.166	0.132	0.126	0.136	0.129
20	0.266	0.315	0.281	0.247	0.264	0.207	0.218	0.238	0.223	0.183	0.191	0.180	0.145	0.165	0.147
21	0.276	0.306	0.307	0.222	0.257	0.231	0.237	0.255	0.198	0.224	0.175	0.192	0.149	0.162	0.168
22	0.278	0.347	0.327	0.254	0.258	0.273	0.278	0.286	0.208	0.206	0.179	0.174	0.176	0.164	0.184
23	0.269	0.356	0.293	0.268	0.246	0.278	0.271	0.276	0.231	0.181	0.176	0.177	0.178	0.161	0.179
24	0.250	0.323	0.288	0.242	0.273	0.238	0.223	0.252	0.218	0.207	0.165	0.191	0.153	0.153	0.196
25	0.272	0.282	0.289	0.198	0.313	0.215	0.219	0.246	0.192	0.196	0.180	0.162	0.140	0.144	0.173
26	0.259	0.266	0.265	0.195	0.296	0.216	0.251	0.207	0.149	0.173	0.180	0.152	0.146	0.144	0.156
27	0.209	0.241	0.290	0.213	0.240	0.159	0.248	0.175	0.132	0.161	0.189	0.149	0.137	0.132	0.155
28	0.246	0.185	0.254	0.191	0.178	0.180	0.195	0.156	0.193	0.135	0.157	0.143	0.109	0.125	0.123
29	0.232	0.232	0.177	0.167	0.194	0.190	0.192	0.125	0.188	0.129	0.125	0.132	0.097	0.104	0.113
30	0.195	0.206	0.183	0.130	0.195	0.166	0.166	0.143	0.104	0.112	0.122	0.109	0.084	0.070	0.114
31	0.192	0.165	0.175	0.157	0.128	0.142	0.147	0.123	0.089	0.091	0.089	0.105	0.052	0.062	0.107
32	0.184	0.150	0.196	0.155	0.110	0.082	0.134	0.110	0.087	0.057	0.072	0.091	0.073	0.063	0.102
33	0.162	0.120	0.179	0.142	0.126	0.115	0.098	0.118	0.117	0.051	0.079	0.071	0.074	0.061	0.094
34	0.117	0.128	0.123	0.138	0.172	0.114	0.123	0.111	0.099	0.087	0.072	0.061	0.051	0.042	0.068
35	0.139	0.091	0.096	0.119	0.157	0.062	0.116	0.109	0.078	0.081	0.075	0.038	0.057	0.045	0.049
36	0.145	0.097	0.093	0.086	0.121	0.068	0.125	0.070	0.099	0.049	0.059	0.041	0.058	0.054	0.049
37	0.131	0.127	0.135	0.059	0.094	0.072	0.108	0.053	0.064	0.035	0.013	0.042	0.057	0.043	0.044
38	0.110	0.099	0.108	0.046	0.060	0.041	0.064	0.052	0.043	0.024	0.029	0.026	0.052	0.025	0.044
39	0.089	0.062	0.067	0.059	0.070	0.032	0.068	0.040	0.046	0.025	0.037	0.032	0.023	0.015	0.053
40	0.104	0.056	0.049	0.065	0.080	0.047	0.064	0.041	0.032	0.024	0.028	0.027	0.011	0.006	0.038
41	0.087	0.043	0.054	0.045	0.055	0.041	0.043	0.023	0.015	0.016	0.024	0.022	0.015	0.013	0.013
42	0.034	0.031	0.049	0.023	0.030	0.029	0.035	0.035	0.000	0.015	0.012	0.015	0.022	0.012	0.005
43	0.018	0.029	0.039	0.013	0.023	0.024	0.023	0.038	0.004	0.018	0.004	0.004	0.021	0.006	0.006
44	0.000	0.034	0.017	0.013	0.028	0.020	0.016	0.017	0.015	0.012	0.005	0.015	0.012	0.009	0.003
45	0.021	0.027	0.009	0.008	0.026	0.013	0.010	0.005	0.023	0.006	0.027	0.014	0.000	0.004	0.003
46	0.021	0.005	0.011	0.013	0.008	0.005	0.003	0.007	0.011	0.000	0.018	0.004	0.000	0.000	0.004
47	0.000	0.003	0.000	0.011	0.022	0.000	0.008	0.015	0.003	0.000	0.000	0.003	0.000	0.005	0.004
48	0.000	0.012	0.000	0.000	0.033	0.009	0.013	0.010	0.005	0.007	0.003	0.000	0.000	0.004	0.000
49	0.005	0.009	0.000	0.000	0.003	0.011	0.004	0.000	0.003	0.005	0.003	0.000	0.000	0.000	0.000
TFR	4.90	5.15	5.09	4.14	4.73	3.83	4.26	3.86	3.34	2.88	2.93	2.66	2.41	2.27	2.66

Table V.2.18. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1993

Age group	Estimated Fertility Rates														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15-19	0.117	0.161	0.147	0.133	0.133	0.109	0.112	0.105	0.094	0.074	0.089	0.058	0.063	0.056	0.055
20-24	0.268	0.329	0.299	0.247	0.260	0.245	0.245	0.261	0.216	0.200	0.177	0.183	0.160	0.161	0.175
25-29	0.244	0.241	0.255	0.193	0.244	0.192	0.221	0.182	0.171	0.159	0.166	0.148	0.126	0.130	0.144
30-34	0.170	0.154	0.171	0.144	0.146	0.124	0.134	0.121	0.099	0.080	0.087	0.087	0.067	0.060	0.097
35-39	0.123	0.095	0.100	0.074	0.101	0.055	0.096	0.065	0.066	0.043	0.043	0.036	0.049	0.036	0.048
40-44	0.049	0.039	0.042	0.032	0.043	0.032	0.036	0.031	0.013	0.017	0.014	0.017	0.016	0.009	0.013
45-49	0.009	0.011	0.004	0.006	0.018	0.008	0.007	0.008	0.009	0.004	0.010	0.004	0.000	0.002	0.002
TFR	4.90	5.15	5.09	4.14	4.73	3.83	4.26	3.86	3.34	2.88	2.93	2.66	2.41	2.27	2.66

Table V.2.19. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1993

Age group	1979-1981	1982-1984	1985-1987	1988-1990	1991-1993
15-19	0.142	0.125	0.104	0.074	0.058
20-24	0.299	0.251	0.241	0.187	0.165
25-29	0.247	0.210	0.191	0.158	0.133
30-34	0.165	0.138	0.118	0.085	0.074
35-39	0.106	0.077	0.076	0.040	0.044
40-44	0.043	0.036	0.027	0.016	0.013
45-49	0.008	0.011	0.008	0.006	0.002
TFR	5.05	4.23	3.82	2.83	2.45

Table V.2.20. Estimated Five-Year Fertility Rates Derived from TDHS-1993

Age group	1979-1983	1984-1988	1989-1993
15-19	0.138	0.099	0.064
20-24	0.281	0.234	0.171
25-29	0.235	0.185	0.143
30-34	0.157	0.111	0.080
35-39	0.098	0.065	0.042
40-44	0.041	0.026	0.014
45-49	0.010	0.007	0.004
TFR	4.80	3.63	2.59

Table V.2.21. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1998

Age of woman	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	0.035	0.033	0.026	0.022	0.022	0.029	0.025	0.010	0.025	0.020	0.011	0.010	0.010	0.011	0.010
16	0.062	0.056	0.053	0.062	0.046	0.054	0.059	0.039	0.042	0.048	0.036	0.025	0.028	0.035	0.021
17	0.114	0.076	0.091	0.097	0.109	0.069	0.100	0.087	0.076	0.081	0.067	0.046	0.068	0.057	0.051
18	0.149	0.112	0.118	0.133	0.129	0.109	0.116	0.117	0.136	0.094	0.088	0.081	0.101	0.099	0.084
19	0.139	0.155	0.166	0.163	0.166	0.134	0.157	0.132	0.159	0.114	0.141	0.132	0.129	0.131	0.126
20	0.173	0.204	0.202	0.194	0.199	0.153	0.219	0.172	0.170	0.152	0.186	0.163	0.153	0.149	0.144
21	0.203	0.248	0.207	0.189	0.273	0.176	0.232	0.206	0.202	0.178	0.198	0.173	0.167	0.136	0.164
22	0.208	0.270	0.225	0.221	0.285	0.201	0.225	0.238	0.211	0.197	0.189	0.174	0.158	0.156	0.179
23	0.225	0.236	0.238	0.269	0.221	0.210	0.227	0.210	0.222	0.173	0.180	0.176	0.155	0.174	0.180
24	0.225	0.250	0.209	0.245	0.208	0.224	0.207	0.167	0.251	0.151	0.177	0.189	0.161	0.178	0.178
25	0.258	0.271	0.184	0.203	0.196	0.207	0.191	0.187	0.224	0.140	0.177	0.195	0.166	0.192	0.173
26	0.240	0.217	0.192	0.186	0.174	0.152	0.221	0.160	0.176	0.152	0.179	0.177	0.176	0.186	0.150
27	0.200	0.202	0.244	0.179	0.167	0.152	0.226	0.142	0.173	0.179	0.158	0.139	0.171	0.135	0.138
28	0.174	0.185	0.230	0.173	0.145	0.158	0.169	0.153	0.183	0.148	0.144	0.115	0.134	0.119	0.154
29	0.154	0.183	0.173	0.169	0.146	0.122	0.151	0.142	0.177	0.134	0.125	0.115	0.089	0.138	0.139
30	0.200	0.169	0.162	0.100	0.149	0.114	0.154	0.125	0.143	0.124	0.119	0.107	0.104	0.111	0.124
31	0.181	0.148	0.152	0.094	0.116	0.125	0.132	0.091	0.110	0.102	0.107	0.096	0.107	0.100	0.134
32	0.113	0.123	0.152	0.125	0.096	0.089	0.100	0.103	0.111	0.097	0.069	0.105	0.080	0.097	0.126
33	0.123	0.093	0.137	0.109	0.083	0.062	0.067	0.118	0.132	0.073	0.065	0.099	0.057	0.090	0.092
34	0.120	0.106	0.122	0.081	0.081	0.067	0.065	0.079	0.108	0.070	0.074	0.071	0.039	0.090	0.080
35	0.110	0.098	0.100	0.066	0.060	0.082	0.078	0.067	0.058	0.056	0.058	0.043	0.039	0.070	0.085
36	0.134	0.106	0.092	0.062	0.047	0.080	0.088	0.050	0.060	0.045	0.040	0.038	0.045	0.045	0.074
37	0.121	0.104	0.091	0.051	0.065	0.057	0.059	0.053	0.059	0.061	0.018	0.040	0.030	0.030	0.052
38	0.074	0.068	0.061	0.066	0.062	0.037	0.027	0.055	0.051	0.044	0.035	0.030	0.021	0.027	0.025
39	0.040	0.044	0.041	0.053	0.078	0.021	0.040	0.026	0.044	0.042	0.039	0.024	0.018	0.037	0.015
40	0.045	0.035	0.053	0.024	0.077	0.027	0.043	0.030	0.031	0.038	0.023	0.022	0.019	0.021	0.023
41	0.068	0.058	0.036	0.022	0.049	0.030	0.046	0.032	0.027	0.011	0.024	0.022	0.014	0.018	0.015
42	0.055	0.064	0.031	0.013	0.026	0.028	0.049	0.023	0.025	0.007	0.019	0.012	0.008	0.014	0.005
43	0.025	0.040	0.041	0.021	0.004	0.039	0.040	0.026	0.019	0.004	0.017	0.008	0.006	0.008	0.008
44	0.029	0.030	0.036	0.020	0.021	0.026	0.017	0.016	0.017	0.008	0.014	0.010	0.000	0.009	0.011
45	0.021	0.015	0.025	0.010	0.024	0.017	0.000	0.004	0.016	0.010	0.004	0.007	0.000	0.007	0.006
46	0.017	0.004	0.015	0.005	0.005	0.017	0.003	0.004	0.013	0.004	0.007	0.000	0.000	0.003	0.004
47	0.008	0.008	0.004	0.000	0.005	0.015	0.010	0.013	0.009	0.004	0.008	0.003	0.008	0.000	0.003
48	0.006	0.008	0.009	0.007	0.005	0.005	0.010	0.013	0.010	0.009	0.004	0.004	0.007	0.004	0.000
49	0.006	0.000	0.008	0.013	0.007	0.000	0.000	0.005	0.010	0.013	0.000	0.000	0.000	0.003	0.000
TFR	4.05	4.02	3.93	3.45	3.54	3.09	3.55	3.10	3.48	2.78	2.80	2.65	2.47	2.68	2.77

Table V.2.22. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1998

Age group	Estimated Fertility Rates														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15-19	0.100	0.086	0.091	0.095	0.094	0.079	0.091	0.077	0.088	0.071	0.069	0.059	0.067	0.067	0.058
20-24	0.207	0.241	0.216	0.224	0.237	0.193	0.222	0.198	0.211	0.170	0.186	0.175	0.159	0.158	0.169
25-29	0.205	0.212	0.205	0.182	0.166	0.158	0.192	0.157	0.186	0.150	0.157	0.148	0.147	0.154	0.151
30-34	0.147	0.128	0.145	0.102	0.105	0.091	0.103	0.103	0.121	0.093	0.087	0.095	0.077	0.098	0.111
35-39	0.096	0.084	0.077	0.060	0.062	0.055	0.058	0.050	0.055	0.050	0.038	0.035	0.031	0.042	0.050
40-44	0.044	0.046	0.040	0.020	0.035	0.030	0.039	0.025	0.024	0.013	0.019	0.015	0.009	0.014	0.013
45-49	0.012	0.007	0.012	0.007	0.009	0.011	0.005	0.008	0.012	0.008	0.005	0.003	0.003	0.004	0.003
TFR	4.05	4.02	3.93	3.45	3.54	3.09	3.55	3.10	3.48	2.78	2.80	2.65	2.47	2.68	2.77

Table V.2.23. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1998

Age group	1984-1986	1987-1989	1990-1992	1993-1995	1996-1998
15-19	0.092	0.090	0.085	0.066	0.064
20-24	0.221	0.218	0.211	0.177	0.162
25-29	0.207	0.169	0.178	0.152	0.151
30-34	0.140	0.099	0.109	0.092	0.095
35-39	0.086	0.059	0.054	0.041	0.041
40-44	0.043	0.028	0.029	0.016	0.012
45-49	0.010	0.009	0.008	0.005	0.003
TFR	4.00	3.36	3.38	2.74	2.64

Table V.2.24. Estimated Five-Year Fertility Rates Derived from TDHS-1998

Age group	1984-1988	1989-1993	1994-1998
15-19	0.093	0.081	0.064
20-24	0.225	0.199	0.169
25-29	0.194	0.169	0.151
30-34	0.125	0.102	0.094
35-39	0.076	0.054	0.039
40-44	0.037	0.026	0.014
45-49	0.009	0.009	0.003
TFR	3.80	3.20	2.67

Table V.2.25. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-2003

Age of woman	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	0.026	0.036	0.027	0.016	0.021	0.017	0.014	0.017	0.016	0.009	0.012	0.012	0.005	0.003	0.004
16	0.050	0.062	0.063	0.040	0.046	0.043	0.041	0.034	0.032	0.038	0.015	0.033	0.020	0.009	0.019
17	0.090	0.091	0.098	0.084	0.083	0.082	0.072	0.058	0.047	0.060	0.060	0.057	0.054	0.051	0.043
18	0.119	0.127	0.124	0.131	0.117	0.112	0.100	0.094	0.082	0.077	0.100	0.078	0.088	0.085	0.070
19	0.152	0.155	0.148	0.148	0.161	0.133	0.125	0.118	0.134	0.102	0.104	0.105	0.120	0.096	0.088
20	0.197	0.190	0.177	0.191	0.176	0.153	0.187	0.150	0.154	0.136	0.128	0.129	0.127	0.112	0.102
21	0.235	0.220	0.182	0.229	0.196	0.178	0.212	0.180	0.136	0.150	0.142	0.142	0.132	0.115	0.153
22	0.233	0.221	0.168	0.212	0.214	0.234	0.192	0.190	0.163	0.149	0.148	0.181	0.146	0.119	0.166
23	0.201	0.219	0.176	0.192	0.175	0.200	0.215	0.212	0.187	0.171	0.167	0.190	0.152	0.122	0.157
24	0.198	0.241	0.193	0.189	0.170	0.173	0.195	0.220	0.176	0.199	0.172	0.190	0.180	0.137	0.157
25	0.175	0.205	0.191	0.182	0.168	0.175	0.179	0.194	0.180	0.190	0.174	0.190	0.186	0.128	0.143
26	0.183	0.199	0.155	0.185	0.177	0.158	0.185	0.176	0.168	0.145	0.166	0.178	0.149	0.133	0.151
27	0.173	0.195	0.144	0.167	0.169	0.124	0.165	0.153	0.143	0.112	0.151	0.167	0.138	0.155	0.119
28	0.127	0.156	0.138	0.145	0.135	0.120	0.134	0.148	0.124	0.101	0.132	0.146	0.132	0.119	0.088
29	0.140	0.154	0.104	0.137	0.126	0.129	0.127	0.139	0.125	0.126	0.125	0.147	0.129	0.085	0.096
30	0.135	0.137	0.082	0.117	0.119	0.103	0.116	0.118	0.153	0.136	0.122	0.136	0.131	0.087	0.093
31	0.120	0.130	0.102	0.097	0.123	0.088	0.100	0.109	0.141	0.121	0.108	0.105	0.123	0.071	0.092
32	0.103	0.117	0.108	0.096	0.094	0.085	0.098	0.092	0.106	0.100	0.092	0.094	0.084	0.060	0.073
33	0.078	0.082	0.073	0.085	0.081	0.069	0.086	0.091	0.084	0.085	0.075	0.063	0.048	0.069	0.054
34	0.078	0.070	0.054	0.063	0.081	0.070	0.080	0.089	0.072	0.084	0.066	0.044	0.057	0.075	0.061
35	0.078	0.070	0.047	0.069	0.061	0.058	0.062	0.056	0.047	0.057	0.058	0.048	0.061	0.050	0.053
36	0.059	0.069	0.041	0.042	0.046	0.031	0.040	0.050	0.036	0.034	0.041	0.053	0.049	0.035	0.028
37	0.058	0.051	0.031	0.018	0.041	0.028	0.032	0.039	0.035	0.040	0.032	0.052	0.041	0.043	0.033
38	0.056	0.041	0.050	0.028	0.031	0.029	0.026	0.027	0.033	0.047	0.025	0.040	0.031	0.030	0.028
39	0.045	0.030	0.054	0.034	0.023	0.020	0.023	0.017	0.029	0.034	0.015	0.034	0.022	0.022	0.018
40	0.042	0.016	0.031	0.038	0.029	0.028	0.016	0.018	0.009	0.015	0.010	0.024	0.025	0.012	0.016
41	0.053	0.022	0.021	0.030	0.017	0.024	0.017	0.018	0.007	0.010	0.019	0.016	0.019	0.009	0.010
42	0.042	0.029	0.026	0.021	0.009	0.017	0.019	0.011	0.013	0.014	0.017	0.011	0.004	0.015	0.009
43	0.023	0.019	0.026	0.019	0.009	0.015	0.022	0.005	0.017	0.013	0.002	0.002	0.006	0.008	0.007
44	0.027	0.010	0.011	0.020	0.015	0.011	0.017	0.002	0.011	0.006	0.003	0.000	0.005	0.002	0.002
45	0.011	0.008	0.006	0.015	0.009	0.007	0.009	0.006	0.000	0.005	0.006	0.003	0.004	0.000	0.000
46	0.004	0.000	0.011	0.003	0.000	0.003	0.010	0.007	0.002	0.005	0.003	0.009	0.005	0.002	0.000
47	0.010	0.004	0.007	0.000	0.000	0.004	0.006	0.002	0.002	0.004	0.002	0.005	0.003	0.003	0.000
48	0.008	0.005	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.002	0.002	0.000	0.003	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	3.33	3.38	2.87	3.04	2.92	2.73	2.92	2.84	2.67	2.58	2.49	2.69	2.48	2.06	2.13

Table V.2.26. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-2003

Age group	Estimated Fertility Rates														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15-19	0.088	0.094	0.092	0.084	0.086	0.078	0.070	0.064	0.062	0.057	0.058	0.057	0.057	0.049	0.045
20-24	0.213	0.218	0.179	0.202	0.186	0.188	0.200	0.190	0.163	0.161	0.151	0.166	0.147	0.121	0.147
25-29	0.160	0.182	0.146	0.163	0.155	0.141	0.158	0.162	0.148	0.135	0.150	0.166	0.147	0.124	0.119
30-34	0.103	0.107	0.084	0.091	0.100	0.083	0.096	0.100	0.111	0.105	0.093	0.088	0.088	0.072	0.075
35-39	0.059	0.052	0.044	0.038	0.040	0.033	0.037	0.038	0.036	0.042	0.034	0.046	0.041	0.036	0.032
40-44	0.037	0.019	0.023	0.026	0.016	0.019	0.018	0.011	0.011	0.011	0.010	0.011	0.012	0.009	0.009
45-49	0.006	0.003	0.005	0.004	0.002	0.003	0.005	0.003	0.001	0.003	0.003	0.003	0.003	0.001	0.000
TFR	3.33	3.38	2.87	3.04	2.92	2.73	2.92	2.84	2.67	2.58	2.49	2.69	2.48	2.06	2.13

Table V.2.27. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-2003

Age group	1989-1991	1992-1994	1995-1997	1998-2000	2001-2003
15-19	0.091	0.082	0.066	0.058	0.050
20-24	0.203	0.192	0.185	0.160	0.138
25-29	0.163	0.153	0.156	0.150	0.130
30-34	0.098	0.091	0.102	0.095	0.078
35-39	0.052	0.037	0.037	0.041	0.036
40-44	0.027	0.020	0.013	0.011	0.010
45-49	0.005	0.003	0.003	0.003	0.001
TFR	3.19	2.90	2.81	2.59	2.22

Table V.2.28. Estimated Five-Year Fertility Rates Derived from TDHS-2003

Age group	1989-1993	1994-1998	1999-2003
15-19	0.089	0.066	0.053
20-24	0.200	0.180	0.147
25-29	0.161	0.149	0.141
30-34	0.097	0.099	0.083
35-39	0.047	0.037	0.038
40-44	0.024	0.014	0.010
45-49	0.004	0.003	0.002
TFR	3.11	2.75	2.37

Table V.3.2. Comparison of ASFRs One Year Preceding the Survey Derived from TDHS-1993 and the Own-Children Method

Age	TOTAL		URBAN		RURAL		WEST		SOUTH		CENTRAL		NORTH		EAST	
	TDHS-1993	OC-1993	TDHS-1993	OC-1993	TDHS-1993	OC-1993	TDHS-1993	OC-1993	TDHS-1993	OC-1993	TDHS-1993	OC-1993	TDHS-1993	OC-1993	TDHS-1993	OC-1993
15-19	56	55	55	50	47	61	50	44	54	42	55	49	60	72	65	72
20-24	179	175	163	163	204	194	161	156	125	151	174	174	252	212	234	206
25-29	151	144	139	139	176	150	132	132	134	123	130	116	183	196	228	202
30-34	94	97	77	82	126	127	51	63	102	111	84	79	93	61	199	193
35-39	38	48	33	43	49	56	12	16	42	37	40	43	31	46	106	145
40-44	12	13	8	7	18	23	0	0	17	17	5	9	10	15	49	48
45-49	0	2	0	0	0	5	0	0	0	10	0	0	0	7	0	0

Table V.3.3. Comparison of ASFRs Three Years Preceding the Survey Derived from TDHS-1998 and the Own-Children Method

Age	TOTAL		URBAN		RURAL		WEST		SOUTH		CENTRAL		NORTH		EAST	
	TDHS-1998	OC-1998	TDHS-1998	OC-1998	TDHS-1998	OC-1998	TDHS-1998	OC-1998	TDHS-1998	OC-1998	TDHS-1998	OC-1998	TDHS-1998	OC-1998	TDHS-1998	OC-1998
15-19	60	64	55	58	68	75	52	54	58	60	58	60	46	47	74	85
20-24	163	162	141	142	211	206	124	124	150	155	150	155	207	219	217	215
25-29	150	151	139	139	178	179	119	126	145	135	145	135	155	148	217	233
30-34	93	95	97	99	85	92	78	80	88	100	88	100	80	85	170	168
35-39	42	41	32	32	60	57	25	28	54	50	54	50	32	21	115	113
40-44	13	12	14	10	12	16	8	6	16	20	16	20	9	9	45	51
45-49	1	3	0	1	2	5	0	0	0	2	0	2	7	5	0	15

Table V.3.4. Comparison of ASFRs Three Years Preceding the Survey Derived from TDHS-2003 and the Own-Children Method

Age	TOTAL		URBAN		RURAL		WEST		SOUTH		CENTRAL		NORTH		EAST	
	TDHS-2003	OC-2003	TDHS-2003	OC-2003	TDHS-2003	OC-2003	TDHS-2003	OC-2003	TDHS-2003	OC-2003	TDHS-2003	OC-2003	TDHS-2003	OC-2003	TDHS-2003	OC-2003
15-19	46	50	44	46	47	59	51	46	44	53	44	54	28	29	45	61
20-24	136	139	126	127	161	167	109	112	138	146	136	139	126	125	191	190
25-29	134	130	126	125	158	147	122	118	138	124	102	106	128	130	199	192
30-34	78	78	71	72	94	91	62	61	76	78	58	60	60	50	150	154
35-39	38	36	33	33	48	48	26	22	49	49	23	25	40	33	83	84
40-44	12	10	11	8	16	18	5	5	15	14	4	2	6	7	59	46
45-49	2	1	0	0	6	4	0	0	0	0	6	4	0	0	4	6

I. INTRODUCTION

Fertility which is one of the most significant issues is on the top of demographers' agenda. Main sources of information on fertility are vital registration systems, censuses and demographic researches. However, vital registration systems in Turkey are not very reliable as in most of the developing countries. On the other hand, census data is not appropriate to attain demographic data about fertility in detail, because of its costly applications. In addition, its workload is too high. There also exists the risk of collecting erroneous information for the retrospective questions in censuses. Despite all these limitations, until mid-1960s, information on the levels and trends in Turkish fertility had been withdrawn from indirect methods applied to census data (Ergöçmen, 1997). In order to study the diverse factors related to fertility in Turkey, Hacettepe University Institute of Population Studies has performed quinquennial nationwide demographic surveys since 1968.

In the countries like Turkey, where the reliability of vital registration is a problem, the own-children method can be given the priority to determine the fertility estimates. In short, the own-children method, a standard tool of indirect fertility estimation, is a census or survey-based reverse survival technique for estimating age-specific birth rates for years preceding a census or survey (Cho, Retherford and Choe, 1986). There exists a good number of examples of own-children applications all over the world. The method has been employed most extensively in Asia, Africa, Latin America as well as in more developed countries such as United States. However, in Turkey, the only study as regards the application of own-children method has been performed by Can and Arslan (1997). The data set they have used for the own-children technique is Multiple Indicators Cluster Survey (MICS) conducted in 1995. There are no other examples in Turkey except this one. Hence, this study will be unique in terms of own-children method being applied to Turkey Demographic and Health Surveys. It is also important to point out that the own-children method does not suffer from age truncation unlike fertility estimations based on birth history data. In other words, for the whole 15-year estimation period, the own-children method provides the opportunity for the 15-49 age group to be fully

covered in the computation process of the total fertility rate, which is the most desirable measure. The fact that makes this method preferable is that various mortality assumptions are allowed to be used for different periods. It ensures flexibility regarding the utilization of constant or changing mortality.

The primary objective is to indicate the fertility levels and trends as well as the age pattern in Turkey 15 years preceding the survey dates of 1993, 1998 and 2003 by employing the own-children method. When the level of Turkey's total fertility rates obtained from demographic surveys is examined, there has been a continuous decline for the last 25 years. According to Turkey Demographic and Health Survey, the last of which was conducted in 2003-2004, a woman will give birth to an average of 2.2 children during her reproductive years. This rate is 50 percent lower than the total fertility rates recorded in 1970s (Koç and Özdemir, 2004). In the light of these facts, Turkey is just above the replacement level of fertility which is 2.1 in terms of the point it has reached in 2003. Therefore, the secondary objective is to compare the findings of own-children method with the TDHS-type fertility estimations in order to manifest whether this technique is a reliable and practicable way of fertility estimations.

The thesis presents the fertility estimates of Turkey based on the application of own-children method of fertility estimation to TDHS-1993, 1998 and 2003. It consists of six chapters. The methodology of the own-children method is described in Chapter II. Here, the utilised data sources, historical development of the technique, the method itself and MORTPAK a software that can be used to convert the abridged life tables into single year of age are explicated. Following the data source and the methodology, Chapter III presents the examples of own-children applications worldwide and in Turkey. Fertility trends in Turkey beginning from the Ottomans is then explained in Chapter IV. Chapter V refers to the application of own-children method to the TDHS-1993, 1998 and 2003 as well as the comparison of the results obtained from them and the estimations of TDHS-type fertility. Finally, discussion of the findings are concluded in Chapter VI.

I. DATA SOURCES AND METHODOLOGY

II.1. DATA SOURCES

The analyses and the application of the own children method are carried out with the data of the last three Turkish Demographic and Health Surveys (TDHS), as a part of the international DHS project, conducted by Hacettepe University Institute of Population Studies in 1993, 1998 and 2003-2004. The aim of these nationally representative surveys is to provide information on trends and levels in fertility, infant and child mortality, family planning and maternal and child health for Turkey as a whole. The sampling approach used in the sample design of three surveys is almost identical and characterized as weighted, multistage, stratified cluster sampling. Such sample design ensures the estimates of population and health indicators including fertility and mortality rates for the whole nation, for urban and rural areas, and for the five major regions of the country (West, South, Central, North and East). In TDHS-2003, the major difference is that the analyses can also be made for 12 geographical regions (NUTS1) which were recently adopted during the Turkey's integration process to the European Union (HUIPS, 2004).

II.1.1. 1993 Turkish Demographic and Health Survey (TDHS-1993)

For TDHS-1993, 10,631 households were selected. Although the coverage of survey sample was 10,631 households, at the time of survey only 8,900 were available for interview. Out of these 8,900, survey was successfully completed with 8,619 households. Among the interviewed households, 6,862 eligible women were identified, of whom 95 percent (6,519 women) were interviewed. The overall response rate for TDHS-1993 was 92 percent (HUIPS, 1994).

Fieldwork began in August 1993 and was completed in October 1993. Data collection was carried out by 17 teams each of which four to five interviewer, a field editor, a measurer and a team supervisor were involved. Four regional coordinators visited the teams on a continuous basis alternately. The teams visited 68 of the 76

provinces in Turkey. In other words out of 500 clusters selected, 478 clusters were successfully interviewed.

TDHS-1993 was composed of two main types of questionnaires that were the Household Questionnaire and the Individual Questionnaire for ever-married women of reproductive ages. Household Questionnaire was used to enumerate all usual members of and visitors to the selected households and collect information relating to the socioeconomic position of the households. In addition to the provision of basic demographic data for Turkish households, information needed to identify the women eligible for individual interviews were collected. Individual Questionnaire was designed to gather information on reproduction, marriage, contraception, pregnancy and breastfeeding, immunisation and health, fertility preferences, husband's background and status of woman, values, attitudes and beliefs and anthropometry (HUIPS, 1994).

II.1.2. 1998 Turkish Demographic and Health Survey (TDHS-1998)

The sample size of TDHS-1998 was 9,970 households in 480 clusters. However, at the time of survey, 8,596 households were regarded as available for household interview. Out of which 8,059 households were successfully interviewed (94 percent). Among the interviewed households, 9,468 women were identified as eligible for individual interview, of which 8,576 women were successfully interviewed (91 percent). For husband interview, a total of 4,983 were selected. In the households interviewed, 3,043 husbands were identified as eligible for individual interview. Out of these, 1,971 husbands (65 percent) were interviewed (HUIPS, 1999).

Fieldwork was implemented between August 1998 and November 1998. 16 teams worked in data collection process. Each team consisted of four to five interviewer, a field editor, a measurer and a team supervisor. Four regional coordinators visited the teams on a continuous basis alternately. The teams visited 76 of the 80 provinces in Turkey.

In TDHS-1998, there were four types of questionnaires that were the Household Questionnaire and the Individual Questionnaire for ever-married women of reproductive ages, for never-married women and for husbands. Household Questionnaire was used to enumerate all usual members of and visitors to the selected households and collect information relating to the socioeconomic position of the households. In addition to the provision of basic demographic data for Turkish households, information needed to identify the women and the husbands eligible for individual interviews were collected. In household questionnaires, there were questions related to the welfare of the elderly people. Individual Questionnaire for ever-married women was similar to the one used in TDHS-1993. The only difference was that in TDHS-1993, a new section named “Sexually transmitted diseases and AIDS” was added. The Individual Questionnaire for never-married women covers the all the sections in ever-married questionnaires except maternal care and breastfeeding, immunization and health, and husband’s background. There was an additional section about migration in never-married questionnaire. In Individual Questionnaire for husbands, background characteristics, reproduction, knowledge and use of family planning, marriage, fertility preferences, sexually transmitted diseases and AIDS, and attitudes were considered.

II.1.3. 2003 Turkish Demographic and Health Survey (TDHS-2003)

The target sample size of TDHS-2003 was 13,049 in 688 clusters. Nevertheless, 11,659 households were found to be available. Among these, interviews were completed with 10,836 households (93 percent) in which 8,447 women were eligible for individual questionnaire. In TDHS-2003, 8,075 (96 percent) women were successfully interviewed out of 8,447.

Fieldwork was conducted from December 2003 to May 2004. At the first stage of the fieldwork in TDHS-2003, 14 teams were constructed for data collection. Then, new teams were formed from these 14 teams to complete the whole fieldwork. Each team consisted of three to five interviewer, one field editor, one male measurer

and a team supervisor. The teams were visited regularly by regional coordinators during the survey.

Similar to TDHS-1993, two questionnaires defined as Household Questionnaire and Ever-Married Women's Questionnaire. Household Questionnaire was used to enumerate all usual members of and visitors to the selected households and collect information relating to the socioeconomic position of the households. In addition to the provision of basic demographic data for Turkish households, information needed to identify the women eligible for individual interviews were collected. Some additional information on never-married women in 15-49 ages were listed in household questionnaire. There were also questions related to the welfare of the elderly people. Unlike TDHS-1993 and TDHS-1998, in household questionnaire, there existed a module for İstanbul metropolitan. Individual Questionnaire was designed in the same manner to gather information on reproduction, marriage, knowledge and use of contraceptive methods, other issues relating to contraceptive, maternal care and breastfeeding, immunisation and acute respiratory infections, fertility preferences, husband's background, status of woman, sexually transmitted diseases and AIDS, and anthropometry.

II.1.4. Data and Number of Cases Used in the Study

The household data of each demographic survey have been used for the application of own-children method which requires the number of women between the ages of 15-64 and the number of children under 15. The data set utilised in this technique has been shown in Table II.1.1. In addition, since the analyses have been carried out in terms of five regions (west, south, central, north and east) and the type of residence (urban/rural), the related numbers have also been introduced in the same table. These numbers are based on *de facto* survey population and they also indicate the weighted numbers of women and children. The reason is that the sampling design of each of the three surveys is based on *de facto* population enumerated by censuses. Besides, the analyses, tabulations, weighting procedure and sampling probabilities presented in TDHS reports are also based on *de facto* population information.

Therefore, in order to compare the fertility estimates of TDHS-1993, TDHS-1998 and TDHS-2003 with those computed by own-children, the tabulations should be based on the same type of population which is weighted and de facto.

Table II.1.1. Data and Weighted Number of Cases Used in Own-Children Method in the Application of Own-Children Method

Background characteristic	TDHS-1993		TDHS-1998		TDHS-2003	
	Number of women aged 15-64	Number of children aged 0-15	Number of women aged 15-64	Number of children aged 0-15	Number of women aged 15-64	Number of children aged 0-15
Residence						
Urban	7520	8179	7142	7409	9894	8988
Rural	4767	5945	3895	4594	4370	4689
Region						
West	4215	3780	4116	3646	5598	4450
South	1928	2245	1582	1750	1879	1924
Central	2840	3059	2595	2550	3268	2702
North	1118	1326	899	967	1076	973
East	2184	3636	1846	3092	2443	3650
Total	12287	14126	11037	12007	14265	13673

II.1.5. Variables

The analyses of own-children has done not only for the whole country but also for the type of place of residence and for five regions.

Different criteria have been used to describe urban and rural settlements in Turkey. In demographic surveys of the 1970s, a population size of 2,000 was used to differentiate between urban and rural settlements. In the 1980s, the cut-off point was increased to 10,000 and in some surveys in the 1990s, to 20,000. The urban frame of the TDHS-1993, TDHS-1998 and TDHS-2003 consisted of a list of provincial centers, district centers and other settlements with populations larger than 10,000, regardless of administrative status. The rural frame consisted of all district centers, sub-districts and villages not included in the urban frame (HUIPS, 1994; HUIPS, 1999 and HUIPS, 2004).

For TDHS-1993, the initial information on all settlements in Turkey was obtained from the 1985 census and the 1990 Population Census report. For TDHS-1998 and TDHS-2003, 1997 Population Count and 2000 General Population Census provided the basic information about these settlements respectively.

The diverse geographical, climatic, cultural, social and socio-economic characteristics of different parts of the country are the basis for the conventional regional breakdown within Turkey. As a result of this, provinces in Turkey have been grouped into five regions (West, South, Central, North and East) that are distinguished, reflecting to some extent, differences in socioeconomic development levels and demographic conditions within the country. This regional breakdown is frequently used for sampling and analysis purposes in social surveys as well as understanding the demographic, social, cultural and economic differences in various parts of the country.

West, South, Central, North and East regions include varying number of provinces. In TDHS-2003, 81 provinces have been considered and Figure II.1.1 shows the provinces in each of the regions according to the latest TDHS. This number decreased to 80 in TDHS-1998 and 76 in TDHS-1993. Therefore, five region division in TDHS-1993 and TDHS-1998 is slightly different from TDHS-2003 since new provinces have been formed from 1993 to 2003. In TDHS-1998, Kahramanmaraş, Sivas and Gümüşhane, included in South, Central and North in TDHS-2003 respectively, were regarded in the East and in addition to these, Gaziantep, Muğla and Kilis were the provinces of South Region in TDHS-1998. Due to the administrative status of Düzce, it was not included in TDHS-1998. The classification of the provinces in TDHS-1993 is almost similar to TDHS-1998. However, in addition to Düzce, Osmaniye, Karabük, Kilis and Yalova were districts during the time when TDHS-1993 was conducted and therefore they were not included.

FIGURE II.1.1

TABLE II.1.2

II.2. HISTORICAL DEVELOPMENT OF OWN-CHILDREN METHOD

The own-children method of fertility estimation was first evolved and applied to census data to acquire estimates of differential fertility for United States. From 1910 and 1940 censuses of the United States, a series of special tabulations of young children by age of mother were generated. Early applications embraced simple computations of age-specific birth rates based on child-woman ratios (Cho, Retherford and Choe, 1986).

Basic ideas of the method were developed in early 1960s. After several improvements, obtaining annual fertility estimates for each of 10 years preceding a census became possible. A series of censuses conducted in 1970 commenced various applications of the method in countries all over the world, including Bolivia, Brazil, Colombia, Costa Rica, Guatemala, Hungary, Indonesia, Japan, the Republic of Korea, Malaysia, Pakistan, Paraguay, the Philippines and Thailand (Cho, Retherford and Choe, 1986).

Further refinements and adjustments were made to deal with the problems such as age misreporting and changes in mortality levels. More recent extensions include the estimations of age-specific marital birth rates, duration-specific ever-marital birth rates (with duration measured since first marriage), age-parity-specific birth rates and birth probabilities, and age-specific birth rates for men yielding births per thousand men at risk instead of births per thousand women at risk. When men are considered rather than women for own-children method, fertility estimates are tabulated according to the characteristics of men. However, own-children method needs to be modified for such kind of applications. Otherwise, it cannot be possible to tabulate the own-children fertility estimates for women by husband's characteristics.

Concisely, the method has been used not only to obtain fertility estimates by characteristic, the principal application in more developed countries, but also to

obtain basic estimates of age-specific birth rates and total fertility rates in less developed countries where birth registration is unreliable.

II.3. THE METHODOLOGY OF OWN-CHILDREN METHOD

The own-children method of fertility estimation is a reverse-survival technique for estimating age-specific birth rates for years previous to a census or household survey. In other words, this method is a retrospective process in which numbers of births by age of mother and numbers of women by single age in previous years are calculated prior to the census or survey. In the own-children method, enumerated children are first matched to mothers within households based on answers to questions on age, sex, marital status and relation to head of household. The success of the own-children method depends on the completeness of the coverage of children in the census or survey and in particular on a high proportion of children living with their natural mothers (Brown, 1986). The matched that is, own children, classified by their own ages and mother's age, are then reverse-survived to estimate numbers of births by age of mother in previous years. Reverse-survival is similarly used to estimate numbers of women by age in previous years. After adjustments are made for unmatched that is, non-own children, age-specific fertility rates (ASFRs) are calculated by dividing the number of reverse-survived births by the number of reverse-survived women. The total fertility rates (TFRs) are then calculated from age-specific fertility rates. Estimates are not computed further back than 15 years since births must then be based on children aged older than 15 at enumeration, a large proportion of whom do not reside in the same household as their mother and hence cannot be matched. All calculations are done initially by single years of age and time. Estimates for grouped ages or calendar years are obtained by appropriately aggregating single-year numerators (births) and denominators (women) and then dividing the aggregated numerator by the aggregated denominator. Such aggregation is often useful for minimizing the distorting effects of age misreporting on the fertility estimates (Cho, Retherford and Choe, 1986; Retherford and Alam, 1985).

In this method, it is implicitly assumed that the coverage of census or survey is the same for children as for women as well as the age distribution of mothers of unmatched and that of matched children.

For reverse-survival ratios, one can either assume a constant mortality level during the period considered or can use different mortality schedules for different periods. If only one set of mortality rates is used in reverse projection of population, mortality is implicitly assumed to have remained constant during the period considered. However, if a mortality level reflected the experiences of whole period can be selected, the own-children method works quite well (Cho, Retherford and Choe, 1986; UN, 1983).

II.4. STRENGTHS AND LIMITATIONS OF THE METHOD

Own-children method has several strengths. First of all, this method allows to compute age-specific fertility rates (ASFRs) and total fertility rates (TFRs) for each of the fifteen-year estimation period immediately preceding a census or survey without any *age restrictions*. In other words, own-children method does not suffer from *age truncation* which is a major issue existing in birth history method. In own-children, initial matching of children to mothers is done for women up to age 65 at the time of enumeration. Therefore, age-specific fertility rates and total fertility rates can be calculated up to age 50 for each of the 15 years preceding an enumeration. However, in birth histories, data are collected only from ever-married women aged 15-49. This means that fertility rates can be calculated up to age 35 for the fifteenth year preceding a survey (Retherford and Mishra, 2001; Cho, Retherford and Choe, 1986). Secondly, own-children method requires no new data collection and therefore it is inexpensive to apply. Since the data are already collected by censuses or surveys for other purposes, the method can use these information for detailed fertility estimations. Thirdly, this method does not depend upon any assumptions about fertility trends. In addition to this, it is important to emphasize that the own-children estimates are rather insensitive to errors in mortality estimates, because such errors cause only very small changes in reverse-survival ratios (Retherford and Alam,

1985). A fourth strength is that own-children method is useful in less developed countries where vital registration is often deficient. Although censuses as well as vital registration systems tend to suffer from undercount in these countries, censuses to which own-children method can be applied, provide more accurate data. Another advantage is the tabulation. Own-children estimates of fertility can be tabulated by any of the variables such as education, language and occupation included in a census or survey. Since vital registration systems do not normally collect information on these variables, fertility estimates derived from vital registration cannot be tabulated. This feature of own-children method makes it attractive to be used. Finally, this method is appealing because it is capable of estimating fertility at different points in time and therefore estimating fertility trends as well as levels (UN, 1983).

On the other hand, own-children method has some limitations. The major limitation of own-children method is both the age pattern of fertility and the estimated trend of fertility can be severely distorted by *age heaping*. Such distortions can be lessened but usually not eliminated. However, if the method is applied to two or more censuses, the estimated fertility trends for single calendar years partly overlap, as each census yields estimates for a 15-year period. The degree to which they coincide may indicate the nature of systematic biases due to age misreporting. Besides, age heaping and differential completeness of an enumeration can negatively affect the accuracy of the results. Secondly, own-children estimates may be biased by migration. Due to the fact that migrants usually form a small proportion of the population, this issue does not seem to be a big problem. However, if migration rates are high, then bias in the fertility estimates from this source can also be serious. Thirdly, own-children method does not produce birth interval statistics since the household list of surviving children who are matched to a particular woman does not provide a complete birth history. Birth dates for surviving children can be calculated from the information about the ages of these children. However, births of children who died later or leave the household before being enumerated will be omitted. Therefore, this type of matching yields partial birth history. The final limitation is that matching errors and mis-allocation of non-own children may cause bias.

However, bias arising from these sources tends to be minimum when compared to that of age misreporting (Cho, Retherford and Choe, 1986).

II.5. DATA REQUIRED

In order to apply the own-children method, data required are (UN, 1983):

- a. The number of children under 15 whose mother was identified, classified according to single year of own age and single year of age of mother.
- b. The number of children under 15 whose mother could not be identified (probably because the mother had died or because she did not live in the same house as her child), classified by single year of age.
- c. The number of all women disregarding whether they are mothers or not, classified by single year of age: These data are required only for the ages between η and $v+\gamma$, where η and v are the lower and upper limits of the reproductive age group, respectively, and γ is the number of age groups used in classifying the children. Therefore, if one assumes that η and γ equal 15, and v equals 49, the number of women aged from 15 to 64 classified by single-year of age is adequate for the application of the own-children method.
- d. Estimates of child survivorship: ${}_1L_x$, for $x = 1, 2, \dots, 15$ for the 15 years prior to the time of survey or census is needed for the calculation of the probabilities of surviving from birth to the age group from x to $x+1$. However, ${}_1L_x$ is seldom provided. As a result, these probabilities are mostly calculated by utilising indirect methods which are described below in detail.
- e. Estimates of female adult mortality: The survivorship ratios from age η to exact age x , for $x = \eta + 1, \eta + 2, \eta + 3, \dots, v+\gamma$ for the 15-year estimation period are required. The techniques for the computations of these probabilities are also referred below.

II.6. COMPUTATIONAL PROCEDURE

Step I: Redistribution of unmatched children

This step can only be performed if the children whose mother could not be identified at the matching stage are tabulated by single year of age. The allocation of those unmatched children is important due to the fact their elimination will lead to underestimates of fertility levels. The aim of this step is to obtain the probable distribution of the unmatched children according to age of mother depending on the information on children whose mother could be identified (UN, 1983).

The number of unmatched children whose mother's age was "a" can be obtained by

$$U_x^a = C_x^a U_x / \sum_{a=15}^{64} C_x^a$$

where,

U_x : number of unmatched children aged x

C_x : number of matched children aged x

C_x^a : number children aged x whose mother's age at the time of enumeration was a

U_x^a : number of unmatched children whose mother's age was a

This equation which can be written again as $U_x^a / U_x = C_x^a / C_x$ states that the distribution of unmatched children of age "x" according to age of mother is identical to that observed among children of age "x" whose mothers were identified.

$C_x^a + U_x^a$ for $0 \leq x \leq 15$ defining the number of children who are to be reverse-projected can be expressed as:

$$\begin{aligned} C_x^a + U_x^a &= C_x^a + (C_x^a U_x / C_x) \\ &= C_x^a (1.0 + U_x / C_x) \end{aligned}$$

This means to multiply every C_x^a by the expansion factor that is, $K_x = (1.0 + U_x / C_x)$ used in adjustment of own-children data for the existence of unmatched children.

Step II: Estimation of survivorship probabilities for children

The probabilities of surviving from birth to the age group from x to $x+1$ for $x=0, 1, 2, \dots, (\gamma-1)$, denoted by ${}_1L_x$, are needed to reverse-project the enumerated children to the time of their birth. It is assumed that a good estimate of the mean level of child mortality prevalent in the population under study during the 15 years or preceding enumeration is available. This estimate may be expressed either as a level within any of the Coale-Demeny families of model life tables, or as a pair of parameters α and β defining a life table in one of the four logit systems (UN, 1983).

When a Coale-Demeny level is provided as an estimate of child mortality, it is possible to transform it into equivalent ${}_1L_x$ values by identifying α and β parameters to define that level within logit system. To obtain α and β values associated with the level determined linear interpolation can be used.

Using the values of α and β parameters and the standard selected from one of the four families in the logit system generated for childhood, $l(x)$ values for ages from 1 to 16 can be calculated using the inverse logit transformation.

$$(y/x)^{emp} = \alpha + \beta(y/x)^{std}$$

$$l(x) = [1.0 + \exp(2.0(y/x))]^{-1} \Rightarrow \text{anti-logit}$$

where,

y/x : logit transformation of l_x that is, $(y/x) = 0.5 \ln[(1 - l(x))/l(x)]$

Then, the probability of surviving from birth to exact age x for both sexes, $l_B(x)$ can be calculated according to the following equation:

$$l_B(x) = [1.05(l_m(x)) + l_f(x)] / 2.05$$

assuming that the sex ratio at birth is 1.05 males per female.

Finally, the desired survivorship probabilities, ${}_1L_x$, are obtained by taking the successive averages of $l(x)$ values. However, an estimate of separation factor for deaths under age one is required for the calculation of ${}_1L_0$. This factor can be estimated using the equations proposed by Coale-Demeny (Table II.6.1).

Table II.6.1. Coefficients For Estimation Of Separation Factors For Age-Group 0-1, Coale-Demeny Model Life Tables

MODEL	Females		Males	
	a ₁	b ₁	a ₁	b ₁
<i>Case A: q(1) < 0.1</i>				
North, South & West	0.005	3	0.0425	2.875
East	0.01	3	0.0025	2.875
<i>Case B: q(1) ≥ 0.1</i>				
North, South & West	0.35	0	0.33	0
East	0.35	0	0.29	0
$S = a_1 + b_1(q(1))$				

Source: United Nations, 1983

In order to determine which coefficients presented in Table II.6.1 are going to be used, $q(1)$ is calculated for both sexes that is,

$$q_{f,m}(x) = 1.0 - l_{f,m}(1)$$

According to the value of $q(1)$, whether it is higher or lower than 0.1, appropriate coefficients are used to calculate S_f and S_m separately by applying the equation $S = a_1 + b_1q(1)$. ${}_1L_0^f$, ${}_1L_0^m$ for each sexes are then computed as:

$${}_1L_0^{f,m} = S_{f,m} + (1.0 - S_{f,m})(l_{f,m}(1))$$

${}_1L_0$ for both sexes are then combined by using the sex ratio at birth.

Step III: Estimation of survivorship probabilities for adult females

In order to reverse-project the female population to each of the γ years preceding the time of enumeration, survivorship probabilities of ${}_1L_a/{}_1L_{a-x}$ for $0 \leq x \leq \gamma$ and $\eta \leq a \leq v + \gamma$, where η and v are the lower and upper limits of the reproductive age span, respectively, γ is the number of age groups used in classifying the children, x is age of children and a is the mother's age at the time of enumeration. If one assumes that η and γ equal 15 and v equals 49, then x and a will range from 0 to 15 and 15 to 64 respectively for ${}_1L_a/{}_1L_{a-x}$. Several procedures may be used to estimate the set of female ${}_1L_x$ values by single year of age. Likewise surviving probabilities of children, estimates of female adult mortality can be either expressed as a level within a given family of the Coale-Demeny life tables or as a pair of α and β parameters within one of the four logit systems. Indeed, the procedure in estimating these probabilities is very similar to the one in children. The major difference is that only the females need to be considered and the transformation of a given mortality level into values of α and β (UN, 1983).

Step IV: Reverse-survival of children

The number of children born in year $t-x$ to women aged $a-x$ is estimated by

$$M_{t-x}^{a-x} = (C_x^a + U_x^a) / {}_1L_x$$

This formula can also be written as

$$M_{t-x}^{a-x} = K_x (C_x^a / {}_1L_x)$$

where, t is the time enumeration.

In order to obtain the desired number of births in single year periods denoted by B_{t-x}^{a-x} , averages of M_{t-x}^{a+1-x} and M_{t-x}^{a-x} are taken.

Step V: Reverse-survival of adult females

Women aged a at time t , W_t^a must be reverse-survived to times $t-x$. The equation used for this step is

$$W_{t-x}^{a-x} = W_t^a ({}_1L_{a-x} / {}_1L_a)$$

The number of women that should be used as denominator for B_{t-x}^{a-x} in calculating age-specific fertility rates is the mid-period female population during the year $(t-x-1, t-x)$ denoted by N_{t-x}^{a-x} . This is computed by

$$N_{t-x}^{a-x} = (W_{t-x-1}^{a-x} + W_{t-x}^{a-x}) / 2$$

Step VI: Calculation of age-specific and total fertility rates

Age-specific fertility rates by single-year age of women is calculated dividing the number of reverse-survived births, B_{t-x}^a , by the number of reverse-survived women, N_{t-x}^a .

The formula can be written as

$$f_{t-x}(a) = B_{t-x}^a / N_{t-x}^a$$

where $f_{t-x}(a)$ denotes the fertility rate corresponding to age a .

By cumulating these single-year age-specific birth rates, single-year total fertility rates by single-year age of women can be obtained. However, age misreporting gives rise the fertility rates by single years to be erroneous. Besides, the computation of five-year age group estimates for comparison purposes may be required. To obtain single-year fertility estimates by five-year age group which is $F_{t-x}(a)$, single-year estimates are aggregated based according to the following equation:

$$F_{t-x}(a) = \sum_{y=\eta}^{a-1} f_{t-x}(y)$$

To smooth out some of the peaks and troughs that may be observed in fertility rates, averages of estimates for adjacent years can be calculated. The equation to be utilised is,

$$f_{t-x}(i) = [F(10 + 5(i + 1)) - F(10 + 5i)] / 5 \quad \text{for } i=1,2,\dots,8.$$

As a result, the distortion in the estimated trends can be hidden when the estimates are aggregated over n -year time periods, where $n \geq 3$.

The own-children method fertility estimations for 15-year period have been reckoned in six stages as already explained. The same procedure has been followed in the application of the method that will be performed in TDHS-1993, TDHS-1998 and TDHS-2003. However, while applying the own-children method so as to make the estimations of fertility, there have been some modifications made to Step 2 and Step 3 in which the rejuvenation has been carried out.

What the own-children method requires at these stages is to utilise the logit system. Unlike the requirements of the rejuvenation process in the own-children method, ${}_1L_x$ values attained by MORTPAK, which has been explained in Chapter II.3, have been used rather than those of ${}_1L_x$ computed by logit transformation. In order to create the necessary ${}_1L_x$ values, under-five mortality rates given by Turkish Demographic and Health Survey have been employed. By means of these, the number of persons surviving to age 5 (l_5) have been obtained from TDHS data sets and ultimately MORTPAK has been run using these l_5 values to construct life tables to be employed in the calculation of the survivorship ratios.

Further details about the computational procedure of the own-children method in Turkish Demographic Surveys have been described in Chapter V.1.

II.7. MORTPAK FOR LIFE TABLE FUNCTIONS

MORTPAK which is a software package for demographic measurement in developing countries has been widely used throughout research institutions in the world since its introduction in 1988. MORTPAK includes 17 applications in the areas of population projection, life-table and stable-population construction, graduation of mortality data, indirect mortality estimation, indirect fertility estimation, and other indirect procedures for evaluating age distributions and the completeness of censuses (UN, 2003).

MATCH and UNABR-two different applications of MORTPAK- have been employed to construct life tables at the stage of computing reverse-survival ratios in the own-children method as well as to convert abridged life tables into single-year. In fact, the own-children method requires logit system to be used in the calculation of survivorship ratios. However, rather than using logit system, life tables have been created by means of MORTPAK based on the number of persons surviving to age 5 (l_5) which have been attained by using under-five mortality rates (${}_5q_0$). These procedures have been referred in Chapter 5.B in detail.

II.7.1 MATCH Procedure

The procedure MATCH not only generates any United Nations or Coale and Demeny model life table but also enables the entering of a user-designated mortality pattern which then can be adjusted to correspond to any desired level. A demographer can generate a model life-table system specific for a country of interest by using MATCH to construct a series of life tables at different levels of life expectancy (UN, 2003).

The user must designate the model pattern (any of the five United Nations, four Coale-Demeny patterns or an external model supplied by the user) and the sex desired. The United Nations principal component equations or Coale-Demeny regression equations are then used with an iterative procedure to find the model

corresponding to a given level of mortality. However, because of potential extrapolation problems, model life tables are calculated only when life expectancy at birth is between 20 and 80 years. When a user-defined pattern is used, it is permitted to go up to 90 years. The mortality level is specified by the user by designating a mortality value for one of four life table functions (${}_n m_x$, ${}_n q_x$, l_x or e_x) for any one of the age groups.

II.7.2 UNABR Procedure

The function UNABR graduates a set of age-specific probabilities of dying (${}_n q_x$ values) in age groups 0-1, 1-5, 10-15, ..., producing a smooth set of ${}_n q_x$ values and estimated single-year probabilities of dying and survivors (UN, 2003).

The mortality probabilities in age groups 0-1, 1-5, 5-10, 10-15, ..., are graduated by use of an eight-parameter formula for the age curve of mortality:

$${}_1 q_x = A^{(x+B)^C} + De^{-E(\ln x - \ln F)^2} + \frac{GH^x}{1 + GH^x}$$

where ${}_1 q_x$ is the probability of someone exact age x dying before exact age $x + 1$, and A , B , ..., H are parameters to be estimated. The parameters are estimated by least squares criteria, minimizing the sum of squares of the proportional differences of the fitted from the observed mortality probabilities, after regrouping into age groups 0-1, 1-5, 5-10, 10-15, The least squares fitting criterion produces a smoothed set of ${}_n q_x$ values and single-year ${}_1 q_x$ values which aggregate to the smoothed ${}_n q_x$ values. The fit is usually very good and this procedure appears to provide excellent fits for the additional life table columns also.

The output presents the ${}_n q_x$ values, by age group, given as input (labelled "observed"), the graduated ${}_n q_x$ values from the interpolation formula (labelled "fitted"), and the both absolute and proportional deviations of the two sets. This allows the user to see the extent of graduation. The unabridged life table itself is

presented as ${}_1q_x$, ${}_1m_x$, ${}_1l_x$ and e_x values for single years of age 0-100. The estimated values of the parameters A, ..., H are also given (UN, 2003).

II. LITERATURE REVIEW ON OWN-CHILDREN METHOD

III.1. WORLDWIDE EXAMPLES ON THE APPLICATION OF THE OWN-CHILDREN METHOD OF FERTILITY ESTIMATION

Retherford and Alam (1985), have analyzed the fertility trends of eight developing countries, Dominican Republic, Indonesia, Kenya, Korea, Nepal, Pakistan, Sri Lanka and Syria, where World Fertility Survey has been carried out by comparing the results of birth history and own-children which are the two main methods of fertility estimation. The initial hypothesis in this study is that fertility trends estimated by these two methods will be negatively affected by the similar errors stemming from the age reporting of women and children. It has also been hypothesized that these errors will become a matter of primary importance in the estimates obtained by own-children method when compared to the ones in the birth history. This fact has been less pronounced in the birth history since the interviewers have the opportunity of testing the consistency in responses given by women in person, which means that the age reporting can be more reliable.

To compute the reverse-survival ratios, life tables are required in which constant mortality has been assumed for Dominican Republic, Korea, Syria, Pakistan, Sri Lanka and changing mortality for Indonesia, Kenya and Nepal. In own-children method, it is possible to use different mortality schedules for different periods rather than a constant mortality for the whole estimation period. For the assessment of fertility estimates, the countries have been categorized into three groups. Nepal, Pakistan and Sri Lanka included in *Group I*, Dominican Republic, Korea and Syria in *Group II*, Indonesia and Kenya in *Group III*.

The comparison of the fertility estimates derived from two methods can only be made up to the exact age 35 owing to the age truncation in birth history. In other words, for the whole 15-year estimation period, the full range of 15-49 declines to 15-34 (Retherford and Mishra, 2001; Cho, Retherford and Choe, 1986; Retherford and Alam, 1985).

According to the results of this study, the primary and the secondary hypotheses have demonstrated quite good results for Pakistan, Sri Lanka, Indonesia and Kenya, poor ones for Nepal, Dominican Republic and Syria. For Korea, it is stated that ages are precisely reported and therefore, the effect of age-misreporting on the estimated fertility trends is in the minimum level. Similarly, for Dominican Republic and Syria, age-misreporting does not have a destructive impact on the fertility estimation. In other words, both in fertility trends estimated from the own-children method and the trends estimated from birth history, patterns of age-misreporting have been obviously identified in the four countries examined in this study. It is really exciting to see the harmony between the own-children method and the birth history method despite the fact that there are some common sources of errors at times (Retherford and Alam, 1985).

Another study concerning the own-children method has been done by Retherford, Pejaranonda, Cho, Chamratrithirong and Arnold (1979) using 1970 Census in Thailand. The method has been applied approximately to 2 percent of Thailand's population which was 34.4 million on April 1st, 1970. 10 percent of this sample has been taken from municipal areas and one percent from non-municipals. For the whole country, a single set of changing life tables has been used.

Regarding the quality of age-reporting, 1970 Census in Thailand has been considered as quite good. It should be reiterated that the accuracy and the reliability of age reporting has a significant impact on the results obtained by own-children method.

One advantage of the own-children method is that it enables to tabulate age-specific birth rates (ASFR) with the characteristics existing in the censuses or survey questionnaires (Cho, Retherford and Choe, 1986). By benefiting from this advantage, Retherford, Pejaranonda, Cho, Chamratrithirong and Arnold have utilised the three characteristics, education, occupation and religion which are regarded to be effective on fertility.

Consequently, during the period between two censuses (1960-1970), estimates of fertility trends and levels in Thailand have been observed to be consistent with that of own-children.

In India, the reason of the differentiation in fertility estimates acquired from Sample Registration System¹ (SRS) and the two National Family Health Surveys² (NFHS-1 in 1992-93 and NFHS-2 1998-99) have been evaluated by Mishra and Retherford (2001).

Fertility estimates are obtained from Sample Registration System (SRS) reports and those of NFHS-1 and NFHS-2 are derived from both birth history and own-children method. Due to the age restriction in birth history, total fertility rate (TFR) for each of the 15 years preceding the survey cannot be computed as mentioned in the study of Retherford and Alam (1985). Therefore, in order to compare these two methods, fertility estimates have only been generated up to the age of 35. As a result of this, own-children method has been preferred owing to the absence of age truncation, more precise indications of both level and trend in total fertility rates and minimum bias from displacement for longer preference periods in fertility estimates. However, age-misreporting has been emphasized as a serious problem which threatens the accuracy of fertility estimates as already stated in various other studies. Since individual questionnaires are conducted with women on one-to-one basis, it is regarded that age reporting in these questionnaires is more accurate than the one in household questionnaires in which the information can be attained from secondary informants such as head of household rather than the woman, herself. For this reason, in order to provide more reliable results, data needed for the application of the own-children method have been copied from individual sample to household sample for 15-49 age group in this study.

¹ Sample Registration System of India provides national and state-level estimates of fertility on an annual basis (Retherford, Pejaranonda, Cho, Chamrathirong and Arnold ,1979).

² NFHS-1 and NFHS-2 was designed along the lines of Demographic and Health Surveys (DHS) that have been conducted worldwide in many developing countries during the past two decades (Retherford, Pejaranonda, Cho, Chamrathirong and Arnold ,1979).

In spite of the fact that the estimated levels of age-specific fertility rates (ASFR) are biased, the own-children fertility estimates of ASFRs from NFHS-1 and NFHS-2 indicates a quite good level of precision. It is also stated in the analyses that, application of the own-children method to the household samples of Demographic and Health Survey (DHS) can be used to replace the birth history approach (Mishra and Retherford, 2001).

In the case of poor vital registration systems and the lack of data regarding the reproduction, own-children method which can also be named as a reverse-survival technique has been applied by Childs (2004) to 1958 census of Tibet.

In Childs' (2004) study, it has also been emphasized that age misreporting is a serious disadvantage of own-children method which results in under or overestimation in total fertility rates.

As a result of this study, own-children method has been proposed to be used as a validity check for the fertility rates reckoned by others and in addition, in order to determine the fertility, own-children can be utilised in the cases in which the vital registration system does not exist or does not work properly.

Another example for the application of own-children method is in Korea where it has produced good results due to the accuracy of age reporting. The cause of this has been explained as the utilisation of the zodiacal animal year of birth while computing the ages in Korea. This precise age-reporting results in minimum bias in the own-children estimates of fertility.

The data set used in the own-children method is from 1974 National Fertility Survey of Korea, conducted as a part of World Fertility Survey. As a result of this application, own-children estimates of trends in total fertility rates derived from the 1974 Korean National Fertility Survey (KNFS) has been approved to be in line with the rates obtained in 1975 and 1980 censuses. This similarity is also true for age-

specific birth rates derived from the same three data sources and own-children method (Cho, Retherford and Choe, 1986).

In Pakistan, the application of own-children method has been to the 1973 Housing, Economic and Demographic Survey (HED) by Cho, Retherford and Choe (1986). The data gathered from this survey are characterized by serious age misreporting problems. According to the single-year age pyramid from HED Survey, extensive heaping for both women and children has been observed. The reason of the age exaggeration in Pakistan has been explicated as the lack of knowledge relating to the accurate birth dates. Only 6 percent of women has been said to know their birth dates according to Pakistan Fertility Survey of 1975. As a result of this, the trend and the age pattern of fertility derived from the application of own-children method to HED Survey has been found to be biased.

Cho, Retherford and Choe (1986) has also applied the own-children method to household samples from the 1975 Pakistan Fertility Survey and the 1978-79 Population, Labor Force and Migration (PLM) and to a subsample of the 1981 census. The same distortion of trend for these sources has been found to exist by virtue of age heaping.

In the studies mentioned above, the most outstanding fact concerning the own-children method is that age misreporting has a serious and destructive impact on the fertility estimates derived by using this method. In contrast, errors in mortality estimates are less pronounced in the own-children method. However, if the same proportion of misreporting is valid for all ages, then the fertility estimates will not be affected. Because, this factor both in the numerator and the denominator will cancel itself while the computing the ASFRs. In fact, the mentioned cancellation will not occur owing to the age selective structure of misreporting (Retherford and Alam, 1985).

III.2. OWN-CHILDREN METHOD IN TURKEY

There exists a good number of examples of own-children applications all over the world. However, in Turkey, the only study as regards the application of own-children method has been performed by Can and Arslan (1997).

Can and Arslan (1997) have tried to compute total fertility rate of Turkey by applying the own-children method to the “Multiple Indicator Cluster Survey³” conducted in 1995. In order to match the mothers or caretakers with the children under 16, the line number of the mother or the caretaker in the household list has been used. The table of children classified by single year of age and single year of age of mother has been formed on the basis of matched children only. The children accompanied by caretakers have been listed in unmatched category and then they have been redistributed.

At the stage of reverse-survival of children, infant mortality rates estimated by the State Institute of Statistics (SIS) have been utilised. Estimation of infant mortality rates for the year 1995 were 39.3 per thousand for females, 49.3 for males and 44.4 for total. Hence, children mortality in Turkey has been determined to be between level 21 and level 22 according to Coale-Demeny East model life tables. By interpolation, the exact level is computed as level 21.15.

For the purpose of calculating the reverse-survival ratio of adult females, the value of life expectancy at the age of 5 (e_5), that is 68.6, estimated by the State

³ The Multiple Indicator Cluster Survey (MICS) is a household survey programme developed by UNICEF in the mid 90.s to assist countries in filling data gaps for monitoring the situation of children and women. It is capable of producing statistically sound, internationally comparable estimates of these indicators. The MICS was originally developed in response to the World Summit for Children (WSC) held in 1990 to measure progress towards an internationally agreed set of mid-decade goals. In this sense, MICS was basically developed to fill existing data gaps and to inform and complement existing data collection methods and instruments (e.g. administrative records, census, vital events registration, etc.). The first round of MICS was conducted around 1995 in more than 60 countries. A second round of surveys was conducted in 1999-2001 to assess progress towards goals and objectives set for the year 2000 which also includes the vaccination, contraception, breastfeeding, education, access to safe water, oral rehydration solution for treating diarrhea. Multiple Indicator Survey held in 1995 aims to evaluate the position of Turkey in terms of the achievement of these mid-term objectives (UNICEF, 2005).

Institute of Statistics for the period 1990-95. Then the exact level has been calculated as 21.8 based on Coale-Demeny East model life tables.

According to the results of own-children method in this study, there has been an overall decline in total fertility rate (TFR) for Turkey. On the other hand, in some years, unexpected rise has been observed. For instance, TFR between the year 1982-83 and 1984-85 has been said to be relatively high. TFR concerning these years has been estimated from 10-year and 12-year old children in the year 1995. Due to age heaping at these ages, TFR has been recorded as high. On the contrary, low level of TFR in 1983-84 has stemmed from age misreporting at the age of 11.

When compared to the results published in the report named "*The Population of Turkey, 1923-1994*" which was prepared by SIS (1993), TFR estimates of own-children have been observed to be consistent. It has been concluded that own-children method is a method that can reliably be used in TFR estimations. It should also be reiterated that there must be a variable matching mothers and children for this method to be used in censuses and survey (Can and Arslan, 1997).

IV. FERTILITY TRENDS AND LEVELS IN TURKEY

Transition to low fertility has been either completed or well underway almost in every country (Casterline, 2001). In Turkey, considerable amount of changes in demographic structure has been observed since the founding of Republic in 1923. The characteristics and structure of the population prior to the Republic no longer exist. These changes are also expected to occur in the near future (SIS, 1995). In fact, once a transition starts it tends to continue (Bongaarts, 2002).

Fertility transition had an early start before the founding of the Republic of Turkey in 1923. During the last decades of 19th century, especially in the larger cities such as İstanbul and İzmir, of the former Ottoman Empire, the fertility decline was almost in the same order of magnitude as in many parts of western and northern Europe. The total fertility rates (TFRs) obtained from Ottoman censuses of 1885 and 1907 were 3.5 and 3.8, respectively, for Istanbul. In other words, low fertility had already been experienced in Istanbul as early as the turn of the 19th century (SIS, 1995). In contrast, before the beginning of industrialization in Europe, the lowest rates for Sweden, Norway and Denmark in 1770s were around 4.1, which was far higher than that of İstanbul. As to Turkey, the total fertility rates for İstanbul was achieved only at the end of 1980s (Behar, 1995; Duben and Behar, 1996).

In Republican Turkey where there were no modern methods of family planning, the transition started in a social environment characterized by strong economic development, societal and cultural factors that enhanced women's status, better child's health and education and vanishing of poverty (Behar, 1995). The fall in total was not only due to a decline in marital fertility, but also significant changes in nuptiality rates. In the late 1930s, the mean age at first marriage for Muslim women in Istanbul went up from about 20 to over 23, whereas it was 20.5 and 19.1 in 1907 and 1885, respectively. Besides, married couples in big cities had very low fertility levels than in rural areas, where 85 percent of Turkey's population were living. When compared with rural fertility level of 7.7, the urban rate of 3.9 was far below national average of 7.1. (Behar, 1995; Duben and Behar, 1996).

During World War I and the War of Independence, due to the recruitment of male population and heavy human losses, the fertility of married women was reduced, which resulted in the decline of national fertility (Üner, 1984). As a result of this, the government of Turkey implemented and supported a pronatalist population policy until mid-1960s because of a need to increase the population growth through increasing fertility. This caused the fertility rates increased from 5.5 births to 7.0 (Taşiran, 1997). In other words, after the end of the war in Turkey, fertility had an increasing trend and reached its peak in 1960 and remained stable until 1965. (Cerit, 1989).

When the situation in Turkey in 1960s was observed, the fertility levels was close to those of Egypt, Morocco, Iran and Sudan. However, 30 years later, TFRs of Turkey were 20 percent lower than that of Egypt and 40 percent lower than that of Iran, although fertility had been decreasing in those two countries, as well (Behar, 1995; Behar et al., 1999).

With the completion of the first stage of “Fertility Transition”, fertility started to decline as of 1950s. By the time when antinatalist population policy was implemented in 1965, the fertility rate had already fallen below 6 children (Hancıoğlu, 1997). Between 1955 and 1985, the fertility decline was assisted by urbanization. As people moved from rural to urban areas, lower rates of reproductions was experienced and they were more oriented to the economic, educational and societal opportunities. Hence, the tendency to bear more children decreased and people were willing to regulate their fertility (SIS, 1995).

The pace of decline increased by mid-1970s after the onset of fertility transition from high birth rates in 1965, but it was still at relatively low levels when compared with that of European countries (Shorter and Macura, 1982). It goes saying that, fertility commenced a sustained decline between 1945-1970 according to the fertility rates given in Table IV.1.

Table IV.1. Total Fertility Rates in Turkey Between 1945-1970

	PERIODS					
	1945-50	1950-55	1955-60	1960-65	1965-70	1970-75
Total Fertility Rate	6.9	6.5	6.5	6.1	5.6	5.1

Source: Shorter and Macura, 1982

As regards to the findings of the censuses, total fertility rate was found to be 3.45 in 1980 Census. Although a slight increase had been experienced in 1990 when compared to total fertility rate computed as 2.59, it started to decrease and reached to 2.50 according to the latest census employed in 2000. In fact, rapid decline has also been manifested concerning the census results.

Table IV.2. Total Fertility Rates in Turkey as of 1980, 1985 and 1990 Censuses

Population Census	Total Fertility Rate
1980	3.45
1985	2.59
1990	2.65
2000	2.50

Source: Koray, 1997; SIS, 2003

Total fertility rates estimated by demographic surveys apparently indicate a continuous declining trend in Turkey. However, the pace of decline may change time to time. For instance, concerning the findings of demographic surveys conducted in 1978 and 1993, total fertility rates have demonstrated a 37% reduction in 1978-1993 period. In 1978, the fertility rate was 4.3 whereas 2.7 in 1993. However, the rate of decline has been more pronounced in the late 1980s and early 1990s when compared to 3 percent depletion per year from 1978 to 1993 (Ergöçmen, Hancioğlu and Ünalın, 1995). In 1998, the national average of total fertility rate was decreased by approximately 4 percent and found to be 2.61. The rate of decline slowed down as regard to results of TDHS-1993 (Table IV.3). The reason for this can be explained by the moderate changes in age-specific fertility rates in TDHS-1998 when compared to the TDHS-1993. There is hardly any change in the age groups for 1993-1998 as seen in Table IV.4 and Figure IV.3. On the contrary, for the period 1998-2003, a rapid and substantial reduction which is 15 percent occurred on the basis of TDHS-2003. In the

light of these facts, Turkey is just above the net replacement level which is 2.1 in terms of the point it has reached in 2003.

Table IV.3. Differentiation in National Average of Total Fertility Rates⁴

	TFS⁵- 1978	TFHS⁶- 1983	TDHS⁷- 1988	TDHS- 1993	TDHS- 1998	TDHS- 2003
TFR	4.33	4.05	3.02	2.65	2.61	2.23

Source: HUIPS, 1980; HUIPS, 1987; HUIPS, 1989; HUIPS, 1994; HUIPS, 1999 and HUIPS, 2004

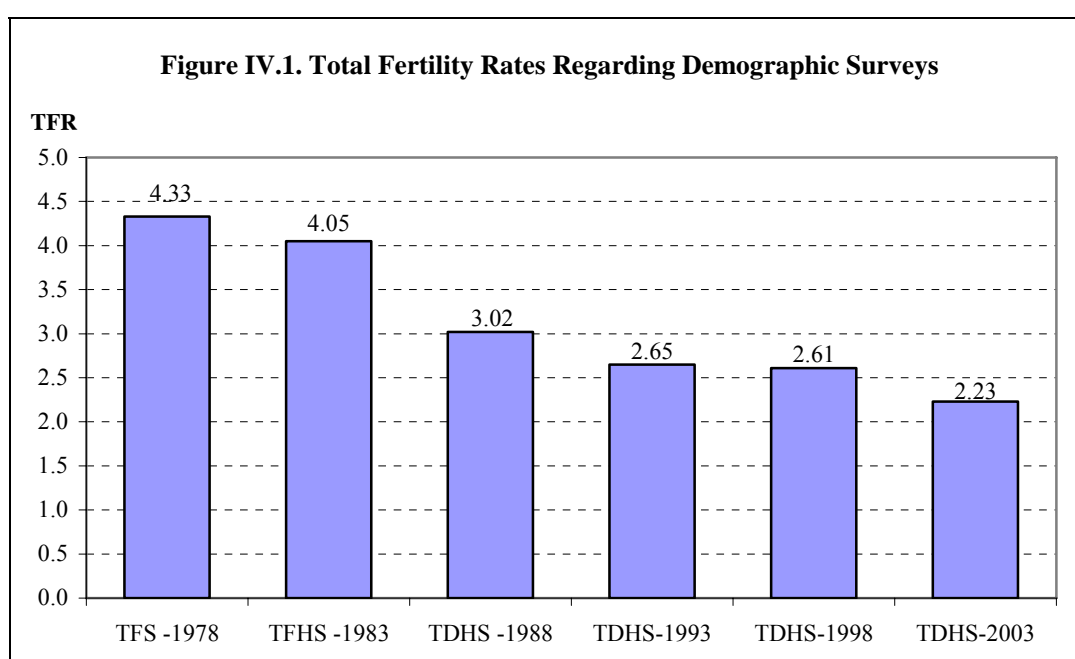


Figure IV.2 shows the declining trend of total fertility rates in Turkey. According to the regression line fitted to this trend, approximately perfect negative linearship between time and total fertility has been apparently seen by the R^2 which is found to be 0.98 ($y = -0.4692x + 7.6795$). In other words, low fertility in Turkey has been well underway and it seems to continue.

⁴ 1978, 1983, 1988 and 1993 rates refer to the year before the survey; 1998 and 2003 rates refer to the three year period before the survey.

⁵ TFS: Turkey Fertility Survey

⁶ TFHS: Turkey Fertility and Health Survey

⁷ TDHS: Turkey Demographic and Health Survey

FIGURE IV.2

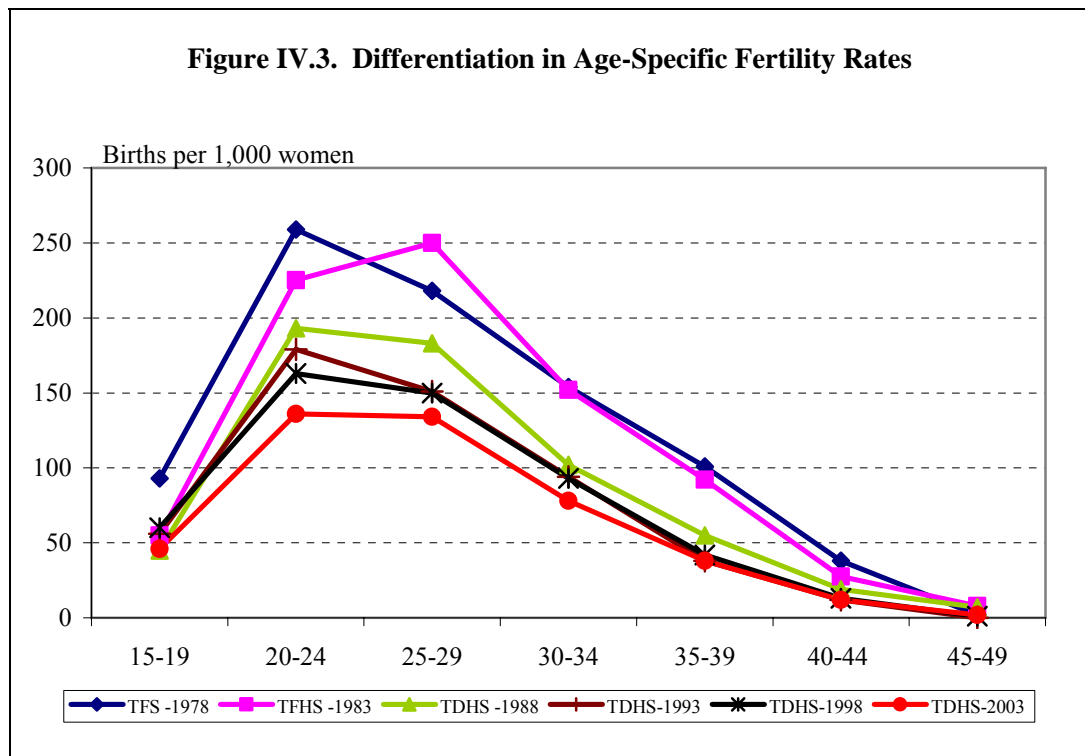
Similar to total fertility rate, the age pattern of fertility has also changed in recent decades in Turkey. Since total fertility rates (TFRs) are computed from age-specific fertility rates (ASFRs), they are important indicators to analyze the differences in age groups in order to justify the decrease in total fertility rates. In fact, ASFRs imply the fertility rate of women at every age-group, the variations in fertility of age-groups and the relative contribution of each age group to total fertility. In 1978, fertility above age 35 accounted for 16 percent of total fertility whereas this was reduced to 9 percent in 1993 which exemplifies the impact of age-specific fertility rates on TFRs (Hancioğlu, Ergöçmen and Ünalın, 1995). Regarding the ages between 20 and 29, women between these ages are the most significant determinants of fertility and therefore they directly affect the level of overall fertility rates. In other words, their descending fertility leads total fertility to decline.

Figure IV.3 shows the time trend of the age pattern of fertility in Turkey in terms of demographic surveys. Age-specific fertility rates are higher at younger ages when compared to that of older ages. The fertility in the entire age groups tends to decrease. The highest fertility is observed for the age group of 20-24 according to the the age-specific total fertility rates obtained from the surveys. However, only in TDHS-1983, the highest fertility has shifted from 20-24 to 25-29.

Table IV.4: Age-Specific Fertility Rates (births per 1,000 women)

AGE	TFS- 1978	TFHS- 1983	TDHS- 1988	TDHS- 1993	TDHS- 1998	TDHS- 2003
15-19	93	55	45	56	60	46
20-24	259	225	193	179	163	136
25-29	218	250	183	151	150	134
30-34	154	152	102	94	93	78
35-39	101	92	55	38	42	38
40-44	38	28	19	12	13	12
45-49	2	8	7	0	1	2
TFR	4.33	4.05	3.02	2.65	2.61	2.23

Source: HUIPS, 1980; HUIPS, 1987; HUIPS, 1989; HUIPS, 1994; HUIPS, 1999 and HUIPS, 2004



The level of fertility and the level of fertility decline is not the same in every part of Turkey. In other words, there has been a non-uniform decline throughout the country. In fact, Turkey's large population size and geographical area give rise to internal heterogeneity across the country where regional differences are outstanding (Ünalın, 1977).

The trends in urban-rural and regional fertility point out the West, Central and North has already been experiencing below-replacement level unlike the South and East. The Eastern part has similar demographic features of the developing countries, while the west part of Turkey is more European regarding the demographic structure.

As shown in the Table IV.5, Central region has exhibited the fastest rate of decline, followed by Southern and Northern. The sharp difference between the Eastern region and the rest of the country, especially between the West are still exist. On the other hand, the urban-rural gap appears to be closing.

Table IV.5. Differentiation in Total Fertility Rates⁸ as Regards Region and Residence

	TFS- 1978	TFHS- 1983	TDHS- 1988	TDHS- 1993	TDHS- 1998	TDHS- 2003
Region						
West	2.9	2.7	2.9	2.0	2.0	1.9
South	3.8	4.6	4.2	2.4	2.6	2.3
Central	4.3	4.0	3.0	2.4	2.6	1.9
North	5.0	3.9	2.6	3.2	2.7	1.9
East	6.3	6.5	4.5	4.4	4.2	3.7
Residence						
Urban	3.7	3.2	2.6	2.4	2.4	2.1
Rural	5.1	5.1	3.7	3.1	3.1	2.7
TOTAL	4.3	4.1	3.0	2.7	2.6	2.2

Source: HUIPS, 1980; HUIPS, 1987; HUIPS, 1994; HUIPS, 1999 and HUIPS, 2004

Consequently, one of the significant demographic issues in Turkey in recent years is the rapid and sustained decline of fertility, especially since late 1970s. When compared with the fertility rate of 6.0 in 1960s, fertility rate of 3.4 in late 1980s is significantly low. According to the results of Turkey Demographic and Health Survey, for the last 25 years, the fertility rate has dropped by 50 percent, reaching 2.23. Demographic surveys conducted every five years have indicated that Turkey has been experiencing accelerated decline in the level of fertility.

Fertility decline in Turkey is mainly related to the recent rapid social transformations including improved general sanitary conditions, usage of contraceptive methods, reproductive behavior and the changes in married proportions. Although the decline is nationwide, there are still regional differences in terms of the decreasing fertility. Especially the eastern and south-eastern parts of Turkey lags behind in fertility transition.

Turkey is said to be in the last phase of the demographic transition. It is expected that by the middle of next century, Turkey's population will stabilize and

⁸ 1978, 1983 and 1993 rates refer to the year before the survey; 1998 and 2003 rates refer to the three year period before the survey. 1988 rates refer to the five year period preceding the survey and since these rates are not available, they have been computed from the data.

the demographic characteristics of Turkey with regard to mortality and fertility level will become similar to that of European (SIS, 1995; Koray, 1997; TÜSIAD, 1999). The western parts of the country are likely to arrive this stage earlier.

V. APPLICATION OF OWN-CHILDREN METHOD TO TURKISH DEMOGRAPHIC AND HEALTH SURVEYS CONDUCTED IN 1998, 1998 AND 2003

V.1. DATA QUALITY

Demographic surveys are practically exposed to errors such as misreporting and misplacement of age. However, the nature and magnitude of these errors vary extensively. In fact, among other sources of errors, age misreporting has been widely experienced in demographic surveys. These errors in the reporting of age have often relatively pronounced as distorting factors by posing devastation in fertility analyses as well as all other demographic analyses since they directly affect and violate the real levels and trends in fertility (Hancıoğlu, 1997; Arriaga, 1994).

Age misreporting is the most serious source of bias in own-children estimates of fertility yielding spurious variations in fertility estimates due to the fact that it erroneously shifts respondents for one age or age group to another. However, the fertility rates derived by own-children technique are less responsive to the misreporting of women's age than that of children. Although women's age misreporting can produce systematic distortions in the overall age pattern of fertility, the effect on total fertility rates tend to be small. On the other hand, misreporting of children's age poses more critical errors in fertility estimates resulting in large overestimates in some calendar years and large underestimates in others. Therefore, to check for the existence of age misreporting, an age pyramid by single years of age should always be formed (Cho, Retherford and Choe, 1986).

If the own-children method is applied to household surveys, it is common to identify age misreporting or inconsistencies related to the information about age. The reason is that the responses to the questions in the household questionnaire are not always given by the primary informants but the secondary informants or surrogates, which means that there is a high probability to experience age misreporting in household data.

Age pyramids for TDHS-1993, 1998 and 2003 have been created according to both five-year age group and single-year of age. Figure V.1.1, V.1.3 and V.1.5 show the age pyramids with single year of age derived from TDHS-1993, TDHS-1998 and TDHS-2003 respectively. The pyramids by five year age groups for TDHS-1993 in Figure V.1.2, for TDHS-1998 in Figure V.1.4 and for TDHS-2003 in Figure V.1.6 are displayed.

When the pyramids based on single-year of age are examined, the evidence of age heaping which is the most frequent form of age misreporting referring to the tendency to report certain ages, also called age or digit preference, can easily be observed through fluctuations. In other words, these fluctuations indicate inaccurate reporting. TDHS-2003 data are exposed to age heaping relatively less than the others whereas TDHS-1993 data are considerably devastated by age heaping. Therefore, one can expect fertility rates by single-year of age derived from the own-children method to have peaks and troughs.

Age pyramids constructed as five-year age groups display a smoother structure when compared to single-year age pyramids. In other words, distortions related to age heaping are less discernible in such pyramids. However, in age pyramids of TDHS-1993, fluctuations are still evident even though it has been designed based on five-year age groups.

Figure V.1.1. Age Pyramid by Single Year of Age Derived from Household Data of TDHS-1993

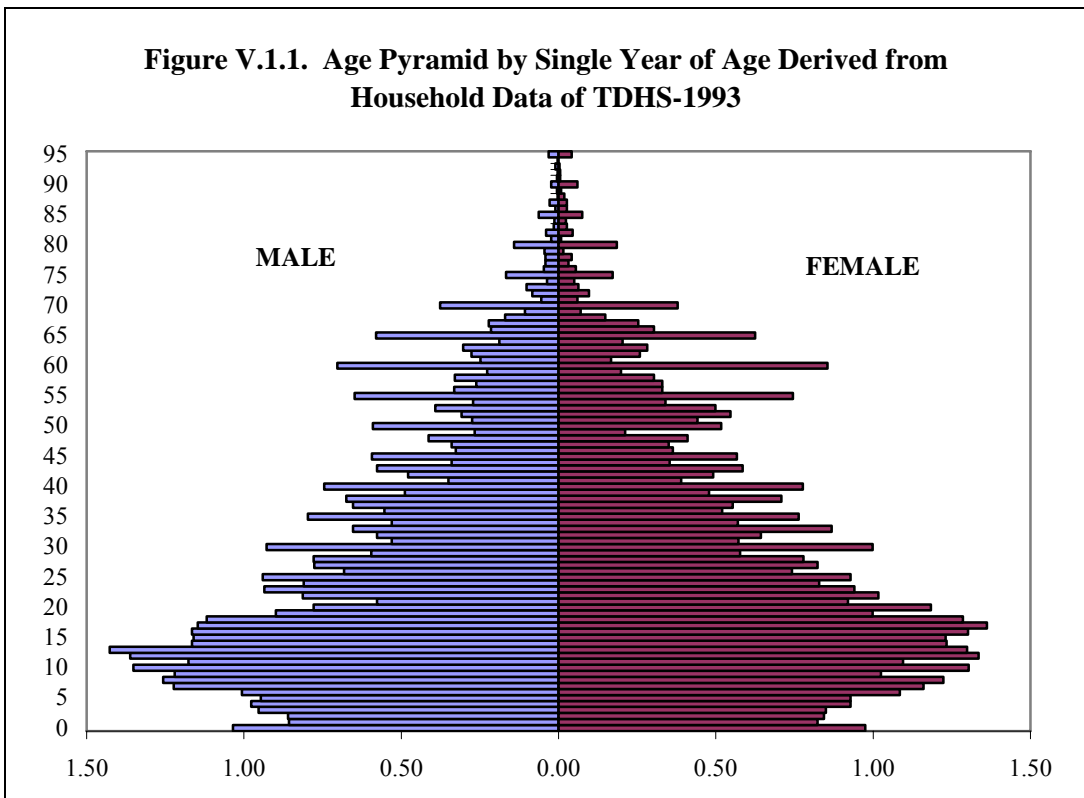


Figure V.1.2. Age Pyramid by Five-Year Age Group Derived from Household Data of TDHS-1993

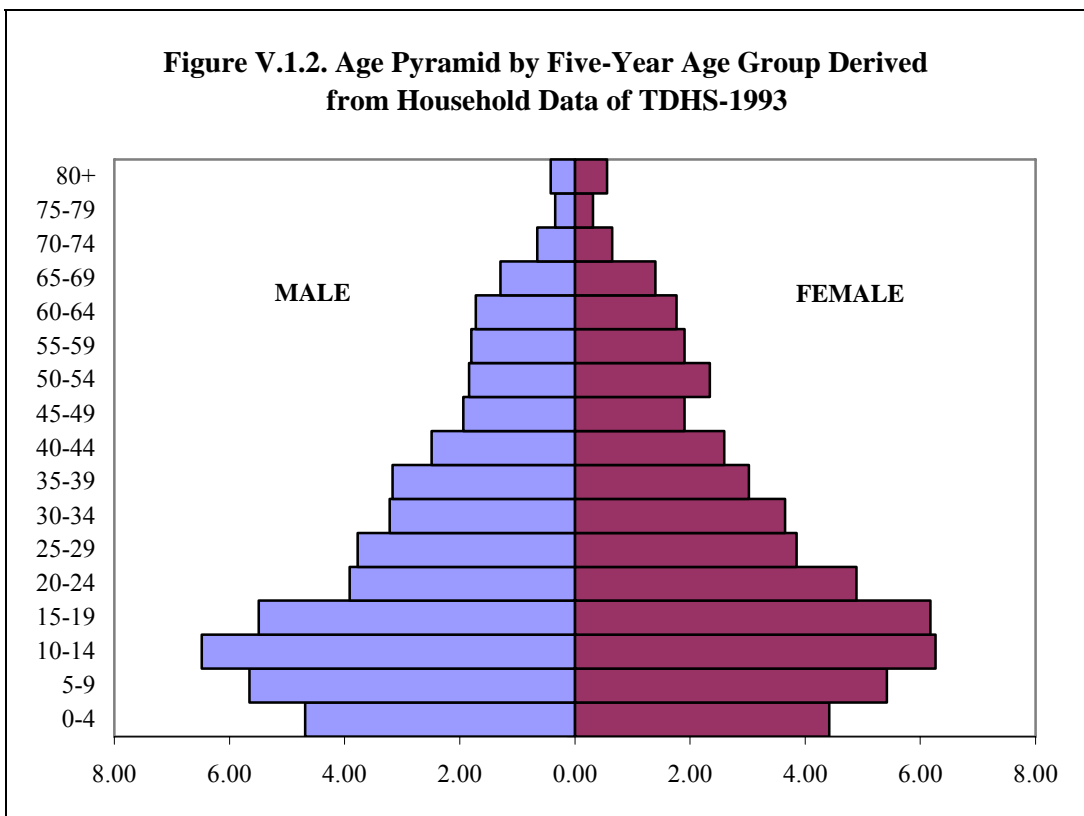


Figure V.1.3. Age Pyramid by Single Year of Age Derived from Household Data of TDHS-1998

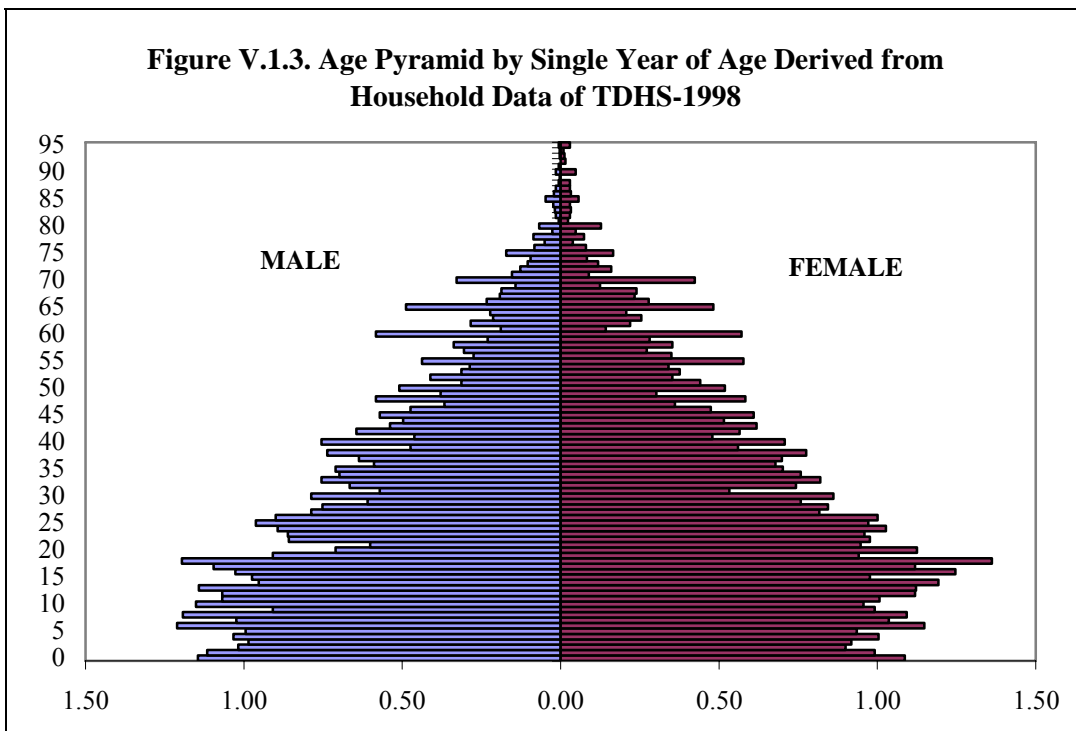


Figure V.1.4. Age Pyramid by Five-Year Age Group Derived from Household Data of TDHS-1998

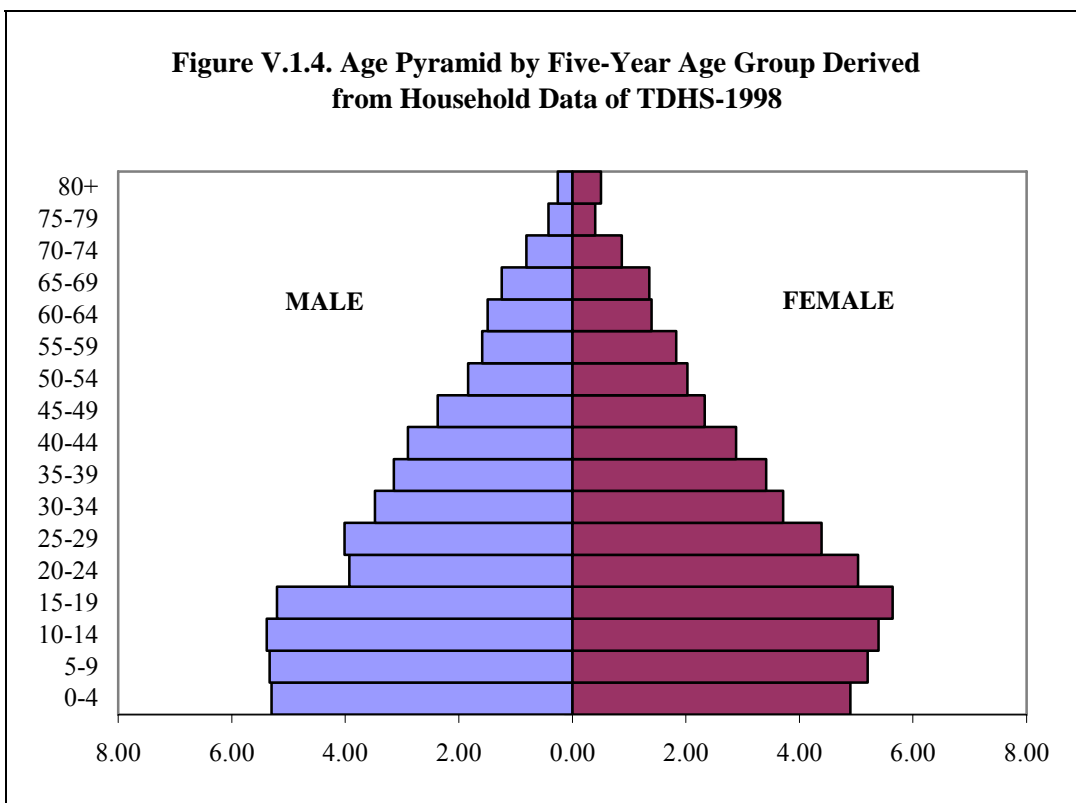


Figure V.1.5. Age Pyramid by Single Year of Age Derived from Household Data of TDHS-2003

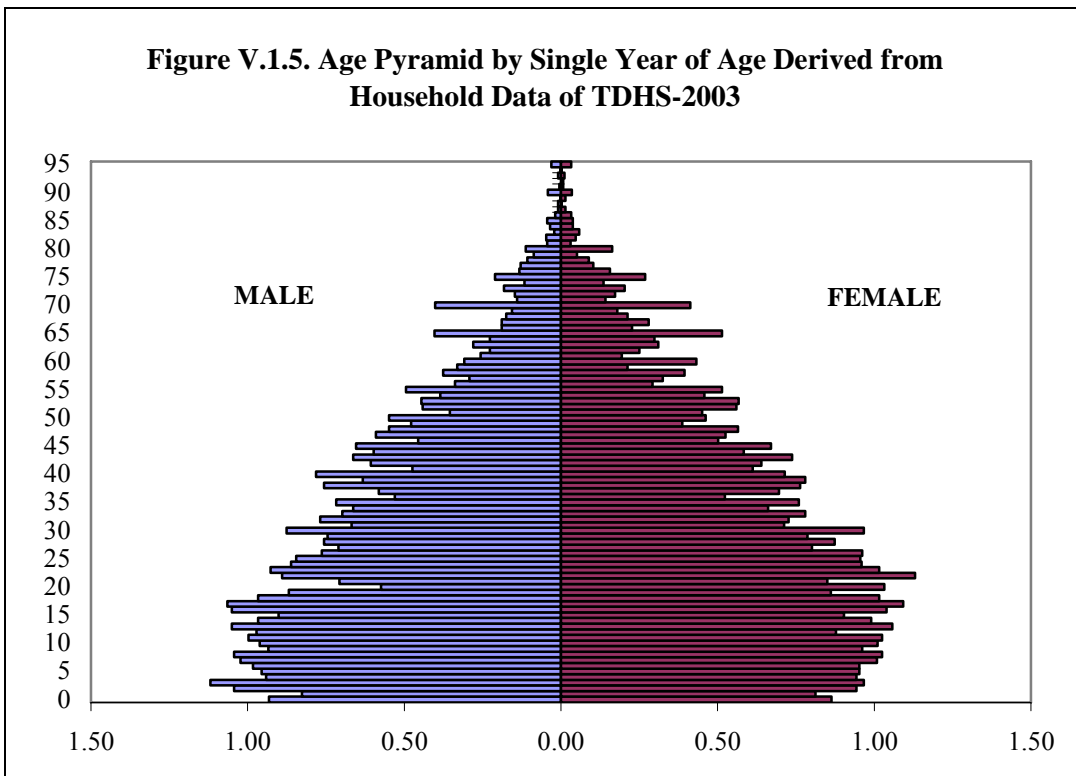
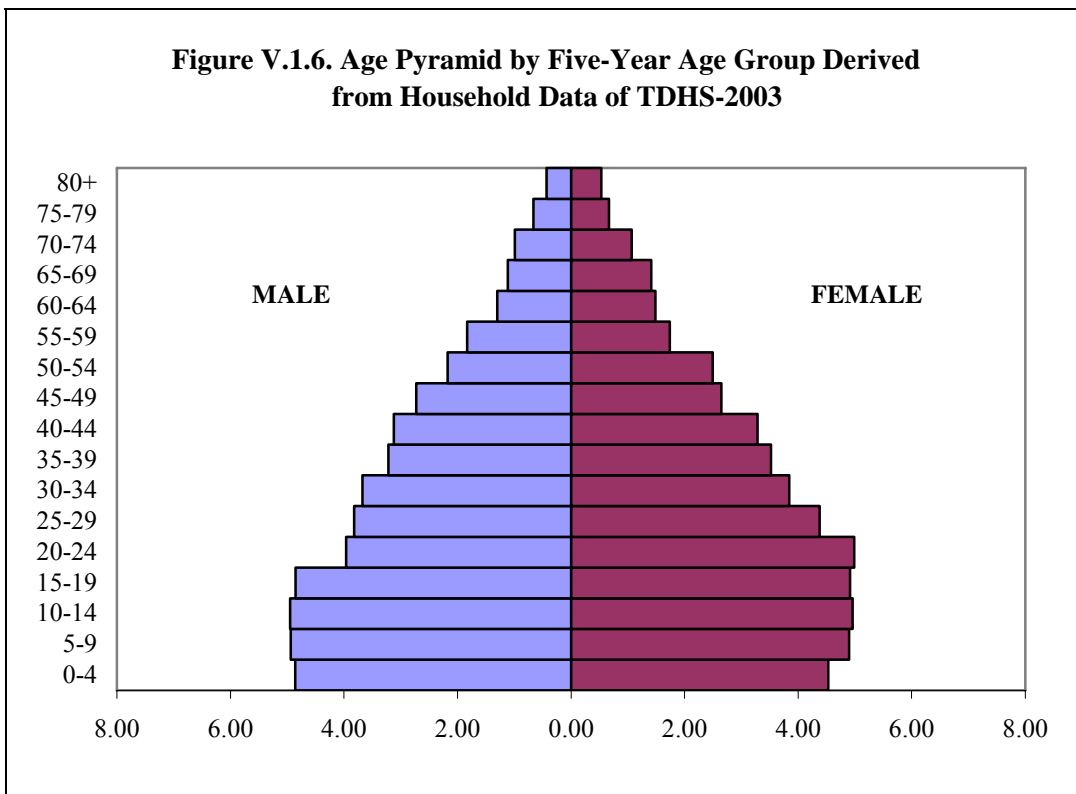


Figure V.1.6. Age Pyramid by Five-Year Age Group Derived from Household Data of TDHS-2003



Even if age pyramids are not sufficient to determine age heaping precisely, they can provide some information about its extent. However, examining only the age pyramids is not an efficient way of indicating age heaping. To assess the extent of age heaping, there are some indexes that reflect the the degree of terminal digit preferences, one of them is the Myers Index. The index has a theoretical range between 0, representing no heaping, and 90 marking a preference of a single digit for all ages (Shryock and Siegel, 1976).

To evaluate the degree of age heaping in TDHS household data sets, the Myers Index has been computed for household members from TDHS-1993, TDHS-1998 and TDHS-2003. Table V.1.2, Table V.1.3 and Table V.1.4 present the index values and the degree of preference or avoidance of each of the 10 digits in TDHS-1993, TDHS-1998 and TDHS-2003 respectively.

Table V.1.1 introduces the ranges of Myers Index values and their meanings. According to the Myers Index, values less than 10 point out low levels of digit preference; values between 10 and 20 suggest moderate levels of digit preference, and values above 20 indicate high levels of digit preferences (Rutstein and Bicego, 1990).

Table V.1.1: Summary Table for the Values of Myers Index

Index values	Level of digit preference
Less than 10	Low
Between 10 and 20	Moderate
More than 20	High

Source: Rutstein and Bicego, 1990

The results of the Myers Index applied to TDHS-1993 show a moderate level of digit preference for both sexes and also for the total (Table V.1.2). The heaping for women's ages is lower than that of men's, which is not the case for TDHS-1998 and TDHS-2003 (Table V.1.3 and Table V.1.4). Almost for each of the 10 digits except for the digit 4 and 7, age heaping for males is higher. Indeed, this fact is not easy to be realized from age pyramids.

Table V.1.2. Percent Distribution of Myers Index Showing the Degree of Preference of Terminal Digit in Household Data, TDHS-1993

Myers Index	Males	Females	Total
Total	16.8	15.7	16.2
0	3.4	4.1	3.8
1	-3.0	-2.2	-2.6
2	-0.9	-0.2	-0.5
3	0.8	0.7	0.7
4	-1.5	-1.6	-1.6
5	3.7	3.0	3.3
6	-0.9	-0.8	-0.9
7	-0.1	-0.3	-0.2
8	0.4	0.0	0.2
9	-2.0	-2.8	-2.4

In TDHS-1998, the level of heaping is low for men's ages while moderate level of heaping has been experienced for women's ages and for the total. Actually, the heaping for females and the overall total can be expressed as low level since the values for both are around 10. For women, the digit preference are higher than men's ages in contrast to those of TDHS-1993.

Table V.1.3. Percent Distribution of Myers Index Showing the Degree of Preference of Terminal Digit in Household Data, TDHS-1998

Myers Index	Males	Females	Total
Total	9.9	10.9	10.3
0	1.6	2.2	1.9
1	-2.4	-2.1	-2.3
2	0.0	-0.7	-0.3
3	-0.2	0.0	-0.1
4	-0.4	-0.2	-0.3
5	2.0	1.4	1.7
6	-0.1	0.4	0.2
7	-0.3	-0.8	-0.5
8	1.3	1.4	1.4
9	-1.6	-1.7	-1.7

Among the other two surveys, TDHS-2003 shows the lowest age heaping for both sexes and, for the whole population enumerated in the survey. Similar to TDHS-1998, age information of men with less heaping has been collected when compared to women in TDHS-2003. However, there is a tendency to avoid reporting ages with the terminal digit 1 for both males and females.

Although there has been an improvement in terms of age misreporting for both males and females from 1993 to 2003, there is a strong and concrete tendency to report ages ending with digits 0 and 5, which is a common issue for each of the three surveys. In TDHS-1998, however, ages with the terminal digit 8 are also preferred in addition to that of ending with 0 and 5. On the other hand, it is apparent from the Tables V.1.2, V.1.3 and V.1.4 that there is an avoidance of ages ending with digit 1 and 9.

Table V.1.4. Percent Distribution of Myers Index Showing the Degree of Preference of Terminal Digit in Household Data, TDHS-2003

Myers Index	Males	Females	Total
Total	6.6	8.3	7.4
0	0.8	1.5	1.1
1	-1.7	-1.5	-1.6
2	0.0	0.1	0.1
3	0.6	1.0	0.8
4	-0.2	-0.3	-0.2
5	1.4	1.4	1.4
6	-0.8	-0.8	-0.8
7	-0.2	-0.3	-0.3
8	0.5	0.2	0.3
9	-0.4	-1.2	-0.8

As a result, fertility estimates of own-children method for each of the three surveys may suffer from age heaping to some extent, especially TDHS-1993 according to the results of Myers Index. However, since the degree of age heaping computed does not indicate a serious failure in age reporting, it is not expected to lead to a crucial bias in fertility analyses of own-children method.

V.2. APPLICATION OF THE METHOD TO TDHS-1993, TDHS-1998 AND TDHS-2003

The computational procedure for the own-children method has been organized in six major stages as described in Chapter II.6. First, children below age 15 has been matched, where possible, to their mothers by using the household data of TDHS-1993, TDHS-1998 and TDHS-2003 in order to obtain the necessary own-children data. Second, from the matched data obtained in the first stage, women by age, own children by child's age and their mothers' age, and unmatched children by age has been tabulated. These three data sets are then displayed in a single table. Third, survival ratios for both children and adult females needed to reverse-project them has been computed by using under-five mortality rates derived from Turkish Demographic and Health Surveys rather than logit system required by the method. A detailed explanation of the reasons why under-five mortality is selected has been explicated in Step 3. After estimating the necessary ${}_1L_x$ values, the reverse survival children and adult females have been calculated. Finally, annual age-specific fertility rates and derived fertility measures have been computed.

Step 1: Matching

The special tabulation in which children are matched to mothers and classified by age of mothers, is a prerequisite for the application of own-children method. In order to form this table, person data were developed for each of the three surveys by choosing necessary variables among the ones used in the household questionnaires of TDHS-1993, TDHS-1998 and TDHS-2003. In addition to these variables, a new variable named "MAGE" was created, which defines the mother age. Matching procedure was completed by utilizing the line number of mother rather than using the answers to the questions of age, sex, marital status, number of living children or relation to head of household.

The variables used in the data set construction process are as follows:

sh11 and sh9 → mother's line number

hv005 → sample weight

hv024 → region (west, south, central, north, east)

hv025 → type of place of residence (urban, rural)

hv103 → slept last night

hv104 → sex of household member (male, female)

hv105 → age of household member

mage → mother age

Table V.2.1. Variables Used in Each TDHS

Variables	TDHS-1993	TDHS- 1998	TDHS- 2003
mother's line number (sh9 and sh11)	√	√	√
sample weight (hv005)	√	√	√
region (hv024)	√	√	√
type of place of residence (hv025)	√	√	√
slept last night (hv103)	√	√	√
sex of household member (hv104)	√	√	√
age of household member (hv105)	√	√	√
mother age (mage)	√	√	√

Matching of children to mothers has been accomplished by SPSS which is a software package for statistical analyses and data management systems. First of all, a syntax has been written by using the variables as mentioned above in order to compose the data for the matching stage. Since the record of “mother's line number” exists for each children in each of the household data of TDHS-1993, 1998 and 2003, this information has been utilised to link children with their mothers.

The rationale behind this algorithm is that the mother's line number (sh9 or sh11) of potential “own” children in the household has been scanned. If the mother is found, then her age is recorded under the heading of “MAGE” variable. Otherwise “MAGE” is recorded as 99 which refers to “unmatched” children. This matching

procedure has been applied to each survey yielding three separate data files in SPSS that contains all the variables required. Later, cross-tabulations in which rows and columns indicates the “MAGE” and “age of household member” (hv105) respectively, have been established to attain the own-children data with children classified by single year of age and single year age of mother. All women in the age range 15-64, all children below age 15 and all non-own children recorded as 99 have been selected from this table. To determine the number of women, the frequency of all women in 15-64 age group has been computed. It should be reiterated that matching is usually limited to children younger than 15 since many children may begin to live away from their mothers starting at about age 15 (Cho, Retherford and Choe, 1986).

Once these data files in SPSS have been formed, own-children estimates of fertility can be tabulated by whatever characteristics recorded in the data files. Thus, based on the matching procedure mentioned above, own-children tabulation has been formed not only for the total but also for urban-rural (hv025). In addition to these, own-children analyses have also been done for five regions (hv024).

Table V.2.2, V.2.3 and V.2.4 show the weighted number of own-children obtained from the *de facto* survey populations of TDHS-1993, TDHS-1998 and TDHS-2003 respectively. The own-children data for each of the surveys regarding the urban-rural and five regions are presented in Appendix A.

Table V.2.2. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from Household Data of TDHS-1993

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	471
16	6	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	498
17	15	4	4	1	0	0	0	0	0	0	0	0	0	0	0	0	521
18	25	16	3	2	1	2	1	0	1	0	1	1	1	0	0	0	492
19	37	17	14	7	4	1	0	0	0	0	0	0	0	0	0	0	382
20	66	44	38	17	20	13	6	3	4	0	2	0	0	0	0	0	453
21	46	58	28	15	13	14	9	6	2	0	0	0	0	0	0	0	352
22	72	54	57	35	40	20	19	6	3	0	0	0	0	0	0	0	389
23	59	58	41	56	43	30	21	16	10	2	1	0	0	0	1	0	360
24	56	45	51	55	60	25	32	17	11	5	1	0	0	0	0	0	317
25	69	55	57	63	56	48	39	35	32	11	20	4	6	1	0	0	355
26	36	35	46	39	46	57	58	48	28	20	17	5	5	0	0	1	284
27	53	45	37	58	52	65	62	65	51	34	33	17	13	3	2	0	315
28	37	37	41	49	46	50	48	66	61	56	34	28	18	7	1	2	298
29	24	26	28	28	32	35	50	54	40	37	37	25	21	11	8	2	221
30	41	44	47	56	67	78	76	103	89	74	87	78	65	46	19	17	382
31	24	14	13	26	32	29	43	47	62	51	54	53	39	33	18	8	219
32	23	16	28	35	48	44	38	59	51	63	53	50	57	57	26	20	246
33	33	17	16	35	35	40	40	70	65	81	81	66	85	100	51	37	332
34	16	15	10	20	28	28	26	34	44	37	40	61	64	55	48	41	218
35	17	14	24	29	29	32	64	47	72	62	85	63	84	86	70	70	292
36	6	5	9	12	11	18	20	23	38	34	53	45	43	68	49	39	199
37	13	12	10	15	16	16	19	24	35	25	57	29	62	64	52	60	212
38	7	12	15	12	19	9	20	39	49	54	47	57	62	77	62	86	271
39	12	6	9	4	11	12	16	12	19	24	26	31	45	39	38	54	183
40	12	5	16	14	22	26	35	36	45	48	58	53	78	77	77	56	297
41	4	1	5	3	2	7	5	12	9	9	20	15	23	20	25	32	149
42	0	1	2	5	2	8	19	22	21	16	19	25	30	37	37	43	188
43	2	4	2	7	9	5	18	19	25	27	22	34	37	50	53	44	224
44	0	0	3	2	3	3	3	4	13	10	19	17	19	17	21	21	135
45	1	2	4	5	6	5	11	13	27	10	36	29	43	36	40	42	217
46	0	1	3	0	2	3	4	4	8	12	15	16	14	13	21	26	139
47	1	0	0	1	1	1	4	6	8	6	15	14	16	17	24	18	134
48	0	0	0	3	0	3	0	5	10	5	10	9	9	17	18	21	157
49	0	1	0	0	1	1	0	0	4	2	3	4	11	3	7	14	81
50	0	0	0	1	6	2	1	9	7	10	15	8	23	22	28	26	198
51	0	0	0	0	0	0	4	4	5	4	12	12	13	21	20	23	169
52	0	0	0	0	0	0	4	2	3	6	7	11	10	14	25	29	209
53	0	0	1	0	1	0	0	0	3	3	4	6	8	9	15	12	191
54	0	0	0	0	0	2	1	2	0	3	3	1	8	8	11	10	130
55	0	0	0	0	0	0	1	4	1	2	8	4	11	9	29	16	285
56	0	0	0	0	0	0	0	0	2	0	2	1	4	3	4	3	126
57	0	0	0	0	0	0	0	0	1	0	0	1	0	4	4	7	126
58	0	0	0	0	0	0	0	0	0	2	5	2	2	4	0	7	116
59	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	76
60	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	2	327
61	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	64
62	0	0	0	0	0	0	0	1	0	0	1	0	0	2	0	0	99
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
64	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	78
Unknown	4	7	16	10	13	21	18	24	33	36	43	28	52	52	60	77	
TOTAL	817	672	679	721	777	753	835	941	992	881	1049	903	1081	1084	973	968	

Table V.2.3. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from Household Data of TDHS-1998

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	330
16	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	421
17	11	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	378
18	30	20	6	3	3	1	0	1	0	0	0	0	0	0	0	0	460
19	32	22	14	4	2	1	0	0	0	0	0	0	0	0	0	0	318
20	53	43	30	12	5	4	3	3	1	0	0	0	0	0	0	0	380
21	43	45	36	18	18	9	4	1	0	0	0	0	0	0	0	0	320
22	59	46	43	31	22	20	11	1	3	2	0	0	0	0	0	0	330
23	53	38	50	50	31	29	14	5	7	0	3	1	0	1	0	0	324
24	62	60	54	51	57	29	32	19	8	3	1	0	1	0	0	0	347
25	54	51	45	58	58	43	51	35	28	15	8	6	4	1	1	0	328
26	56	62	52	50	64	51	47	37	33	18	5	5	0	1	0	0	338
27	32	49	41	51	43	51	48	39	32	21	20	7	4	2	0	1	276
28	42	50	46	49	51	52	56	50	50	35	35	24	9	8	3	4	285
29	37	19	43	49	38	35	48	53	58	32	27	23	16	8	3	3	256
30	36	42	44	41	51	42	63	67	58	44	55	42	28	19	14	4	291
31	20	20	15	20	27	19	46	25	39	32	29	28	21	13	12	4	180
32	35	25	21	26	36	42	42	42	51	47	77	47	43	30	32	19	251
33	29	25	30	31	34	46	43	49	50	55	58	43	51	44	38	33	277
34	18	24	23	22	28	27	41	30	43	55	48	63	47	53	29	33	256
35	20	18	14	22	26	35	41	35	57	38	45	57	51	57	47	43	237
36	18	22	11	24	20	19	35	31	40	27	37	47	48	56	38	50	229
37	15	9	6	19	10	25	26	31	32	38	36	38	39	43	49	47	236
38	10	12	12	14	20	20	24	27	38	34	39	46	42	70	52	53	262
39	1	1	7	4	11	11	22	11	26	17	20	27	35	40	40	39	189
40	5	10	5	11	12	17	30	30	26	28	37	40	58	44	59	50	239
41	4	4	3	4	3	4	10	14	11	18	17	22	24	29	28	28	162
42	1	3	3	6	3	11	9	12	11	11	20	10	31	30	36	24	191
43	1	4	4	3	10	12	13	13	13	12	15	24	27	37	27	25	209
44	2	1	1	5	4	4	8	5	15	12	14	20	25	22	27	22	174
45	2	2	2	3	4	11	10	14	16	17	14	18	27	29	42	42	206
46	0	1	0	1	4	2	5	5	4	10	6	9	18	12	18	16	160
47	1	1	0	1	1	1	3	2	3	5	6	8	13	12	11	14	122
48	0	0	0	2	4	1	5	7	9	6	13	10	16	19	25	30	197
49	0	0	0	0	0	0	2	2	3	0	4	4	9	8	8	17	102
50	0	1	2	0	1	2	3	4	9	7	16	13	14	19	20	24	175
51	0	0	0	1	1	1	2	4	6	2	7	3	4	12	20	15	149
52	0	1	0	0	1	0	2	0	4	5	5	3	6	5	10	7	119
53	0	0	0	0	0	1	1	1	0	4	1	2	6	5	7	6	127
54	0	0	0	0	0	1	1	0	0	2	0	1	2	3	2	3	115
55	0	0	1	0	0	3	2	4	1	3	6	5	7	14	11	10	195
56	0	0	0	0	0	0	1	0	2	2	1	1	5	5	9	4	118
57	0	0	0	0	0	0	0	1	0	1	0	1	2	3	2	6	92
58	0	0	0	0	0	0	0	0	0	0	1	0	3	3	3	4	119
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	95
60	0	0	0	0	0	0	0	0	0	1	2	2	1	1	3	3	193
61	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	48
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
63	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	86
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70
Unknown	7	4	10	10	21	13	21	22	27	22	38	36	55	50	55	48	
TOTAL	796	743	676	696	724	695	825	733	814	681	766	737	794	809	786	732	

Table V.2.4. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from Household Data of TDHS-2003

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	387
16	3	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	445
17	14	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	468
18	24	7	3	4	0	0	0	0	0	0	0	0	0	0	0	0	435
19	30	32	12	5	3	0	0	0	0	0	0	0	0	0	0	0	369
20	39	33	30	20	6	3	0	0	0	0	0	0	0	0	0	0	442
21	40	41	37	23	5	4	0	0	0	0	0	0	0	0	0	0	364
22	85	50	60	39	43	26	13	4	4	1	1	0	0	0	0	0	484
23	62	51	51	52	43	26	15	11	1	1	1	0	0	0	0	0	435
24	66	45	55	50	40	34	23	16	10	2	0	0	0	0	0	0	411
25	58	50	58	59	58	44	40	29	21	11	2	2	1	0	0	0	409
26	55	57	60	79	51	60	64	43	34	22	14	5	2	0	0	0	412
27	55	35	69	55	53	45	46	41	36	37	18	6	4	1	0	0	343
28	27	56	58	73	59	54	46	60	48	39	38	21	14	6	3	0	374
29	33	49	43	54	56	59	63	60	76	51	39	35	28	18	5	1	337
30	37	36	55	72	67	80	70	74	72	58	74	57	42	25	13	6	414
31	27	22	35	40	45	47	50	69	56	63	44	43	42	36	20	9	305
32	28	29	40	44	42	36	55	58	67	73	68	67	44	36	31	27	311
33	17	15	40	45	38	31	48	60	50	49	60	71	64	57	39	27	334
34	15	20	32	33	34	27	35	42	53	52	40	51	42	52	47	29	283
35	21	20	16	27	35	44	36	45	52	49	56	58	54	72	63	54	325
36	7	19	9	21	21	25	29	31	32	33	30	39	37	40	55	29	224
37	7	6	19	10	24	34	46	37	33	28	56	50	58	66	56	50	298
38	13	15	17	16	20	24	38	32	41	43	42	59	55	74	59	57	327
39	5	12	14	14	21	28	28	36	30	38	41	44	42	52	61	65	334
40	6	6	11	18	14	22	23	19	30	24	34	43	45	67	42	59	306
41	3	6	6	10	8	8	16	30	22	24	29	30	29	36	54	40	262
42	2	0	5	10	8	9	8	15	21	19	33	29	24	42	31	36	274
43	3	5	9	9	6	13	12	16	23	20	19	25	22	43	38	55	316
44	1	3	1	4	2	12	7	11	10	18	24	26	33	29	35	33	250
45	0	1	1	4	3	5	10	9	10	12	17	17	22	37	32	35	287
46	0	0	2	1	6	2	4	4	5	3	12	13	13	18	24	13	215
47	0	0	0	0	1	2	0	3	6	9	7	16	10	16	18	19	225
48	0	1	2	0	0	4	3	5	4	4	11	3	11	15	16	23	242
49	0	0	0	1	1	1	2	2	2	4	1	4	5	12	14	10	166
50	0	0	1	2	1	1	4	2	4	6	7	6	6	12	13	17	198
51	0	0	0	0	0	1	0	0	3	3	4	7	13	7	9	15	193
52	0	0	0	0	1	1	0	1	6	4	3	9	10	10	15	12	240
53	0	0	1	0	0	1	1	2	2	3	1	5	5	4	11	11	243
54	0	0	0	0	0	0	0	1	2	2	3	4	4	3	8	5	196
55	0	0	0	0	0	0	0	0	2	1	3	4	7	6	9	7	220
56	0	0	0	0	0	0	0	0	0	0	0	3	2	4	9	4	125
57	0	0	0	0	0	0	0	0	0	1	0	1	1	1	2	1	139
58	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	1	169
59	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	3	91
60	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	185
61	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	83
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	107
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133
64	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	128
Unknown	7	6	13	27	20	28	18	21	28	18	34	29	23	35	50	70	
TOTAL	790	731	866	923	836	841	853	889	898	825	866	883	817	935	892	828	

Step 2: Redistribution of Children with Unidentified Mother

The number of children whose mother could not be identified at the matching stage are given in the penultimate row of the tables. The last rows indicates the totals of each column. To put it another way, they are the total of matched and unmatched children ($C_x + U_x$) aged x . The number of children who are to be reverse-projected can be expressed as

$$C_x^a + U_x^a = C_x^a (1.0 + U_x / C_x)$$

Owing to the existence of unmatched children, own-children data is needed to be adjusted according to the expansion factor that is, $K_x = (1.0 + U_x / C_x)$. Thus, the desired $C_x^a + U_x^a$ values can be obtained by multiplying every entry C_x^a by the expansion factor K_x .

The procedure for computing the expansion factor, K_x , used in the redistribution of unmatched children for each of the three surveys are illustrated below based on the information presented in Table V.2.2, V.2.3 and V.2.4. The same process has also been followed for the type of place of residence (urban-rural) and for five regions, but the examples are only given for the total.

TDHS-1993: Considering the 10-year old children showed in Table V.2.2, a total of 1,049 has been enumerated out of which 43 children has no mother. Therefore the expansion factor is calculated as,

$$C_x = Total - unmatched \Rightarrow 1,049 - 43 = 1,006$$

$$K_x = (1.0 + U_x / C_x) \Rightarrow 1.0 + 43 / 1,006 = 1.0427$$

TDHS-1998: According to the Table V.2.3, total number of children aged 11 is 737. Of these, 36 are considered as non-own children. Hence, K_x is found to be 1.0514 according to the following equation:

$$C_x = Total - unmatched \Rightarrow 737 - 36 = 701$$

$$K_x = (1.0 + U_x / C_x) \Rightarrow 1.0 + 36 / 701 = 1.0514$$

TDHS-2003: In Table V.2.4, the total of the children aged 12 is given as 817. Among these, mothers of 23 children has been identified as non-own. Then, each children aged 12 is multiplied by 1.029 for the reverse-projection.

$$C_x = Total - unmatched \Rightarrow 817 - 23 = 794$$

$$K_x = (1.0 + U_x / C_x) \Rightarrow 1.0 + 23 / 794 = 1.029$$

Values of the expansion factor K_x for $0 \leq x \leq 15$ are given in Table V.2.5 concerning the total survey population in each of the three surveys. These factors has been used at the stage of estimating numbers of births for each of the 15 year preceding the surveys. Expansion factors for urban-rural and five regions are presented in Appendix B.

Table V.2.5. Values of Expansion Factors, K_x

Age of child (x)	TDHS-1993 K_x	TDHS-1998 K_x	TDHS-2003 K_x
0	1.0049	1.0089	1.0089
1	1.0105	1.0054	1.0083
2	1.0241	1.0150	1.0152
3	1.0141	1.0146	1.0301
4	1.0170	1.0299	1.0245
5	1.0287	1.0191	1.0344
6	1.0220	1.0261	1.0216
7	1.0262	1.0309	1.0242
8	1.0344	1.0343	1.0322
9	1.0426	1.0334	1.0223
10	1.0427	1.0522	1.0409
11	1.0320	1.0514	1.0340
12	1.0505	1.0744	1.0290
13	1.0504	1.0659	1.0389
14	1.0657	1.0752	1.0594
15	1.0864	1.0702	1.0923

Step 3: Estimation of Survivorship Probabilities for Children and Adult Females

At this stage of the computational procedure, reverse survival ratios are needed to be calculated in order to estimate the numbers of children and women for each of the 15 year prior to the survey. Since ${}_1L_x$ values defined as the probabilities of surviving to age group from x to $x+1$ are rarely available, indirect methods are generally used for computing these probabilities (UN, 1983). For that reason, the own-children method requires the usage of logit system. If an appropriate level of child and adult mortality can be identified for the method to be applied, it is then possible to transform it into equivalent ${}_1L_x$ values by determining the α and β parameters separately for both children and adult mortality. Based on the Coale-Demeny life tables for childhood and adult females referring that level, logit system is utilised. To obtain exact α and β values associated with the level determined linear interpolation can be used.

However, instead of the procedure explained in the previous paragraph, for the application of own-children method to TDHS-1993, TDHS-1998 and TDHS-2003, mortality levels provided by Turkish Demographic and Health Surveys have been utilised. Since there are no other reliable and accurate mortality data derived from vital registration systems or censuses, these rates have been preferred.

In Turkish Demographic and Health Surveys, infant mortality (${}_1q_0$) child mortality (${}_4q_1$) and under-five mortality (${}_5q_0$) rates by five- and ten-year periods preceding the survey has been given. These rates are available for both males and females. Among these rates, under-five mortality (${}_5q_0$) rates for ten-year period preceding the survey for each sex have been employed. This means that for TDHS-1993, these mortality rates refer to a mortality level for 1983-1993 period. Similarly, for TDHS-1998, the period between 1988 and 1998, and for TDHS-2003, the period 1993-2003 are considered. However, under-five mortality ten-year period prior to the survey is provided nationwide only by Turkish Demographic and Health Surveys. Therefore, these ten-year rates for urban-rural and for the major five regions have

been calculated because the own-children method has also been applied to these subgroups (Table V.2.6). Moreover, only one set of mortality rates has been used for each of the three surveys in reverse projection of the population implicitly assuming that mortality have remained constant during each period. In addition, since there are no strict rules for the mortality assumptions in own-children method, the utilisation of different mortality schedules for different periods is also granted concerning the 15-year estimation period.

Table V.2.6. Under-Five Mortality Rates for the Ten-Year Period Prior to Survey

TDHS-1993 Under Five Mortality Rates ($_{0q5}$)								
	Total	Urban	Rural	West	South	Central	North	East
Male	82.0	71.1	100.4	58.2	79.5	97.4	89.2	97.2
Female	78.7	64.5	99.9	61.5	75.3	79.8	69.3	103.9

TDHS-1998 Under Five Mortality Rates ($_{0q5}$)								
	Total	Urban	Rural	West	South	Central	North	East
Male	60.9	55.4	76.5	59.9	57.6	54.4	82.3	72.3
Female	58.3	50.3	77.3	44.9	47.1	58.1	67.5	85.9

TDHS-2003 Under Five Mortality Rates ($_{0q5}$)								
	Total	Urban	Rural	West	South	Central	North	East
Male	48.0	39.2	70.5	33.5	45.8	48.3	65.3	68.2
Female	45.0	39.5	60.1	31.7	45.3	29.8	42.2	79.3

The underlying reason for utilising under-five mortality instead of infant or child mortality is that under-five mortality is thought to have a more composite structure since it covers both of them. Besides, when under-five mortality is compared to infant and child mortality, it is superior in terms of the number of observations in under-five mortality. The lack of observations may be a potential for infant and child mortality to fluctuate. In contrast, such fluctuations tend to be low for under-five mortality due to a relatively smoother structure.

Although the own-children method is not very sensitive to assumptions about recent changes in the level of mortality, it requires detailed estimates of mortality for both children and females (UN, 1983). Therefore, in order to correspond at least to the decade preceding the survey, under-five mortality ten-year period prior to the survey rather than that of five-year period has been found appropriate to be used in the estimation of survivorship ratios. If mortality is assumed to have changed during the period, under-five mortality five year preceding the survey will be more accurate. However, in the application of own-children method to the Turkish Demographic and Health Surveys, constant mortality is assumed. As a result, under-five mortality for the ten-year period has been considered to produce more precise since it refers to the estimation period in the method.

Table V.2.7. Number of Persons Surviving to Age 5 (l_5) Derived from Under- Five Mortality Rates

TDHS-1993 Number of Survivors at Exact Age 5 (l_5)								
	Total	Urban	Rural	West	South	Central	North	East
Male	91800 ⁹	92890	89960	94180	92050	90260	91080	90280
Female	92130	93550	90010	93850	92470	92020	93070	89610

TDHS-1998 Number of Survivors at Exact Age 5 (l_5)								
	Total	Urban	Rural	West	South	Central	North	East
Male	93910	94460	92350	94010	94240	94560	91770	92770
Female	94170	94970	92270	95510	95290	94190	93250	91410

TDHS-2003 Number of Survivors at Exact Age 5 (l_5)								
	Total	Urban	Rural	West	South	Central	North	East
Male	95200	96080	92950	96650	95420	95170	93470	93180
Female	95500	96050	93990	96830	95470	97020	95780	92070

⁹ $l_5 = 100000 * (1 - 0.082)$

To estimate the necessary survivorship probabilities, first of all, the number of persons surviving to exact age 5 (l_5), one of the life table functions, has been produced for each sex by using under-five mortality rates (Table V.B.8).

Next, by employing MORTPAK software which has already been mentioned in Chapter 2, abridged life tables have been formed separately for each sex. For the creation of these life tables, MATCH application in MORTPAK has been used. The software requires a mortality value for one of four life table functions which are ${}_n m_x$, ${}_n q_x$, l_x or e_x . The number of persons surviving to age 5 (l_5) has been utilised for this application. For model life table pattern, Coale-Demeny East model life table, which is characterized as high infant and high old-age mortality relative to childhood and adult rates, has been employed. However, demographers argue that it is not easy to identify an exact model for the pattern of Turkish mortality. Hence, there has not been a consensus on the model that best fits the mortality pattern in Turkey. For instance, some demographers suggest that East and Chilean models are found to be appropriate for childhood mortality while West and General models is said to give the best fit for adult mortality. On the other hand, some demographers have stated that Coale-Demeny South model failed to reflect the child mortality in Turkey. On the contrary, it has proved to be suitable for adult mortality (Türkyılmaz, 1998). It is pointed out by Hancıoğlu (1991) that Chilean and East models reflect infant mortality and under-five mortality the best. Shorter and Macura (1982) also indicates that East model is more compatible with the mortality pattern in Turkey. Therefore, East model has been preferred due to the fact that it best fits for both the mortality pattern in Turkey and under-five mortality.

For the calculation of children survivorship ratios, life tables have been combined to attain them for both sexes. Abridged life tables have been converted into single-year life tables by using UNABR application in MORTPAK due to the fact that single-year ages are used in the own-children method. At this stage, q_x values are required in the life tables produced. In this way, ${}_1 L_x$ values have been achieved to be used in the stage of reverse survival of children and adult females. The estimates of probabilities of surviving for children and adult females are

displayed in Table V.2.9, V.2.10 and V.2.11. These estimates for urban-rural and five regions are presented in Appendix C.

Table V.2.8. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Referring to the Period 1983-1993

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.95374	15	91175	0.90909	40	86524	0.86527
1	93403	0.93203	16	91085	0.91589	41	86235	0.86000
2	92690	0.92574	17	90987	0.90598	42	85934	0.85831
3	92316	0.92164	18	90881	0.90551	43	85619	0.85530
4	92069	0.91919	19	90766	0.91241	44	85288	0.85122
5	91887	0.92258	20	90641	0.89865	45	84939	0.84598
6	91744	0.91406	21	90508	0.90506	46	84571	0.84267
7	91627	0.91667	22	90365	0.90476	47	84180	0.84073
8	91528	0.91579	23	90213	0.89888	48	83763	0.83459
9	91441	0.91860	24	90053	0.89840	49	83319	0.83246
10	91362	0.91358	25	89885	0.89796	50	82842	0.82553
11	91288	0.91250	26	89709	0.89756	51	82331	0.82116
12	91215	0.90244	27	89525	0.89202	52	81780	0.81507
13	91141	0.91954	28	89335	0.89593	53	81185	0.80881
14	91061	0.90625	29	89137	0.89083	54	80542	0.80207
15	90974	0.90654	30	88933	0.88608	55	79845	0.79495
			31	88723	0.88525	56	79089	0.78640
			32	88507	0.88492	57	78268	0.77855
			33	88284	0.88077	58	77375	0.76880
			34	88055	0.87687	59	76404	0.75879
			35	87820	0.87726	60	75347	0.74756
			36	87577	0.87413	61	74198	0.73632
			37	87327	0.87162	62	72947	0.72234
			38	87069	0.87013	63	71589	0.70831
			39	86801	0.86563	64	70115	0.69341

Table V.2.9. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Referring to the Period 1988-1998

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96487	15	93476	0.93506	40	89978	0.89961
1	95001	0.94828	16	93404	0.92771	41	89745	0.89455
2	94561	0.94444	17	93327	0.93258	42	89499	0.89384
3	94323	0.94152	18	93244	0.92632	43	89238	0.89068
4	94162	0.94531	19	93156	0.94059	44	88961	0.88589
5	94041	0.94118	20	93061	0.92593	45	88666	0.88515
6	93945	0.92941	21	92961	0.92982	46	88350	0.88281
7	93866	0.94521	22	92855	0.92500	47	88011	0.87952
8	93797	0.93846	23	92744	0.92857	48	87646	0.87333
9	93736	0.93443	24	92627	0.93182	49	87253	0.87090
10	93679	0.93220	25	92504	0.92029	50	86828	0.86466
11	93624	0.93220	26	92377	0.92361	51	86368	0.86207
12	93569	0.93548	27	92244	0.92000	52	85868	0.85512
13	93511	0.93939	28	92106	0.91667	53	85325	0.85057
14	93449	0.94444	29	91963	0.92547	54	84733	0.84314
15	93381	0.92405	30	91814	0.91617	55	84088	0.83829
			31	91661	0.91379	56	83383	0.82956
			32	91502	0.91667	57	82614	0.82209
			33	91337	0.91444	58	81773	0.81327
			34	91166	0.91282	59	80854	0.80320
			35	90988	0.91133	60	79850	0.79335
			36	90803	0.90566	61	78752	0.78096
			37	90611	0.90541	62	77554	0.76896
			38	90410	0.90558	63	76246	0.75570
			39	90199	0.90204	64	74820	0.74033

Table V.2.10. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Referring to the Period 1993-2003

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.97171	15	94867	0.94805	40	91125	0.90975
1	95900	0.95827	16	94794	0.94505	41	90873	0.90728
2	95663	0.95828	17	94708	0.95238	42	90599	0.90303
3	95519	0.95831	18	94608	0.94167	43	90301	0.90305
4	95414	0.95275	19	94495	0.94737	44	89975	0.89899
5	95329	0.95225	20	94369	0.94444	45	89619	0.89425
6	95257	0.95466	21	94233	0.94079	46	89230	0.89121
7	95194	0.94968	22	94090	0.93671	47	88804	0.88403
8	95137	0.94611	23	93942	0.93789	48	88339	0.88235
9	95084	0.95216	24	93791	0.93789	49	87829	0.87579
10	95035	0.95121	25	93640	0.93789	50	87272	0.87000
11	94986	0.94967	26	93489	0.93711	51	86663	0.86252
12	94938	0.95106	27	93340	0.93038	52	85998	0.85630
13	94886	0.94342	28	93193	0.92994	53	85271	0.84813
14	94829	0.94681	29	93047	0.92994	54	84478	0.84062
15	94764	0.95163	30	92901	0.92405	55	83613	0.83230
			31	92755	0.93125	56	82670	0.82131
			32	92606	0.92121	57	81645	0.81091
			33	92454	0.92398	58	80530	0.79921
			34	92296	0.92179	59	79320	0.78657
			35	92131	0.92105	60	78008	0.77300
			36	91956	0.92079	61	76588	0.75828
			37	91770	0.91705	62	75054	0.74237
			38	91571	0.91453	63	73400	0.72523
			39	91357	0.91339	64	71621	0.70678

Step 4: Reverse Survival of Children

The children have been reverse-projected to birth by utilizing the C_x^a values presented in own-children data which are classified by single year of age and single year age of mother. In addition, ${}_1L_x$ estimates for children calculated by using under-five mortality rates described in Step 3 need to be utilised to compute the number of births for the 15-year prior to the survey. The formula to be applied is

$$M_{t-x}^{a-x} = K_x (C_x^a / {}_1L_x)$$

The following examples for each of the three surveys based on the household data nationwide are given so as to show the computational procedure of this step. The number of births using the urban-rural and five regions data which are not exemplified here are also reckoned by means of the same calculations.

TDHS-1993: In order to estimate the births occurring in 1983 to women aged 20, the procedure to be followed is (Table V.2.2 for C_x^a and Table V.2.8 for ${}_1L_{10}$)

$$\begin{aligned} M_{1983}^{20} &= K_{10} (C_{10}^{30} / {}_1L_{10}) = 1.0427(87 / 0.91358) = 99.30 \\ M_{1983}^{21} &= K_{10} (C_{10}^{31} / {}_1L_{10}) = 1.0427(54 / 0.91358) = 61.63 \\ B_{1983}^{20} &= (M_{1983}^{20} + M_{1983}^{21}) / 2 = (99.30 + 61.63) / 2 = 80.46 \end{aligned}$$

80.46 refers to the number of births occurred to 20-year old women in 1983.

TDHS-1998: Regarding the 34-year old women in 1986, the number of births they had are found to be 17.80 according to the following equation (Table V.2.3 for C_x^a and Table V.2.9 for ${}_1L_{12}$).

$$\begin{aligned} M_{1986}^{34} &= K_{12} (C_{12}^{46} / {}_1L_{12}) = 1.0744(18 / 0.93548) = 20.67 \\ M_{1986}^{35} &= K_{12} (C_{12}^{47} / {}_1L_{12}) = 1.0744(13 / 0.93548) = 14.93 \\ B_{1986}^{34} &= (M_{1986}^{34} + M_{1986}^{35}) / 2 = (20.67 + 14.93) / 2 = 17.80 \end{aligned}$$

TDHS-2003: When considering the number of births women aged 17 in 1998 has been calculated as 28.15 (Table V.2.4 for C_x^a and Table V.2.10 for ${}_1L_5$).

$$M_{1998}^{17} = K_5(C_5^{22}/L_5) = 1.0344(26/0.95225) = 28.24$$

$$M_{1998}^{18} = K_5(C_5^{23}/L_5) = 1.0344(26/0.95225) = 28.24$$

$$B_{1998}^{17} = (M_{1998}^{17} + M_{1998}^{18})/2 = 28.24$$

Table V.2.11, V.2.12 and V.2.13 show the estimated number of births in single year period for TDHS-1993, TDHS-1998 and TDHS-2003. Number of births for urban-rural and five regions are presented in Appendix D.

TABLE V.2.11

TABLE V.2.12

TABLE V.2.13

Step 5: Reverse Survival of Adult Females

To estimate the fertility rates for the period concerned in own-children method, the reverse projection of females required is figured out by employing the ${}_1L_x$ values of adult females estimated in Step 3. The equation for this procedure is

$$W_{t-x}^{a-x} = W_t^a ({}_1L_{a-x} / {}_1L_a)$$

Some examples are given in order to display the computational procedure of this stage concerning the overall survey population in TDHS-1993, TDHS-1998 and TDHS-2003. The number of women for each of the 15-year period as regards urban-rural and five regions has also been calculated by following the same strategy.

TDHS-1993: Concerning the women aged 42, the mid-year population of these females 11 years preceding the survey is found to be 170.90 (Table V.2.2 for W_t^a and Table V.2.8 for ${}_1L_x$).

$$W_{1982}^{42} = W_{1993}^{53} ({}_1L_{42} / {}_1L_{53}) = 191(0,8583 / 0,8088) = 202.69$$

$$W_{1981}^{42} = W_{1993}^{54} ({}_1L_{42} / {}_1L_{54}) = 130(0,8583 / 0,8021) = 139.12$$

$$N_{1982}^{42} = (202.69 + 139.12) / 2 = 170.90$$

TDHS-1998: By using the values provided in Table V.2.3 and Table V.2.9, the mid-year (1991/92) female population aged 38 is calculated as 194.31.

$$W_{1992}^{38} = W_{1998}^{44} ({}_1L_{38} / {}_1L_{44}) = 174(0,90557 / 0,88588) = 177.78$$

$$W_{1991}^{38} = W_{1998}^{45} ({}_1L_{38} / {}_1L_{45}) = 206(0,90557 / 0,88515) = 210.75$$

$$N_{1992}^{38} = (177.78 + 210.75) / 2 = 194.31$$

TDHS-2003: The reverse projection of 28-year old adult females to the mid year (2000/01) is done according to the following computations (Table V.2.4 for W_t^a and Table V.2.10 for ${}_1L_x$).

$$W_{2001}^{28} = W_{2003}^{30} ({}_1L_{28} / {}_1L_{30}) = 414(0,92994 / 0,92405) = 416.64$$

$$W_{2000}^{28} = W_{2003}^{31} ({}_1L_{28} / {}_1L_{31}) = 305(0,92994 / 0,93125) = 304.57$$

$$N_{2001}^{28} = (416.64 + 304.57) / 2 = 360.60$$

Table V.2.14, V.2.15 and V.2.16 displays the estimated number of adult females in single year periods derived from TDHS-1993, TDHS-1998 and TDHS-2003. Number of women related to the urban-rural and five regions are presented in Appendix E.

TABLE V.2.14

TABLE V.2.15

TABLE V.2.16

Step 6: Computation of Age-Specific Fertility Rates

As the number of births and women for each of the 15 years are known, the single year age-specific fertility rates (ASFRs) denoted by $f_{t-x}(a)$ can be easily computed according to the following formula:

$$f_{t-x}(a) = B_{t-x}^a / N_{t-x}^a$$

The calculation of five-year age-specific fertility rates is carried out using the equation shown below:

$$f_{t-x}(i) = [F(10 + 5(i + 1)) - F(10 + 5i)] / 5$$

where i refers to the number of age groups.,

To demonstrate the procedure of finding age-specific fertility rates by single year of age and five-year age group regarding the whole country, following examples are given.

TDHS-1993: To calculate the ASFR of women aged 20 for the 15th year prior to the survey, the number of births occurred in 1979 to 20-year old women are divided by the number of all women aged 20 in that year.

$$f_{1979}(20) = B_{1979}^{20} / N_{1979}^{20} = 69.38 / 261.31 = 0.2655$$

The ASFR for 15-19 in 1979 is computed as according to the following equation:

$$\begin{aligned} f_{1979}(1) &= (f_{1979}(15) + f_{1979}(16) + f_{1979}(17) + f_{1979}(18) + f_{1979}(19)) / 5 \\ f_{1979}(1) &= (0.0515 + 0.0701 + 0.1088 + 0.1529 + 0.2041) / 5 = 0.1175 \end{aligned}$$

Estimated single year rates by single year and five year age of mother, three year and five year fertility rates by five-year age group derived from TDHS-1993 are presented in Table.V.2.17, V.2.18, V.2.19 and V.2.20 respectively.

TDHS-1998: The ASFR of women at age of 35 in 1989 is found by employing the equation illustrated below:

$$f_{1989}(35) = B_{1989}^{35} / N_{1989}^{35} = 16.04 / 195.57 = 0.0820$$

The ASFR of 35-39 in 1989 is calculated as 0.0555 by aggregating the related ages in that age group.

$$f_{1989}(5) = (f_{1989}(35) + f_{1989}(36) + f_{1989}(37) + f_{1989}(38) + f_{1989}(39)) / 5$$

$$f_{1989}(1) = (0.0820 + 0.0797 + 0.0573 + 0.0369 + 0.0215) / 5 = 0.0555$$

Estimated single year rates by single year and five year age of mother, three year and five year fertility rates by five-year age group derived from TDHS-1998 are presented in Table.V.2.21, V.2.22, V.2.23 and V.2.24 respectively.

TDHS-2003: In order to find the ASFR for both women aged 43 in 2002 and their age group, following computations are carried out:

$$f_{2002}(43) = B_{2002}^{43} / N_{2002}^{43} = 2.10 / 270.57 = 0.0078$$

$$f_{2002}(6) = (f_{2002}(40) + f_{2002}(41) + f_{2002}(42) + f_{2002}(43) + f_{2002}(44)) / 5$$

$$f_{1979}(1) = (0.0117 + 0.0089 + 0.0148 + 0.0078 + 0.0021) / 5 = 0.0091$$

Estimated single year rates by single year and five year age of mother, three year and five year fertility rates by five-year age group derived from TDHS-2003 are presented in Table.V.2.25, V.2.26, V.2.27 and V.2.28 respectively.

For urban-rural and five regions, estimated single year rates by single year and five year age of mother, three year and five year fertility rates by five-year age group derived from each of the three surveys are shown in Appendix F.

TABLE V.2.17

TABLE V.2.18-20

TABLE V.2.21

TABLE V.2.22-24

TABLE V.2.25

TABLE V.2.26-28

FIGURE V.2.1

Figure V.2.1 displays the estimated single-year total fertility derived from TDHS-1993, TDHS-1998 and TDHS-2003. Annual fluctuations in the own-children estimates of fertility for each of the three surveys are apparently seen from the figure. The estimates obtained from own-children for TDHS-1993 show a more jagged pattern than the ones for TDHS-1998 and TDHS-2003. In fact, these immediate fluctuations are the indicator for inaccurate age reporting.

In TDHS-1993, the peaks and troughs are observed especially for the 10-12th, years before the survey (Figure V.2.1). The information about age for these calendar years belongs to the 9-11 year old children respectively at the time of survey. Heaping on age 10 inflates the birth rate estimates for the 11th year prior to the survey producing overestimates of fertility. The quality of age reporting which is moderate in TDHS-1993 is also indicated by Myers Index explained in Chapter V.1, which is 16.8 for males, 15.7 for females and 16.7 for the total. The spurious trends owing to the overestimation and underestimation for the 9th, 10th and 11th can be explained by the considerable preference for ages with terminal digit 0 and the avoidance of ages ending with 1 and 9 in TDHS-1993.

The year-to-year fluctuations in the fertility estimates due to age heaping also exist in TDHS-1998. The 10th and 8th years preceding the survey reflect underenumeration of the 9 and 7 year old children. As a result of this, large fertility declines occur due to this deficiency. In addition, faulty reporting for the ages 8 and 6 in the form of upward rounding results in unexpected rise for the 9th and 7th which are also consistent with the findings of the Myers Index.

In TDHS-2003, the fluctuations are at its lowest due to the fact that age reporting has been improved in the course of time. In fact, the digit preference has been computed as 6.6 and 8.3 for males and females respectively referring a high quality of age reporting. Fertility estimates for TDHS-2003 show a somewhat smoother pattern when compared to TDHS-1993 and TDHS-1998. However, fertility estimates for the second and the thirteenth year prior to the survey seem to be low because children of ages 1 and 12 may be ignored (Figure V.2.1).

Table V.2.29. Single Year Total Fertility Estimates
Computed from Own-Children Method for TDHS-
1993, TDHS-1998 and TDHS-2003

Years	Estimated Total Fertility Rates		
	TDHS-1993	TDHS-1998	TDHS-2003
1978/79	4.90		
1979/80	5.15		
1980/81	5.09		
1981/82	4.14		
1982/83	4.73		
1983/84	3.83	4.05	
1984/85	4.26	4.02	
1985/86	3.86	3.93	
1986/87	3.34	3.45	
1987/88	2.88	3.54	
1988/89	2.93	3.09	3.33
1989/90	2.66	3.55	3.38
1990/91	2.41	3.10	2.87
1991/92	2.27	3.48	3.04
1992/93	2.66	2.78	2.92
1993/94		2.80	2.73
1994/95		2.65	2.92
1995/96		2.47	2.84
1996/97		2.68	2.67
1997/98		2.77	2.58
1998/99			2.49
1999/00			2.69
2000/01			2.48
2001/02			2.06
2002/03			2.13

Own-children estimates of fertility are available from three surveys taken five years apart and each survey yield a 15-year fertility trend. Therefore, these three trends overlap during the five years immediately preceding the first of the three surveys. Between 1989 and 1993, fertility estimates are expected to overlap. However, the three trends overlap poorly (Figure V.2.1 and Table V.2.29). Besides, the trends of overall single-year estimated total fertility rates for TDHS-1993 and TDHS-1998 are expected to overlap during the ten years preceding TDHS-1993. Likewise, coinciding trends for TDHS-1998 and TDHS-2003 are expected again for

ten years prior to TDHS-1998. However, they only overlap for certain calendar years. For instance, for the calendar year of 1996/97 which is one of the intersection points for TDHS-1998 and TDHS-2003, own-children method estimates the overall total fertility rates as approximately 2.68. For 1993/94, own-children total fertility estimates are not very different from each other, yet they are not the same regarding the TDHS-1998 and TDHS-2003. Concerning the TDHS-1993 and TDHS-1998, the results for the period of 1985/86 and also for 1986/87 are not too different from each other, but they do not overlap again (Figure V.2.1 and Table V.2.29). In fact each trend has been destroyed in the same way by age misreporting and therefore they overlap poorly (Cho, Retherford and Choe, 1986).

Since reverse-projection is used to estimate birth rates by single years, they are derived from enumerated children classified by single year of age. Therefore, these estimates are usually not smooth. In addition to these, differential completeness of enumeration, age-misreporting and age-heaping will affect them substantially and a pattern of distortion in the estimated trends is revealed (UN, 1983). In fact, aggregated estimates over five year period can smooth out some of the peaks and troughs observed in the single-year fertility estimates.

The three-year total fertility rates by five-year age group estimated by means of own-children are displayed in Figure V.2.2, V.2.3 and V.2.4. The descending trend of fertility rates is more clearly seen from the estimates of three-year time period. In addition to these, a smoother structure without a jagged pattern with sharp peaks, which is a matter of fact in single-year estimates (Figure V.2.1), can be experienced in three-year fertility estimation.

The difference between the single-year and three-year total fertility estimates of TDHS-1993 is outstanding. In fact, it is difficult to understand the gradual decline in overall total fertility rates from Figure V.2.1. However, a steady decrease can be easily observed from Figure V.2.2.

Figure V.2.2. The Own-Children Estimates of Overall Three-Year Total Fertility Rates Derived from TDHS-1993

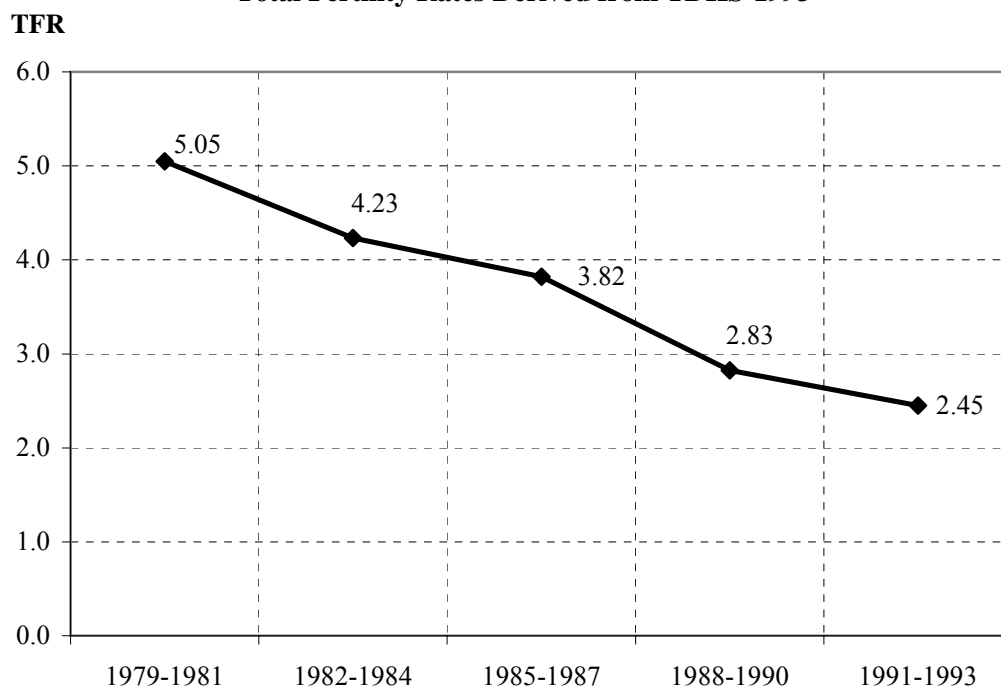
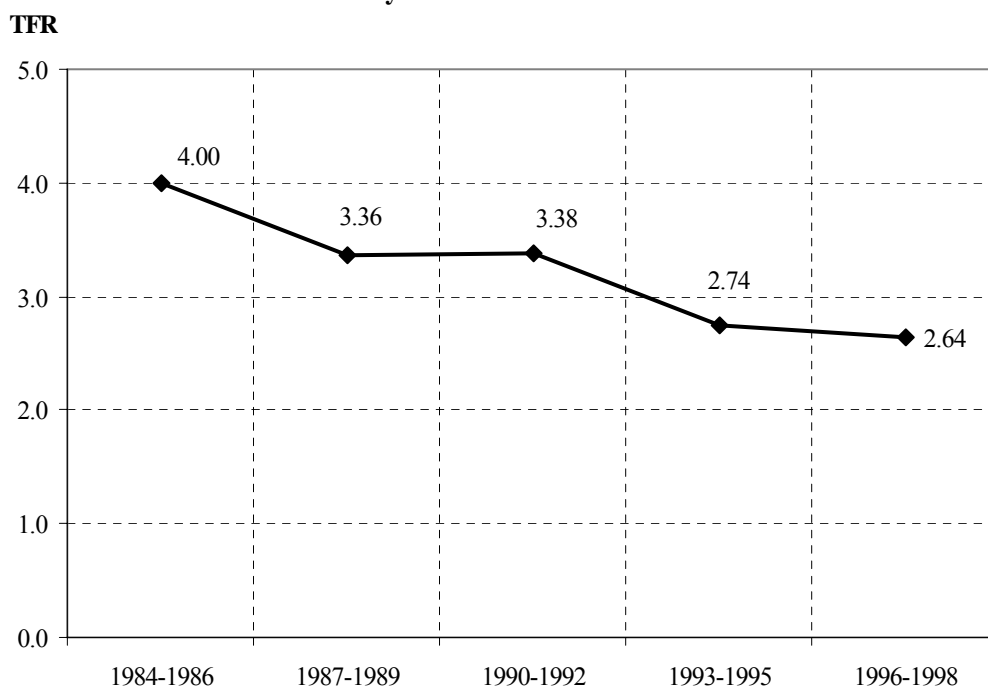
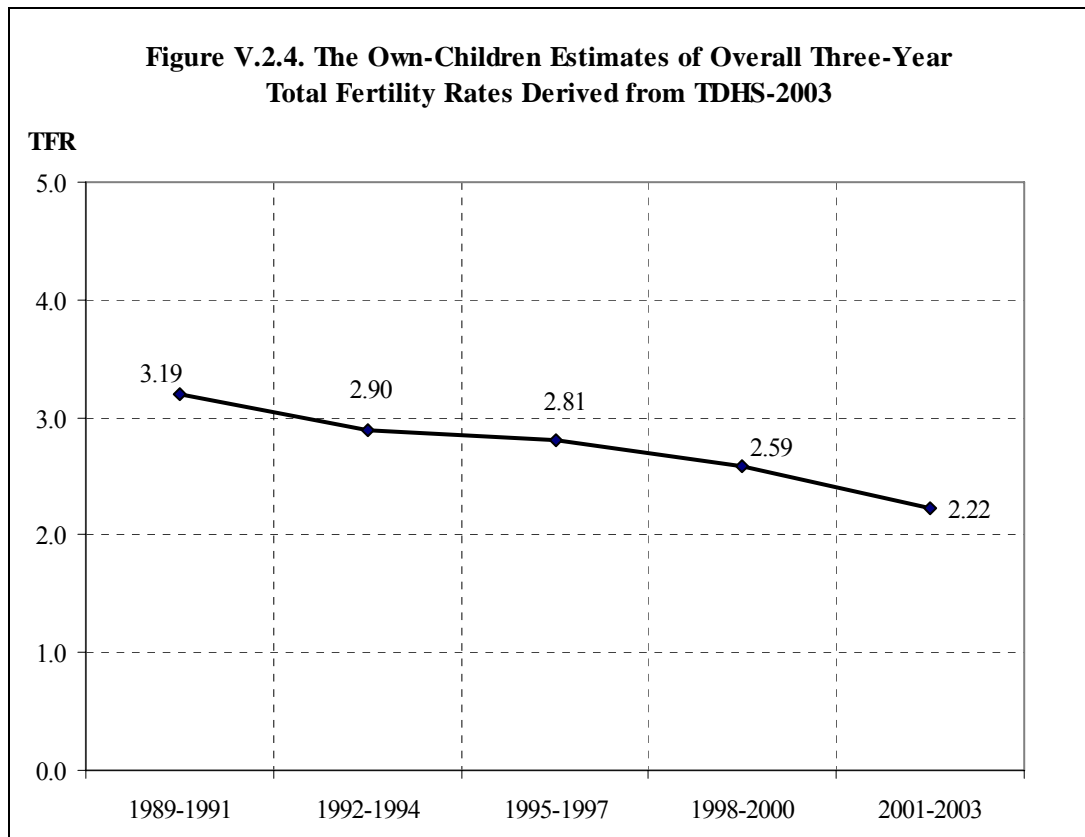


Figure V.2.3. The Own-Children Estimates of Overall Three-Year Total Fertility Rates Derived from TDHS-1998



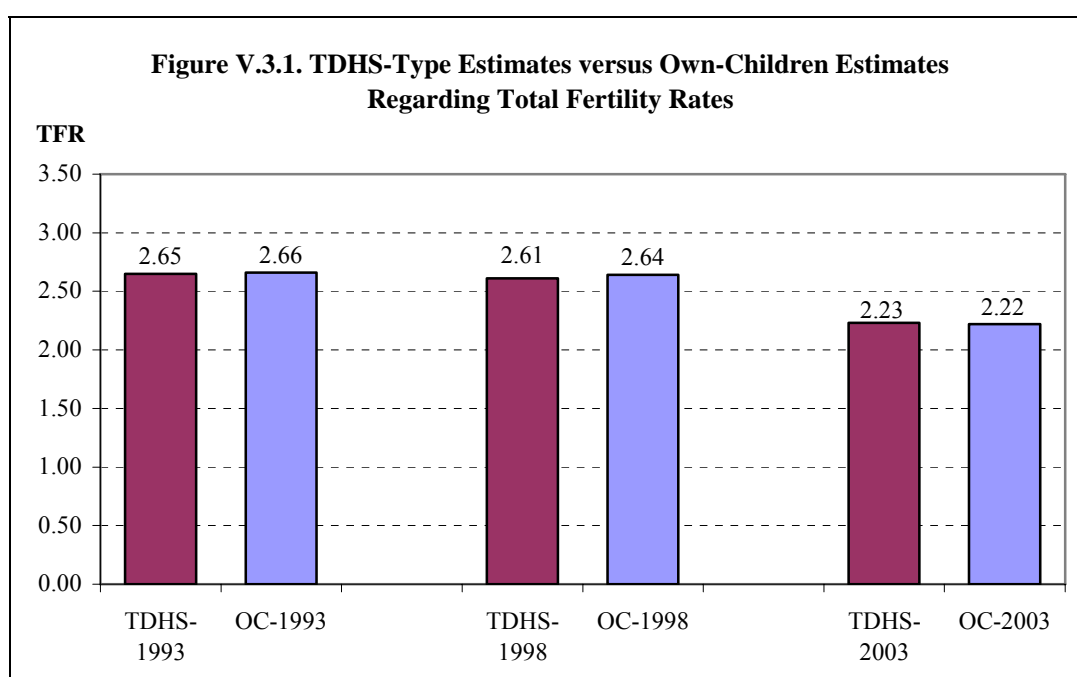


When compared to TDHS-1993 and TDHS-1998, TDHS-2003 has the smoothest pattern for both single-year and three-year total fertility estimates. Indeed, the more accurate the age reporting, the less smoother the fertility estimates are.

V.3. TDHS-TYPE FERTILITY ESTIMATION VERSUS FERTILITY ESTIMATES OF OWN-CHILDREN METHOD

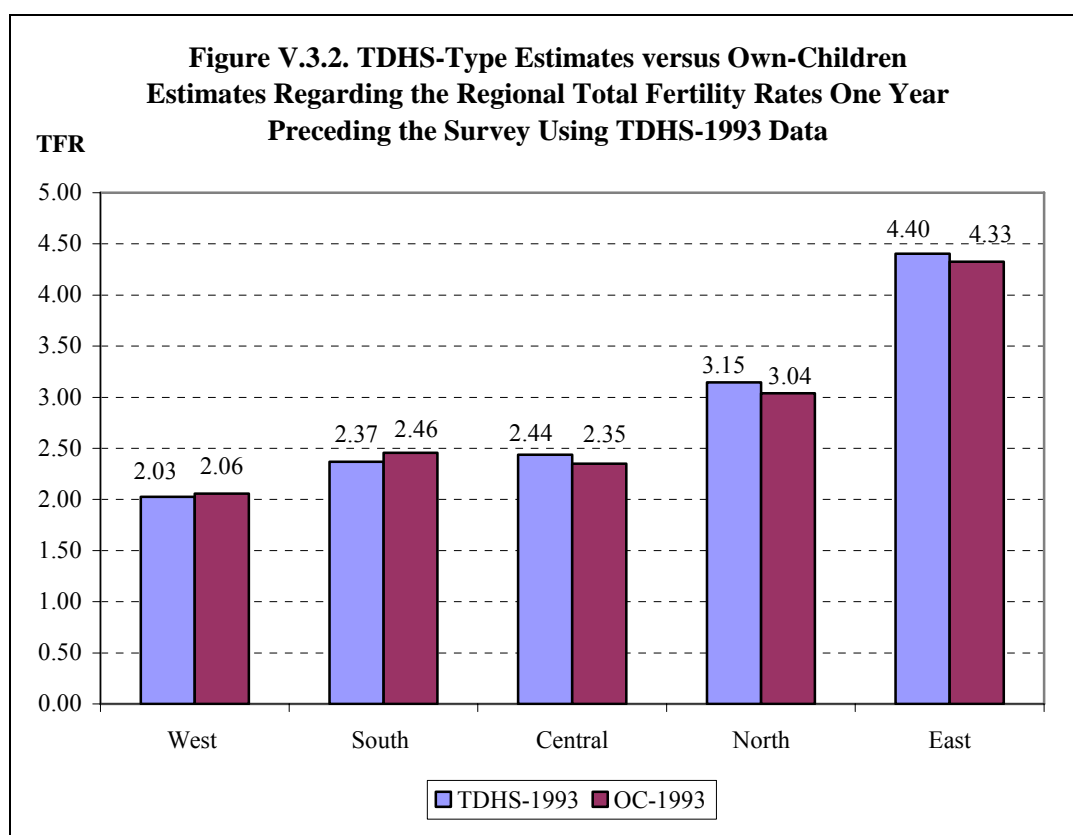
Own-children method has various advantages that make it more appealing to be used. However, the results of own-children method should be compared to the ones obtained from an existing survey or census in order to show the appropriateness of its utilization for fertility estimations. If the own-children method is found to be suitable, it can also be used as a validity check on fertility rates derived from other sources. Therefore, in this section, the comparison of fertility estimates derived from the application of own-children method to the Turkish Demographic and Health Surveys conducted in 1993, 1998 and 2003 with the estimates reckoned directly through these surveys has been made based on the three-years prior to the survey. Only the analyses related to the TDHS-1993 refer to one-year preceding the survey.

Table V.3.1 indicates the total fertility estimates derived from own-children method and TDHS. According to the findings of TFRs concerning the overall total fertility rates, the own-children estimates closely resemble those calculated by directly from these three surveys. In addition, in terms of type of residence and region own-children reflects almost similar results despite very slight differences.



The close agreement between the estimations of TDHS and the own-children method can be obviously determined from the Figure V.3.2, V.3.3 and V.3.4 related to five regions. For instance, own children estimate of total fertility rate in North for the three-year prior to the TDHS-1998 is exactly the same with that of TDHS-type (Figure V.3.3). Likewise, for the Eastern region, nearly the similar results have been calculated by TDHS-2003 and the own-children (Figure V.3.4).

The trend in total fertility for each of the five region existing in TDHS-1993, TDHS-1998 and TDHS-2003 is also valid for the regional estimates of the own-children method. In other words, findings figured out through the own-children suggest the regional differences in terms of the level of fertility decline. As regards the total fertility rates, the discrepancy between the East and and the other four regions which exists in TDHS-1993, TDHS-1998 and TDHS-2003 is also illustrated in the own-children esitmates.



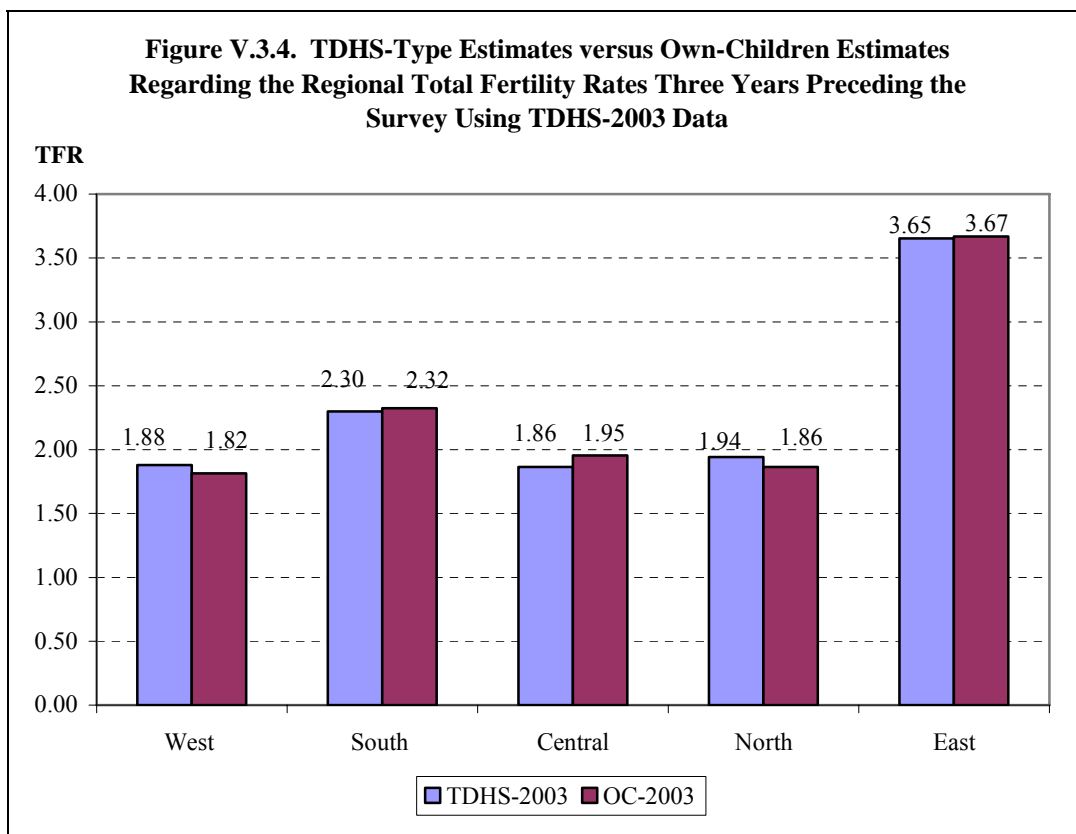
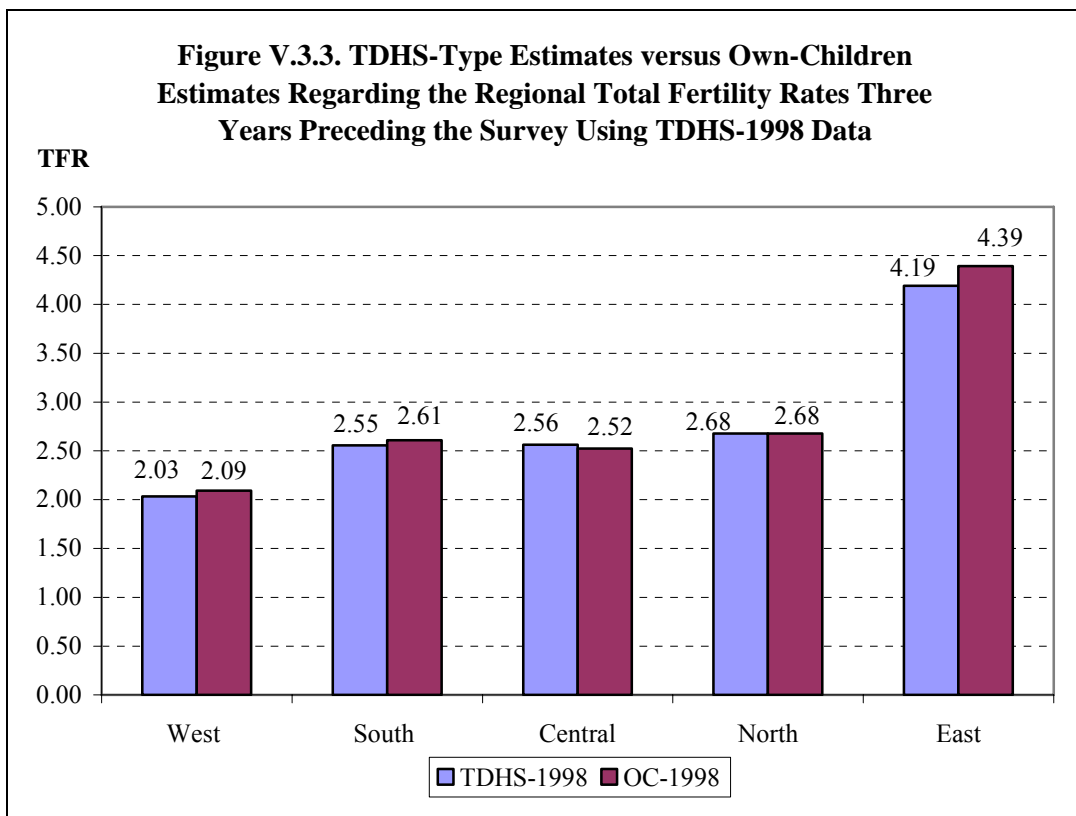


Table V.3.1. Differentiation in Own-Children (OC) and TDHS-Type Total Fertility Estimates

Background Characteristics	TDHS-1993	OC-1993	Difference Between TDHS and OC	Difference Between TDHS and OC (%)
Residence				
Urban	2.37	2.42	-0.05	2.11
Rural	3.10	3.08	0.02	-0.65
Region				
West	2.03	2.06	-0.03	1.48
South	2.37	2.46	-0.09	3.80
Central	2.44	2.35	0.09	-3.69
North	3.15	3.04	0.11	-3.49
East	4.40	4.33	0.07	-1.59
TOTAL	2.65	2.66	-0.01	0.38
Background Characteristics	TDHS-1998	OC-1998	Difference Between TDHS and OC	Difference Between TDHS and OC (%)
Residence				
Urban	2.39	2.41	-0.02	0.84
Rural	3.08	3.15	-0.07	2.27
Region				
West	2.03	2.09	-0.06	2.96
South	2.55	2.61	-0.06	2.35
Central	2.56	2.52	0.04	-1.56
North	2.68	2.68	0.00	0.00
East	4.19	4.39	-0.20	4.77
TOTAL	2.61	2.64	-0.03	1.15
Background Characteristics	TDHS-2003	OC-2003	Difference Between TDHS and OC	Difference Between TDHS and OC (%)
Residence				
Urban	2.06	2.05	0.01	-0.49
Rural	2.65	2.67	-0.02	0.75
Region				
West	1.88	1.82	0.06	-3.19
South	2.30	2.32	-0.02	0.87
Central	1.86	1.95	-0.09	4.84
North	1.94	1.86	0.08	-4.12
East	3.65	3.67	-0.02	0.55
TOTAL	2.23	2.22	0.01	-0.45

Figure V.3.5 and V.3.6 compares the total fertility estimates derived from the own-children method to the TDHS-type estimates on the basis of the rural and urban residences. According to the results of two approaches, there has been a significant similarity between the TDHS-type total fertility rates (TFRs) and the ones calculated by applying the own-children method to the TDHS-1993, TDHS-1998 and TDHS-2003. In fact, the difference between the estimates of TDHS and the own children is the smallest for TDHS-2003 in which TFR has been computed as 2.06 and 2.05 respectively. Besides, the total fertility rate in urban which is 2.39 in TDHS-1998 has been found to be 2.41 by employing the own-children method. Resembling results have also been attained for TDHS-1993 and TDHS-2003. The own-children estimates the total fertility rates as 2.42 for urban areas which is slightly higher than that of TDHS-type.

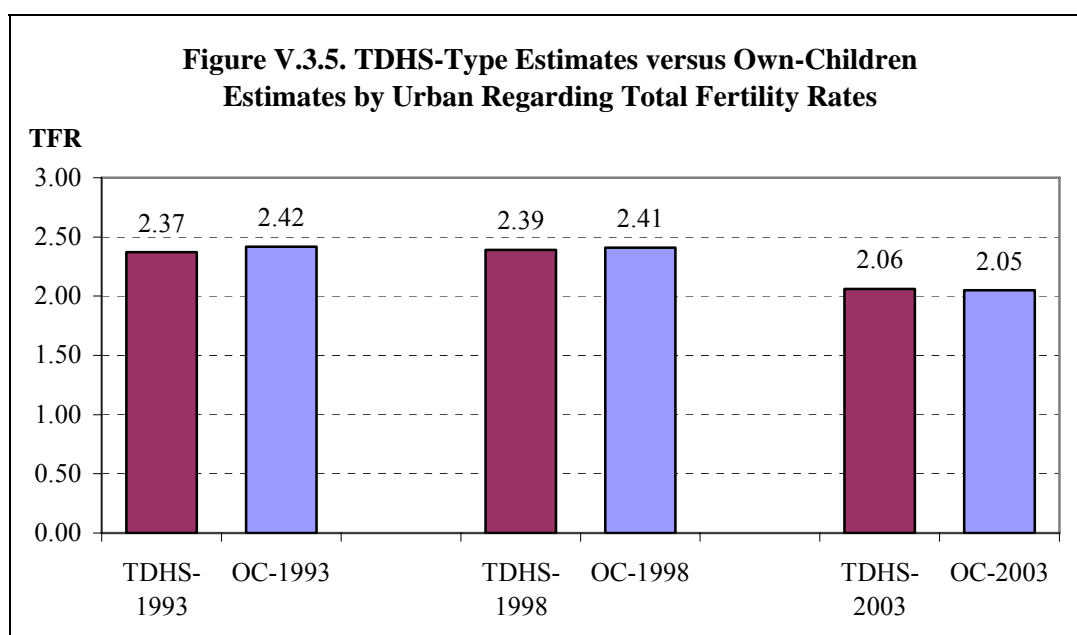
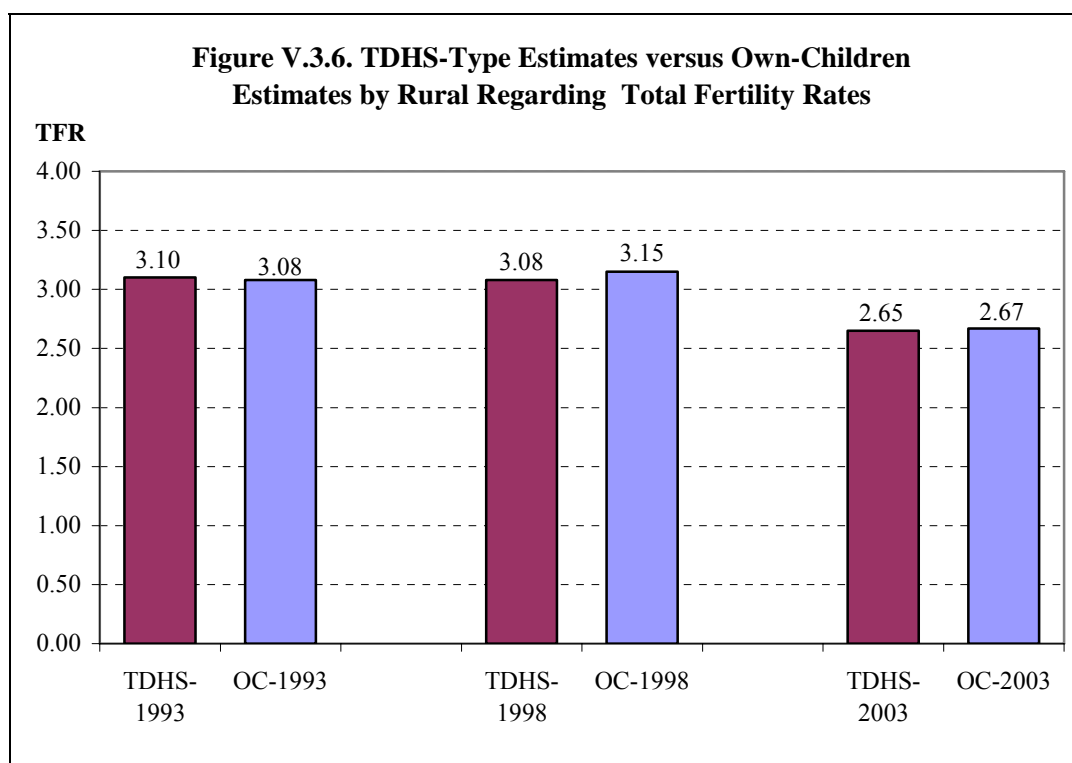


Figure V.3.6 shows the total fertility rates in TDHS-1993, TDHS-1998 and TDHS-2003 and the ones obtained from the same three data sources using own-children in terms of rural areas. The analyses of the TDHS-type and the own-children total fertility estimates for the rural areas indicate that two approaches considered can provide consistent fertility rates which are generally close to each other. According to the application of own-children method to TDHS-1993, TDHS-1998 and TDHS-2003, the total fertility rates in rural areas have been reckoned as 3.08, 3.15 and 2.67

respectively. As in the case of urban estimates, the discrepancy between the findings of the TDHS-type and the own-children in 2003 is minor when compared to the TDHS-1993 and TDHS-2003.

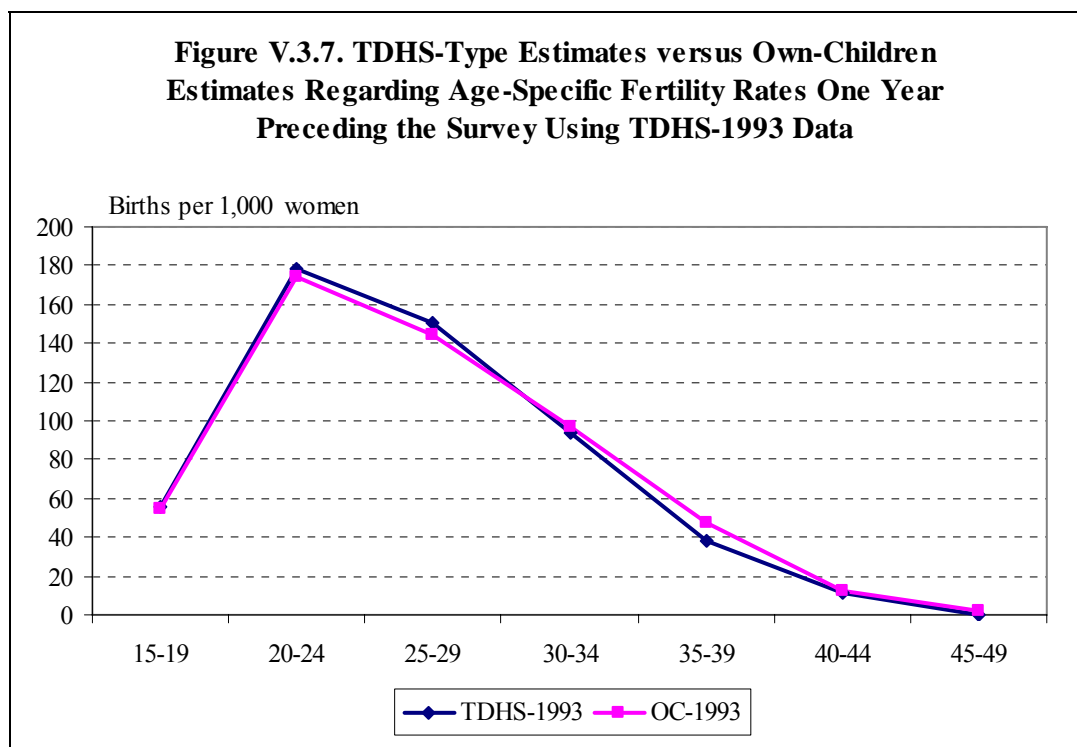


As well as total fertility rates, age-specific fertility rates (ASFRs) are outstanding aspects of fertility analyses since they help to explain the change in TFRs. Therefore, not only the total fertility rates, but also age-specific fertility rates derived from own-children method is needed to ensure a resemblance to the ones in surveys or censuses in order to consider the own-children method as an appropriate validity check. The accuracy of own-children estimates of fertility has been evaluated by comparing the overlapping estimates of age-specific fertility rates derived from TDHS-1993, TDHS-1998 and TDHS-2003.

The age-specific fertility rates derived from the own-children method by using the data sets of TDHS-1993, TDHS-1998 and TDHS-2003 and the ones computed directly from each of the three surveys are presented below.

TABLE V.3.2-4

Figure V.3.7 indicates the level of agreement between TDHS-type and own-children age-specific fertility estimates for 1993 data. Indeed, two estimates of ASFRs one year prior to the survey coincide reasonably close to each other especially for under the age of 24 and for the ages between 40-49, but a slight difference exists from 24 to 40.



On the other hand, age-specific fertility rates three years preceding the survey attained from the own-children and the TDHS demonstrate almost a perfect agreement for both TDHS-1998 and TDHS-2003 (Figure V.3.8 and V.3.9). TDHS-type and own-children for both 1998 and 2003 overlap almost completely when compared to TDHS-1993. However, a slight difference at the age group 20-24 and 25-29 which does not violate the agreement of two approaches is observed for TDHS-2003.

Figure V.3.8. TDHS-Type Estimates versus Own-Children Estimates Regarding Age-Specific Fertility Rates Three Years Preceding the Survey Using TDHS-1998 Data

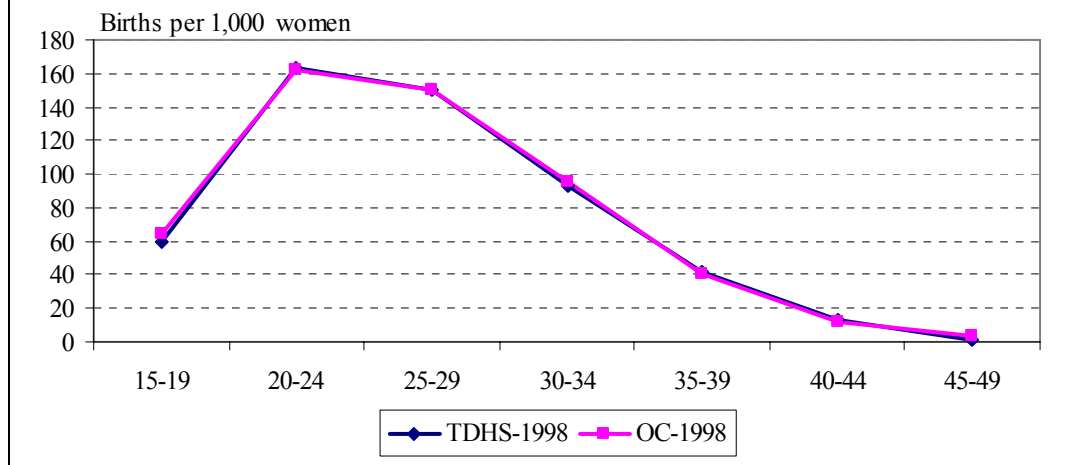
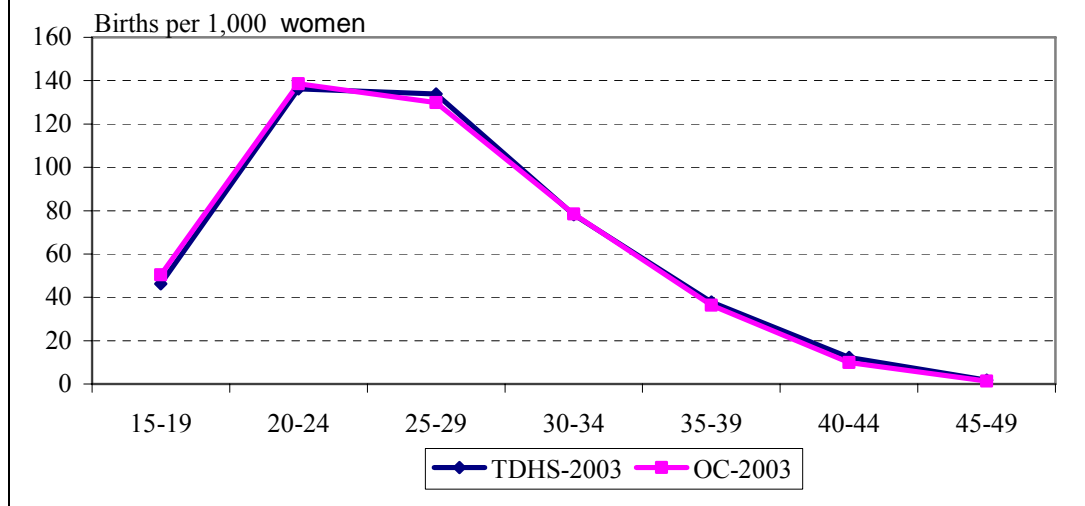


Figure V.3.9. TDHS-Type Estimates versus Own-Children Estimates Regarding Age-Specific Fertility Rates Three Years Preceding the Survey Using TDHS-2003 Data

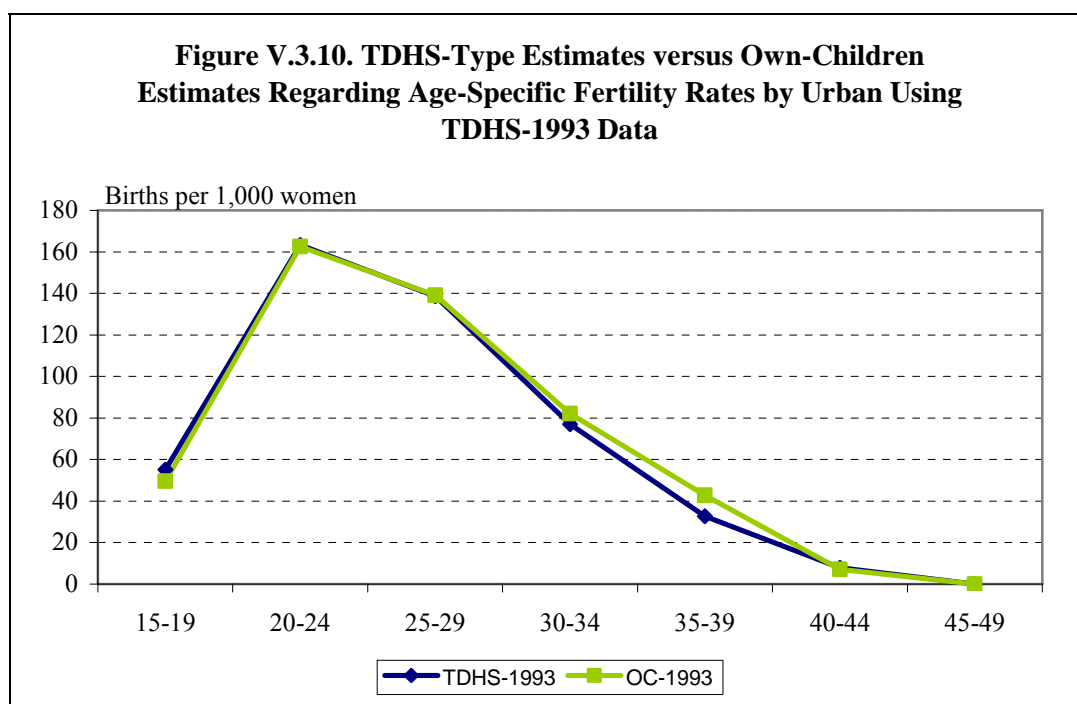


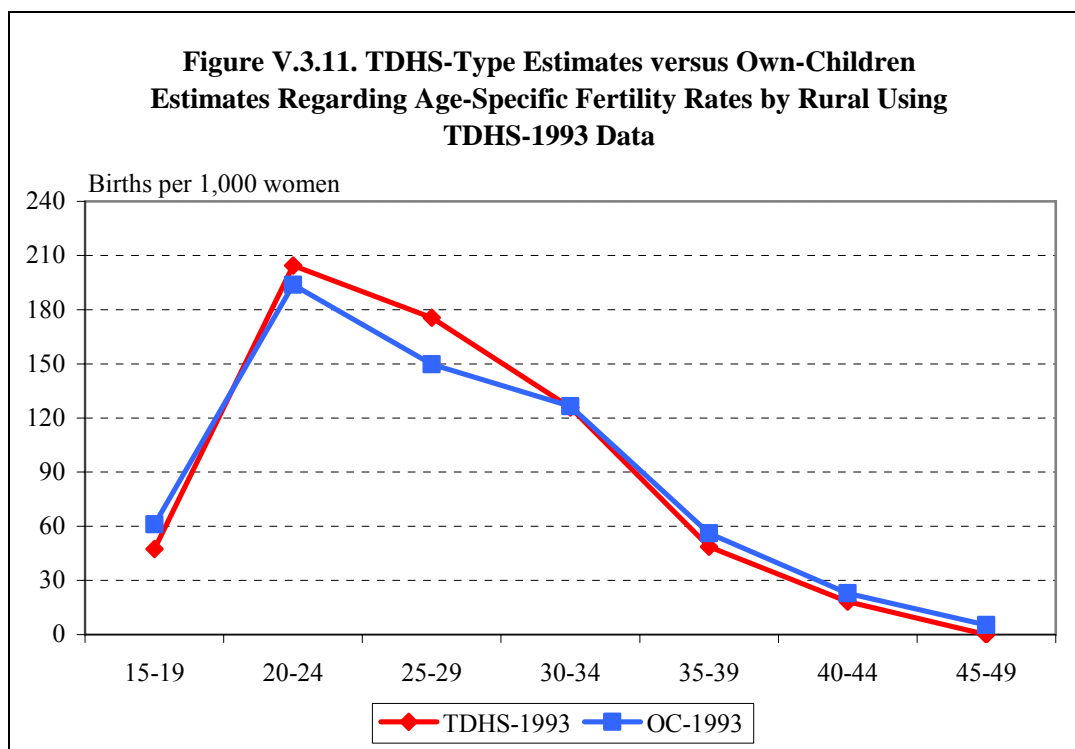
Considering the age-specific fertility rates in urban and rural areas for TDHS-1993, the resemblance between the findings of TDHS and the own-children still continues, which is presented in Figure V.3.10 and V.3.11.

To determine the level of agreement between two approaches in urban data, age-specific fertility rates which are derived from the TDHS itself and the own-

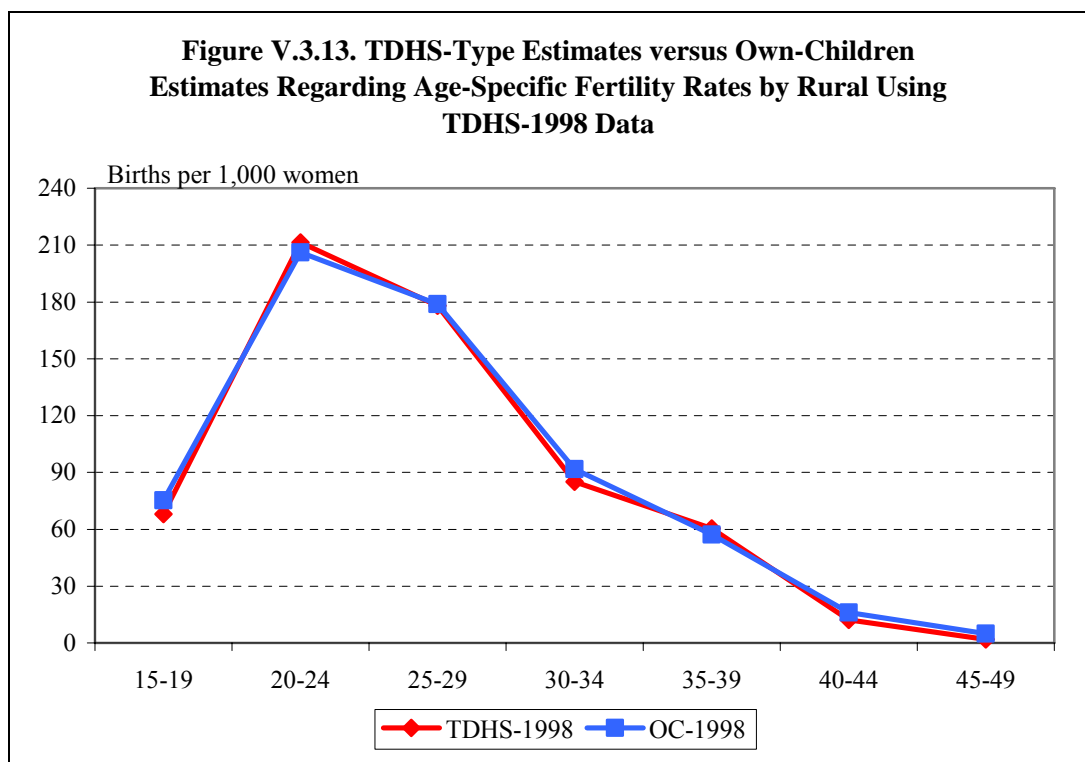
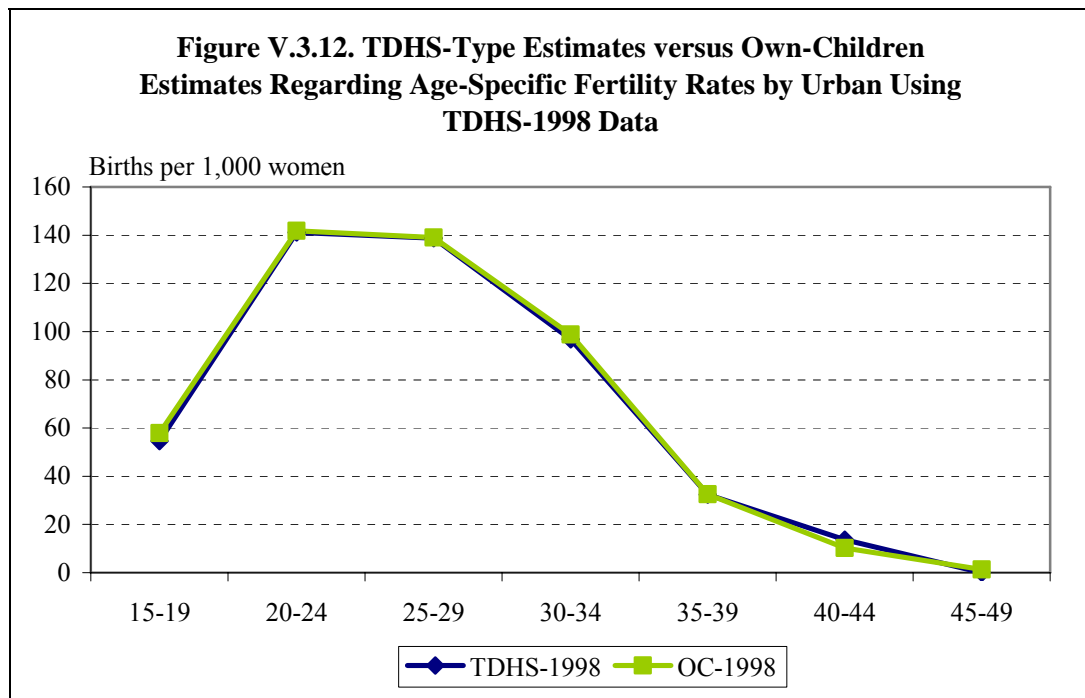
children method by utilising the household data of TDHS-1993 are also compared. It is apparently seen from the Figure V.3.10 that the own-children estimates are found to be consistent with the estimates of TDHS-type for the urban. Even if the TDHS-type age-specific fertility estimates are in line with those of own-children for urban areas, there are tiny differences appeared for the age groups of 30-35 and 35-39 (Figure V.3.10).

On the other hand, for the rural data, the discreteness between the age-specific fertility estimates of two approaches is more discernible especially for the age groups of 20-24 and 25-29 in TDHS-1993. However, a plausible agreement also exists for the ages over 30 (Figure V.3.11).





In TDHS-1998, it can be said that the TDHS-type and own-children estimates regarding the age-specific fertility rates in urban areas are almost fully overlapped similar to the TDHS-1998 overall age-specific fertility rates three years prior to the survey which is also presented in Figure V.3.8. Moreover, the consistency between the TDHS and own-children method has also been emphasized for the rural areas (Figure V.3.13). However, in TDHS-1998 such agreement and consistency has been more pronounced in the estimates of age-specific fertility rates of urban derived from both the TDHS itself and the own-children method.



The age-specific fertility estimates of TDHS and own-children methods obtained from 2003 household data concerning the rural and urban areas are displayed in Figure V.3.14 and V.3.15. The own-children method utilising the

TDHS-2003 urban data produces impressive results which are in line with the estimations derived from the TDHS itself as seen in the TDHS-1998. The similarity between the findings of the own-children method and the TDHS is also valid for the TDHS-2003 rural data regarding age groups of 30-34, 35-39, 40-44 and 45-49. For the ages beyond 30, however, some degree of differentiation has been revealed when the estimates of two approaches are compared

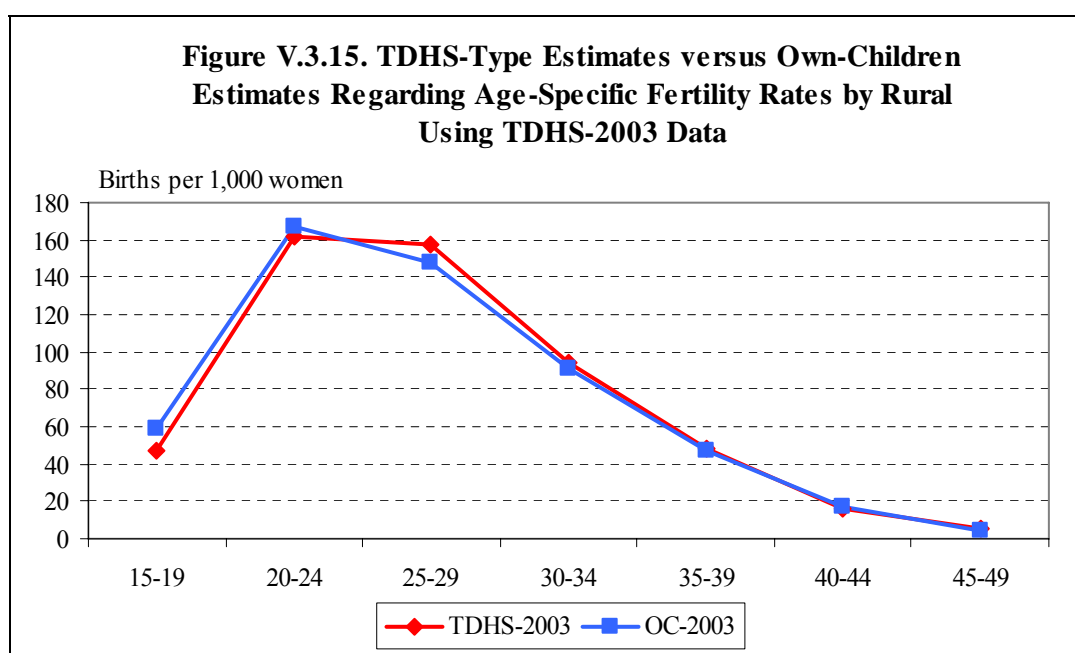
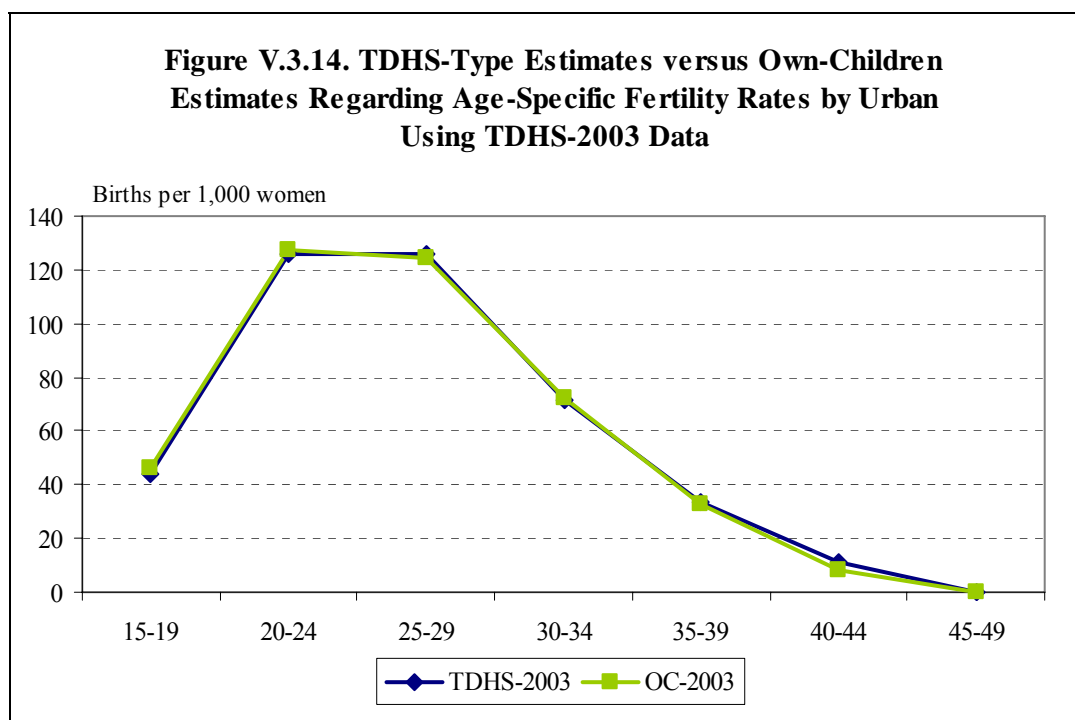
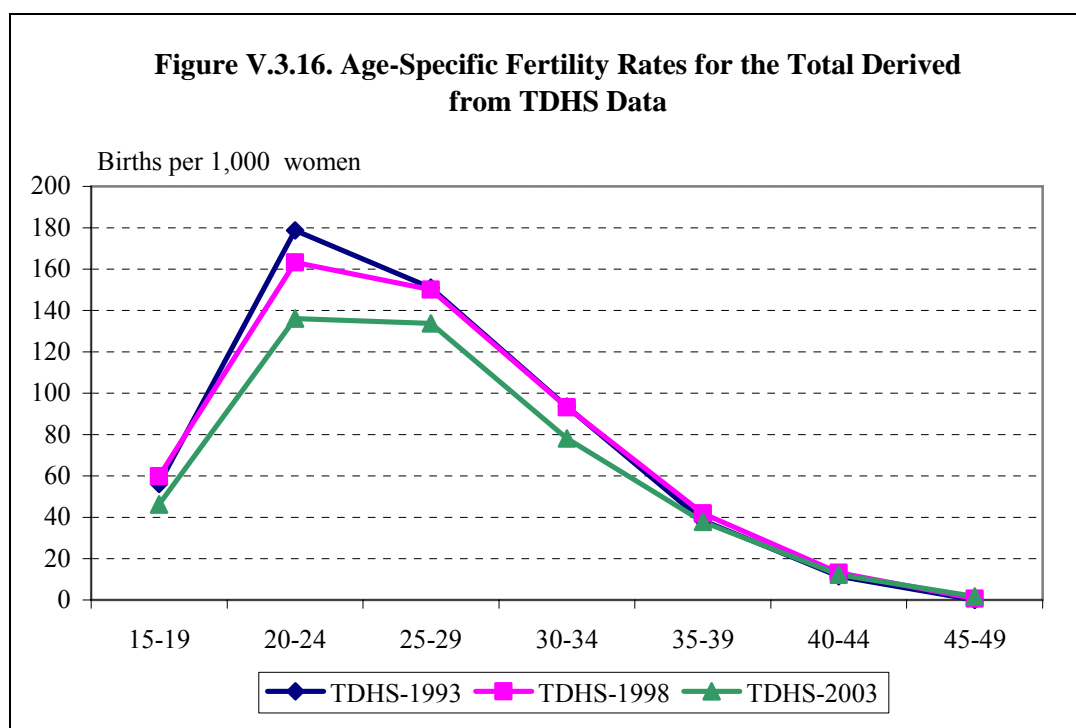
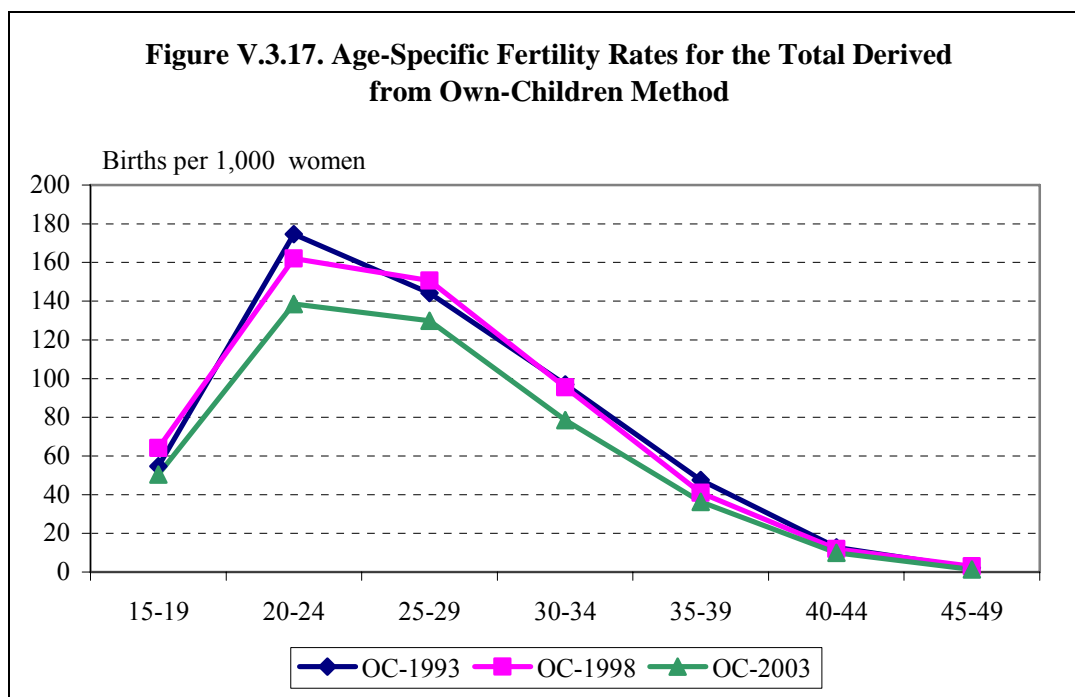


Figure V.3.16 and V.3.17 shows the differentiation in age-specific fertility rates computed by the TDHS itself and the own-children method by using the data sets of TDHS-1993, TDHS-1998 and TDHS-2003. The resembling patterns can be examined regarding the fertility rates of two approaches. In other words, the high level of fertility in younger ages according to the TDHS findings can also be seen from those of own-children. In addition to these, the fertility decline in the age group 20-24 in terms of own-children method is also emphasized in a similar way when compared to result of TDHS-type estimates. In fact, when the age-specific fertility estimates of TDHS-1993, TDHS-1998 and TDHS-2003 are compared to the results of the own-children methods separately, the agreement revealed between the TDHS-type and the own-children is more outstanding.

In fact, the similarity between two approaches regarding the age-specific fertility rates also leads to an overlapping estimates of total fertility derived from the TDHS and the own-children method for the three demographic and health surveys conducted in 1993, 1998 and 2003.





The own-children method has produced considerably accurate results for fertility estimations concerning the three-year period prior to the survey when compared to the TDHS-type. In addition, findings of own-children methods also need to be evaluated with those of TDHS when going further back to the survey whether the overlapping estimates for the three-year preceding the survey still exist. However, when assessing the estimates of two approaches over three years previous to the survey, age truncation is a significant barrier for TDHS-type estimations, because as the time prior to the survey increases, age groups considered in age-specific fertility rates progressively truncated. Therefore, the entire range of reproductive ages cannot be covered in the TDHS-type computations of fertility rates. On the other hand, the own-children method is at an advantage in terms of age truncation when compared to the TDHS-type fertility estimations. When the own-children method is applied to a survey or census, there is no need to deal with age truncation since it can produce fertility estimations for all women between the ages of 15 and 49 (Table V.3.5).

Table V.3.5. Age-Specific Fertility Rates for Five-Year Periods Prior to the Survey

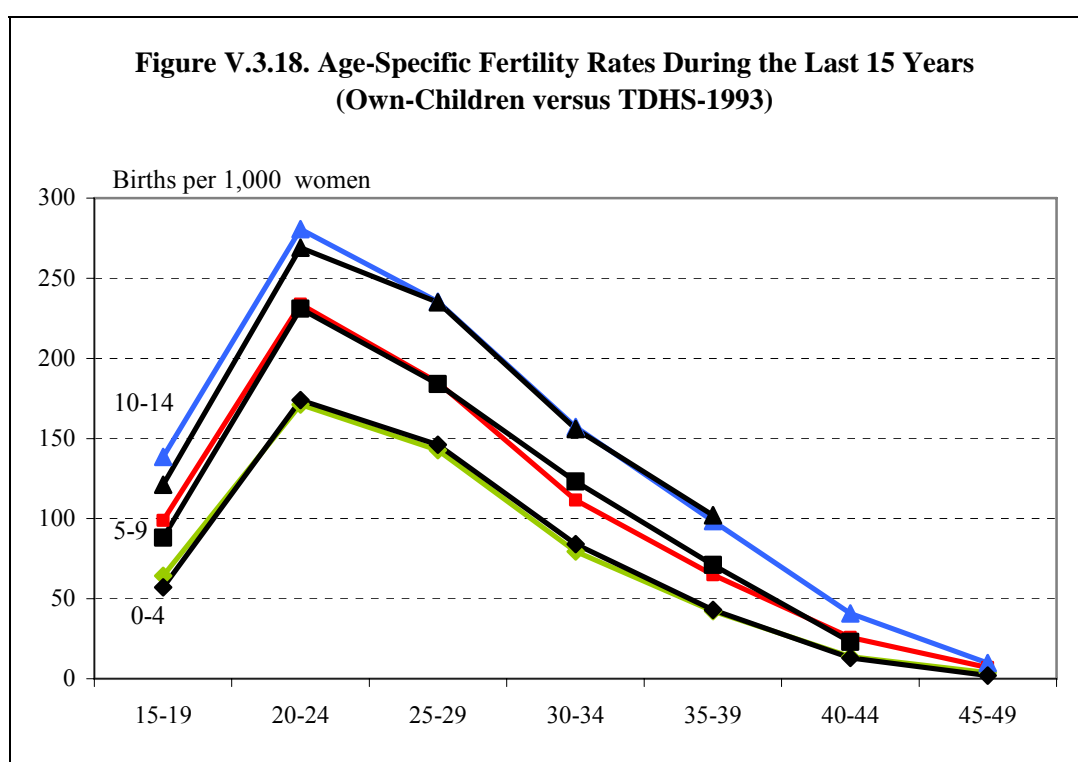
Mother's age	Number of years preceding the survey					
	0-4		5-9		10-14	
	TDHS-1993	OC-1993	TDHS-1993	OC-1993	TDHS-1993	OC-1993
15-19	57	64	88	99	121	138
20-24	174	171	231	234	269	281
25-29	146	143	184	185	235	235
30-34	84	80	123	111	156	157
35-39	43	42	71	65	[102]	98
40-44	13	14	[26]	26		41
45-49	[2] ¹⁰	4		7		10

Mother's age	Number of years preceding the survey					
	0-4		5-9		10-14	
	TDHS-1998	OC-1998	TDHS-1998	OC-1998	TDHS-1998	OC-1998
15-19	62	64	79	81	90	93
20-24	169	169	190	199	221	225
25-29	148	151	166	169	189	194
30-34	91	94	103	102	119	125
35-39	40	39	52	54	[70]	76
40-44	14	14	[20]	26		37
45-49	[1]	3		9		9

Mother's age	Number of years preceding the survey					
	0-4		5-9		10-14	
	TDHS-2003	OC-2003	TDHS-2003	OC-2003	TDHS-2003	OC-2003
15-19	51	53	61	66	86	89
20-24	142	147	180	180	200	200
25-29	141	141	156	149	159	161
30-34	84	83	103	99	96	97
35-39	38	38	37	37	[45]	47
40-44	12	10	[12]	14		24
45-49	[2]	2		3		4

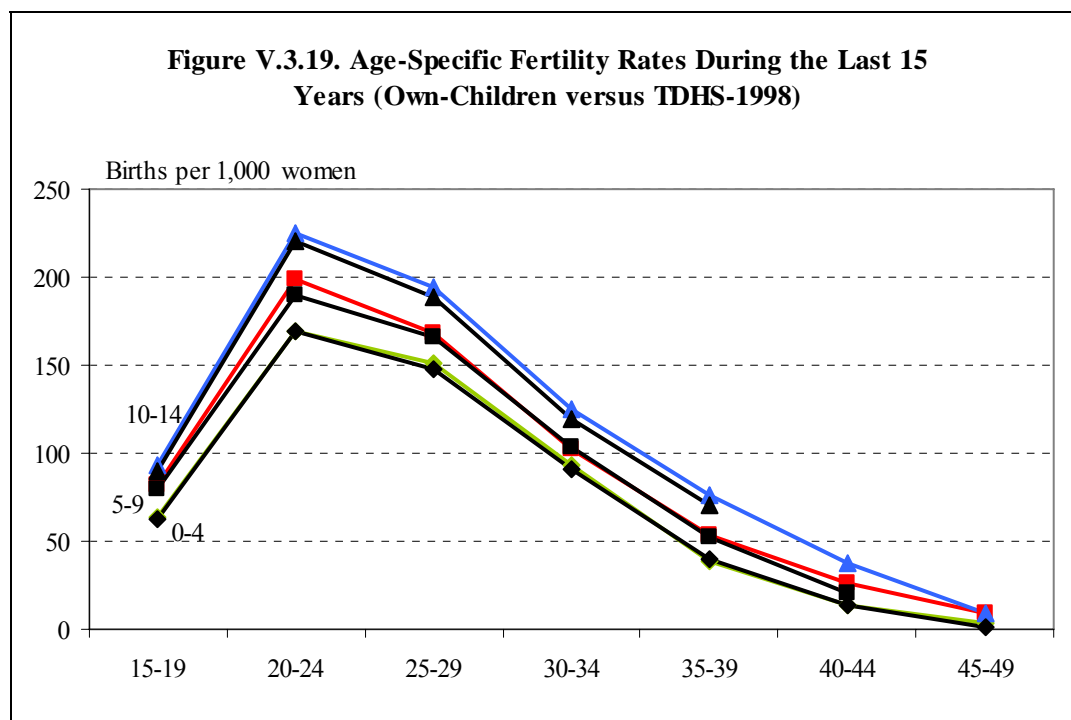
¹⁰ Estimates in brackets are truncated.

Black lines in Figure V.3.18-V.3.22 refer to the five-year periods age-specific fertility rates estimated by TDHS. Green, red and blue lines show the age-specific fertility rates computed by own-children method for 0-4, 5-9 and 10-14 years preceding the survey. For 5 to 9 years prior to the survey, 45-49 age group is devoid of TDHS-type estimations. Besides, ages above 39 cannot be included in the analyses of age-specific fertility rates for the period of 10-14 years. Therefore, it is not possible to evaluate the agreement between TDHS-type estimates and own-children for the other age groups.



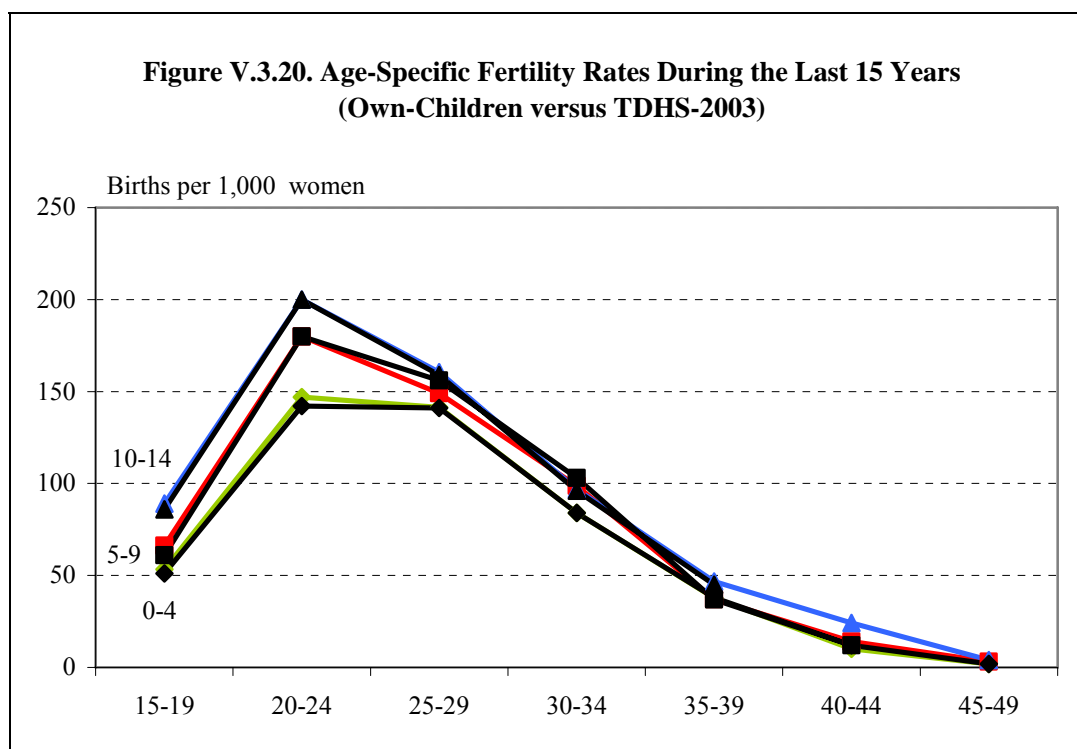
Based on the five-year periods prior to the survey, the consistency between two approaches still exists in TDHS-1993 (Figure V.3.18). Regarding the first five-year period preceding the survey, there is a small difference for the 15-19 age group while age-specific fertility rates derived from own-children and TDHS itself fully agree for the rest of the age-groups. For the second five-year periods, resembling fertility estimates are valid for 20-24, 25-29 and 40-44 age groups. Except these, findings of two approaches for other age groups slightly differentiate from each other. When concerning 10-14 period, overlapping results can be observed for the

ages between 25 and 39 whereas TDHS-type estimates are lower than that of own-children for the ages below 25.



In Figure V.3.19, it is seen that own-children and TDHS-type fertility rates five years preceding the survey almost overlap for each of the age groups. For 5 to 9 years, own-children fertility estimates for 20-24 and 40-44 age groups are somewhat different from the ones computed directly in TDHS. Except these, other age groups have resembling rates derived from each method. Concerning the 10-14 years, own-children and TDHS-type estimates are similar for women between the ages of 15 and 24. Above 24, age-specific fertility rates calculated by means of own-children and TDHS are parallel to each other, yet TDHS-type estimates are lower when compared to own-children.

Figure V.3.20 displays the findings of two approaches for the five-year periods prior to TDHS-2003. Since it is difficult to choose resembling estimates from the same figure, the results of TDHS are presented in two more figures (Figure V.3.21 and Figure V.3.22) that make it easy to analyze.



Regarding 0-4 and 10-14 years preceding the survey, overlapping estimates can be obviously seen from Figure V.3.21. However, a tiny difference is revealed at the age group of 20-24 for 0 to 4 years. Concerning the second five-year period (Figure V.3.22), own-children estimates for 15-19, 25-29 and 30-34 differ from the ones in TDHS-type. However, the difference is more apparent for 25-29. Age-specific estimates derived from own-children and directly from TDHS for the other age groups coincide close to each other.

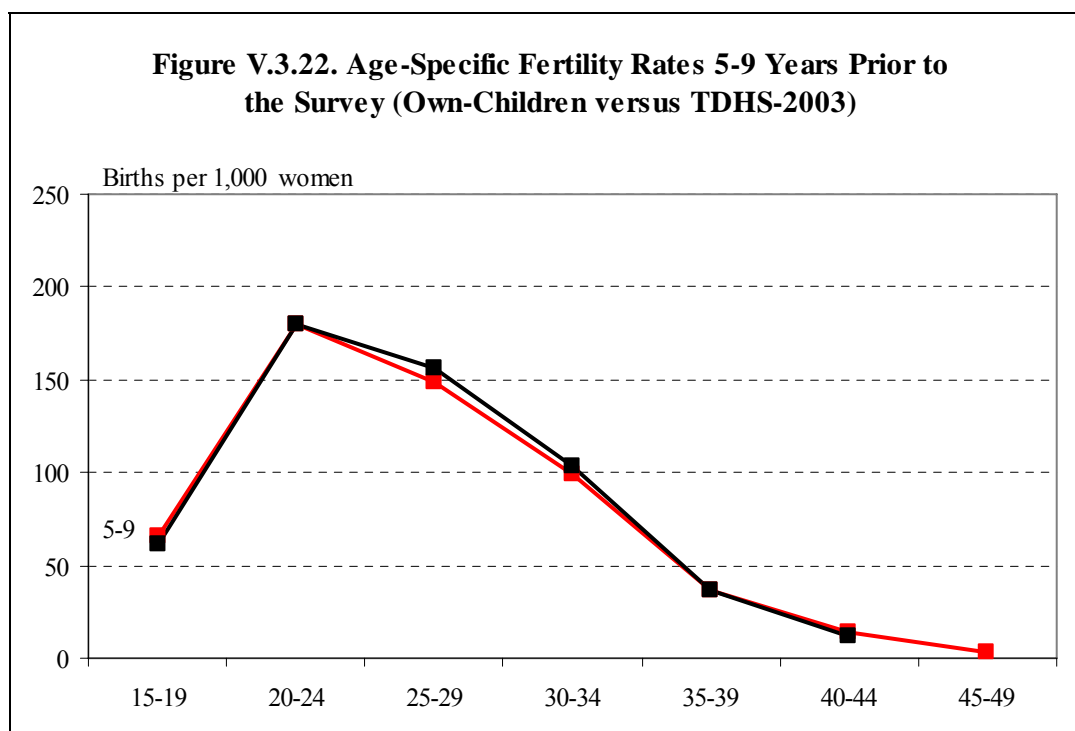
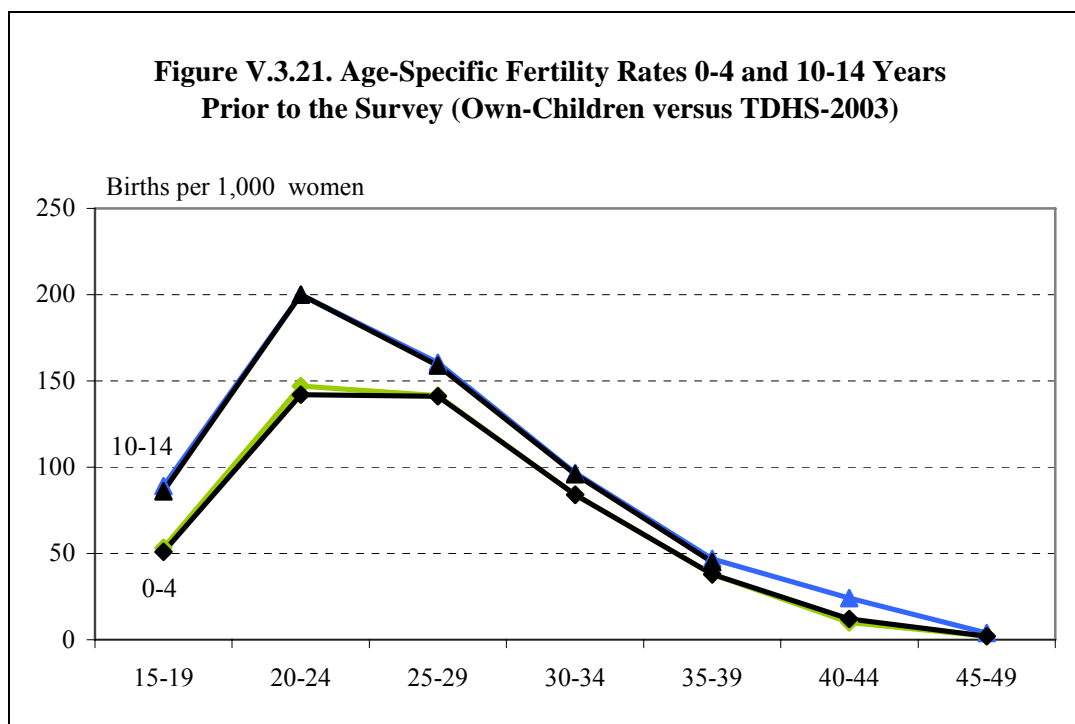


Table V.3.6 shows the cumulative fertility rates up to the age of 35, CFR (35). Total fertility rates 3-year preceding the survey are used to compare the own-children method estimates with those of TDHS. However, if one goes back more

than 3 years, total fertility rates cannot be computed from TDHS itself owing to the age truncation. Therefore, these cumulative rates have been calculated for the evaluation of two approaches for the five-year periods preceding the survey.

Table V.3.6. Cumulative Total Fertility Rates up to Age 35, CFR(35), Derived from TDHS and Own-Children Method (OC)

Numbers of year preceding the survey	Cumulative Total Fertility Rates up to Age 35					
	TDHS- 1993	OC-1993	TDHS- 1998	OC-1998	TDHS- 2003	OC-2003
0-4	2.31	2.29	2.35	2.39	2.09	2.12
5-9	3.13	3.14	2.69	2.76	2.50	2.47
10-14	3.91	4.06	3.10	3.19	2.71	2.73

CFRs(35) derived from the own-children method for each of the three surveys are mostly similar to those of obtained from TDHS. Among the five-year periods prior to the survey, the highest difference between two approaches reveals for 10-14 concerning the TDHS-1993. This fact is also valid for the results derived from TDHS-1998. On the other hand, CFRs(35) calculated by means of own-children and TDHS itself using the data of TDHS-2003 mostly differentiate for 0-4 and 5-9 year period when compared to the period from 10 to 14 years preceding the survey. In fact, CFR(35) estimates of two approaches for TDHS-2003 resemble to each other especially for 10-14. The similarity of the findings for TDHS-1993 is apparently observed for 5-9 whereas cumulative fertility rates attained from TDHS-1998 are quite different for each of the five-year period prior to the survey.

VI. CONCLUSION

In recent years, Turkey has experienced a rapid fertility decline which has been manifested by certain indicators such as age-specific fertility rates and total fertility rates. To compute these rates, direct methods are frequently employed based on the information obtained from censuses and demographic surveys. Indirect methods are rarely applied to estimate the fertility rates. In fact, own-children method is one of the indirect methods that has been utilised to figure out the levels and trends of fertility by using the current information about the age structure of women and children as well as their mortality pattern.

The initial objective was to apply the own-children method to three successive Turkish Demographic and Health Surveys conducted in 1993, 1998 and 2003. It is possible to assess the overall fertility trend as well as the age pattern of fertility in Turkey as of 1978 since each survey has provided a 15-year estimation period. Based on the results of own-children method, it has been indicated that overall fertility in Turkey has gradually decreased since the beginning of 1980s. However, fertility estimates have revealed annual fluctuations especially for TDHS-1993 concerning the total fertility rates. Such peaks and troughs have been most probably due to the age reporting errors. In fact, age and birth date reporting is relatively poor in Turkey, which is a potential risk not only for fertility analyses but also for other demographic analyses. According to the Myers Index providing the information about data quality, each of the three surveys may undergo age heaping which is the highest in TDHS-1993 when compared to the others. Therefore, measuring the quality of age reporting can be helpful to explain the variations in own-children fertility estimates. On the other hand, regarding the TDHS-2003 in which age heaping has been computed as the lowest by means of Myers Index, fertility estimates attained from own-children have been the smoothest. Furthermore, overlapping trends during the five years prior to the first of these three surveys have also been expected since more than one survey has been concerned. However, these three trends overlap poorly owing to the similar distortions as regards the age misreporting. Although errors related to age reporting have been prevailed, this has

not given a rise to significant bias in fertility indicators. Moreover, own-children method has also provided an analysis of age pattern. Fertility decline has also been experienced in each age group. Findings of own-children have marked that the highest fertility rate has been estimated for 20-24. In the light of these findings, own-children estimates are line with the overall declining trend in Turkey, which can be defined as accelerated and sustained.

This study further aimed at comparing the own-children fertility estimates with those computed directly from TDHS itself so as to find out whether own-children can be an alternative way of estimating fertility rates. Practical applications of own-children method have indicated that the method can provide reliable results of overall fertility level and the age pattern of fertility which are compatible with the ones derived from TDHS itself. As of 2003, total fertility rate estimated as 2.22 three years preceding the survey by means of own-children is almost the same when compared to the rate, which is 2.23, derived from TDHS-2003. This similarity between the results of own-children method and TDHS-type has also been experienced concerning the TDHS-1998 and TDHS-1993 despite very slight differences. In addition, regional differences in total fertility rates of own-children have been similar to the ones in TDHS. The sharp and resembling discrepancy between the West and the East manifested in TDHS-itself has been marked in own-children. For instance, total fertility rates attained form the application of own-children to TDHS-1993 have ranged from 4.33 children per woman in the East to 2.06 children per woman in the West while TDHS-type estimates are from 4.40 to 2.03. Furthermore, in terms of age-specific fertility rates three years prior to the survey, overlapping estimates of fertility trends for each of the three surveys have been impressive especially for TDHS-1998 and TDHS-2003 whereas slight differences at the age groups of 25-29 and 35-39 have been observed regarding the rates one year period preceding the TDHS-1993. When concerning the urban-rural breakdown, findings of own-children and TDHS-type have also been alike particularly in TDHS-1998. Indeed, far closer agreement than the one expected has been displayed for the fertility estimates of these two approaches. The precision of the own-children method can be said to be highly approved. Therefore, the own-

children method can be proposed to be used as validity check for other existing fertility estimates derived from different sources.

Fertility rates derived from the own-children method and TDHS that are mentioned above mostly refer to the three-year period preceding the survey. The age-specific fertility rates of the two approaches have also been compared when going further back to the survey. However, TDHS-type estimations are exposed to age truncation which is not a restriction for the own-children method. Indeed, when the analyses have been carried out for the five-year periods preceding the survey, age groups are gradually truncated in Turkish Demographic and Health Surveys whereas the entire reproductive age range can be fully covered by own-children method. Since total fertility rates five-year periods prior to the survey are not possible to be computed for TDHS-1993, TDHS-1998 and TDHS-2003, cumulative fertility rates up to 35, CFR(35), have been used to compare the own-children with TDHS-type estimates. In fact, similar results have been obtained again. In TDHS-2003, the most similar results have been revealed from 10 to 14 year prior to the survey while these resembling estimates have belonged to 0-4 period for TDHS-1998 and 5-9 for TDHS-1993. Even if there has been such an obstacle for TDHS-type estimations, overlapping results derived from each of the two methods has still exist.

These analyses have been done with the assumption of constant mortality for the whole estimation period. Basically, the own-children method provides the opportunity to employ different mortality schedules for different periods. An argument can come up whether to make the analyses by means of constant or changing mortality because it is believed that in the past, mortality was higher than the recent levels in Turkey. However, regarding TDHS-1993, TDHS-1998 and TDHS-2003, own-children method produces estimates which are compatible with the ones derived from the TDHS itself. At the same time, these remarkable results achieved by own-children method are also the indicator of appropriateness of the mortality assumption. Since satisfactory findings have been attained with fixed mortality, no attempt has been made for the utilisation of variable mortality assumptions.

Consequently, the own-children method can be proposed as an alternative for the birth history section of the individual questionnaires employed in Turkish Demographic and Health Survey. In birth history module, information about the birth date and age of each child alive as well as the dead ones owned by women has been retrospectively collected. However, this type of information is hard to be collected in Turkey since age and birth date reporting is found to be relatively poor. Apart from this, considerable effort is needed to obtain precise information due the low level of women's education and the recall problems. Although the birth history provides information for demographic analyses such as infant and child mortality rates, the fulfilment of this section in individual questionnaires is not only time-consuming but it also increases the workload. To sum up, since the own-children accurately estimates the fertility rates, this method can be utilised rather than TDHS-type fertility estimations. Besides, it might as well be a new option for demographic and health surveys in which the birth history section might be modified in order to make this part shorter and the fertility analyses might be carried out through own-children method.

VII. REFERENCES

Arriaga, E.E., (1994). *Population Analysis with MicroComputers: Presentation of Techniques*, U.S. Bureau of Census, Volume I, Washington D.C.

Behar, C., (1995). 'The Fertility Transition in Turkey: Reforms, Policies and Household Structure 1965-1980', in *Family, Gender and Population in the Middle East: Policies and Context*, Cairo, American University in Cairo Press, p.35-45.

Behar, C., Courbage, Y. and Gürsoy, A., (1999). 'Economic Growth or Survival? The problematic Case of Child Mortality in Turkey', *European Journal of Population* (15), p.241-278.

Bongaarts, J., (2003). 'Completing the Fertility Transition in the Developing World: The role of Educational Differences and Fertility Preferences', Population Council, Policy Research Working Paper, No.177.

Brown, A., (1982). *Estimating Fertility from Household Composition Data in the Census: The Own-Child Approach*, *Population Trends* (29), p.15-19.

Can, N. and Arslan Ş., (1997). 'Öz-ÇocukYöntemiyle Doğurganlığın Hesaplanması', in *Third Conference on Turkish Demography Volume I*, compiled by Hacettepe University Institute of Population Studies, Ankara, p.81-98.

Casterline, J.B., (2001). 'The Pace of Fertility Transition: National Patterns in the Second Half of the Twentieth Century', *Population and Development Review* 27, p.17-53.

Cerit, S., (1989). *Türkiye 'de Nüfus Doğurganlık Ölümlülük*, Ankara: Yeniçağ Basın-Yayın

Childs, G., (2004). *Demographic Analysis of Small Populations Using the Own-Children Method*. Field Methods, Volume 16, No.4, Sage Publications, Washington University, p.379-395.

Cho, L.J., Retherford, R.D. and Choe, M.K., (1986). *The Own-Children Method of Fertility Estimation*, East-West Center, University of Hawaii Press, U.S.A.

Duben, A. and Behar, C. (1996). *İstanbul Haneleri: Evlilik, Aile ve Doğurganlık 1880-1940*, İletişim Yayınları, İstanbul.

Ergöçmen, B., (1997). 'Türkiye'de Doğurganlığın Düzeyi ve Eğilimleri'. In *Third Conference on Turkish Demography Volume I*, compiled by Hacettepe University Institute of Population Studies, Ankara, p.163-171.

Ergöçmen, B., Hancıoğlu, A. and Ünalın, T., (1995). *Trends in Fertility, Family Planning and Childhood Mortality in Turkey: Findings from National Demographic Surveys and Population Censuses*, Ministry of Health, Hacettepe University Institute of Population Studies and Macro International Inc. Calverton, Maryland.

Hacettepe University Institute of Population Studies, (1980). *1978 Turkish Fertility Survey*, Hacettepe University, Institute of Population Studies, Ankara, Turkey.

Hacettepe University Institute of Population Studies, (1987). *1983 Turkish Population and Health Survey*, Hacettepe University, Institute of Population Studies, Ankara, Turkey.

Hacettepe University Institute of Population Studies, (1989). *1988 Turkish Population and Health Survey*, Hacettepe University Institute of Population Studies, Ankara, Turkey.

Hacettepe University Institute of Population Studies, (1994). *Turkish Demographic and Health Survey 1993*. Hacettepe University Institute of Population Studies, Ministry of Health and Macro International Inc., Ankara, Turkey.

Hacettepe University Institute of Population Studies, (1999). *Turkish Demographic and Health Survey 1998*, Hacettepe University Institute of Population Studies, Ministry of Health General Directorate of Mother and Child Health and Macro International Inc., Ankara, Turkey.

Hacettepe University Institute of Population Studies, (2004). *Turkish Demographic and Health Survey 2003*. Hacettepe University Institute of Population Studies, Ministry of Health General Directorate of Mother and Child Health and Family Planning, State Planning Organization and European Union, Ankara, Turkey.

Hancıoğlu, A., (1991). *Estimation of Levels and Trends in Mortality from Information on the Survival Status of a Closer Relative: Turkey 1970-1985*, Unpublished Doctoral Dissertation, Hacettepe Institute of Population Studies, Ankara, Turkey.

Hancıoğlu, A., (1997). 'Fertility Trends in Turkey: 1978-1993'. In *Fertility Trends, Women's Status and Reproductive Expectations in Turkey: Results of Further Analysis of the 1993 Turkish Demographic and Health Survey*, Hacettepe University Institute of Population Studies (HIPS) and Macro International Inc. (MI), Calverton, Maryland: HIPS and MI.

Koç, İ. and Özdemir E., (2004). 'Fertility'. In *Turkey Demographic and Health Survey, 2003*, Hacettepe University Institute of Population Studies, Ministry of Health General Directorate of Mother and Child Health and Family Planning, State Planning Organization and European Union, Ankara, Turkey.

Koray, S., (1997). 'Dynamics of Demography and Development in Turkey: Implications to the Potential For Migration to Europe', *The Turkish of Populaiton Studies* (19), p.37-55.

Retherford, R.D. and Mishra,V., (2001). '*An Evaluation of Recent Esitmates of Fertility Trends in India*', National Family Health Survey Subject Reports, November 2001, No.19, East-West Center, Population and Health Studies Honolulu, Hawaii, U.S.A.

Retherford, R.D. and Alam, I., (1985). '*Comparison of Fertility Trends Estimated Alternatively from Birth Histories and Own-Children*', Papers of the East-West Population Institute, No. 94 East-West Center Honolulu, Hawaii, U.S.A.

Retherford, R.D., Pejaranonda, C., Cho, L.J., Chamrathirong, A. And Arnold, F., (1979). '*Own-Children Estimates of Fertility for Thailand Based on the 1970 Census*', Papers of the East-West Population Institute, No.63 East-West Center, Honolulu, Hawaii, U.S.A.

Rutstein, S.O. and Bicego, C., (1990). Assessment of the Quality of Data Used to Ascertain Eligibility and Age in the Demographic and Health Surveys. In *An Assessment of DHS-I Data Quality*, DHS Methodological Reports No.1, compiled by Institute for Resource Development/Macro Systems, Columbia, Maryland, USA.

Shorter, F. and Macura M., (1982). *Trends in Fertility and Mortality in Turkey, 1935-1975*, Committee on Population and Demography, National Research Council Report No.8., National Academy Press, Washington D.C.

Shryock, H.S. and Siegel, J.S., (1973). *The Methods and Materials of Demography*, Volume I, U.S. Department of Commerce, Washington D.C.

State Institute of Statistics (SIS), (1993). *The populaiton of Turkey, 1923-1994: Demographic Structure and Development with Projections to the Mid 21st Century*, State Institute of Statistics, Prime Ministry of Republic of Turkey, Ankara, Publication No.1716.

State Institute of Statistics (SIS), (1993). *1990 Census of Population: Social and Economic Characteristics of Population*, State Institute of Statistics, Prime Ministry of Republic of Turkey, Ankara.

State Institute of Statistics (SIS), (2003). *2000 Census of Population: Social and Economic Characteristics of Population*, State Institute of Statistics, Prime Ministry of Republic of Turkey, Ankara.

Taşırın, A.C., (1997). 'Türkiye'de Doğurganlığın Dinamikleri'. In *Third Conference on Turkish Demography Volume I*, compiled by Hacettepe University Institute of Population Studies, Ankara, p.123-152

Türkyılmaz, A.S., (1998). *Indirect Estimation of Infant Mortality and Inder-Five Mortality Trends for Turkey from Birth-Survival Histories*. Unpublished Doctoral Dissertation, Hacettepe Institute of Population Studies, Ankara, Turkey.

TÜSİAD, (1999). *Turkey's Window of Opportunity: Demographic Transition, Process and its Consequences*, Publication No. TÜSİAD-T/99-1-251, İstanbul.

United Nations (UN), (1983). *Manual X: Indirect Techniques for Demographic Estimation*, Department of International International Economic and Social Affairs, Population Studies, No. 81, New York.

UNICEF, (2005). 'Multiple Indicator Cluster Surveys (MICS)', Unpublished Presentation, *Expert Group Meeting*, UN Division for the Advancement of Women, Economic Commision for Europe and World Health Organization, 11-14 April, Geneva, Switzerland.

United Nations (UN), (2003). *Manual of Mortpak for Windows*, New York.

Ünalın, T., (1997). 'Turkey's Population at the Beginning of the 21st Century', *The Turkish Journal of Populaiton Studies* (19), p.57-72.

Üner, S., (1984). *Türkiye Nüfusu, Boyutlar, Sorunlar, Yorumlar*, Hacettepe Üniversitesi Nüfus Etütleri Enstitüsü, Ankara: Semih Ofset Matbaacılık.

APPENDIX A

Table A.1. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for Urban

Age of mother	Number of children by age of child															Number of women		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	267	
16	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	299	
17	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	298	
18	13	10	2	2	1	1	1	0	1	0	0	1	0	0	0	0	288	
19	21	11	9	5	2	1	0	0	0	0	0	0	0	0	0	0	224	
20	34	21	17	9	4	7	2	0	0	0	0	0	0	0	0	0	245	
21	30	38	15	8	4	9	3	3	1	0	0	0	0	0	0	0	225	
22	38	35	35	21	23	14	11	2	0	0	0	0	0	0	0	0	244	
23	33	35	27	29	28	13	12	9	5	1	0	0	0	0	1	0	235	
24	35	28	30	40	35	13	19	9	4	3	1	0	0	0	0	0	212	
25	53	31	33	45	34	26	24	24	17	9	15	2	3	0	0	0	241	
26	21	21	29	26	31	34	35	25	15	12	12	2	4	0	0	1	183	
27	34	27	23	30	34	40	38	43	32	20	17	8	7	2	1	0	203	
28	23	22	24	31	28	30	35	41	34	37	23	15	13	4	1	1	198	
29	12	14	19	15	21	21	36	30	24	24	23	12	17	8	4	2	150	
30	28	20	29	34	39	46	45	61	49	42	55	43	30	22	11	9	233	
31	13	6	11	15	20	18	24	25	34	35	34	36	20	18	13	5	142	
32	12	13	19	26	30	23	27	38	29	41	33	33	30	37	17	10	169	
33	15	10	8	19	21	23	30	45	38	47	45	41	55	58	34	26	224	
34	12	12	9	14	23	18	17	27	35	29	27	43	45	40	33	29	164	
35	10	7	18	14	17	15	41	24	42	35	47	36	40	49	33	49	180	
36	3	3	5	8	6	12	9	14	26	20	31	29	27	47	33	25	141	
37	9	7	8	8	10	12	10	14	25	14	31	17	41	47	34	43	136	
38	4	2	6	7	8	5	12	17	25	29	28	30	32	43	34	44	169	
39	8	3	6	3	6	3	8	6	11	13	10	21	22	28	20	27	120	
40	3	4	7	4	7	10	13	22	19	19	36	25	44	43	42	31	182	
41	1	0	0	1	0	4	3	4	7	5	10	6	12	11	19	21	101	
42	0	1	2	3	0	6	15	9	12	8	16	19	20	26	22	25	127	
43	2	1	1	6	3	4	11	13	15	16	10	23	21	36	36	30	156	
44	0	0	1	0	3	2	3	3	7	7	8	9	9	11	10	9	87	
45	0	0	3	1	2	3	2	5	11	2	22	15	18	16	21	21	125	
46	0	1	0	0	0	3	0	2	3	3	7	8	4	8	9	7	81	
47	0	0	0	0	1	0	3	3	4	2	11	8	8	7	11	11	86	
48	0	0	0	1	0	0	0	2	3	1	4	5	5	13	9	15	97	
49	0	0	0	0	1	0	0	0	1	1	2	3	5	1	3	5	45	
50	0	0	0	0	1	1	0	3	1	2	2	4	9	8	14	9	125	
51	0	0	0	0	0	0	0	2	3	4	1	7	6	3	7	13	8	94
52	0	0	0	0	0	0	0	0	1	4	1	6	4	4	8	7	107	
53	0	0	1	0	0	0	0	0	0	3	2	3	4	3	9	6	124	
54	0	0	0	0	0	0	0	2	0	1	3	0	1	2	3	6	74	
55	0	0	0	0	0	0	0	3	1	2	1	2	3	4	11	8	140	
56	0	0	0	0	0	0	0	0	1	0	0	0	3	2	1	1	61	
57	0	0	0	0	0	0	0	0	1	0	0	1	0	1	2	1	69	
58	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	63	
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	
60	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	170	
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	
62	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	51	
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	
Unknown	3	5	6	3	6	14	5	12	20	26	30	23	37	34	32	61		
TOTAL	479	391	404	429	449	431	496	544	558	514	606	535	596	643	546	558		

Table A.2. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for Rural

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204
16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	199
17	9	2	4	1	0	0	0	0	0	0	0	0	0	0	0	0	223
18	12	5	1	0	0	1	0	0	0	0	1	0	1	0	0	0	204
19	16	7	5	3	2	0	0	0	0	0	0	0	0	0	0	0	159
20	32	23	21	8	16	6	4	3	4	0	2	0	0	0	0	0	208
21	15	20	13	8	9	5	6	3	1	0	0	0	0	0	0	0	127
22	34	19	23	14	17	5	9	4	3	0	0	0	0	0	0	0	144
23	26	23	13	27	15	16	9	7	5	1	1	0	0	0	0	0	126
24	21	17	21	15	25	12	13	9	7	2	0	0	0	0	0	0	106
25	16	24	24	18	22	22	14	10	16	2	5	2	3	1	0	0	115
26	14	14	17	13	14	23	23	23	13	8	4	4	1	0	0	0	100
27	18	18	13	28	19	26	24	22	18	14	16	9	6	1	1	0	113
28	14	15	17	18	18	20	14	25	27	19	11	14	5	3	0	1	101
29	12	12	10	12	11	14	14	24	16	13	14	13	4	4	3	0	71
30	13	24	19	22	28	32	31	42	40	32	33	35	35	24	8	8	148
31	11	8	2	11	11	11	19	22	27	16	21	17	18	16	5	3	77
32	11	3	9	9	18	21	11	21	22	21	20	17	27	20	9	11	77
33	18	7	8	16	13	16	11	25	27	34	35	25	30	42	17	11	108
34	3	3	2	7	5	10	9	7	10	8	13	18	19	14	15	13	55
35	7	7	7	15	12	17	23	24	29	27	38	27	44	37	37	21	112
36	3	2	4	4	5	6	11	9	12	14	21	16	16	21	17	14	59
37	4	5	2	8	6	4	9	10	10	11	25	12	20	18	18	17	76
38	3	11	9	5	12	4	7	22	24	25	19	28	30	35	28	42	102
39	4	3	3	1	5	9	8	5	8	11	16	10	23	11	18	26	63
40	9	1	9	10	15	16	22	14	26	30	22	28	34	34	35	26	115
41	3	1	5	2	2	3	2	8	2	4	10	9	11	9	7	10	48
42	0	0	0	2	2	2	4	13	9	9	3	5	10	11	15	17	61
43	0	3	1	1	5	1	7	6	10	11	11	10	16	14	16	15	68
44	0	0	2	2	0	1	1	1	5	3	11	8	9	6	10	11	48
45	1	2	1	4	5	2	9	8	16	8	15	14	25	20	20	21	92
46	0	0	3	0	2	0	4	2	5	10	7	8	10	6	12	18	58
47	1	0	0	1	0	1	1	3	4	4	5	6	7	9	13	7	47
48	0	0	0	2	0	3	0	3	6	4	5	4	3	4	9	6	60
49	0	1	0	0	0	1	0	0	3	1	1	1	6	2	4	9	37
50	0	0	0	1	5	1	1	6	6	8	13	4	14	14	14	17	72
51	0	0	0	0	0	0	2	1	1	3	5	6	10	13	7	16	75
52	0	0	0	0	0	0	4	2	2	2	6	6	7	10	17	23	102
53	0	0	0	0	1	0	0	0	3	0	2	3	5	6	7	6	67
54	0	0	0	0	0	2	1	0	0	2	0	1	7	6	8	5	56
55	0	0	0	0	0	0	1	1	0	0	7	2	8	5	18	8	145
56	0	0	0	0	0	0	0	0	1	0	2	1	1	1	3	2	66
57	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	6	58
58	0	0	0	0	0	0	0	0	0	2	4	2	2	3	0	4	53
59	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	31
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	157
61	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	36
62	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	48
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
64	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	35
Unknown	1	2	9	6	8	6	13	12	12	10	13	5	15	18	28	16	
TOTAL	333	282	277	294	328	319	341	397	430	369	440	370	482	443	428	412	

Table A.3. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for West Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133
17	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	150
18	7	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	148
19	10	2	4	1	0	0	0	0	0	0	0	0	0	0	0	0	106
20	9	10	6	9	0	4	0	0	0	0	0	0	0	0	0	0	111
21	18	17	7	1	2	4	0	1	0	0	0	0	0	0	0	0	124
22	22	15	15	7	13	2	2	1	0	0	0	0	0	0	0	0	121
23	17	18	16	16	15	7	4	7	4	0	0	0	0	0	1	0	130
24	16	15	11	18	21	7	11	5	2	2	1	0	0	0	0	0	108
25	22	12	16	15	12	5	7	4	7	4	4	0	0	0	0	0	106
26	9	11	18	11	11	20	17	17	6	5	5	0	1	0	0	0	111
27	20	13	15	17	9	23	20	22	20	11	5	1	0	1	0	0	122
28	10	12	15	15	13	18	16	20	20	21	11	10	2	2	0	0	109
29	10	5	10	9	2	4	21	18	7	7	9	7	6	5	1	1	65
30	13	9	10	13	22	21	21	29	22	22	29	26	13	13	7	4	124
31	4	2	4	7	15	5	12	12	15	13	21	20	10	10	5	1	76
32	4	7	6	10	20	6	11	11	13	12	15	13	17	21	5	4	86
33	10	1	4	9	5	11	12	21	24	23	27	21	24	31	13	10	124
34	4	5	4	5	9	15	2	13	17	16	15	26	26	22	18	16	95
35	4	5	4	7	7	9	20	11	22	26	26	22	21	27	27	21	121
36	0	1	1	6	4	4	1	7	13	15	26	22	12	32	18	12	95
37	2	4	4	0	5	5	4	6	15	4	11	12	15	17	18	22	76
38	2	1	1	4	2	1	5	6	17	7	17	13	17	23	17	27	102
39	1	1	2	1	1	1	2	4	1	10	1	7	10	10	11	7	61
40	0	0	2	2	1	4	7	5	7	7	12	6	12	18	20	13	92
41	0	0	0	1	0	1	1	2	4	2	7	5	9	7	12	11	66
42	0	0	0	1	0	4	7	4	5	6	7	7	11	12	11	22	84
43	0	0	0	1	2	0	5	2	6	5	4	7	7	16	18	15	90
44	0	0	1	0	2	0	0	1	4	4	5	6	4	5	5	7	50
45	0	0	0	1	0	1	0	0	1	1	9	9	9	7	5	6	65
46	0	0	0	0	0	0	0	0	2	4	2	7	4	5	7	10	57
47	0	0	0	0	0	0	2	0	1	1	7	2	6	1	5	6	64
48	0	0	0	0	0	0	0	0	2	1	2	0	2	6	2	10	57
49	0	0	0	0	1	0	0	0	0	1	0	1	2	0	1	6	39
50	0	0	0	0	0	0	0	0	1	0	1	1	4	1	4	1	70
51	0	0	0	0	0	0	0	0	0	0	2	1	0	4	2	4	61
52	0	0	0	0	0	0	0	0	0	0	2	0	2	1	1	5	75
53	0	0	1	0	0	0	0	0	0	1	1	0	4	0	2	1	71
54	0	0	0	0	0	0	0	2	0	0	0	0	0	1	2	4	49
55	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	81
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	46
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	48
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	111
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
62	0	0	0	0	0	0	0	1	0	0	1	0	0	2	0	0	34
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Unknown	1	1	2	0	4	7	1	5	12	12	6	11	17	13	17	29	
TOTAL	220	170	181	187	198	190	211	237	270	243	291	263	267	314	259	279	

Table A.4. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for South Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
16	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	76
17	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
18	2	3	0	0	0	1	1	0	1	0	1	1	1	0	0	0	76
19	5	2	2	1	2	0	0	0	0	0	0	0	0	0	0	0	72
20	7	5	4	1	1	2	1	1	0	0	0	0	0	0	0	0	72
21	7	8	5	2	3	1	1	0	0	0	0	0	0	0	0	0	58
22	8	9	7	5	2	4	4	2	0	0	0	0	0	0	0	0	68
23	8	9	9	9	11	5	5	1	2	0	0	0	0	0	0	0	59
24	11	7	15	9	8	9	5	1	1	0	0	0	0	0	0	0	68
25	15	8	7	9	9	10	6	7	7	2	3	1	0	0	0	0	59
26	7	6	7	10	8	9	10	11	3	5	2	1	2	0	0	0	54
27	9	5	8	3	12	5	6	8	6	5	6	3	2	0	1	0	50
28	4	5	3	5	6	8	6	8	10	3	5	4	2	0	0	0	46
29	0	5	3	2	10	9	5	9	8	7	7	2	2	1	0	0	40
30	4	11	8	14	6	10	9	12	8	10	12	12	8	8	2	1	53
31	6	2	3	5	5	8	8	12	13	9	9	9	9	3	2	2	39
32	6	2	2	5	5	10	7	9	5	14	7	6	12	5	6	3	38
33	5	5	3	5	8	11	5	9	11	11	7	8	17	11	3	5	51
34	2	2	1	5	5	4	6	7	6	7	8	12	6	9	7	7	37
35	2	2	3	5	2	7	7	5	10	5	12	11	14	14	8	12	38
36	0	1	0	2	2	3	2	4	6	5	5	3	3	7	7	6	25
37	3	0	3	4	2	2	4	4	5	4	11	2	12	15	11	9	36
38	0	2	2	5	6	2	5	7	9	12	14	9	8	19	12	16	52
39	2	2	2	1	3	0	2	2	2	3	5	7	8	13	6	9	33
40	1	2	1	2	2	2	2	5	9	8	8	8	9	11	10	6	48
41	1	0	1	0	1	1	1	2	1	1	4	4	4	4	5	4	21
42	0	0	0	2	0	0	2	3	2	2	2	5	4	9	6	6	23
43	1	2	1	2	1	1	4	5	6	8	5	10	10	10	12	8	42
44	0	0	0	0	0	1	2	0	3	0	3	2	4	4	3	5	23
45	0	0	0	1	2	1	2	2	4	2	2	3	5	5	7	6	26
46	0	0	0	0	1	1	1	2	1	2	5	2	2	3	4	5	22
47	1	0	0	0	1	0	1	2	2	1	2	3	2	4	6	2	19
48	0	0	0	0	0	0	0	2	0	0	1	3	1	5	2	3	26
49	0	1	0	0	0	1	0	0	2	0	2	2	2	1	3	2	12
50	0	0	0	0	0	0	0	2	2	2	2	1	3	5	4	28	
51	0	0	0	0	0	0	0	1	1	1	2	3	2	5	5	1	26
52	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	3	30
53	0	0	0	0	1	0	0	0	2	1	2	0	0	2	3	2	25
54	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	2	19
55	0	0	0	0	0	0	0	0	0	0	1	1	3	2	5	3	42
56	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1	19
57	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	18
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
59	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	15
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	37
61	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	9
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Unknown	2	2	5	2	1	3	2	3	9	5	9	5	11	9	7	12	
TOTAL	123	109	106	117	126	131	122	148	157	135	166	145	171	188	155	146	

Table A.5. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for Central Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
17	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	128
18	6	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	111
19	8	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	83
20	12	13	6	3	0	0	0	0	0	0	0	0	0	0	0	0	98
21	7	20	6	5	2	5	0	1	0	0	0	0	0	0	0	0	80
22	20	16	15	9	9	6	2	0	0	0	0	0	0	0	0	0	92
23	19	17	9	15	7	13	5	1	1	0	0	0	0	0	0	0	80
24	9	11	9	16	18	4	9	7	6	0	0	0	0	0	0	0	70
25	15	12	17	13	13	14	10	13	7	4	4	1	1	1	0	0	91
26	6	9	14	9	12	18	19	10	9	7	6	2	0	0	0	0	65
27	7	8	6	16	14	11	13	13	11	5	10	4	4	1	1	0	62
28	10	6	3	13	9	10	11	18	11	11	7	6	2	2	1	0	64
29	5	6	7	6	7	16	12	15	14	11	14	10	9	3	4	1	65
30	4	8	5	9	12	19	14	27	24	14	20	14	18	8	3	4	82
31	7	1	4	5	6	7	11	8	15	12	10	10	9	10	5	3	53
32	2	1	5	9	9	6	8	10	10	15	14	13	9	12	5	8	51
33	5	8	3	10	6	9	14	17	12	20	22	19	24	26	19	13	87
34	6	3	4	5	5	3	5	5	10	3	8	11	15	11	9	6	45
35	1	2	7	1	3	7	10	8	13	8	16	8	16	14	8	14	50
36	2	2	1	1	0	1	5	1	9	4	4	10	10	15	13	5	37
37	1	2	1	4	3	3	3	7	3	7	13	2	17	12	6	10	42
38	3	4	4	1	4	2	5	7	12	19	5	19	17	16	15	18	63
39	3	2	1	1	4	5	8	1	10	5	7	12	13	7	10	24	57
40	2	1	1	0	2	2	1	5	3	4	6	10	15	11	13	8	53
41	1	1	0	2	1	2	3	6	4	4	3	2	8	6	7	14	45
42	0	0	0	2	1	0	2	1	4	1	3	3	7	7	8	5	41
43	0	2	0	1	1	1	2	1	5	5	3	5	7	15	10	10	49
44	0	0	0	1	0	0	0	1	1	4	8	6	4	4	7	6	40
45	0	1	1	1	0	1	2	2	5	2	4	5	9	11	9	14	64
46	0	0	1	0	0	1	0	1	2	3	3	4	6	1	5	3	40
47	0	0	0	0	0	1	1	2	3	1	3	3	5	7	5	7	29
48	0	0	0	0	0	0	0	1	3	0	1	1	1	3	6	5	30
49	0	0	0	0	0	0	0	0	1	0	1	0	1	2	1	2	14
50	0	0	0	0	1	0	0	1	0	0	2	0	1	5	5	6	42
51	0	0	0	0	0	0	0	0	1	1	1	2	0	1	2	4	33
52	0	0	0	0	0	0	0	0	1	2	1	2	1	5	5	5	49
53	0	0	0	0	0	0	0	0	0	0	0	2	3	3	4	1	53
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	33
55	0	0	0	0	0	0	1	1	0	0	4	1	1	2	5	3	65
56	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	1	37
57	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	4	33
58	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	3	26
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
60	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	75
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
64	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	18
Unknown	0	2	5	3	4	4	5	8	5	8	16	5	8	7	18	13	
TOTAL	164	171	138	162	153	171	181	199	216	180	222	193	241	234	214	220	

Table A.6. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for North Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
18	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	35
19	4	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	41
20	9	4	2	2	1	0	0	0	0	0	0	0	0	0	0	0	39
21	7	4	3	1	3	1	1	1	1	0	0	0	0	0	0	0	30
22	7	5	4	3	4	1	1	0	0	0	0	0	0	0	0	0	40
23	7	5	3	4	5	1	1	0	0	1	0	0	0	0	0	0	35
24	4	3	4	2	2	1	0	0	0	0	0	0	0	0	0	0	22
25	7	7	7	7	6	4	4	1	2	0	2	0	0	0	0	0	36
26	5	2	5	4	4	4	4	5	3	1	1	1	1	0	0	1	25
27	9	7	3	7	7	8	8	7	5	4	3	2	0	0	0	0	30
28	4	4	7	6	8	5	5	5	7	5	4	3	1	1	0	1	31
29	4	3	3	4	6	2	3	5	4	7	4	3	2	2	1	0	24
30	3	5	4	5	7	8	5	5	9	7	7	7	8	3	2	1	37
31	1	2	1	2	3	2	5	5	7	5	5	7	4	5	1	1	19
32	2	1	2	3	4	5	5	8	6	8	7	7	8	8	5	3	29
33	1	2	0	2	2	1	4	5	4	5	6	4	7	11	5	4	24
34	1	1	1	1	3	3	1	3	2	5	4	5	5	6	5	3	17
35	1	2	3	2	3	1	2	4	5	4	7	4	8	5	5	7	22
36	1	1	2	1	1	4	4	4	5	4	6	6	7	8	5	7	22
37	1	1	1	2	1	1	2	4	4	5	9	5	5	9	8	7	28
38	1	2	1	1	1	1	2	2	4	8	5	5	6	5	8	10	28
39	1	0	2	1	2	3	2	2	1	2	5	2	5	4	3	4	15
40	1	1	1	0	2	1	2	4	3	2	6	4	8	5	6	6	25
41	0	0	0	0	1	1	0	0	0	2	1	1	1	3	1	1	10
42	0	0	0	0	1	0	1	2	0	1	2	1	3	4	2	5	15
43	0	0	1	0	2	1	2	1	2	2	3	2	5	3	3	2	20
44	0	0	1	1	0	1	1	0	2	0	1	0	3	0	1	1	7
45	1	1	0	0	2	1	0	0	1	1	2	1	2	3	2	4	18
46	0	0	0	0	0	0	0	0	0	2	1	0	1	1	1	2	11
47	0	0	0	1	0	0	0	0	1	0	1	1	2	1	1	1	10
48	0	0	0	0	0	1	0	1	0	0	1	2	1	1	1	3	22
49	0	0	0	0	0	0	0	0	0	1	1	0	1	1	2	1	8
50	0	0	0	0	0	1	0	0	0	0	1	0	0	1	1	1	11
51	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	18
52	0	0	0	0	0	0	0	0	1	1	1	1	0	1	3	2	17
53	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	2	17
54	0	0	0	0	0	0	1	0	0	1	0	1	1	1	2	0	8
55	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	28
56	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	11
57	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	9
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	15
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	37
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Unknown	1	2	1	3	3	3	4	1	2	5	5	4	7	8	7	10	
TOTAL	88	68	64	67	85	66	70	75	82	89	102	79	106	103	85	97	

Table A.7. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for East Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
16	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133
17	5	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	119
18	6	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	122
19	10	6	5	4	1	1	0	0	0	0	0	0	0	0	0	0	80
20	28	13	19	3	19	7	5	2	4	0	2	0	0	0	0	0	133
21	6	9	6	6	2	4	7	3	1	0	0	0	0	0	0	0	62
22	15	9	17	10	12	6	10	3	3	0	0	0	0	0	0	0	68
23	8	8	4	12	5	3	5	7	4	1	1	0	0	0	0	0	56
24	15	9	13	9	11	3	7	4	2	3	0	0	0	0	0	0	50
25	11	16	10	20	15	16	11	10	8	2	7	2	5	0	0	0	63
26	9	6	2	4	11	6	8	5	6	2	2	2	1	0	0	0	30
27	7	11	5	15	12	18	15	15	8	9	8	6	7	1	0	0	51
28	9	9	13	10	10	8	10	16	14	16	7	5	10	1	0	1	49
29	5	7	5	7	6	5	8	6	7	4	3	3	2	0	1	0	28
30	17	11	20	15	19	21	27	30	26	22	19	19	18	13	5	7	86
31	5	6	1	7	3	7	6	10	12	10	9	8	7	5	5	1	32
32	9	5	13	8	10	17	7	20	16	14	10	12	11	11	5	2	42
33	11	1	6	9	13	7	6	18	13	22	19	15	12	22	11	5	47
34	2	4	1	4	5	3	11	5	8	6	6	6	12	7	8	9	24
35	9	3	7	14	13	8	26	19	21	19	25	18	25	26	22	16	61
36	3	0	5	3	4	6	7	7	4	6	12	3	11	6	6	8	20
37	5	5	1	5	4	5	6	3	8	6	13	7	14	11	9	12	31
38	1	3	6	1	5	3	3	16	7	8	5	11	15	15	10	16	26
39	5	1	1	0	1	3	1	3	4	4	8	2	9	5	7	10	17
40	8	1	11	10	14	17	23	17	23	27	26	25	33	33	29	22	79
41	2	0	4	0	0	2	0	2	0	0	5	4	1	0	0	2	7
42	0	1	2	0	0	4	6	12	9	7	5	7	5	4	9	4	24
43	1	0	1	2	2	2	5	9	5	7	6	9	7	6	9	9	23
44	0	0	1	0	1	1	1	2	3	2	2	3	4	4	4	1	15
45	0	0	3	2	3	1	6	9	16	4	19	11	17	9	17	12	44
46	0	1	2	0	1	1	3	1	3	2	3	3	2	3	4	5	9
47	0	0	0	0	0	0	0	2	1	3	2	4	1	3	6	1	12
48	0	0	0	3	0	2	0	2	4	4	4	2	3	1	6	0	21
49	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	4	8
50	0	0	0	1	5	1	1	6	4	8	9	5	17	11	12	14	47
51	0	0	0	0	0	0	4	3	3	2	7	5	10	8	10	12	31
52	0	0	0	0	0	0	4	2	1	3	3	8	6	5	12	14	39
53	0	0	0	0	0	0	0	0	1	1	0	4	1	4	4	6	25
54	0	0	0	0	0	2	0	0	0	2	3	0	5	5	5	5	20
55	0	0	0	0	0	0	0	3	1	2	3	2	6	4	15	5	69
56	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	21
57	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	20
58	0	0	0	0	0	0	0	0	0	2	4	2	2	2	0	2	9
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	67
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Unknown	0	0	2	2	2	3	5	6	3	5	7	3	9	14	11	12	
TOTAL	214	148	189	187	210	193	244	278	255	235	265	217	292	240	248	221	

Table A.8. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for Urban

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	205
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	253
17	4	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	217
18	18	13	2	1	2	1	0	1	0	0	0	0	0	0	0	0	281
19	17	14	7	2	2	1	0	0	0	0	0	0	0	0	0	0	202
20	31	21	16	8	3	1	1	3	0	0	0	0	0	0	0	0	237
21	29	29	26	8	12	5	4	0	0	0	0	0	0	0	0	0	220
22	27	20	29	21	15	11	4	1	2	1	0	0	0	0	0	0	219
23	34	24	37	35	21	17	7	3	1	0	1	0	0	1	0	0	228
24	40	41	36	38	31	17	26	12	6	1	1	0	1	0	0	0	246
25	30	22	25	37	35	29	21	20	14	5	5	1	1	0	0	0	213
26	40	40	31	38	37	30	30	21	25	13	3	4	0	1	0	0	234
27	20	34	29	34	30	33	35	18	18	15	16	2	2	0	0	1	203
28	24	31	27	34	38	33	35	29	40	21	28	16	4	5	1	0	197
29	28	12	34	30	25	26	30	38	42	17	18	17	13	7	3	3	191
30	23	29	26	31	34	25	43	42	40	30	31	22	18	13	6	2	194
31	16	15	11	13	21	12	31	21	32	26	21	24	11	12	8	3	146
32	26	17	14	14	21	30	32	22	33	22	49	33	31	20	22	16	176
33	23	19	20	22	22	27	31	37	36	41	41	22	37	33	27	27	197
34	13	19	15	12	15	14	28	17	25	32	28	34	23	26	19	22	161
35	12	12	11	14	14	21	26	17	39	20	26	40	29	36	25	28	153
36	11	11	8	15	13	10	23	21	22	15	29	31	36	38	22	34	152
37	9	6	6	9	10	18	19	23	24	26	22	24	28	30	30	36	174
38	4	5	5	9	11	11	13	17	24	21	19	29	31	48	36	39	178
39	1	1	4	0	8	3	15	8	15	13	9	11	22	24	20	25	116
40	5	3	2	5	5	6	15	16	10	15	13	22	34	23	31	26	145
41	2	1	3	1	1	4	8	9	7	10	15	12	15	15	19	16	108
42	1	3	0	2	1	9	5	7	5	10	13	6	21	16	19	17	131
43	0	3	1	1	5	11	4	5	10	8	9	16	17	22	15	18	150
44	1	1	1	2	3	1	4	2	12	6	7	10	18	10	19	13	119
45	1	1	1	2	1	6	4	10	11	14	8	9	20	18	25	27	138
46	0	1	0	1	2	1	4	4	4	7	3	9	7	7	15	11	105
47	1	0	0	1	1	1	1	2	2	3	6	5	6	8	7	11	79
48	0	0	0	0	1	0	0	1	3	1	5	4	8	11	13	18	127
49	0	0	0	0	0	0	0	1	2	0	1	2	7	4	5	12	67
50	0	0	0	0	1	0	0	1	3	1	6	2	5	4	7	10	82
51	0	0	0	0	1	1	0	2	3	1	3	1	2	6	13	10	86
52	0	0	0	0	0	0	1	0	0	1	1	1	0	3	2	1	63
53	0	0	0	0	0	1	1	1	0	3	1	1	5	5	2	3	86
54	0	0	0	0	0	1	0	0	0	1	0	0	1	3	1	1	73
55	0	0	1	0	0	0	1	0	0	1	4	3	2	3	3	3	95
56	0	0	0	0	0	0	1	0	0	2	1	0	2	3	4	2	75
57	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	5	47
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	69
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	58
60	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	95
61	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	27
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
63	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	49
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Unknown	2	4	5	3	11	10	17	15	15	14	18	23	27	21	29	23	
TOTAL	495	456	435	443	453	427	520	448	525	419	461	438	488	480	455	466	

Table A.9. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for Rural

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125
16	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
17	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
18	12	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	179
19	14	8	7	2	0	0	0	0	0	0	0	0	0	0	0	0	116
20	22	22	14	4	2	3	2	0	1	0	0	0	0	0	0	0	143
21	13	16	10	10	6	4	0	1	0	0	0	0	0	0	0	0	99
22	31	26	14	10	7	9	7	0	1	1	0	0	0	0	0	0	111
23	19	15	14	16	10	11	7	2	6	0	2	1	0	0	0	0	96
24	22	19	18	13	26	12	7	7	2	3	0	0	0	0	0	0	101
25	24	29	20	21	23	14	30	15	14	10	3	5	3	1	1	0	116
26	17	22	21	13	27	21	17	17	7	5	2	1	0	0	0	0	104
27	12	15	11	17	14	18	13	20	14	6	4	5	3	2	0	0	73
28	18	19	19	14	13	19	21	21	10	14	7	7	5	3	3	4	88
29	9	7	9	19	13	9	18	15	16	15	9	7	3	1	0	0	64
30	13	14	18	11	17	18	21	25	18	13	24	20	10	6	9	1	97
31	4	5	3	6	6	8	15	5	6	6	8	4	10	1	4	1	34
32	9	8	7	12	15	11	10	19	17	24	29	13	12	10	10	4	76
33	6	7	10	10	12	20	12	12	14	14	17	21	14	11	11	5	81
34	6	5	8	10	13	14	12	12	18	22	19	30	24	26	10	11	96
35	9	7	3	8	11	14	15	18	17	18	18	17	23	22	22	15	84
36	7	11	3	8	7	9	12	10	18	12	8	16	12	18	16	16	77
37	6	3	0	10	0	7	8	7	8	12	14	15	11	13	19	11	62
38	6	7	6	4	9	8	11	10	14	13	21	17	10	22	16	15	84
39	0	0	3	4	3	8	7	3	11	4	11	16	13	16	20	14	73
40	0	6	3	6	7	11	15	13	16	14	24	18	24	21	28	24	93
41	2	3	0	3	2	0	3	4	5	8	2	10	9	14	9	12	55
42	1	0	3	3	2	1	5	5	6	2	7	5	10	14	17	7	61
43	1	1	2	1	4	1	9	7	3	4	6	8	9	15	12	7	59
44	1	0	0	3	1	4	4	3	4	6	6	10	8	11	8	8	55
45	1	1	1	1	2	4	5	5	5	2	6	10	7	11	17	14	68
46	0	0	0	0	1	1	1	1	0	3	3	0	10	5	3	5	55
47	0	1	0	0	0	0	2	0	1	2	0	3	7	4	5	4	42
48	0	0	0	2	2	1	5	7	5	5	8	5	8	8	12	12	71
49	0	0	0	0	0	0	2	1	1	0	3	3	2	4	3	5	35
50	0	1	2	0	0	2	3	2	6	6	10	11	9	15	13	14	93
51	0	0	0	1	0	0	2	2	3	1	4	2	3	6	8	5	63
52	0	1	0	0	1	0	1	0	4	4	3	1	6	2	8	6	56
53	0	0	0	0	0	0	0	0	0	1	0	1	1	0	5	4	41
54	0	0	0	0	0	0	1	0	0	1	0	1	1	0	1	3	42
55	0	0	0	0	0	3	1	4	1	3	2	2	5	11	8	7	100
56	0	0	0	0	0	0	0	0	2	0	1	1	3	2	5	2	42
57	0	0	0	0	0	0	0	1	0	0	0	1	1	1	2	1	45
58	0	0	0	0	0	0	0	0	0	0	1	0	3	3	1	3	50
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
60	0	0	0	0	0	0	0	0	0	0	2	1	0	0	2	1	98
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	37
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Unknown	5	0	4	7	10	3	4	6	12	9	20	13	28	29	26	25	
TOTAL	302	291	237	251	267	268	308	280	286	263	304	301	307	328	335	266	

Table A.10. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for West Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
17	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
18	6	7	2	0	1	0	0	0	0	0	0	0	0	0	0	0	170
19	9	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	102
20	16	9	9	2	0	0	0	2	0	0	0	0	0	0	0	0	128
21	16	18	14	4	7	1	0	0	0	0	0	0	0	0	0	0	115
22	19	6	11	12	6	4	0	0	0	0	0	0	0	0	0	0	130
23	16	14	18	15	7	7	5	0	1	0	0	0	0	0	0	0	129
24	19	15	23	16	16	4	11	5	2	0	0	0	0	0	0	0	143
25	11	13	9	15	18	9	10	5	4	0	2	0	0	0	0	0	108
26	23	21	8	18	19	11	13	3	10	5	0	0	0	0	0	0	121
27	8	20	13	18	16	21	19	12	9	7	8	2	0	0	0	0	114
28	9	17	15	17	21	15	19	12	23	11	12	11	2	2	0	0	107
29	11	6	15	18	12	17	17	19	23	8	9	13	7	5	3	3	115
30	7	14	15	8	16	16	19	19	17	11	18	11	7	4	2	0	103
31	10	14	6	6	10	7	23	11	22	16	12	17	6	7	4	0	94
32	17	7	8	8	13	19	18	11	26	15	33	22	21	14	15	9	110
33	9	10	11	9	7	19	16	19	17	25	23	10	14	18	16	15	111
34	10	8	10	10	6	7	10	6	12	18	16	33	11	19	9	11	106
35	2	2	3	4	6	6	13	5	13	8	12	15	2	18	6	9	77
36	7	4	1	7	5	4	7	11	14	8	15	13	23	20	12	19	89
37	2	2	1	6	3	10	9	13	7	18	13	20	9	16	19	22	103
38	3	5	6	5	4	5	8	9	9	10	9	12	14	25	24	22	99
39	0	0	2	2	4	1	9	4	5	7	3	7	15	14	7	15	58
40	4	0	0	0	1	2	8	9	0	7	5	8	16	11	19	14	78
41	0	0	2	0	0	3	2	3	1	8	6	9	6	9	8	8	58
42	0	2	0	3	0	5	0	2	3	3	7	1	7	8	10	9	69
43	0	2	0	0	3	8	2	4	4	4	4	6	11	16	7	7	93
44	0	0	0	0	2	2	0	0	5	2	6	5	5	4	13	6	75
45	0	0	0	0	0	0	0	0	3	7	2	1	5	5	9	10	69
46	0	0	0	0	3	0	4	4	2	4	2	4	9	3	7	7	82
47	0	0	0	0	0	0	1	0	0	0	3	0	0	4	2	5	48
48	0	0	0	0	0	0	0	1	2	1	3	2	0	5	4	10	75
49	0	0	0	0	0	0	0	0	0	0	0	0	5	3	1	10	47
50	0	0	0	0	0	0	0	0	0	0	3	0	0	2	3	3	54
51	0	0	0	0	0	0	0	1	1	0	1	0	0	5	9	8	58
52	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2	1	35
53	0	0	0	0	0	0	0	0	0	3	0	0	3	2	0	1	51
54	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	45
55	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	1	75
56	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	2	55
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	41
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	49
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	38
60	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	55
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Unknown	4	3	5	0	6	2	11	6	10	8	12	15	16	16	19	10	
TOTAL	239	229	212	203	212	205	254	196	245	214	244	237	217	259	239	241	

Table A.11. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for South Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
17	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	61
18	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	70
19	3	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	54
20	8	8	1	1	1	0	0	0	0	0	0	0	0	0	0	0	57
21	5	5	4	5	3	1	1	0	0	0	0	0	0	0	0	0	45
22	3	6	6	3	4	0	1	1	1	0	0	0	0	0	0	0	39
23	13	3	5	7	6	7	1	1	0	0	1	1	0	0	0	0	50
24	8	6	3	7	2	4	4	3	1	0	0	0	0	0	0	0	42
25	10	8	6	8	6	6	5	7	5	1	2	1	1	0	0	0	49
26	6	10	11	7	10	8	4	8	4	2	1	1	0	1	0	0	50
27	6	4	10	4	6	4	5	6	3	1	3	1	1	0	0	1	40
28	6	5	5	12	4	8	8	6	4	4	3	1	1	1	1	0	40
29	5	4	3	6	7	3	6	8	8	8	3	2	1	0	0	0	32
30	6	6	4	8	8	7	8	7	8	6	6	6	4	2	1	0	43
31	2	1	1	5	3	4	6	3	4	5	4	1	1	1	1	1	21
32	4	5	3	3	6	3	8	6	6	3	8	7	1	2	4	1	33
33	3	5	4	6	2	3	6	4	3	9	6	6	6	3	6	4	35
34	3	5	4	1	9	7	9	7	10	9	7	11	11	12	7	11	48
35	3	3	3	5	4	7	6	6	12	6	7	7	13	9	7	8	39
36	3	3	1	5	3	1	5	4	8	3	9	9	3	8	6	8	37
37	1	2	3	1	1	3	4	6	8	5	8	4	8	6	6	6	33
38	0	1	3	2	3	5	6	4	7	8	11	12	9	15	7	10	43
39	0	0	1	0	2	1	1	2	3	4	2	3	3	4	5	3	23
40	0	4	1	1	1	2	3	5	6	6	8	3	6	10	6	4	31
41	1	3	0	1	0	0	2	3	2	3	3	5	6	7	4	4	28
42	1	0	3	0	1	3	3	3	2	3	3	3	4	8	4	3	34
43	0	0	2	0	2	1	1	1	2	1	4	4	4	3	3	6	29
44	0	0	0	1	0	1	2	1	1	2	1	6	5	3	3	2	18
45	0	1	0	0	1	1	0	4	2	1	1	3	6	4	7	7	39
46	0	1	0	1	0	0	0	1	1	2	1	2	4	4	4	3	25
47	0	0	0	1	0	0	1	1	0	1	0	2	4	3	0	1	21
48	0	0	0	0	0	0	0	1	1	3	1	3	3	5	6	4	29
49	0	0	0	0	0	0	1	0	1	0	3	1	1	1	1	3	14
50	0	0	0	0	0	1	0	0	0	1	1	1	1	2	4	1	19
51	0	0	0	0	0	0	0	0	1	0	0	0	1	2	2	2	16
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	15
53	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	1	14
54	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	21
55	0	0	0	0	0	0	0	0	0	1	0	1	1	0	2	1	27
56	0	0	0	0	0	0	0	0	0	0	1	1	2	1	2	1	15
57	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	10
58	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	15
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	10
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Unknown	1	1	2	2	5	4	1	6	3	3	9	4	6	8	8	3	
TOTAL	110	108	94	105	101	95	108	116	116	103	117	113	121	128	111	104	

Table A.12. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for Central Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
17	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
18	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
19	9	6	1	3	1	0	0	0	0	0	0	0	0	0	0	0	74
20	11	10	8	1	0	1	0	0	1	0	0	0	0	0	0	0	82
21	11	11	10	4	3	3	2	1	0	0	0	0	0	0	0	0	82
22	14	20	9	4	8	7	5	0	0	0	0	0	0	0	0	0	76
23	8	6	15	9	7	6	3	0	0	0	0	0	0	0	0	0	64
24	21	19	8	16	17	9	7	5	1	3	0	0	0	0	0	0	80
25	17	8	8	12	12	10	9	5	7	4	1	0	2	0	0	0	72
26	19	16	15	10	20	18	16	14	10	6	0	3	0	0	0	0	96
27	7	8	9	10	11	13	8	8	2	6	2	2	1	1	0	0	60
28	12	11	13	10	12	11	15	13	13	8	11	7	1	1	0	1	74
29	11	4	12	13	9	3	11	15	15	9	8	3	1	3	0	0	59
30	10	9	11	9	8	6	10	14	16	9	12	9	6	4	5	0	62
31	6	4	3	3	8	3	10	6	7	7	3	6	7	3	4	1	37
32	3	5	1	3	9	5	5	5	3	14	15	4	11	5	10	5	48
33	8	5	6	5	14	9	9	11	11	14	14	12	21	10	8	7	74
34	1	6	4	5	3	6	14	9	12	14	10	8	14	14	4	6	51
35	3	4	1	3	4	11	4	3	12	4	9	14	14	13	11	11	56
36	3	1	3	3	2	4	9	6	7	6	7	9	8	11	11	11	47
37	4	1	1	6	3	7	5	4	5	7	4	4	13	11	12	11	52
38	2	0	0	2	6	4	4	3	9	7	3	13	10	13	9	10	69
39	0	0	2	0	2	4	4	1	10	1	7	6	5	8	12	12	62
40	0	2	0	4	3	3	6	5	3	7	7	13	16	6	12	15	65
41	0	1	0	1	1	0	1	3	2	4	1	3	3	5	8	9	42
42	0	0	0	1	1	2	1	3	0	1	3	2	10	5	10	5	52
43	0	0	0	0	1	1	3	1	2	2	2	4	7	10	8	3	48
44	0	0	0	0	0	0	3	0	3	3	2	4	4	6	5	5	44
45	0	1	0	0	0	4	0	1	3	1	2	2	1	3	8	11	40
46	0	0	0	0	0	0	0	0	1	3	0	2	3	2	4	3	34
47	0	0	0	0	0	0	0	0	0	3	0	1	3	3	3	3	27
48	0	0	0	0	1	0	0	2	2	0	1	1	5	4	7	6	53
49	0	0	0	0	0	0	0	0	1	0	1	0	1	1	4	0	16
50	0	0	0	0	0	0	0	1	1	0	0	1	2	0	6	3	41
51	0	0	0	0	0	1	0	0	1	0	0	0	1	2	0	3	34
52	0	0	0	0	0	0	0	0	1	1	0	1	1	0	1	0	32
53	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	1	36
54	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	30
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	38
56	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	21
57	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	20
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	57
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	23
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Unknown	0	0	2	2	4	6	2	7	7	6	5	11	14	8	8	16	
TOTAL	194	164	142	139	170	157	167	146	168	151	130	146	186	156	175	159	

Table A.13. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for North Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
17	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
19	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
20	2	3	1	2	0	1	0	0	0	0	0	0	0	0	0	0	30
21	4	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	25
22	6	3	4	1	1	1	1	0	0	0	0	0	0	0	0	0	21
23	3	5	5	3	1	1	2	0	0	0	0	0	0	0	0	0	20
24	8	5	5	2	5	4	1	1	1	0	0	0	0	0	0	0	23
25	5	6	5	7	3	6	2	0	3	2	1	1	1	1	1	0	28
26	2	4	5	4	4	3	5	2	1	0	1	0	0	0	0	0	21
27	3	4	2	4	3	2	3	2	2	1	0	0	0	0	0	0	17
28	4	3	6	7	5	6	5	7	4	5	2	2	0	0	2	0	26
29	2	1	4	7	3	1	5	3	6	4	3	1	2	0	0	0	21
30	3	4	4	4	4	5	7	8	6	6	5	4	4	1	2	0	31
31	2	0	2	4	1	3	1	2	3	1	3	2	4	0	0	0	14
32	2	3	1	4	3	4	1	7	4	5	7	6	5	2	1	1	23
33	2	2	2	3	4	7	3	4	9	1	2	4	3	5	1	3	22
34	1	2	2	2	7	2	2	3	3	6	6	3	7	5	5	2	24
35	2	1	1	3	0	4	3	3	6	5	5	5	6	7	7	3	21
36	1	3	1	1	1	2	3	1	5	1	1	6	4	7	4	5	20
37	0	0	0	2	1	2	1	1	2	0	3	2	2	3	3	3	16
38	0	0	1	0	1	2	0	1	2	1	2	3	4	7	4	2	19
39	0	0	0	1	0	2	2	3	2	4	2	4	3	5	6	2	21
40	0	1	0	0	2	1	0	1	2	2	5	4	2	3	6	2	18
41	1	0	0	0	0	0	0	0	0	1	1	2	3	5	3	4	14
42	0	0	0	0	0	0	1	1	1	1	3	0	4	1	3	2	15
43	0	1	0	0	0	0	0	2	1	1	0	1	1	2	3	3	20
44	0	0	0	2	1	0	0	1	0	1	2	4	4	5	4	3	19
45	0	0	0	0	0	0	1	0	0	0	0	0	1	2	2	2	14
46	0	0	0	0	0	0	1	0	0	0	2	0	0	1	2	1	11
47	0	1	0	0	0	0	0	0	1	1	0	1	3	0	2	1	13
48	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2	2	16
49	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	3	15
50	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	14
51	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	1	14
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	8
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	12
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
57	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	9
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Unknown	2	0	1	2	2	1	0	1	1	4	4	5	7	6	4	5	
TOTAL	59	56	55	67	52	60	50	55	66	53	63	63	73	71	70	54	

Table A.14. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for East Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101
17	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	105
18	9	5	3	1	2	1	0	1	0	0	0	0	0	0	0	0	99
19	6	4	5	0	1	1	0	0	0	0	0	0	0	0	0	0	64
20	16	14	10	5	5	2	3	1	0	0	0	0	0	0	0	0	83
21	7	8	5	4	5	3	1	0	0	0	0	0	0	0	0	0	53
22	17	11	14	10	3	8	5	0	2	2	0	0	0	0	0	0	64
23	13	11	6	16	11	8	3	4	6	0	2	0	0	1	0	0	62
24	6	17	15	10	18	7	9	6	2	1	1	0	1	0	0	0	59
25	12	17	16	15	19	12	25	17	8	8	2	4	0	0	0	0	71
26	7	13	13	12	11	11	9	9	7	4	3	1	0	0	0	0	49
27	9	13	7	15	8	10	14	11	16	6	6	2	2	1	0	0	45
28	10	13	6	4	10	11	8	12	6	7	7	4	4	3	1	2	38
29	7	4	8	5	6	10	9	9	5	4	4	4	4	1	0	0	29
30	10	10	11	12	15	7	19	19	10	12	13	12	7	8	5	3	51
31	0	2	3	2	4	2	6	2	4	4	7	2	3	3	4	2	14
32	9	5	8	8	5	10	10	13	12	10	14	7	5	8	3	4	37
33	6	4	6	9	6	8	10	12	10	5	12	11	7	8	6	4	36
34	3	3	3	4	3	5	7	6	6	8	8	8	3	3	3	3	28
35	11	9	7	7	11	7	14	19	15	15	12	17	16	10	15	11	45
36	5	11	5	8	9	8	10	9	6	9	5	10	10	11	5	8	35
37	8	4	1	4	2	4	7	6	10	7	8	9	7	7	10	5	32
38	5	6	1	4	6	3	6	10	12	8	14	6	5	11	8	9	33
39	1	1	2	1	3	3	5	2	7	1	5	6	8	8	10	7	25
40	1	3	4	6	4	9	13	10	15	7	12	12	17	13	16	14	47
41	3	0	1	2	2	1	5	3	6	2	6	4	7	2	5	4	21
42	0	1	0	1	1	1	4	3	4	3	4	3	6	8	9	4	21
43	1	1	2	2	3	2	8	5	5	3	6	9	4	7	6	6	19
44	2	1	1	2	1	2	3	3	6	4	2	2	7	4	2	6	17
45	2	1	2	3	3	5	9	9	7	7	9	12	14	15	16	13	43
46	0	0	0	1	1	2	1	1	0	1	1	1	1	2	0	2	8
47	1	0	0	0	1	1	1	2	2	0	3	4	3	2	4	4	13
48	0	0	0	2	2	1	5	3	3	2	7	3	7	4	6	9	24
49	0	0	0	0	0	0	1	1	2	0	1	2	1	2	3	1	10
50	0	1	2	0	1	1	3	2	8	5	11	9	11	14	7	16	46
51	0	0	0	1	1	1	2	2	3	1	4	3	2	2	9	2	27
52	0	1	0	0	1	0	2	0	3	4	3	1	3	4	7	5	24
53	0	0	0	0	0	1	1	1	0	0	1	1	2	2	2	2	19
54	0	0	0	0	0	1	1	0	0	1	0	0	0	0	1	2	12
55	0	0	1	0	0	3	2	4	1	3	4	4	5	14	6	6	43
56	0	0	0	0	0	0	0	0	2	2	1	0	1	2	3	2	18
57	0	0	0	0	0	0	0	1	0	1	0	0	2	1	1	1	12
58	0	0	0	0	0	0	0	0	0	0	1	0	1	2	2	1	14
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	9
60	0	0	0	0	0	0	0	0	0	1	0	2	1	1	2	3	37
61	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	5
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
63	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	9
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Unknown	1	0	1	4	4	1	6	2	6	2	8	2	11	12	16	15	
TOTAL	196	196	170	180	188	173	247	221	217	160	207	178	190	197	195	177	

Table A.15. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for Urban

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	250
16	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	312
17	8	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	299
18	14	4	3	4	0	0	0	0	0	0	0	0	0	0	0	0	269
19	17	20	9	2	3	0	0	0	0	0	0	0	0	0	0	0	254
20	27	20	16	12	4	1	0	0	0	0	0	0	0	0	0	0	307
21	23	25	25	17	3	3	0	0	0	0	0	0	0	0	0	0	251
22	48	33	37	24	28	17	9	1	3	1	1	0	0	0	0	0	320
23	41	29	31	32	26	16	9	8	0	0	1	0	0	0	0	0	310
24	43	29	38	29	28	16	12	14	5	2	0	0	0	0	0	0	288
25	42	36	43	38	39	26	27	15	14	8	2	1	1	0	0	0	306
26	36	36	36	48	32	42	44	26	24	12	10	3	1	0	0	0	294
27	47	29	53	40	39	29	36	30	23	25	11	5	1	1	0	0	269
28	23	43	42	57	46	39	37	50	37	34	33	15	9	4	1	0	290
29	24	31	28	40	34	36	41	38	48	34	26	26	19	12	4	0	255
30	21	29	33	47	43	59	48	43	51	33	54	36	30	15	9	2	291
31	15	17	23	33	28	34	32	56	41	43	34	28	25	26	19	6	229
32	15	19	29	31	26	24	28	48	40	44	42	36	28	26	21	22	209
33	10	10	26	28	25	22	34	40	35	32	40	49	41	41	24	20	237
34	11	13	26	22	23	21	22	27	28	31	28	38	26	38	32	18	205
35	12	15	8	16	21	30	25	31	29	36	35	38	32	39	43	37	225
36	6	11	5	14	15	14	20	19	21	24	21	29	24	30	32	24	164
37	4	5	13	9	16	19	30	27	27	18	41	35	30	42	43	30	211
38	9	7	11	11	13	10	26	19	25	25	28	32	32	50	43	36	219
39	3	10	5	9	12	21	19	21	24	23	25	30	25	36	42	41	234
40	3	5	7	9	5	17	15	11	21	11	22	29	27	49	24	41	211
41	1	5	3	8	2	7	12	21	15	18	18	18	16	24	27	27	178
42	2	0	2	7	7	8	5	10	11	14	26	25	15	31	20	28	207
43	1	4	6	6	3	7	9	11	17	12	10	16	14	21	28	35	241
44	1	2	0	2	1	7	5	5	5	14	14	18	21	22	21	24	182
45	0	0	0	2	2	2	4	3	4	9	12	11	13	24	20	19	201
46	0	0	2	0	4	1	2	2	4	2	7	6	9	12	21	10	163
47	0	0	0	0	1	2	0	2	6	3	7	10	7	10	10	10	152
48	0	0	0	0	0	3	0	2	1	4	8	3	7	11	8	17	179
49	0	0	0	0	0	0	0	1	1	0	1	2	2	4	4	6	103
50	0	0	0	2	1	0	2	1	1	4	4	2	2	6	7	10	138
51	0	0	0	0	0	0	0	0	0	1	2	3	8	3	4	11	135
52	0	0	0	0	1	0	0	0	2	2	1	4	5	6	10	10	168
53	0	0	1	0	0	0	0	0	2	2	0	2	1	3	6	6	158
54	0	0	0	0	0	0	0	1	2	1	2	2	2	2	3	2	131
55	0	0	0	0	0	0	0	0	1	1	2	2	5	2	3	3	134
56	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	71
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	89
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	99
59	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	2	64
60	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	120
61	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	48
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	58
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
Unknown	7	5	13	20	10	16	11	16	19	14	27	19	16	22	35	52	
TOTAL	516	494	575	621	542	549	564	599	588	537	595	574	496	615	571	552	

Table A.16. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for Rural

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	137
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133
17	6	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	169
18	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166
19	13	11	3	3	0	0	0	0	0	0	0	0	0	0	0	0	115
20	13	12	13	8	2	1	0	0	0	0	0	0	0	0	0	0	135
21	17	16	12	6	2	1	0	0	0	0	0	0	0	0	0	0	113
22	37	17	23	15	15	9	5	3	1	0	0	0	0	0	0	0	165
23	21	22	20	20	17	10	6	3	1	1	0	0	0	0	0	0	125
24	23	15	17	21	12	18	12	2	4	0	0	0	0	0	0	0	123
25	16	14	15	21	18	17	13	14	7	4	1	1	0	0	0	0	104
26	18	21	24	30	20	18	20	17	9	10	4	1	1	0	0	0	118
27	9	6	16	15	14	16	9	10	13	12	7	1	3	0	0	0	74
28	4	13	16	16	13	15	9	10	11	5	5	6	4	2	2	0	84
29	10	18	15	14	21	23	22	22	28	17	13	9	9	5	1	1	82
30	16	7	22	25	24	22	22	31	21	25	20	21	12	10	5	4	123
31	12	5	12	7	17	14	18	13	15	21	10	15	17	9	2	4	76
32	12	10	11	13	16	11	28	10	26	29	25	31	17	11	10	5	102
33	6	5	14	16	13	9	14	20	15	16	20	22	23	15	15	7	97
34	4	6	6	11	10	5	13	14	25	21	12	13	15	13	15	11	78
35	8	5	8	11	14	14	11	14	23	14	21	20	22	33	20	17	100
36	2	8	3	7	6	11	9	12	11	10	9	10	13	9	24	5	60
37	3	2	5	1	8	15	16	10	6	9	15	14	28	24	14	20	87
38	4	8	7	5	7	14	12	12	16	18	14	27	23	24	16	21	108
39	2	3	9	5	8	6	9	15	6	15	15	14	17	17	20	24	101
40	2	1	4	9	10	5	7	8	9	13	12	14	18	18	18	18	95
41	2	1	3	2	6	1	5	9	7	7	11	12	13	13	27	14	84
42	1	0	4	4	1	1	3	5	11	5	7	5	9	11	11	8	67
43	1	1	4	2	3	5	2	6	6	8	9	9	8	22	10	19	76
44	1	1	1	2	1	5	2	6	6	4	10	9	12	7	14	10	68
45	0	1	1	2	2	3	6	6	6	3	5	6	9	13	12	16	87
46	0	0	1	1	3	1	2	2	1	1	5	7	4	6	3	4	51
47	0	0	0	0	0	0	0	1	0	6	1	5	3	6	8	9	73
48	0	1	2	0	0	1	3	4	3	1	3	0	4	4	8	6	63
49	0	0	0	1	1	1	2	2	1	4	0	2	2	8	10	4	63
50	0	0	1	1	1	1	1	2	3	2	3	4	5	6	7	7	60
51	0	0	0	0	0	1	0	0	3	2	2	4	6	4	5	4	57
52	0	0	0	0	0	1	0	1	4	2	1	4	5	4	5	2	72
53	0	0	0	0	0	1	1	2	0	1	1	2	3	1	4	5	85
54	0	0	0	0	0	0	0	0	0	1	1	1	2	1	5	3	65
55	0	0	0	0	0	0	0	0	1	0	1	2	2	5	6	4	86
56	0	0	0	0	0	0	0	0	0	0	0	2	2	2	7	4	55
57	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	51
58	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	1	70
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	27
60	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	66
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	48
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
64	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	45
Unknown	0	2	1	7	9	11	6	5	9	4	7	10	8	13	16	18	
TOTAL	274	236	293	302	294	287	288	291	309	292	270	305	321	319	328	280	

Table A.17. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for West Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
16	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	121
17	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
18	9	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	141
19	2	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	123
20	13	19	7	5	1	1	0	0	0	0	0	0	0	0	0	0	166
21	10	10	12	5	0	2	0	0	0	0	0	0	0	0	0	0	130
22	30	12	22	10	16	8	5	0	0	0	0	0	0	0	0	0	181
23	20	12	17	21	7	7	2	4	0	0	1	0	0	0	0	0	173
24	18	17	20	10	7	5	7	3	4	1	0	0	0	0	0	0	141
25	19	17	17	17	23	13	12	5	9	0	0	0	0	0	0	0	179
26	23	26	16	28	18	24	18	12	8	7	7	2	0	0	0	0	168
27	23	16	21	19	16	16	11	19	9	15	1	0	0	0	0	0	142
28	13	25	18	35	21	19	25	27	23	12	13	11	3	3	2	0	164
29	6	28	17	16	16	22	23	28	36	18	10	12	12	8	3	0	148
30	9	12	19	20	23	33	16	19	26	20	33	21	11	7	5	1	164
31	7	7	12	15	13	19	17	27	25	26	15	16	17	18	6	1	120
32	8	8	10	10	14	9	18	23	18	26	21	29	9	13	8	9	108
33	5	7	12	19	16	11	17	27	17	15	26	30	27	20	13	8	155
34	4	10	17	13	10	10	9	11	22	13	12	21	14	16	10	10	111
35	5	5	3	9	10	12	11	15	22	15	14	25	15	18	22	15	119
36	0	2	3	4	7	6	7	12	7	12	10	17	12	13	19	7	87
37	2	4	4	4	4	14	19	16	5	8	27	18	24	28	23	18	131
38	4	2	7	3	4	4	17	9	10	20	11	22	15	25	22	11	123
39	1	4	3	7	8	13	13	7	13	11	11	16	12	15	17	26	138
40	0	1	2	3	5	8	6	2	8	5	5	20	13	21	15	22	129
41	0	2	2	1	1	4	5	12	11	10	10	14	13	16	17	16	117
42	0	0	2	2	2	0	3	4	9	2	14	14	6	19	5	14	116
43	0	3	1	3	4	2	5	5	9	6	5	8	4	7	12	16	125
44	0	0	0	2	0	2	0	2	3	4	10	7	8	11	10	4	88
45	0	0	0	0	0	0	0	0	3	3	3	8	5	6	12	14	121
46	0	0	2	0	0	0	0	0	2	0	3	5	3	6	14	7	99
47	0	0	0	0	1	0	0	1	3	4	2	8	1	4	6	8	110
48	0	0	0	0	0	2	0	0	0	1	5	1	3	3	2	7	104
49	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	3	72
50	0	0	0	0	0	0	0	0	0	1	1	0	1	1	2	6	79
51	0	0	0	0	0	0	0	0	0	0	1	4	2	0	1	5	89
52	0	0	0	0	0	0	0	0	1	2	0	1	3	3	5	4	106
53	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	3	113
54	0	0	0	0	0	0	0	0	1	1	0	1	1	0	2	0	79
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	60
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	41
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Unknown	3	4	7	10	7	7	2	10	14	5	8	8	7	6	10	29	
TOTAL	238	268	277	293	254	273	268	303	319	263	284	336	243	297	268	266	

Table A.18. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for South Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
17	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
18	3	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	59
19	9	2	4	1	1	0	0	0	0	0	0	0	0	0	0	0	51
20	7	0	3	3	2	0	0	0	0	0	0	0	0	0	0	0	46
21	9	5	5	4	1	0	0	0	0	0	0	0	0	0	0	0	58
22	5	9	7	5	8	0	3	3	0	0	1	0	0	0	0	0	52
23	10	4	9	6	10	3	1	2	0	1	0	0	0	0	0	0	54
24	10	3	9	7	5	5	2	3	0	0	0	0	0	0	0	0	58
25	7	3	6	8	7	7	4	3	2	1	1	0	1	0	0	0	45
26	8	8	11	9	11	11	9	7	4	3	3	1	1	0	0	0	58
27	9	1	13	10	7	6	6	4	3	3	5	1	0	0	0	0	50
28	4	8	7	11	8	12	5	7	10	6	5	2	6	1	1	0	50
29	5	5	3	6	4	8	3	9	7	8	7	4	1	0	0	0	37
30	5	6	5	8	8	10	8	10	15	4	6	6	7	0	2	0	49
31	5	3	2	5	7	7	6	6	6	6	11	3	4	5	3	0	42
32	4	2	6	8	4	4	7	10	13	11	15	7	6	4	8	5	47
33	5	0	5	6	6	3	6	8	10	11	7	11	8	9	3	4	48
34	2	4	2	4	9	3	11	8	11	6	5	9	8	11	7	4	47
35	5	3	3	6	3	6	4	1	8	9	12	11	9	11	6	6	47
36	0	4	1	2	2	3	7	3	7	8	4	4	7	5	4	2	32
37	2	0	5	4	4	7	8	4	6	4	7	10	8	10	3	5	38
38	2	4	1	3	3	2	2	1	7	2	7	6	7	8	7	7	35
39	0	4	4	1	1	3	3	6	6	6	8	5	6	11	14	8	56
40	1	2	1	3	1	3	1	1	4	2	6	2	2	14	6	5	42
41	0	0	0	0	0	0	2	3	2	3	3	0	2	3	7	5	24
42	1	0	2	2	1	1	2	5	2	4	9	2	4	10	7	7	30
43	1	0	2	1	0	1	0	4	2	2	1	6	4	9	6	11	49
44	0	2	0	0	0	2	1	1	1	4	4	3	5	5	7	6	32
45	0	0	0	1	0	3	4	1	1	2	3	1	5	8	2	5	33
46	0	0	0	0	2	0	1	0	1	0	3	4	1	2	4	0	23
47	0	0	0	0	0	1	0	0	0	2	1	2	2	3	2	2	31
48	0	0	0	0	0	0	1	2	0	1	1	0	3	2	2	3	29
49	0	0	0	0	0	0	0	1	0	0	0	1	2	1	2	2	17
50	0	0	0	1	0	0	0	0	1	0	1	0	0	3	3	1	31
51	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	3	21
52	0	0	0	0	0	0	0	0	0	0	0	2	2	0	3	1	34
53	0	0	0	0	0	0	0	0	0	0	0	2	1	1	5	2	32
54	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	2	25
55	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1	27
56	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	0	15
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	24
59	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	18
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	25
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Unknown	2	0	2	4	2	4	6	4	4	5	5	4	5	2	11	10	
TOTAL	123	83	119	131	117	115	113	117	133	114	143	110	121	143	133	109	

Table A.19. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for Central Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
17	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	113
18	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
19	8	9	2	3	0	0	0	0	0	0	0	0	0	0	0	0	90
20	6	2	11	3	0	0	0	0	0	0	0	0	0	0	0	0	99
21	10	10	14	6	2	0	0	0	0	0	0	0	0	0	0	0	78
22	19	16	14	7	7	9	2	0	2	0	0	0	0	0	0	0	116
23	11	14	12	4	10	5	5	0	0	0	0	0	0	0	0	0	93
24	15	10	11	13	15	14	7	5	2	0	0	0	0	0	0	0	97
25	13	8	13	12	6	8	11	6	3	3	0	0	0	0	0	0	79
26	5	6	15	18	9	11	15	11	10	6	1	0	0	0	0	0	84
27	6	9	12	5	13	2	7	2	10	7	1	1	0	0	0	0	61
28	4	9	17	7	11	9	5	13	5	10	10	5	3	1	0	0	81
29	8	4	5	14	16	7	17	4	13	8	9	9	4	7	1	0	67
30	5	5	11	22	16	13	23	16	10	10	15	14	11	6	0	0	94
31	4	6	8	7	15	11	17	17	8	18	10	14	13	5	5	4	76
32	3	9	9	11	9	11	4	12	16	12	15	19	9	8	3	6	72
33	1	2	7	6	5	3	9	7	6	6	8	9	13	9	8	5	52
34	2	2	5	5	5	6	4	6	3	16	10	10	8	11	15	4	56
35	2	6	0	4	7	13	8	12	8	9	12	9	11	16	18	17	81
36	3	4	0	4	5	6	5	6	6	4	6	7	5	8	16	4	49
37	0	0	4	1	7	5	7	6	13	7	10	6	9	11	14	14	65
38	2	5	3	4	5	5	4	9	6	9	12	9	12	18	15	20	90
39	1	1	1	0	6	5	5	11	2	6	12	9	9	14	11	16	70
40	0	0	2	0	3	0	2	4	6	4	6	5	10	7	6	13	60
41	0	0	3	4	3	0	3	5	3	5	9	8	7	13	16	9	72
42	0	0	0	2	2	6	1	0	8	8	4	7	3	6	7	5	80
43	0	0	1	1	0	5	2	0	3	2	6	3	3	6	7	11	70
44	0	0	1	0	0	4	2	2	3	3	3	4	9	4	4	10	71
45	0	0	0	2	2	0	1	1	1	2	0	2	2	8	8	7	78
46	0	0	0	0	1	0	0	2	0	1	2	1	2	5	1	1	52
47	0	0	0	0	0	1	0	1	3	0	3	3	3	4	6	0	50
48	0	1	2	0	0	0	0	3	1	0	2	0	2	3	8	5	51
49	0	0	0	0	0	0	0	1	1	0	0	1	0	2	4	1	44
50	0	0	0	0	0	0	2	0	0	3	1	1	1	3	5	3	51
51	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	2	40
52	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	2	52
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	51
54	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	54
55	0	0	0	0	0	0	0	0	1	0	0	2	2	1	1	2	50
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	37
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
58	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	42
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
60	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	45
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Unknown	0	0	2	9	5	5	2	1	4	2	9	6	5	10	8	11	
TOTAL	141	138	186	174	185	164	170	163	158	161	176	166	161	189	193	177	

Table A.20. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for North Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
19	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
20	1	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	25
21	3	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	25
22	4	2	0	3	0	3	1	0	0	0	0	0	0	0	0	0	36
23	3	4	1	3	3	1	0	0	0	0	0	0	0	0	0	0	31
24	5	4	4	5	4	2	1	0	0	0	0	0	0	0	0	0	30
25	1	1	4	4	2	2	1	1	1	0	0	0	0	0	0	0	19
26	6	8	6	4	3	4	6	3	4	0	0	0	0	0	0	0	32
27	2	2	6	5	2	7	3	4	7	1	2	0	1	0	0	0	25
28	0	2	1	4	4	1	3	0	1	2	2	0	0	0	0	0	18
29	6	2	4	4	5	6	6	4	4	3	2	1	0	1	0	0	25
30	3	2	6	3	3	6	5	7	5	3	3	5	3	4	1	1	34
31	1	0	4	4	3	3	1	4	3	5	2	4	2	3	2	1	24
32	1	1	4	4	2	3	6	4	3	6	3	0	7	3	4	1	25
33	1	1	4	4	1	4	1	6	3	5	5	7	4	4	6	1	24
34	1	2	1	1	3	1	1	4	8	3	5	3	6	4	5	5	28
35	0	0	0	1	3	2	2	1	2	4	2	3	2	7	4	3	19
36	1	1	0	1	1	2	2	4	1	1	1	1	6	3	2	3	17
37	0	0	1	0	0	2	3	2	1	1	2	2	7	4	4	4	19
38	1	1	4	2	1	2	7	3	6	3	4	8	7	10	7	7	34
39	1	0	1	0	3	1	2	4	3	5	3	3	3	4	5	8	23
40	0	0	1	3	0	2	1	3	1	2	3	4	2	5	4	3	23
41	0	1	0	1	0	0	2	0	0	1	1	1	1	0	4	3	17
42	0	0	0	0	0	0	0	1	0	0	1	1	2	2	4	4	19
43	0	1	1	2	0	2	1	2	1	2	1	4	2	10	5	6	38
44	0	0	0	0	0	1	2	3	1	2	2	2	3	3	3	5	24
45	0	0	0	0	0	0	1	0	1	0	0	1	0	1	1	1	20
46	0	0	0	0	1	0	1	0	0	0	0	1	2	2	1	2	19
47	0	0	0	0	0	0	0	0	0	1	0	0	0	4	2	3	18
48	0	0	0	0	0	1	2	0	0	0	0	0	0	1	1	2	25
49	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	17
50	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	13
51	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	13
52	0	0	0	0	0	0	0	0	1	1	0	0	2	1	1	0	15
53	0	0	1	0	0	0	0	0	0	2	0	0	0	1	0	0	18
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
56	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	12
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	17
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Unknown	0	1	0	2	3	5	5	3	3	4	3	6	1	10	7	7	
TOTAL	42	45	56	64	48	63	66	63	61	57	49	59	63	90	77	70	

Table A.21. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for East Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
16	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
17	4	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	117
18	5	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	101
19	9	7	3	2	2	0	0	0	0	0	0	0	0	0	0	0	72
20	13	8	9	7	3	2	0	0	0	0	0	0	0	0	0	0	106
21	8	14	5	7	1	2	0	0	0	0	0	0	0	0	0	0	74
22	26	11	17	14	12	6	3	1	2	1	0	0	0	0	0	0	100
23	17	18	12	18	13	10	7	5	1	0	0	0	0	0	0	0	85
24	18	11	11	15	9	9	7	6	4	1	0	0	0	0	0	0	85
25	18	21	18	18	20	14	12	14	6	7	1	2	0	0	0	0	87
26	14	9	12	19	10	10	16	10	8	5	3	3	1	0	0	0	70
27	15	7	17	15	15	14	19	12	8	11	8	4	3	1	0	0	66
28	6	11	15	17	15	14	7	14	9	9	8	4	2	1	0	0	61
29	9	10	14	15	14	16	14	14	16	14	10	8	11	2	1	1	59
30	14	10	14	19	17	17	18	22	16	20	16	10	10	7	5	4	75
31	10	6	9	9	8	8	9	15	13	9	7	6	7	5	4	4	43
32	12	9	11	11	13	10	21	10	16	18	14	12	14	10	9	5	58
33	5	5	11	10	11	10	15	13	14	12	14	14	12	16	9	8	55
34	6	2	7	10	7	6	10	12	9	13	8	9	6	10	10	6	41
35	8	6	9	7	12	12	11	15	13	13	16	10	16	19	14	13	60
36	3	7	5	11	6	9	8	6	11	9	9	10	8	11	14	13	39
37	3	3	4	2	8	6	9	9	9	8	10	13	10	14	13	9	44
38	5	4	2	3	6	11	8	10	11	8	8	13	14	12	8	12	43
39	1	4	5	6	3	6	5	8	6	10	7	11	12	9	14	6	48
40	5	2	6	9	5	9	12	10	11	11	14	13	18	20	11	16	52
41	3	3	1	4	3	3	5	10	5	5	6	8	6	4	12	7	32
42	1	0	1	4	3	2	2	5	3	4	4	6	9	5	8	6	29
43	2	2	4	2	2	3	4	6	7	7	6	4	8	11	8	11	34
44	1	1	0	2	2	4	3	3	3	5	5	11	8	6	11	9	35
45	0	1	1	1	2	2	4	4	5	4	6	8	10	9	11	8	35
46	0	0	1	1	2	1	2	2	1	3	3	2	4	4	3	3	21
47	0	0	0	0	0	0	0	1	0	3	1	2	3	2	2	6	16
48	0	0	1	0	0	1	1	1	3	2	3	2	4	5	3	6	32
49	0	0	0	1	1	1	2	1	1	4	1	3	2	3	5	4	16
50	0	0	1	1	1	1	1	2	3	2	4	4	4	4	3	7	24
51	0	0	0	0	0	1	0	0	2	3	1	3	7	6	7	5	30
52	0	0	0	0	1	1	0	1	4	1	3	5	2	5	5	5	32
53	0	0	0	0	0	1	1	2	1	1	1	3	3	3	4	5	28
54	0	0	0	0	0	0	0	1	1	1	2	2	3	1	4	1	26
55	0	0	0	0	0	0	0	0	1	1	3	2	3	4	7	4	38
56	0	0	0	0	0	0	0	0	0	0	0	1	2	3	5	4	23
57	0	0	0	0	0	0	0	0	0	1	0	1	1	1	2	1	22
58	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	26
59	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	12
60	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	33
61	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	9
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
64	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	14
Unknown	1	2	2	3	3	6	3	2	2	3	9	5	6	7	14	13	
TOTAL	243	199	229	265	231	228	239	247	226	229	211	215	230	222	229	207	

APPENDIX B

Table B.1. Values of Expansion Factors for Urban-Rural and Five Regions Derived from Household Data of TDHS-1993

Age of child (x)	TDHS-1993 Expansion Factors						
	Urban K_x	Rural K_x	West K_x	South K_x	Central K_x	North K_x	East K_x
0	1.0063	1.0030	1.0046	1.0165	1.0000	1.0115	1.0000
1	1.0130	1.0071	1.0059	1.0187	1.0118	1.0303	1.0000
2	1.0151	1.0336	1.0112	1.0495	1.0376	1.0159	1.0107
3	1.0070	1.0208	1.0000	1.0174	1.0189	1.0469	1.0108
4	1.0135	1.0250	1.0206	1.0080	1.0268	1.0366	1.0096
5	1.0336	1.0192	1.0383	1.0234	1.0240	1.0476	1.0158
6	1.0102	1.0396	1.0048	1.0167	1.0284	1.0606	1.0209
7	1.0226	1.0312	1.0216	1.0207	1.0419	1.0135	1.0221
8	1.0372	1.0287	1.0465	1.0608	1.0237	1.0250	1.0119
9	1.0533	1.0279	1.0519	1.0385	1.0465	1.0595	1.0217
10	1.0521	1.0304	1.0211	1.0573	1.0777	1.0515	1.0271
11	1.0449	1.0137	1.0437	1.0357	1.0266	1.0533	1.0140
12	1.0662	1.0321	1.0680	1.0688	1.0343	1.0707	1.0318
13	1.0558	1.0424	1.0432	1.0503	1.0308	1.0842	1.0619
14	1.0623	1.0700	1.0702	1.0473	1.0918	1.0897	1.0464
15	1.1227	1.0404	1.1160	1.0896	1.0628	1.1149	1.0574

Table B.2. Values of Expansion Factors for Urban-Rural and Five Regions Derived from Household Data of TDHS-1998

Age of child (x)	TDHS-1998 Expansion Factors						
	Urban K_x	Rural K_x	West K_x	South K_x	Central K_x	North K_x	East K_x
0	1.0041	1.0168	1.0170	1.0092	1.0000	1.0351	1.0051
1	1.0088	1.0000	1.0133	1.0093	1.0000	1.0000	1.0000
2	1.0116	1.0172	1.0242	1.0217	1.0143	1.0185	1.0059
3	1.0068	1.0287	1.0000	1.0194	1.0146	1.0308	1.0227
4	1.0249	1.0389	1.0291	1.0521	1.0241	1.0400	1.0217
5	1.0240	1.0113	1.0099	1.0440	1.0397	1.0169	1.0058
6	1.0338	1.0132	1.0453	1.0093	1.0121	1.0000	1.0249
7	1.0346	1.0219	1.0316	1.0545	1.0504	1.0185	1.0091
8	1.0294	1.0438	1.0426	1.0265	1.0435	1.0154	1.0284
9	1.0346	1.0354	1.0388	1.0300	1.0414	1.0816	1.0127
10	1.0406	1.0704	1.0517	1.0833	1.0400	1.0678	1.0402
11	1.0554	1.0451	1.0676	1.0367	1.0815	1.0862	1.0114
12	1.0586	1.1004	1.0796	1.0522	1.0814	1.1061	1.0615
13	1.0458	1.0970	1.0658	1.0667	1.0541	1.0923	1.0649
14	1.0681	1.0841	1.0864	1.0777	1.0479	1.0606	1.0894
15	1.0519	1.1037	1.0433	1.0297	1.1119	1.1020	1.0926

Table B.3. Values of Expansion Factors for Urban-Rural and Five Regions Derived from Household Data of TDHS-2003

Age of child (x)	TDHS-2003 Expansion Factors						
	Urban K _x	Rural K _x	West K _x	South K _x	Central K _x	North K _x	East K _x
0	1.0138	1.0000	1.0128	1.0165	1.0000	1.0000	1.0041
1	1.0102	1.0085	1.0152	1.0000	1.0000	1.0227	1.0102
2	1.0231	1.0034	1.0259	1.0171	1.0109	1.0000	1.0088
3	1.0333	1.0237	1.0353	1.0315	1.0545	1.0323	1.0115
4	1.0188	1.0316	1.0283	1.0174	1.0278	1.0667	1.0132
5	1.0300	1.0399	1.0263	1.0360	1.0314	1.0862	1.0270
6	1.0199	1.0213	1.0075	1.0561	1.0119	1.0820	1.0127
7	1.0274	1.0175	1.0341	1.0354	1.0062	1.0500	1.0082
8	1.0334	1.0300	1.0459	1.0310	1.0260	1.0517	1.0089
9	1.0268	1.0139	1.0194	1.0459	1.0126	1.0755	1.0133
10	1.0475	1.0266	1.0290	1.0362	1.0539	1.0652	1.0446
11	1.0342	1.0339	1.0244	1.0377	1.0375	1.1132	1.0238
12	1.0333	1.0256	1.0297	1.0431	1.0321	1.0161	1.0268
13	1.0371	1.0425	1.0206	1.0142	1.0559	1.1250	1.0326
14	1.0653	1.0513	1.0388	1.0902	1.0432	1.1000	1.0651
15	1.1040	1.0687	1.1224	1.1010	1.0663	1.1111	1.0670

APPENDIX C

Table C.1. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding the Urban

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96008	15	92898	0.92405	40	89045	0.88929
1	94300	0.94041	16	92825	0.91954	41	88796	0.88814
2	93795	0.93688	17	92745	0.92632	42	88534	0.88462
3	93513	0.93301	18	92657	0.93204	43	88258	0.87952
4	93318	0.93750	19	92561	0.91964	44	87966	0.87853
5	93168	0.93077	20	92458	0.92500	45	87655	0.87599
6	93047	0.92727	21	92347	0.92188	46	87323	0.87224
7	92945	0.92708	22	92229	0.91912	47	86968	0.86788
8	92856	0.93023	23	92104	0.92308	48	86587	0.86316
9	92776	0.92405	24	91972	0.91391	49	86177	0.86019
10	92703	0.92105	25	91834	0.91772	50	85734	0.85357
11	92633	0.93333	26	91689	0.91463	51	85256	0.85082
12	92563	0.92208	27	91539	0.91228	52	84737	0.84408
13	92492	0.92683	28	91383	0.91525	53	84174	0.83858
14	92416	0.92222	29	91221	0.90710	54	83561	0.83292
15	92333	0.92929	30	91055	0.91005	55	82893	0.82426
			31	90883	0.91282	56	82166	0.81771
			32	90705	0.90594	57	81372	0.80935
			33	90522	0.90431	58	80506	0.80017
			34	90333	0.90278	59	79561	0.79080
			35	90138	0.90179	60	78529	0.77978
			36	89936	0.90129	61	77403	0.76783
			37	89726	0.89300	62	76176	0.75494
			38	89509	0.89370	63	74839	0.74108
			39	89282	0.89098	64	73385	0.72610

Table C.2. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding the Rural

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.94471	15	88804	0.88889	40	83169	0.82872
1	92106	0.91527	16	88692	0.88406	41	82840	0.82809
2	91069	0.90769	17	88570	0.88079	42	82498	0.82367
3	90538	0.90501	18	88437	0.88415	43	82143	0.82080
4	90195	0.90110	19	88292	0.88202	44	81772	0.81513
5	89949	0.90000	20	88135	0.87958	45	81384	0.81312
6	89760	0.89412	21	87967	0.88235	46	80975	0.80712
7	89608	0.89437	22	87787	0.87558	47	80544	0.80141
8	89481	0.89431	23	87597	0.87391	48	80088	0.79934
9	89371	0.90000	24	87396	0.87552	49	79602	0.79294
10	89272	0.89320	25	87185	0.86905	50	79085	0.78917
11	89180	0.89109	26	86966	0.87023	51	78531	0.78129
12	89090	0.89423	27	86738	0.86397	52	77938	0.77616
13	88997	0.88288	28	86503	0.86121	53	77300	0.77044
14	88899	0.89256	29	86261	0.86159	54	76612	0.76259
15	88791	0.88889	30	86012	0.86195	55	75870	0.75447
			31	85756	0.85574	56	75068	0.74549
			32	85495	0.85304	57	74201	0.73804
			33	85228	0.85047	58	73260	0.72714
			34	84955	0.85106	59	72242	0.71753
			35	84675	0.84615	60	71137	0.70477
			36	84389	0.83908	61	69941	0.69321
			37	84097	0.84078	62	68644	0.67942
			38	83796	0.83740	63	67241	0.66506
			39	83487	0.83246	64	65724	0.64909

Table C.3. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding West Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96426	15	93188	0.93671	40	89418	0.89299
1	94901	0.94670	16	93114	0.93103	41	89176	0.88811
2	94457	0.94422	17	93033	0.92632	42	88922	0.89109
3	94220	0.94083	18	92945	0.92233	43	88652	0.88545
4	94061	0.94488	19	92850	0.93694	44	88366	0.88116
5	93941	0.94059	20	92746	0.92437	45	88062	0.88108
6	93846	0.92941	21	92636	0.92126	46	87736	0.87469
7	93767	0.94521	22	92519	0.92537	47	87387	0.87209
8	93698	0.93846	23	92395	0.92908	48	87012	0.86910
9	93637	0.93333	24	92264	0.91892	49	86607	0.86364
10	93581	0.94737	25	92128	0.92208	50	86170	0.85870
11	93527	0.93103	26	91986	0.92500	51	85696	0.85548
12	93473	0.91803	27	91838	0.91566	52	85181	0.84825
13	93417	0.94030	28	91686	0.91860	53	84622	0.84349
14	93354	0.93421	29	91528	0.91011	54	84013	0.83733
15	93283	0.93103	30	91366	0.91257	55	83349	0.83028
			31	91199	0.91534	56	82625	0.82206
			32	91026	0.90769	57	81835	0.81321
			33	90849	0.90594	58	80973	0.80513
			34	90666	0.90431	59	80031	0.79505
			35	90477	0.90278	60	79003	0.78446
			36	90282	0.90222	61	77882	0.77244
			37	90079	0.90171	62	76660	0.76014
			38	89868	0.89796	63	75329	0.74588
			39	89648	0.89494	64	73882	0.73116

Table C.4. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding South Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.95522	15	91559	0.92000	40	87136	0.87188
1	93601	0.93269	16	91467	0.91667	41	86857	0.86607
2	92922	0.92742	17	91368	0.90598	42	86566	0.86441
3	92577	0.92531	18	91262	0.92000	43	86260	0.86096
4	92354	0.92571	19	91147	0.91045	44	85938	0.85894
5	92192	0.91912	20	91025	0.90909	45	85597	0.85308
6	92067	0.91818	21	90895	0.90728	46	85237	0.85144
7	91966	0.92473	22	90758	0.90566	47	84853	0.84679
8	91880	0.91463	23	90614	0.90476	48	84444	0.84200
9	91805	0.92000	24	90462	0.90857	49	84007	0.83571
10	91736	0.91667	25	90303	0.90164	50	83539	0.83306
11	91670	0.91781	26	90138	0.90000	51	83035	0.82774
12	91603	0.92308	27	89967	0.89899	52	82492	0.82328
13	91531	0.91860	28	89789	0.89756	53	81905	0.81491
14	91452	0.91753	29	89605	0.89623	54	81271	0.80941
15	91363	0.91818	30	89415	0.89498	55	80583	0.80129
			31	89219	0.88987	56	79837	0.79530
			32	89017	0.88889	57	79025	0.78540
			33	88809	0.88843	58	78143	0.77670
			34	88594	0.88446	59	77183	0.76669
			35	88372	0.88462	60	76138	0.75548
			36	88142	0.87778	61	75001	0.74399
			37	87905	0.87900	62	73763	0.73127
			38	87658	0.87671	63	72416	0.71667
			39	87402	0.87213	64	70954	0.70159

Table C.5. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding Central Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.94961	15	91077	0.90909	40	86424	0.86350
1	92801	0.92381	16	90987	0.91589	41	86133	0.85836
2	92025	0.91868	17	90889	0.90598	42	85830	0.85714
3	91607	0.91234	18	90783	0.90551	43	85512	0.85422
4	91326	0.91304	19	90668	0.90511	44	85178	0.84783
5	91116	0.91209	20	90544	0.90476	45	84827	0.84738
6	90950	0.90728	21	90411	0.90446	46	84455	0.84188
7	90813	0.90698	22	90269	0.90419	47	84061	0.83832
8	90696	0.91228	23	90118	0.89831	48	83641	0.83426
9	90592	0.90385	24	89959	0.90323	49	83193	0.83045
10	90498	0.90909	25	89791	0.89286	50	82713	0.82400
11	90408	0.90816	26	89616	0.89706	51	82198	0.81979
12	90319	0.90099	27	89433	0.89202	52	81643	0.81361
13	90228	0.89815	28	89243	0.89140	53	81045	0.80774
14	90131	0.89744	29	89046	0.88646	54	80398	0.80000
15	90026	0.90625	30	88843	0.88608	55	79698	0.79332
			31	88633	0.88571	56	78938	0.78476
			32	88416	0.88492	57	78114	0.77643
			33	88193	0.87739	58	77218	0.76772
			34	87964	0.88104	59	76243	0.75697
			35	87727	0.87410	60	75184	0.74611
			36	87484	0.87500	61	74032	0.73388
			37	87232	0.86913	62	72780	0.72163
			38	86973	0.87097	63	71419	0.70642
			39	86703	0.86378	64	69944	0.69161

Table C.6. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding North Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.95447	15	92230	0.91089	40	88050	0.87755
1	93502	0.93172	16	92138	0.92593	41	87792	0.87742
2	92847	0.92895	17	92038	0.92241	42	87520	0.87195
3	92494	0.92218	18	91931	0.91935	43	87234	0.87356
4	92257	0.92188	19	91817	0.91667	44	86930	0.86523
5	92080	0.91503	20	91696	0.91367	45	86609	0.86398
6	91940	0.92126	21	91569	0.91837	46	86266	0.86118
7	91823	0.92661	22	91434	0.90909	47	85900	0.85808
8	91722	0.91667	23	91294	0.91304	48	85507	0.85223
9	91634	0.90909	24	91147	0.91018	49	85086	0.84888
10	91554	0.91463	25	90995	0.91329	50	84631	0.84364
11	91479	0.91250	26	90837	0.90503	51	84140	0.83886
12	91406	0.91358	27	90675	0.90811	52	83609	0.83357
13	91332	0.91860	28	90507	0.90576	53	83033	0.82672
14	91253	0.91489	29	90334	0.89848	54	82408	0.82027
15	91167	0.90566	30	90157	0.90148	55	81728	0.81319
			31	89974	0.89474	56	80988	0.80700
			32	89787	0.89767	57	80181	0.79673
			33	89594	0.89189	58	79303	0.78765
			34	89396	0.89520	59	78346	0.77852
			35	89191	0.89030	60	77302	0.76772
			36	88980	0.89024	61	76165	0.75519
			37	88761	0.89063	62	74928	0.74297
			38	88533	0.88390	63	73581	0.72809
			39	88297	0.88214	64	72119	0.71358

Table C.7. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding East Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.94402	15	88256	0.88406	40	82582	0.82297
1	92006	0.91578	16	88134	0.87755	41	82238	0.82110
2	90973	0.90753	17	88005	0.88535	42	81880	0.81579
3	90443	0.90000	18	87866	0.87500	43	81508	0.81381
4	90101	0.89818	19	87719	0.87709	44	81119	0.80915
5	89854	0.89623	20	87562	0.87435	45	80712	0.80603
6	89664	0.90058	21	87395	0.87129	46	80284	0.79929
7	89510	0.89510	22	87219	0.87324	47	79834	0.79599
8	89382	0.88710	23	87033	0.86667	48	79358	0.79121
9	89272	0.90000	24	86838	0.86864	49	78854	0.78592
10	89173	0.88350	25	86633	0.86585	50	78318	0.77869
11	89082	0.89000	26	86420	0.86381	51	77748	0.77510
12	88993	0.89216	27	86198	0.86142	52	77138	0.76824
13	88902	0.88991	28	85968	0.85921	53	76485	0.76113
14	88805	0.88333	29	85730	0.85714	54	75784	0.75400
15	88699	0.88889	30	85484	0.85185	55	75030	0.74724
			31	85231	0.85016	56	74217	0.73737
			32	84970	0.84858	57	73341	0.72825
			33	84701	0.84404	58	72395	0.71890
			34	84425	0.84570	59	71372	0.70825
			35	84140	0.83668	60	70265	0.69674
			36	83848	0.83889	61	69068	0.68446
			37	83546	0.83378	62	67773	0.67034
			38	83235	0.83161	63	66374	0.65625
			39	82914	0.82793	64	64862	0.64061

Table C.8. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding the Urban

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96858	15	94447	0.96364	40	91374	0.91489
1	95500	0.95200	16	94394	0.93443	41	91159	0.90800
2	95143	0.95431	17	94337	0.95522	42	90932	0.90602
3	94955	0.94697	18	94273	0.93243	43	90691	0.90845
4	94830	0.94898	19	94204	0.93750	44	90433	0.90132
5	94737	0.96154	20	94129	0.94253	45	90159	0.89939
6	94662	0.93846	21	94047	0.93617	46	89864	0.89802
7	94601	0.94737	22	93959	0.94000	47	89547	0.89295
8	94547	0.94231	23	93865	0.93458	48	89205	0.88942
9	94498	0.95918	24	93765	0.93805	49	88835	0.88742
10	94451	0.92000	25	93659	0.94118	50	88433	0.88057
11	94405	0.94340	26	93547	0.93600	51	87998	0.87800
12	94355	0.93103	27	93430	0.93130	52	87523	0.87184
13	94301	0.95385	28	93308	0.93431	53	87006	0.86656
14	94239	0.94521	29	93180	0.93007	54	86441	0.86192
15	94170	0.92771	30	93047	0.92617	55	85823	0.85461
			31	92909	0.92903	56	85147	0.84880
			32	92765	0.92547	57	84406	0.83954
			33	92616	0.92857	58	83595	0.83162
			34	92460	0.92000	59	82706	0.82179
			35	92299	0.92350	60	81733	0.81188
			36	92130	0.92147	61	80667	0.80096
			37	91954	0.92000	62	79500	0.78850
			38	91770	0.91469	63	78225	0.77518
			39	91577	0.91441	64	76832	0.76064

Table C.9. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding the Rural

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.95584	15	91366	0.91753	40	86869	0.87037
1	93701	0.93544	16	91277	0.90476	41	86587	0.86471
2	93078	0.92837	17	91182	0.91228	42	86293	0.86034
3	92754	0.92609	18	91078	0.91057	43	85985	0.85714
4	92541	0.92353	19	90966	0.90909	44	85661	0.85750
5	92384	0.92481	20	90846	0.90845	45	85318	0.84977
6	92261	0.91818	21	90717	0.90789	46	84956	0.84835
7	92160	0.92473	22	90579	0.90683	47	84570	0.84394
8	92074	0.91566	23	90433	0.90058	48	84159	0.83969
9	91998	0.92105	24	90279	0.90000	49	83719	0.83363
10	91928	0.91781	25	90117	0.90426	50	83248	0.83142
11	91861	0.91892	26	89947	0.89340	51	82740	0.82504
12	91793	0.91139	27	89771	0.89756	52	82193	0.81856
13	91721	0.91860	28	89587	0.89623	53	81602	0.81218
14	91642	0.91753	29	89397	0.89091	54	80962	0.80720
15	91553	0.91818	30	89201	0.88987	55	80267	0.79873
			31	88999	0.88936	56	79513	0.79074
			32	88790	0.88843	57	78693	0.78246
			33	88575	0.88400	58	77801	0.77309
			34	88354	0.88372	59	76830	0.76318
			35	88126	0.88015	60	75773	0.75229
			36	87891	0.87681	61	74622	0.74039
			37	87649	0.87762	62	73370	0.72650
			38	87398	0.86913	63	72010	0.71284
			39	87139	0.87097	64	70533	0.69730

Table C.10. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding West Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96858	15	95043	0.94000	40	92327	0.92093
1	95500	0.95200	16	94996	0.94444	41	92129	0.92140
2	95143	0.94949	17	94945	0.96552	42	91918	0.91803
3	94955	0.94697	18	94889	0.95238	43	91694	0.91603
4	94830	0.94898	19	94829	0.95588	44	91454	0.91135
5	94737	0.96154	20	94764	0.94595	45	91197	0.91118
6	94662	0.93846	21	94694	0.94937	46	90920	0.90881
7	94601	0.94737	22	94619	0.94118	47	90621	0.90476
8	94547	0.94231	23	94539	0.95556	48	90298	0.89974
9	94498	0.93878	24	94453	0.93750	49	89948	0.89858
10	94452	0.94000	25	94363	0.94118	50	89567	0.89224
11	94405	0.94340	26	94267	0.94393	51	89153	0.88976
12	94355	0.94828	27	94166	0.93805	52	88701	0.88351
13	94300	0.93846	28	94060	0.94068	53	88208	0.87948
14	94239	0.94521	29	93949	0.93548	54	87668	0.87426
15	94170	0.93976	30	93833	0.93798	55	87077	0.86729
			31	93712	0.94074	56	86430	0.86061
			32	93585	0.93662	57	85720	0.85323
			33	93452	0.93243	58	84941	0.84471
			34	93314	0.93548	59	84087	0.83661
			35	93169	0.93252	60	83150	0.82623
			36	93017	0.92982	61	82123	0.81522
			37	92858	0.92818	62	80998	0.80431
			38	92690	0.92670	63	79765	0.79049
			39	92513	0.92079	64	78418	0.77666

Table C.11. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding South Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96855	15	94847	0.95918	40	91949	0.91928
1	95503	0.95211	16	94800	0.94444	41	91744	0.91561
2	95165	0.94898	17	94749	0.94915	42	91527	0.91667
3	94979	0.95556	18	94693	0.95385	43	91296	0.91078
4	94850	0.94231	19	94631	0.94366	44	91051	0.90972
5	94752	0.95238	20	94564	0.94872	45	90789	0.90645
6	94672	0.95775	21	94490	0.94118	46	90508	0.90448
7	94604	0.93651	22	94410	0.94505	47	90205	0.90055
8	94545	0.94643	23	94324	0.94898	48	89879	0.89594
9	94492	0.94340	24	94231	0.93333	49	89526	0.89277
10	94442	0.94118	25	94133	0.94595	50	89143	0.89103
11	94394	0.94118	26	94028	0.94017	51	88726	0.88499
12	94346	0.94545	27	93918	0.94309	52	88272	0.87922
13	94294	0.93333	28	93802	0.93077	53	87777	0.87561
14	94238	0.94118	29	93681	0.93382	54	87235	0.86969
15	94174	0.93506	30	93554	0.93662	55	86641	0.86207
			31	93421	0.92568	56	85991	0.85714
			32	93284	0.93506	57	85277	0.84924
			33	93140	0.93125	58	84494	0.84051
			34	92991	0.92814	59	83635	0.83157
			35	92836	0.93103	60	82692	0.82208
			36	92674	0.92857	61	81657	0.81129
			37	92505	0.92147	62	80522	0.79884
			38	92329	0.92040	63	79279	0.78567
			39	92144	0.92417	64	77919	0.77207

Table C.12. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding Central Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96638	15	93476	0.93506	40	89978	0.89961
1	95200	0.94987	16	93404	0.92771	41	89745	0.89455
2	94821	0.94690	17	93327	0.93258	42	89499	0.89041
3	94607	0.94969	18	93244	0.92632	43	89239	0.89068
4	94456	0.94309	19	93156	0.94059	44	88962	0.88889
5	94340	0.94059	20	93061	0.92593	45	88666	0.88515
6	94245	0.95349	21	92961	0.92982	46	88350	0.88281
7	94163	0.93421	22	92855	0.92500	47	88011	0.87952
8	94092	0.94118	23	92744	0.92857	48	87646	0.87333
9	94028	0.95238	24	92627	0.93182	49	87253	0.87090
10	93968	0.93220	25	92504	0.92029	50	86828	0.86654
11	93913	0.94828	26	92377	0.92361	51	86367	0.86059
12	93858	0.93220	27	92244	0.92000	52	85867	0.85512
13	93803	0.93548	28	92106	0.91667	53	85324	0.85201
14	93745	0.92647	29	91963	0.92547	54	84731	0.84314
15	93682	0.93506	30	91814	0.91617	55	84086	0.83729
			31	91661	0.91379	56	83381	0.83064
			32	91502	0.91667	57	82611	0.82209
			33	91337	0.91444	58	81770	0.81256
			34	91166	0.91282	59	80851	0.80400
			35	90988	0.90640	60	79846	0.79335
			36	90804	0.91038	61	78748	0.78096
			37	90611	0.90541	62	77550	0.76896
			38	90410	0.90558	63	76242	0.75517
			39	90199	0.90204	64	74817	0.74033

Table C.13. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding North Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.95664	15	92514	0.92208	40	88496	0.88776
1	93801	0.93582	16	92443	0.91667	41	88235	0.87742
2	93174	0.92837	17	92366	0.93478	42	87963	0.88073
3	92850	0.93043	18	92280	0.92079	43	87675	0.87320
4	92636	0.92308	19	92187	0.91892	44	87372	0.87263
5	92480	0.92424	20	92085	0.92500	45	87050	0.87056
6	92358	0.91743	21	91974	0.91538	46	86707	0.86525
7	92258	0.92473	22	91855	0.92086	47	86341	0.86154
8	92172	0.91463	23	91727	0.91892	48	85949	0.85743
9	92097	0.92105	24	91591	0.91720	49	85528	0.85338
10	92027	0.91781	25	91447	0.90964	50	85074	0.84775
11	91960	0.92000	26	91296	0.91379	51	84584	0.84286
12	91891	0.91250	27	91137	0.91160	52	84053	0.83843
13	91818	0.92045	28	90972	0.90957	53	83477	0.83245
14	91737	0.91837	29	90801	0.90306	54	82851	0.82424
15	91647	0.91892	30	90624	0.90594	55	82171	0.81788
			31	90441	0.90909	56	81430	0.81024
			32	90251	0.90278	57	80623	0.80146
			33	90056	0.90135	58	79743	0.79273
			34	89855	0.89610	59	78783	0.78235
			35	89648	0.89540	60	77737	0.77183
			36	89434	0.89516	61	76597	0.75995
			37	89212	0.88760	62	75356	0.74709
			38	88983	0.88848	63	74006	0.73263
			39	88744	0.88256	64	72540	0.71719

Table C.14. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding East Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.95447	15	90230	0.89831	40	85279	0.85359
1	93502	0.93182	16	90124	0.90476	41	84970	0.84697
2	92846	0.92632	17	90010	0.89552	42	84649	0.84673
3	92494	0.92607	18	89890	0.90210	43	84312	0.84010
4	92256	0.92188	19	89761	0.89474	44	83960	0.83937
5	92079	0.91503	20	89625	0.89441	45	83589	0.83333
6	91939	0.92126	21	89481	0.89474	46	83199	0.83099
7	91822	0.91743	22	89328	0.88889	47	82786	0.82453
8	91722	0.91667	23	89168	0.89418	48	82349	0.82155
9	91634	0.91954	24	88999	0.88889	49	81884	0.81713
10	91554	0.91463	25	88823	0.88889	50	81388	0.81164
11	91479	0.91250	26	88639	0.88426	51	80858	0.80567
12	91406	0.90244	27	88448	0.88000	52	80290	0.80079
13	91332	0.91954	28	88250	0.88412	53	79679	0.79348
14	91252	0.90526	29	88044	0.87603	54	79022	0.78603
15	91166	0.91509	30	87832	0.88000	55	78313	0.77947
			31	87612	0.87645	56	77546	0.77138
			32	87385	0.87313	57	76716	0.76251
			33	87151	0.87050	58	75817	0.75290
			34	86909	0.86760	59	74842	0.74316
			35	86660	0.86577	60	73783	0.73248
			36	86402	0.86084	61	72633	0.72014
			37	86136	0.85938	62	71385	0.70705
			38	85861	0.85886	63	70031	0.69292
			39	85575	0.85303	64	68562	0.67760

Table C.15. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding the Urban

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.97617	15	95633	0.94118	40	93158	0.93229
1	96600	0.96567	16	95585	0.94545	41	92979	0.92683
2	96375	0.95968	17	95533	0.94915	42	92789	0.92727
3	96256	0.96386	18	95477	0.95238	43	92585	0.92373
4	96176	0.95238	19	95417	0.95522	44	92367	0.92520
5	96116	0.98000	20	95353	0.95775	45	92132	0.92000
6	96067	0.95349	21	95285	0.94667	46	91879	0.91611
7	96026	0.97297	22	95214	0.94937	47	91606	0.91358
8	95990	0.97059	23	95139	0.95181	48	91310	0.90935
9	95957	0.93939	24	95060	0.95402	49	90989	0.90909
10	95926	0.96970	25	94977	0.95604	50	90639	0.90521
11	95894	0.94444	26	94890	0.94792	51	90257	0.90065
12	95860	0.95000	27	94799	0.95000	52	89840	0.89587
13	95822	0.97778	28	94704	0.95192	53	89384	0.89127
14	95778	0.96154	29	94605	0.94495	54	88884	0.88530
15	95728	0.95000	30	94502	0.93860	55	88336	0.88029
			31	94395	0.94958	56	87733	0.87467
			32	94282	0.93600	57	87070	0.86564
			33	94165	0.93893	58	86342	0.85959
			34	94042	0.94161	59	85540	0.85149
			35	93913	0.94444	60	84657	0.84142
			36	93777	0.93421	61	83686	0.83191
			37	93635	0.93168	62	82617	0.81983
			38	93485	0.93529	63	81443	0.80827
			39	93326	0.93333	64	80153	0.79450

Table C.16. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding The Rural

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96153	15	93380	0.92405	40	89607	0.89591
1	94501	0.94151	16	93307	0.94186	41	89366	0.89399
2	94002	0.93796	17	93226	0.93617	42	89113	0.89000
3	93745	0.93889	18	93138	0.93137	43	88846	0.88715
4	93576	0.93939	19	93043	0.92793	44	88563	0.88563
5	93452	0.93269	20	92940	0.92437	45	88261	0.88219
6	93355	0.94186	21	92830	0.92913	46	87939	0.87786
7	93274	0.93151	22	92712	0.92537	47	87594	0.87264
8	93206	0.92308	23	92588	0.92908	48	87224	0.87146
9	93146	0.94915	24	92457	0.92568	49	86824	0.86573
10	93090	0.92857	25	92320	0.91613	50	86392	0.86004
11	93038	0.94643	26	92178	0.91925	51	85925	0.85666
12	92985	0.91667	27	92030	0.91617	52	85417	0.85185
13	92930	0.93939	28	91877	0.92442	53	84865	0.84669
14	92868	0.92105	29	91718	0.91573	54	84263	0.83867
15	92798	0.92045	30	91555	0.91304	55	83608	0.83353
			31	91387	0.91534	56	82892	0.82471
			32	91214	0.91282	57	82111	0.81722
			33	91036	0.90594	58	81257	0.80763
			34	90853	0.90431	59	80325	0.79859
			35	90664	0.90741	60	79306	0.78754
			36	90468	0.90625	61	78194	0.77621
			37	90265	0.90129	62	76980	0.76284
			38	90055	0.89754	63	75658	0.74961
			39	89836	0.89804	64	74218	0.73440

Table C.17. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding West Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.97973	15	96526	0.92857	40	94509	0.94479
1	97100	0.96970	16	96500	0.96774	41	94355	0.94286
2	96940	0.97000	17	96470	0.97059	42	94190	0.94118
3	96843	0.97297	18	96437	0.97436	43	94014	0.93564
4	96771	0.96610	19	96399	0.95349	44	93825	0.94037
5	96714	0.98000	20	96358	0.97917	45	93620	0.93220
6	96665	0.95455	21	96311	0.96226	46	93400	0.93385
7	96623	0.95000	22	96260	0.96610	47	93160	0.92883
8	96585	0.97297	23	96203	0.95313	48	92899	0.92834
9	96549	0.94286	24	96142	0.95652	49	92614	0.92582
10	96516	0.97059	25	96076	0.95946	50	92302	0.92183
11	96483	0.94286	26	96005	0.96203	51	91960	0.91932
12	96450	0.97297	27	95929	0.95238	52	91584	0.91372
13	96414	0.97500	28	95849	0.95455	53	91171	0.91018
14	96375	0.95556	29	95765	0.95699	54	90715	0.90450
15	96332	0.96078	30	95676	0.95918	55	90213	0.89951
			31	95582	0.96078	56	89658	0.89213
			32	95484	0.95327	57	89046	0.88729
			33	95382	0.95536	58	88369	0.87986
			34	95275	0.94915	59	87622	0.87223
			35	95163	0.95161	60	86796	0.86269
			36	95045	0.94615	61	85885	0.85399
			37	94922	0.94891	62	84879	0.84323
			38	94792	0.95172	63	83771	0.83174
			39	94654	0.94156	64	82550	0.81879

Table C.18. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding South Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.97256	15	94947	0.95918	40	92101	0.91589
1	96101	0.96283	16	94900	0.94444	41	91905	0.92070
2	95842	0.95425	17	94849	0.95000	42	91696	0.91322
3	95696	0.95413	18	94792	0.93939	43	91475	0.91892
4	95592	0.95294	19	94730	0.94521	44	91237	0.91039
5	95511	0.95714	20	94661	0.94937	45	90983	0.90698
6	95444	0.95000	21	94586	0.94186	46	90710	0.90798
7	95387	0.94340	22	94505	0.94624	47	90414	0.90141
8	95337	0.95833	23	94417	0.94000	48	90094	0.89922
9	95291	0.95455	24	94323	0.94340	49	89746	0.89598
10	95249	0.95238	25	94223	0.94643	50	89367	0.89201
11	95209	0.95122	26	94117	0.93220	51	88954	0.88605
12	95170	0.95238	27	94007	0.94309	52	88503	0.88214
13	95130	0.95455	28	93891	0.93750	53	88009	0.87844
14	95088	0.93878	29	93771	0.93985	54	87467	0.87225
15	95042	0.94643	30	93646	0.93525	55	86873	0.86454
			31	93516	0.93056	56	86222	0.85954
			32	93382	0.93289	57	85506	0.85049
			33	93243	0.93506	58	84721	0.84262
			34	93099	0.93125	59	83859	0.83348
			35	92950	0.92814	60	82913	0.82446
			36	92795	0.93103	61	81875	0.81259
			37	92633	0.92857	62	80739	0.80103
			38	92464	0.92670	63	79495	0.78841
			39	92287	0.92079	64	78135	0.77413

Table C.19. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding Central Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.97587	15	96749	0.96970	40	94895	0.94737
1	96563	0.96396	16	96717	0.94444	41	94751	0.94512
2	96349	0.96032	17	96683	0.97436	42	94596	0.94350
3	96228	0.96629	18	96645	0.95238	43	94429	0.94241
4	96142	0.95652	19	96605	0.97778	44	94249	0.94231
5	96076	0.96491	20	96561	0.95918	45	94053	0.93805
6	96021	0.95918	21	96514	0.96154	46	93841	0.93522
7	95974	0.95455	22	96464	0.98182	47	93610	0.93704
8	95932	0.95000	23	96410	0.96610	48	93357	0.93243
9	95894	0.97297	24	96353	0.96774	49	93081	0.92945
10	95858	0.97222	25	96293	0.95455	50	92778	0.92479
11	95823	0.97297	26	96230	0.97101	51	92446	0.92424
12	95787	0.95000	27	96163	0.95890	52	92080	0.91781
13	95749	0.97727	28	96093	0.96104	53	91678	0.91546
14	95706	0.94118	29	96019	0.95062	54	91234	0.90892
15	95658	0.94915	30	95942	0.96471	55	90745	0.90620
			31	95860	0.95506	56	90204	0.89910
			32	95775	0.95745	57	89607	0.89175
			33	95685	0.94949	58	88948	0.88578
			34	95591	0.96154	59	88219	0.87786
			35	95491	0.95455	60	87414	0.86986
			36	95386	0.95726	61	86525	0.86065
			37	95274	0.95161	62	85543	0.85008
			38	95156	0.94737	63	84460	0.83826
			39	95030	0.95070	64	83268	0.82631

Table C.20. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding North Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96781	15	95433	0.96000	40	92889	0.92754
1	95400	0.95200	16	95385	0.94444	41	92697	0.92793
2	95043	0.94924	17	95334	0.96491	42	92491	0.92405
3	94856	0.94697	18	95279	0.95082	43	92272	0.92157
4	94731	0.95918	19	95221	0.95385	44	92037	0.91971
5	94637	0.94872	20	95159	0.95652	45	91785	0.91554
6	94563	0.93846	21	95093	0.95890	46	91514	0.91563
7	94502	0.94737	22	95023	0.93590	47	91221	0.91066
8	94448	0.94231	23	94950	0.95122	48	90905	0.90716
9	94399	0.93878	24	94872	0.95349	49	90563	0.90268
10	94353	0.94000	25	94790	0.94505	50	90192	0.89955
11	94306	0.94340	26	94704	0.94792	51	89789	0.89592
12	94256	0.93103	27	94613	0.95050	52	89350	0.89199
13	94202	0.93846	28	94517	0.94340	53	88871	0.88475
14	94141	0.94521	29	94417	0.94643	54	88349	0.88136
15	94072	0.93976	30	94311	0.93220	55	87777	0.87552
			31	94201	0.94355	56	87151	0.86709
			32	94084	0.94615	57	86466	0.86140
			33	93961	0.94161	58	85714	0.85315
			34	93832	0.93793	59	84889	0.84422
			35	93696	0.93464	60	83984	0.83529
			36	93553	0.93827	61	82990	0.82389
			37	93401	0.93605	62	81900	0.81305
			38	93240	0.92896	63	80704	0.80037
			39	93070	0.92821	64	79393	0.78685

Table C.21. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding East Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.95731	15	91174	0.90909	40	86517	0.86350
1	93901	0.93582	16	91084	0.91589	41	86226	0.86119
2	93274	0.93123	17	90986	0.90598	42	85922	0.85714
3	92949	0.93043	18	90880	0.90551	43	85604	0.85422
4	92735	0.92308	19	90765	0.90511	44	85270	0.85024
5	92579	0.92424	20	90641	0.90476	45	84918	0.84966
6	92457	0.92661	21	90508	0.90446	46	84545	0.84402
7	92356	0.91398	22	90366	0.90419	47	84150	0.83832
8	92271	0.92683	23	90215	0.90395	48	83730	0.83426
9	92195	0.92105	24	90055	0.90323	49	83282	0.83074
10	92125	0.91781	25	89887	0.89286	50	82801	0.82560
11	92058	0.92000	26	89712	0.89706	51	82285	0.81979
12	91989	0.91250	27	89529	0.89671	52	81730	0.81386
13	91916	0.92045	28	89338	0.89140	53	81131	0.80774
14	91835	0.91837	29	89141	0.88646	54	80484	0.80229
15	91745	0.91892	30	88938	0.89030	55	79782	0.79332
			31	88727	0.88525	56	79022	0.78667
			32	88511	0.88492	57	78196	0.77730
			33	88288	0.88123	58	77299	0.76772
			34	88058	0.88104	59	76324	0.75768
			35	87821	0.87770	60	75264	0.74676
			36	87577	0.87153	61	74111	0.73548
			37	87326	0.87248	62	72857	0.72163
			38	87066	0.87097	63	71496	0.70724
			39	86796	0.86378	64	70020	0.69234

APPENDIX A

Table A.1. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for Urban

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	267
16	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	299
17	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	298
18	13	10	2	2	1	1	1	0	1	0	0	1	0	0	0	0	288
19	21	11	9	5	2	1	0	0	0	0	0	0	0	0	0	0	224
20	34	21	17	9	4	7	2	0	0	0	0	0	0	0	0	0	245
21	30	38	15	8	4	9	3	3	1	0	0	0	0	0	0	0	225
22	38	35	35	21	23	14	11	2	0	0	0	0	0	0	0	0	244
23	33	35	27	29	28	13	12	9	5	1	0	0	0	0	1	0	235
24	35	28	30	40	35	13	19	9	4	3	1	0	0	0	0	0	212
25	53	31	33	45	34	26	24	24	17	9	15	2	3	0	0	0	241
26	21	21	29	26	31	34	35	25	15	12	12	2	4	0	0	1	183
27	34	27	23	30	34	40	38	43	32	20	17	8	7	2	1	0	203
28	23	22	24	31	28	30	35	41	34	37	23	15	13	4	1	1	198
29	12	14	19	15	21	21	36	30	24	24	23	12	17	8	4	2	150
30	28	20	29	34	39	46	45	61	49	42	55	43	30	22	11	9	233
31	13	6	11	15	20	18	24	25	34	35	34	36	20	18	13	5	142
32	12	13	19	26	30	23	27	38	29	41	33	33	30	37	17	10	169
33	15	10	8	19	21	23	30	45	38	47	45	41	55	58	34	26	224
34	12	12	9	14	23	18	17	27	35	29	27	43	45	40	33	29	164
35	10	7	18	14	17	15	41	24	42	35	47	36	40	49	33	49	180
36	3	3	5	8	6	12	9	14	26	20	31	29	27	47	33	25	141
37	9	7	8	8	10	12	10	14	25	14	31	17	41	47	34	43	136
38	4	2	6	7	8	5	12	17	25	29	28	30	32	43	34	44	169
39	8	3	6	3	6	3	8	6	11	13	10	21	22	28	20	27	120
40	3	4	7	4	7	10	13	22	19	19	36	25	44	43	42	31	182
41	1	0	0	1	0	4	3	4	7	5	10	6	12	11	19	21	101
42	0	1	2	3	0	6	15	9	12	8	16	19	20	26	22	25	127
43	2	1	1	6	3	4	11	13	15	16	10	23	21	36	36	30	156
44	0	0	1	0	3	2	3	3	7	7	8	9	9	11	10	9	87
45	0	0	3	1	2	3	2	5	11	2	22	15	18	16	21	21	125
46	0	1	0	0	0	3	0	2	3	3	7	8	4	8	9	7	81
47	0	0	0	0	1	0	3	3	4	2	11	8	8	7	11	11	86
48	0	0	0	1	0	0	0	2	3	1	4	5	5	13	9	15	97
49	0	0	0	0	1	0	0	0	1	1	2	3	5	1	3	5	45
50	0	0	0	0	1	1	0	3	1	2	2	4	9	8	14	9	125
51	0	0	0	0	0	0	2	3	4	1	7	6	3	7	13	8	94
52	0	0	0	0	0	0	0	0	1	4	1	6	4	4	8	7	107
53	0	0	1	0	0	0	0	0	0	3	2	3	4	3	9	6	124
54	0	0	0	0	0	0	0	2	0	1	3	0	1	2	3	6	74
55	0	0	0	0	0	0	0	3	1	2	1	2	3	4	11	8	140
56	0	0	0	0	0	0	0	0	1	0	0	0	3	2	1	1	61
57	0	0	0	0	0	0	0	0	1	0	0	1	0	1	2	1	69
58	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	3	63
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
60	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	170
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
62	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	51
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Unknown	3	5	6	3	6	14	5	12	20	26	30	23	37	34	32	61	
TOTAL	479	391	404	429	449	431	496	544	558	514	606	535	596	643	546	558	

Table A.2. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for Rural

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204
16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	199
17	9	2	4	1	0	0	0	0	0	0	0	0	0	0	0	0	223
18	12	5	1	0	0	1	0	0	0	0	1	0	1	0	0	0	204
19	16	7	5	3	2	0	0	0	0	0	0	0	0	0	0	0	159
20	32	23	21	8	16	6	4	3	4	0	2	0	0	0	0	0	208
21	15	20	13	8	9	5	6	3	1	0	0	0	0	0	0	0	127
22	34	19	23	14	17	5	9	4	3	0	0	0	0	0	0	0	144
23	26	23	13	27	15	16	9	7	5	1	1	0	0	0	0	0	126
24	21	17	21	15	25	12	13	9	7	2	0	0	0	0	0	0	106
25	16	24	24	18	22	22	14	10	16	2	5	2	3	1	0	0	115
26	14	14	17	13	14	23	23	23	13	8	4	4	1	0	0	0	100
27	18	18	13	28	19	26	24	22	18	14	16	9	6	1	1	0	113
28	14	15	17	18	18	20	14	25	27	19	11	14	5	3	0	1	101
29	12	12	10	12	11	14	14	24	16	13	14	13	4	4	3	0	71
30	13	24	19	22	28	32	31	42	40	32	33	35	35	24	8	8	148
31	11	8	2	11	11	11	19	22	27	16	21	17	18	16	5	3	77
32	11	3	9	9	18	21	11	21	22	21	20	17	27	20	9	11	77
33	18	7	8	16	13	16	11	25	27	34	35	25	30	42	17	11	108
34	3	3	2	7	5	10	9	7	10	8	13	18	19	14	15	13	55
35	7	7	7	15	12	17	23	24	29	27	38	27	44	37	37	21	112
36	3	2	4	4	5	6	11	9	12	14	21	16	16	21	17	14	59
37	4	5	2	8	6	4	9	10	10	11	25	12	20	18	18	17	76
38	3	11	9	5	12	4	7	22	24	25	19	28	30	35	28	42	102
39	4	3	3	1	5	9	8	5	8	11	16	10	23	11	18	26	63
40	9	1	9	10	15	16	22	14	26	30	22	28	34	34	35	26	115
41	3	1	5	2	2	3	2	8	2	4	10	9	11	9	7	10	48
42	0	0	0	2	2	2	4	13	9	9	3	5	10	11	15	17	61
43	0	3	1	1	5	1	7	6	10	11	11	10	16	14	16	15	68
44	0	0	2	2	0	1	1	1	5	3	11	8	9	6	10	11	48
45	1	2	1	4	5	2	9	8	16	8	15	14	25	20	20	21	92
46	0	0	3	0	2	0	4	2	5	10	7	8	10	6	12	18	58
47	1	0	0	1	0	1	1	3	4	4	5	6	7	9	13	7	47
48	0	0	0	2	0	3	0	3	6	4	5	4	3	4	9	6	60
49	0	1	0	0	0	1	0	0	3	1	1	1	6	2	4	9	37
50	0	0	0	1	5	1	1	6	8	13	4	14	14	14	17	17	72
51	0	0	0	0	0	0	2	1	1	3	5	6	10	13	7	16	75
52	0	0	0	0	0	0	4	2	2	2	6	6	7	10	17	23	102
53	0	0	0	0	1	0	0	0	3	0	2	3	5	6	7	6	67
54	0	0	0	0	0	2	1	0	0	2	0	1	7	6	8	5	56
55	0	0	0	0	0	0	1	1	0	0	7	2	8	5	18	8	145
56	0	0	0	0	0	0	0	0	1	0	2	1	1	1	3	2	66
57	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	6	58
58	0	0	0	0	0	0	0	0	0	2	4	2	2	3	0	4	53
59	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	31
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	157
61	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	36
62	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	48
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
64	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	35
Unknown	1	2	9	6	8	6	13	12	12	10	13	5	15	18	28	16	
TOTAL	333	282	277	294	328	319	341	397	430	369	440	370	482	443	428	412	

Table A.3. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for West Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133
17	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	150
18	7	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	148
19	10	2	4	1	0	0	0	0	0	0	0	0	0	0	0	0	106
20	9	10	6	9	0	4	0	0	0	0	0	0	0	0	0	0	111
21	18	17	7	1	2	4	0	1	0	0	0	0	0	0	0	0	124
22	22	15	15	7	13	2	2	1	0	0	0	0	0	0	0	0	121
23	17	18	16	16	15	7	4	7	4	0	0	0	0	0	1	0	130
24	16	15	11	18	21	7	11	5	2	2	1	0	0	0	0	0	108
25	22	12	16	15	12	5	7	4	7	4	4	0	0	0	0	0	106
26	9	11	18	11	11	20	17	17	6	5	5	0	1	0	0	0	111
27	20	13	15	17	9	23	20	22	20	11	5	1	0	1	0	0	122
28	10	12	15	15	13	18	16	20	20	21	11	10	2	2	0	0	109
29	10	5	10	9	2	4	21	18	7	7	9	7	6	5	1	1	65
30	13	9	10	13	22	21	21	29	22	22	29	26	13	13	7	4	124
31	4	2	4	7	15	5	12	12	15	13	21	20	10	10	5	1	76
32	4	7	6	10	20	6	11	11	13	12	15	13	17	21	5	4	86
33	10	1	4	9	5	11	12	21	24	23	27	21	24	31	13	10	124
34	4	5	4	5	9	15	2	13	17	16	15	26	26	22	18	16	95
35	4	5	4	7	7	9	20	11	22	26	26	22	21	27	27	21	121
36	0	1	1	6	4	4	1	7	13	15	26	22	12	32	18	12	95
37	2	4	4	0	5	5	4	6	15	4	11	12	15	17	18	22	76
38	2	1	1	4	2	1	5	6	17	7	17	13	17	23	17	27	102
39	1	1	2	1	1	1	2	4	1	10	1	7	10	10	11	7	61
40	0	0	2	2	1	4	7	5	7	7	12	6	12	18	20	13	92
41	0	0	0	1	0	1	1	2	4	2	7	5	9	7	12	11	66
42	0	0	0	1	0	4	7	4	5	6	7	7	11	12	11	22	84
43	0	0	0	1	2	0	5	2	6	5	4	7	7	16	18	15	90
44	0	0	1	0	2	0	0	1	4	4	5	6	4	5	5	7	50
45	0	0	0	1	0	1	0	0	1	1	9	9	9	7	5	6	65
46	0	0	0	0	0	0	0	0	2	4	2	7	4	5	7	10	57
47	0	0	0	0	0	0	2	0	1	1	7	2	6	1	5	6	64
48	0	0	0	0	0	0	0	0	2	1	2	0	2	6	2	10	57
49	0	0	0	0	1	0	0	0	0	1	0	1	2	0	1	6	39
50	0	0	0	0	0	0	0	0	1	0	1	1	4	1	4	1	70
51	0	0	0	0	0	0	0	0	0	0	2	1	0	4	2	4	61
52	0	0	0	0	0	0	0	0	0	0	2	0	2	1	1	5	75
53	0	0	1	0	0	0	0	0	0	1	1	0	4	0	2	1	71
54	0	0	0	0	0	0	0	2	0	0	0	0	0	1	2	4	49
55	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	81
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	46
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	48
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	111
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
62	0	0	0	0	0	0	0	1	0	0	1	0	0	2	0	0	34
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Unknown	1	1	2	0	4	7	1	5	12	12	6	11	17	13	17	29	
TOTAL	220	170	181	187	198	190	211	237	270	243	291	263	267	314	259	279	

Table A.4. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for South Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
16	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	76
17	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
18	2	3	0	0	0	1	1	0	1	0	1	1	1	0	0	0	76
19	5	2	2	1	2	0	0	0	0	0	0	0	0	0	0	0	72
20	7	5	4	1	1	2	1	1	0	0	0	0	0	0	0	0	72
21	7	8	5	2	3	1	1	0	0	0	0	0	0	0	0	0	58
22	8	9	7	5	2	4	4	2	0	0	0	0	0	0	0	0	68
23	8	9	9	9	11	5	5	1	2	0	0	0	0	0	0	0	59
24	11	7	15	9	8	9	5	1	1	0	0	0	0	0	0	0	68
25	15	8	7	9	9	10	6	7	7	2	3	1	0	0	0	0	59
26	7	6	7	10	8	9	10	11	3	5	2	1	2	0	0	0	54
27	9	5	8	3	12	5	6	8	6	5	6	3	2	0	1	0	50
28	4	5	3	5	6	8	6	8	10	3	5	4	2	0	0	0	46
29	0	5	3	2	10	9	5	9	8	7	7	2	2	1	0	0	40
30	4	11	8	14	6	10	9	12	8	10	12	12	8	8	2	1	53
31	6	2	3	5	5	8	8	12	13	9	9	9	9	3	2	2	39
32	6	2	2	5	5	10	7	9	5	14	7	6	12	5	6	3	38
33	5	5	3	5	8	11	5	9	11	11	7	8	17	11	3	5	51
34	2	2	1	5	5	4	6	7	6	7	8	12	6	9	7	7	37
35	2	2	3	5	2	7	7	5	10	5	12	11	14	14	8	12	38
36	0	1	0	2	2	3	2	4	6	5	5	3	3	7	7	6	25
37	3	0	3	4	2	2	4	4	5	4	11	2	12	15	11	9	36
38	0	2	2	5	6	2	5	7	9	12	14	9	8	19	12	16	52
39	2	2	2	1	3	0	2	2	2	3	5	7	8	13	6	9	33
40	1	2	1	2	2	2	2	5	9	8	8	8	9	11	10	6	48
41	1	0	1	0	1	1	1	2	1	1	4	4	4	4	5	4	21
42	0	0	0	2	0	0	2	3	2	2	2	5	4	9	6	6	23
43	1	2	1	2	1	1	4	5	6	8	5	10	10	10	12	8	42
44	0	0	0	0	0	1	2	0	3	0	3	2	4	4	3	5	23
45	0	0	0	1	2	1	2	2	4	2	2	3	5	5	7	6	26
46	0	0	0	0	1	1	1	2	1	2	5	2	2	3	4	5	22
47	1	0	0	0	1	0	1	2	2	1	2	3	2	4	6	2	19
48	0	0	0	0	0	0	0	2	0	0	1	3	1	5	2	3	26
49	0	1	0	0	0	1	0	0	2	0	2	2	2	1	3	2	12
50	0	0	0	0	0	0	0	2	2	2	2	2	1	3	5	4	28
51	0	0	0	0	0	0	0	1	1	1	2	3	2	5	5	1	26
52	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	3	30
53	0	0	0	0	1	0	0	0	2	1	2	0	0	2	3	2	25
54	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	2	19
55	0	0	0	0	0	0	0	0	0	0	1	1	3	2	5	3	42
56	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1	19
57	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	18
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
59	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	15
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	37
61	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	9
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Unknown	2	2	5	2	1	3	2	3	9	5	9	5	11	9	7	12	
TOTAL	123	109	106	117	126	131	122	148	157	135	166	145	171	188	155	146	

Table A.5. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for Central Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
17	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	128
18	6	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	111
19	8	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	83
20	12	13	6	3	0	0	0	0	0	0	0	0	0	0	0	0	98
21	7	20	6	5	2	5	0	1	0	0	0	0	0	0	0	0	80
22	20	16	15	9	9	6	2	0	0	0	0	0	0	0	0	0	92
23	19	17	9	15	7	13	5	1	1	0	0	0	0	0	0	0	80
24	9	11	9	16	18	4	9	7	6	0	0	0	0	0	0	0	70
25	15	12	17	13	13	14	10	13	7	4	4	1	1	1	0	0	91
26	6	9	14	9	12	18	19	10	9	7	6	2	0	0	0	0	65
27	7	8	6	16	14	11	13	13	11	5	10	4	4	1	1	0	62
28	10	6	3	13	9	10	11	18	11	11	7	6	2	2	1	0	64
29	5	6	7	6	7	16	12	15	14	11	14	10	9	3	4	1	65
30	4	8	5	9	12	19	14	27	24	14	20	14	18	8	3	4	82
31	7	1	4	5	6	7	11	8	15	12	10	10	9	10	5	3	53
32	2	1	5	9	9	6	8	10	10	15	14	13	9	12	5	8	51
33	5	8	3	10	6	9	14	17	12	20	22	19	24	26	19	13	87
34	6	3	4	5	5	3	5	5	10	3	8	11	15	11	9	6	45
35	1	2	7	1	3	7	10	8	13	8	16	8	16	14	8	14	50
36	2	2	1	1	0	1	5	1	9	4	4	10	10	15	13	5	37
37	1	2	1	4	3	3	3	7	3	7	13	2	17	12	6	10	42
38	3	4	4	1	4	2	5	7	12	19	5	19	17	16	15	18	63
39	3	2	1	1	4	5	8	1	10	5	7	12	13	7	10	24	57
40	2	1	1	0	2	2	1	5	3	4	6	10	15	11	13	8	53
41	1	1	0	2	1	2	3	6	4	4	3	2	8	6	7	14	45
42	0	0	0	2	1	0	2	1	4	1	3	3	7	7	8	5	41
43	0	2	0	1	1	1	2	1	5	5	3	5	7	15	10	10	49
44	0	0	0	1	0	0	0	1	1	4	8	6	4	4	7	6	40
45	0	1	1	1	0	1	2	2	5	2	4	5	9	11	9	14	64
46	0	0	1	0	0	1	0	1	2	3	3	4	6	1	5	3	40
47	0	0	0	0	0	1	1	2	3	1	3	3	5	7	5	7	29
48	0	0	0	0	0	0	0	0	1	3	0	1	1	1	3	6	30
49	0	0	0	0	0	0	0	0	1	0	1	0	1	2	1	2	14
50	0	0	0	0	1	0	0	1	0	0	2	0	1	5	5	6	42
51	0	0	0	0	0	0	0	0	1	1	1	2	0	1	2	4	33
52	0	0	0	0	0	0	0	0	1	2	1	2	1	5	5	5	49
53	0	0	0	0	0	0	0	0	0	0	0	2	3	3	4	1	53
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	33
55	0	0	0	0	0	0	1	1	0	0	4	1	1	2	5	3	65
56	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	1	37
57	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	4	33
58	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	3	26
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
60	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	75
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
64	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	18
Unknown	0	2	5	3	4	4	5	8	5	8	16	5	8	7	18	13	
TOTAL	164	171	138	162	153	171	181	199	216	180	222	193	241	234	214	220	

Table A.6. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for North Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
18	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	35
19	4	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	41
20	9	4	2	2	1	0	0	0	0	0	0	0	0	0	0	0	39
21	7	4	3	1	3	1	1	1	1	0	0	0	0	0	0	0	30
22	7	5	4	3	4	1	1	0	0	0	0	0	0	0	0	0	40
23	7	5	3	4	5	1	1	0	0	1	0	0	0	0	0	0	35
24	4	3	4	2	2	1	0	0	0	0	0	0	0	0	0	0	22
25	7	7	7	7	6	4	4	1	2	0	2	0	0	0	0	0	36
26	5	2	5	4	4	4	4	5	3	1	1	1	1	0	0	1	25
27	9	7	3	7	7	8	8	7	5	4	3	2	0	0	0	0	30
28	4	4	7	6	8	5	5	5	7	5	4	3	1	1	0	1	31
29	4	3	3	4	6	2	3	5	4	7	4	3	2	2	1	0	24
30	3	5	4	5	7	8	5	5	9	7	7	7	8	3	2	1	37
31	1	2	1	2	3	2	5	5	7	5	5	7	4	5	1	1	19
32	2	1	2	3	4	5	5	8	6	8	7	7	8	8	5	3	29
33	1	2	0	2	2	1	4	5	4	5	6	4	7	11	5	4	24
34	1	1	1	1	3	3	1	3	2	5	4	5	5	6	5	3	17
35	1	2	3	2	3	1	2	4	5	4	7	4	8	5	5	7	22
36	1	1	2	1	1	4	4	4	5	4	6	6	7	8	5	7	22
37	1	1	1	2	1	1	2	4	4	5	9	5	5	9	8	7	28
38	1	2	1	1	1	1	2	2	4	8	5	5	6	5	8	10	28
39	1	0	2	1	2	3	2	2	1	2	5	2	5	4	3	4	15
40	1	1	1	0	2	1	2	4	3	2	6	4	8	5	6	6	25
41	0	0	0	0	1	1	0	0	0	2	1	1	1	3	1	1	10
42	0	0	0	0	1	0	1	2	0	1	2	1	3	4	2	5	15
43	0	0	1	0	2	1	2	1	2	2	3	2	5	3	3	2	20
44	0	0	1	1	0	1	1	0	2	0	1	0	3	0	1	1	7
45	1	1	0	0	2	1	0	0	1	1	2	1	2	3	2	4	18
46	0	0	0	0	0	0	0	0	0	2	1	0	1	1	1	2	11
47	0	0	0	1	0	0	0	0	1	0	1	1	2	1	1	1	10
48	0	0	0	0	0	1	0	1	0	0	1	2	1	1	1	3	22
49	0	0	0	0	0	0	0	0	0	1	1	0	1	1	2	1	8
50	0	0	0	0	0	1	0	0	0	0	1	0	0	1	1	1	11
51	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	18
52	0	0	0	0	0	0	0	0	1	1	1	1	0	1	3	2	17
53	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	2	17
54	0	0	0	0	0	0	1	0	0	1	0	1	1	1	2	0	8
55	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	28
56	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	11
57	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	9
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	15
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	37
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Unknown	1	2	1	3	3	3	4	1	2	5	5	4	7	8	7	10	
TOTAL	88	68	64	67	85	66	70	75	82	89	102	79	106	103	85	97	

Table A.7. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1993 for East Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
16	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133
17	5	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	119
18	6	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	122
19	10	6	5	4	1	1	0	0	0	0	0	0	0	0	0	0	80
20	28	13	19	3	19	7	5	2	4	0	2	0	0	0	0	0	133
21	6	9	6	6	2	4	7	3	1	0	0	0	0	0	0	0	62
22	15	9	17	10	12	6	10	3	3	0	0	0	0	0	0	0	68
23	8	8	4	12	5	3	5	7	4	1	1	0	0	0	0	0	56
24	15	9	13	9	11	3	7	4	2	3	0	0	0	0	0	0	50
25	11	16	10	20	15	16	11	10	8	2	7	2	5	0	0	0	63
26	9	6	2	4	11	6	8	5	6	2	2	2	1	0	0	0	30
27	7	11	5	15	12	18	15	15	8	9	8	6	7	1	0	0	51
28	9	9	13	10	10	8	10	16	14	16	7	5	10	1	0	1	49
29	5	7	5	7	6	5	8	6	7	4	3	3	2	0	1	0	28
30	17	11	20	15	19	21	27	30	26	22	19	19	18	13	5	7	86
31	5	6	1	7	3	7	6	10	12	10	9	8	7	5	5	1	32
32	9	5	13	8	10	17	7	20	16	14	10	12	11	11	5	2	42
33	11	1	6	9	13	7	6	18	13	22	19	15	12	22	11	5	47
34	2	4	1	4	5	3	11	5	8	6	6	6	12	7	8	9	24
35	9	3	7	14	13	8	26	19	21	19	25	18	25	26	22	16	61
36	3	0	5	3	4	6	7	7	4	6	12	3	11	6	6	8	20
37	5	5	1	5	4	5	6	3	8	6	13	7	14	11	9	12	31
38	1	3	6	1	5	3	3	16	7	8	5	11	15	15	10	16	26
39	5	1	1	0	1	3	1	3	4	4	8	2	9	5	7	10	17
40	8	1	11	10	14	17	23	17	23	27	26	25	33	33	29	22	79
41	2	0	4	0	0	2	0	2	0	0	5	4	1	0	0	2	7
42	0	1	2	0	0	4	6	12	9	7	5	7	5	4	9	4	24
43	1	0	1	2	2	2	5	9	5	7	6	9	7	6	9	9	23
44	0	0	1	0	1	1	1	2	3	2	2	3	4	4	4	1	15
45	0	0	3	2	3	1	6	9	16	4	19	11	17	9	17	12	44
46	0	1	2	0	1	1	3	1	3	2	3	3	2	3	4	5	9
47	0	0	0	0	0	0	0	2	1	3	2	4	1	3	6	1	12
48	0	0	0	3	0	2	0	2	4	4	4	2	3	1	6	0	21
49	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	4	8
50	0	0	0	1	5	1	1	6	4	8	9	5	17	11	12	14	47
51	0	0	0	0	0	0	4	3	3	2	7	5	10	8	10	12	31
52	0	0	0	0	0	0	4	2	1	3	3	8	6	5	12	14	39
53	0	0	0	0	0	0	0	0	1	1	0	4	1	4	4	6	25
54	0	0	0	0	0	2	0	0	0	2	3	0	5	5	5	5	20
55	0	0	0	0	0	0	0	3	1	2	3	2	6	4	15	5	69
56	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	21
57	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	20
58	0	0	0	0	0	0	0	0	0	2	4	2	2	2	0	2	9
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	67
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Unknown	0	0	2	2	2	3	5	6	3	5	7	3	9	14	11	12	
TOTAL	214	148	189	187	210	193	244	278	255	235	265	217	292	240	248	221	

Table A.8. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for Urban

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	205
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	253
17	4	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	217
18	18	13	2	1	2	1	0	1	0	0	0	0	0	0	0	0	281
19	17	14	7	2	2	1	0	0	0	0	0	0	0	0	0	0	202
20	31	21	16	8	3	1	1	3	0	0	0	0	0	0	0	0	237
21	29	29	26	8	12	5	4	0	0	0	0	0	0	0	0	0	220
22	27	20	29	21	15	11	4	1	2	1	0	0	0	0	0	0	219
23	34	24	37	35	21	17	7	3	1	0	1	0	0	1	0	0	228
24	40	41	36	38	31	17	26	12	6	1	1	0	1	0	0	0	246
25	30	22	25	37	35	29	21	20	14	5	5	1	1	0	0	0	213
26	40	40	31	38	37	30	30	21	25	13	3	4	0	1	0	0	234
27	20	34	29	34	30	33	35	18	18	15	16	2	2	0	0	1	203
28	24	31	27	34	38	33	35	29	40	21	28	16	4	5	1	0	197
29	28	12	34	30	25	26	30	38	42	17	18	17	13	7	3	3	191
30	23	29	26	31	34	25	43	42	40	30	31	22	18	13	6	2	194
31	16	15	11	13	21	12	31	21	32	26	21	24	11	12	8	3	146
32	26	17	14	14	21	30	32	22	33	22	49	33	31	20	22	16	176
33	23	19	20	22	22	27	31	37	36	41	41	22	37	33	27	27	197
34	13	19	15	12	15	14	28	17	25	32	28	34	23	26	19	22	161
35	12	12	11	14	14	21	26	17	39	20	26	40	29	36	25	28	153
36	11	11	8	15	13	10	23	21	22	15	29	31	36	38	22	34	152
37	9	6	6	9	10	18	19	23	24	26	22	24	28	30	30	36	174
38	4	5	5	9	11	11	13	17	24	21	19	29	31	48	36	39	178
39	1	1	4	0	8	3	15	8	15	13	9	11	22	24	20	25	116
40	5	3	2	5	5	6	15	16	10	15	13	22	34	23	31	26	145
41	2	1	3	1	1	4	8	9	7	10	15	12	15	15	19	16	108
42	1	3	0	2	1	9	5	7	5	10	13	6	21	16	19	17	131
43	0	3	1	1	5	11	4	5	10	8	9	16	17	22	15	18	150
44	1	1	1	2	3	1	4	2	12	6	7	10	18	10	19	13	119
45	1	1	1	2	1	6	4	10	11	14	8	9	20	18	25	27	138
46	0	1	0	1	2	1	4	4	4	7	3	9	7	7	15	11	105
47	1	0	0	1	1	1	1	2	2	3	6	5	6	8	7	11	79
48	0	0	0	0	1	0	0	1	3	1	5	4	8	11	13	18	127
49	0	0	0	0	0	0	0	1	2	0	1	2	7	4	5	12	67
50	0	0	0	0	1	0	0	1	3	1	6	2	5	4	7	10	82
51	0	0	0	0	1	1	0	2	3	1	3	1	2	6	13	10	86
52	0	0	0	0	0	0	1	0	0	1	1	1	0	3	2	1	63
53	0	0	0	0	0	1	1	1	0	3	1	1	5	5	2	3	86
54	0	0	0	0	0	1	0	0	0	1	0	0	1	3	1	1	73
55	0	0	1	0	0	0	1	0	0	1	4	3	2	3	3	3	95
56	0	0	0	0	0	0	1	0	0	2	1	0	2	3	4	2	75
57	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	5	47
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	69
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	58
60	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	95
61	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	27
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
63	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	49
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Unknown	2	4	5	3	11	10	17	15	15	14	18	23	27	21	29	23	
TOTAL	495	456	435	443	453	427	520	448	525	419	461	438	488	480	455	466	

Table A.9. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for Rural

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125
16	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
17	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
18	12	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	179
19	14	8	7	2	0	0	0	0	0	0	0	0	0	0	0	0	116
20	22	22	14	4	2	3	2	0	1	0	0	0	0	0	0	0	143
21	13	16	10	10	6	4	0	1	0	0	0	0	0	0	0	0	99
22	31	26	14	10	7	9	7	0	1	1	0	0	0	0	0	0	111
23	19	15	14	16	10	11	7	2	6	0	2	1	0	0	0	0	96
24	22	19	18	13	26	12	7	7	2	3	0	0	0	0	0	0	101
25	24	29	20	21	23	14	30	15	14	10	3	5	3	1	1	0	116
26	17	22	21	13	27	21	17	17	7	5	2	1	0	0	0	0	104
27	12	15	11	17	14	18	13	20	14	6	4	5	3	2	0	0	73
28	18	19	19	14	13	19	21	21	10	14	7	7	5	3	3	4	88
29	9	7	9	19	13	9	18	15	16	15	9	7	3	1	0	0	64
30	13	14	18	11	17	18	21	25	18	13	24	20	10	6	9	1	97
31	4	5	3	6	6	8	15	5	6	6	8	4	10	1	4	1	34
32	9	8	7	12	15	11	10	19	17	24	29	13	12	10	10	4	76
33	6	7	10	10	12	20	12	12	14	14	17	21	14	11	11	5	81
34	6	5	8	10	13	14	12	12	18	22	19	30	24	26	10	11	96
35	9	7	3	8	11	14	15	18	17	18	18	17	23	22	22	15	84
36	7	11	3	8	7	9	12	10	18	12	8	16	12	18	16	16	77
37	6	3	0	10	0	7	8	7	8	12	14	15	11	13	19	11	62
38	6	7	6	4	9	8	11	10	14	13	21	17	10	22	16	15	84
39	0	0	3	4	3	8	7	3	11	4	11	16	13	16	20	14	73
40	0	6	3	6	7	11	15	13	16	14	24	18	24	21	28	24	93
41	2	3	0	3	2	0	3	4	5	8	2	10	9	14	9	12	55
42	1	0	3	3	2	1	5	5	6	2	7	5	10	14	17	7	61
43	1	1	2	1	4	1	9	7	3	4	6	8	9	15	12	7	59
44	1	0	0	3	1	4	4	3	4	6	6	10	8	11	8	8	55
45	1	1	1	1	2	4	5	5	5	2	6	10	7	11	17	14	68
46	0	0	0	0	1	1	1	1	0	3	3	0	10	5	3	5	55
47	0	1	0	0	0	0	2	0	1	2	0	3	7	4	5	4	42
48	0	0	0	2	2	1	5	7	5	5	8	5	8	8	12	12	71
49	0	0	0	0	0	0	2	1	1	0	3	3	2	4	3	5	35
50	0	1	2	0	0	2	3	2	6	6	10	11	9	15	13	14	93
51	0	0	0	1	0	0	2	2	3	1	4	2	3	6	8	5	63
52	0	1	0	0	1	0	1	0	4	4	3	1	6	2	8	6	56
53	0	0	0	0	0	0	0	0	0	1	0	1	1	0	5	4	41
54	0	0	0	0	0	0	1	0	0	1	0	1	1	0	1	3	42
55	0	0	0	0	0	3	1	4	1	3	2	2	5	11	8	7	100
56	0	0	0	0	0	0	0	0	2	0	1	1	3	2	5	2	42
57	0	0	0	0	0	0	0	1	0	0	0	1	1	1	2	1	45
58	0	0	0	0	0	0	0	0	0	0	1	0	3	3	1	3	50
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
60	0	0	0	0	0	0	0	0	0	0	2	1	0	0	2	1	98
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	37
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Unknown	5	0	4	7	10	3	4	6	12	9	20	13	28	29	26	25	
TOTAL	302	291	237	251	267	268	308	280	286	263	304	301	307	328	335	266	

Table A.10. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for West Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
17	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
18	6	7	2	0	1	0	0	0	0	0	0	0	0	0	0	0	170
19	9	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	102
20	16	9	9	2	0	0	0	2	0	0	0	0	0	0	0	0	128
21	16	18	14	4	7	1	0	0	0	0	0	0	0	0	0	0	115
22	19	6	11	12	6	4	0	0	0	0	0	0	0	0	0	0	130
23	16	14	18	15	7	7	5	0	1	0	0	0	0	0	0	0	129
24	19	15	23	16	16	4	11	5	2	0	0	0	0	0	0	0	143
25	11	13	9	15	18	9	10	5	4	0	2	0	0	0	0	0	108
26	23	21	8	18	19	11	13	3	10	5	0	0	0	0	0	0	121
27	8	20	13	18	16	21	19	12	9	7	8	2	0	0	0	0	114
28	9	17	15	17	21	15	19	12	23	11	12	11	2	2	0	0	107
29	11	6	15	18	12	17	17	19	23	8	9	13	7	5	3	3	115
30	7	14	15	8	16	16	19	19	17	11	18	11	7	4	2	0	103
31	10	14	6	6	10	7	23	11	22	16	12	17	6	7	4	0	94
32	17	7	8	8	13	19	18	11	26	15	33	22	21	14	15	9	110
33	9	10	11	9	7	19	16	19	17	25	23	10	14	18	16	15	111
34	10	8	10	10	6	7	10	6	12	18	16	33	11	19	9	11	106
35	2	2	3	4	6	6	13	5	13	8	12	15	2	18	6	9	77
36	7	4	1	7	5	4	7	11	14	8	15	13	23	20	12	19	89
37	2	2	1	6	3	10	9	13	7	18	13	20	9	16	19	22	103
38	3	5	6	5	4	5	8	9	9	10	9	12	14	25	24	22	99
39	0	0	2	2	4	1	9	4	5	7	3	7	15	14	7	15	58
40	4	0	0	0	1	2	8	9	0	7	5	8	16	11	19	14	78
41	0	0	2	0	0	3	2	3	1	8	6	9	6	9	8	8	58
42	0	2	0	3	0	5	0	2	3	3	7	1	7	8	10	9	69
43	0	2	0	0	3	8	2	4	4	4	4	6	11	16	7	7	93
44	0	0	0	0	2	2	0	0	5	2	6	5	5	4	13	6	75
45	0	0	0	0	0	0	0	0	3	7	2	1	5	5	9	10	69
46	0	0	0	0	3	0	4	4	2	4	2	4	9	3	7	7	82
47	0	0	0	0	0	0	1	0	0	0	3	0	0	4	2	5	48
48	0	0	0	0	0	0	0	1	2	1	3	2	0	5	4	10	75
49	0	0	0	0	0	0	0	0	0	0	0	0	5	3	1	10	47
50	0	0	0	0	0	0	0	0	0	0	3	0	0	2	3	3	54
51	0	0	0	0	0	0	0	1	1	0	1	0	0	5	9	8	58
52	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2	1	35
53	0	0	0	0	0	0	0	0	0	3	0	0	3	2	0	1	51
54	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	45
55	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	1	75
56	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	2	55
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	41
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	49
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	38
60	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	55
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Unknown	4	3	5	0	6	2	11	6	10	8	12	15	16	16	19	10	
TOTAL	239	229	212	203	212	205	254	196	245	214	244	237	217	259	239	241	

Table A.11. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for South Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
17	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	61
18	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	70
19	3	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	54
20	8	8	1	1	1	0	0	0	0	0	0	0	0	0	0	0	57
21	5	5	4	5	3	1	1	0	0	0	0	0	0	0	0	0	45
22	3	6	6	3	4	0	1	1	1	0	0	0	0	0	0	0	39
23	13	3	5	7	6	7	1	1	0	0	1	1	0	0	0	0	50
24	8	6	3	7	2	4	4	3	1	0	0	0	0	0	0	0	42
25	10	8	6	8	6	6	5	7	5	1	2	1	1	0	0	0	49
26	6	10	11	7	10	8	4	8	4	2	1	1	0	1	0	0	50
27	6	4	10	4	6	4	5	6	3	1	3	1	1	0	0	1	40
28	6	5	5	12	4	8	8	6	4	4	3	1	1	1	1	0	40
29	5	4	3	6	7	3	6	8	8	8	3	2	1	0	0	0	32
30	6	6	4	8	8	7	8	7	8	6	6	6	4	2	1	0	43
31	2	1	1	5	3	4	6	3	4	5	4	1	1	1	1	1	21
32	4	5	3	3	6	3	8	6	6	3	8	7	1	2	4	1	33
33	3	5	4	6	2	3	6	4	3	9	6	6	6	3	6	4	35
34	3	5	4	1	9	7	9	7	10	9	7	11	11	12	7	11	48
35	3	3	3	5	4	7	6	6	12	6	7	7	13	9	7	8	39
36	3	3	1	5	3	1	5	4	8	3	9	9	3	8	6	8	37
37	1	2	3	1	1	3	4	6	8	5	8	4	8	6	6	6	33
38	0	1	3	2	3	5	6	4	7	8	11	12	9	15	7	10	43
39	0	0	1	0	2	1	1	2	3	4	2	3	3	4	5	3	23
40	0	4	1	1	1	2	3	5	6	8	3	6	10	6	4	4	31
41	1	3	0	1	0	0	2	3	2	3	3	5	6	7	4	4	28
42	1	0	3	0	1	3	3	3	2	3	3	3	4	8	4	3	34
43	0	0	2	0	2	1	1	1	2	1	4	4	4	3	3	6	29
44	0	0	0	1	0	1	2	1	1	2	1	6	5	3	3	2	18
45	0	1	0	0	1	1	0	4	2	1	1	3	6	4	7	7	39
46	0	1	0	1	0	0	0	1	1	2	1	2	4	4	4	3	25
47	0	0	0	1	0	0	1	1	0	1	0	2	4	3	0	1	21
48	0	0	0	0	0	0	0	1	1	3	1	3	3	5	6	4	29
49	0	0	0	0	0	0	1	0	1	0	3	1	1	1	1	3	14
50	0	0	0	0	0	1	0	0	0	1	1	1	1	2	4	1	19
51	0	0	0	0	0	0	0	0	1	0	0	1	2	2	2	2	16
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	15
53	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	1	14
54	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	21
55	0	0	0	0	0	0	0	0	0	1	0	1	1	0	2	1	27
56	0	0	0	0	0	0	0	0	0	0	1	1	2	1	2	1	15
57	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	10
58	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	15
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	10
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Unknown	1	1	2	2	5	4	1	6	3	3	9	4	6	8	8	3	
TOTAL	110	108	94	105	101	95	108	116	116	103	117	113	121	128	111	104	

Table A.12. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for Central Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
17	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
18	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
19	9	6	1	3	1	0	0	0	0	0	0	0	0	0	0	0	74
20	11	10	8	1	0	1	0	0	1	0	0	0	0	0	0	0	82
21	11	11	10	4	3	3	2	1	0	0	0	0	0	0	0	0	82
22	14	20	9	4	8	7	5	0	0	0	0	0	0	0	0	0	76
23	8	6	15	9	7	6	3	0	0	0	0	0	0	0	0	0	64
24	21	19	8	16	17	9	7	5	1	3	0	0	0	0	0	0	80
25	17	8	8	12	12	10	9	5	7	4	1	0	2	0	0	0	72
26	19	16	15	10	20	18	16	14	10	6	0	3	0	0	0	0	96
27	7	8	9	10	11	13	8	8	2	6	2	2	1	1	0	0	60
28	12	11	13	10	12	11	15	13	13	8	11	7	1	1	0	1	74
29	11	4	12	13	9	3	11	15	15	9	8	3	1	3	0	0	59
30	10	9	11	9	8	6	10	14	16	9	12	9	6	4	5	0	62
31	6	4	3	3	8	3	10	6	7	7	3	6	7	3	4	1	37
32	3	5	1	3	9	5	5	5	3	14	15	4	11	5	10	5	48
33	8	5	6	5	14	9	9	11	11	14	14	12	21	10	8	7	74
34	1	6	4	5	3	6	14	9	12	14	10	8	14	14	4	6	51
35	3	4	1	3	4	11	4	3	12	4	9	14	14	13	11	11	56
36	3	1	3	3	2	4	9	6	7	6	7	9	8	11	11	11	47
37	4	1	1	6	3	7	5	4	5	7	4	4	13	11	12	11	52
38	2	0	0	2	6	4	4	3	9	7	3	13	10	13	9	10	69
39	0	0	2	0	2	4	4	1	10	1	7	6	5	8	12	12	62
40	0	2	0	4	3	3	6	5	3	7	7	13	16	6	12	15	65
41	0	1	0	1	1	0	1	3	2	4	1	3	3	5	8	9	42
42	0	0	0	1	1	2	1	3	0	1	3	2	10	5	10	5	52
43	0	0	0	0	1	1	3	1	2	2	2	4	7	10	8	3	48
44	0	0	0	0	0	0	3	0	3	3	2	4	4	6	5	5	44
45	0	1	0	0	0	4	0	1	3	1	2	2	1	3	8	11	40
46	0	0	0	0	0	0	0	0	1	3	0	2	3	2	4	3	34
47	0	0	0	0	0	0	0	0	0	3	0	1	3	3	3	3	27
48	0	0	0	0	1	0	0	2	2	0	1	1	5	4	7	6	53
49	0	0	0	0	0	0	0	0	1	0	1	0	1	1	4	0	16
50	0	0	0	0	0	0	0	1	1	0	0	1	2	0	6	3	41
51	0	0	0	0	0	1	0	0	1	0	0	0	1	2	0	3	34
52	0	0	0	0	0	0	0	0	1	1	0	1	1	0	1	0	32
53	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	1	36
54	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	30
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	38
56	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	21
57	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	20
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	57
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	23
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Unknown	0	0	2	2	4	6	2	7	7	6	5	11	14	8	8	16	
TOTAL	194	164	142	139	170	157	167	146	168	151	130	146	186	156	175	159	

Table A.13. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for North Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
17	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
19	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
20	2	3	1	2	0	1	0	0	0	0	0	0	0	0	0	0	30
21	4	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	25
22	6	3	4	1	1	1	1	0	0	0	0	0	0	0	0	0	21
23	3	5	5	3	1	1	2	0	0	0	0	0	0	0	0	0	20
24	8	5	5	2	5	4	1	1	1	0	0	0	0	0	0	0	23
25	5	6	5	7	3	6	2	0	3	2	1	1	1	1	1	0	28
26	2	4	5	4	4	3	5	2	1	0	1	0	0	0	0	0	21
27	3	4	2	4	3	2	3	2	2	1	0	0	0	0	0	0	17
28	4	3	6	7	5	6	5	7	4	5	2	2	0	0	2	0	26
29	2	1	4	7	3	1	5	3	6	4	3	1	2	0	0	0	21
30	3	4	4	4	4	5	7	8	6	6	5	4	4	1	2	0	31
31	2	0	2	4	1	3	1	2	3	1	3	2	4	0	0	0	14
32	2	3	1	4	3	4	1	7	4	5	7	6	5	2	1	1	23
33	2	2	2	3	4	7	3	4	9	1	2	4	3	5	1	3	22
34	1	2	2	2	7	2	2	3	3	6	6	3	7	5	5	2	24
35	2	1	1	3	0	4	3	3	6	5	5	5	6	7	7	3	21
36	1	3	1	1	1	2	3	1	5	1	1	6	4	7	4	5	20
37	0	0	0	2	1	2	1	1	2	0	3	2	2	3	3	3	16
38	0	0	1	0	1	2	0	1	2	1	2	3	4	7	4	2	19
39	0	0	0	1	0	2	2	3	2	4	2	4	3	5	6	2	21
40	0	1	0	0	2	1	0	1	2	2	5	4	2	3	6	2	18
41	1	0	0	0	0	0	0	0	0	1	1	2	3	5	3	4	14
42	0	0	0	0	0	0	1	1	1	1	3	0	4	1	3	2	15
43	0	1	0	0	0	0	0	2	1	1	0	1	1	2	3	3	20
44	0	0	0	2	1	0	0	1	0	1	2	4	4	5	4	3	19
45	0	0	0	0	0	0	1	0	0	0	0	0	1	2	2	2	14
46	0	0	0	0	0	0	1	0	0	0	2	0	0	1	2	1	11
47	0	1	0	0	0	0	0	0	1	1	0	1	3	0	2	1	13
48	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2	2	16
49	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	3	15
50	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	1	14
51	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	1	14
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	8
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	12
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
57	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	9
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Unknown	2	0	1	2	2	1	0	1	1	4	4	5	7	6	4	5	
TOTAL	59	56	55	67	52	60	50	55	66	53	63	63	73	71	70	54	

Table A.14. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-1998 for East Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101
17	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	105
18	9	5	3	1	2	1	0	1	0	0	0	0	0	0	0	0	99
19	6	4	5	0	1	1	0	0	0	0	0	0	0	0	0	0	64
20	16	14	10	5	5	2	3	1	0	0	0	0	0	0	0	0	83
21	7	8	5	4	5	3	1	0	0	0	0	0	0	0	0	0	53
22	17	11	14	10	3	8	5	0	2	2	0	0	0	0	0	0	64
23	13	11	6	16	11	8	3	4	6	0	2	0	0	1	0	0	62
24	6	17	15	10	18	7	9	6	2	1	1	0	1	0	0	0	59
25	12	17	16	15	19	12	25	17	8	8	2	4	0	0	0	0	71
26	7	13	13	12	11	11	9	9	7	4	3	1	0	0	0	0	49
27	9	13	7	15	8	10	14	11	16	6	6	2	2	1	0	0	45
28	10	13	6	4	10	11	8	12	6	7	7	4	4	3	1	2	38
29	7	4	8	5	6	10	9	9	5	4	4	4	4	1	0	0	29
30	10	10	11	12	15	7	19	19	10	12	13	12	7	8	5	3	51
31	0	2	3	2	4	2	6	2	4	4	7	2	3	3	4	2	14
32	9	5	8	8	5	10	10	13	12	10	14	7	5	8	3	4	37
33	6	4	6	9	6	8	10	12	10	5	12	11	7	8	6	4	36
34	3	3	3	4	3	5	7	6	6	8	8	8	3	3	3	3	28
35	11	9	7	7	11	7	14	19	15	15	12	17	16	10	15	11	45
36	5	11	5	8	9	8	10	9	6	9	5	10	10	11	5	8	35
37	8	4	1	4	2	4	7	6	10	7	8	9	7	7	10	5	32
38	5	6	1	4	6	3	6	10	12	8	14	6	5	11	8	9	33
39	1	1	2	1	3	3	5	2	7	1	5	6	8	8	10	7	25
40	1	3	4	6	4	9	13	10	15	7	12	12	17	13	16	14	47
41	3	0	1	2	2	1	5	3	6	2	6	4	7	2	5	4	21
42	0	1	0	1	1	1	4	3	4	3	4	3	6	8	9	4	21
43	1	1	2	2	3	2	8	5	5	3	6	9	4	7	6	6	19
44	2	1	1	2	1	2	3	3	6	4	2	2	7	4	2	6	17
45	2	1	2	3	3	5	9	9	7	7	9	12	14	15	16	13	43
46	0	0	0	1	1	2	1	1	0	1	1	1	1	2	0	2	8
47	1	0	0	0	1	1	1	2	2	0	3	4	3	2	4	4	13
48	0	0	0	2	2	1	5	3	3	2	7	3	7	4	6	9	24
49	0	0	0	0	0	0	1	1	2	0	1	2	1	2	3	1	10
50	0	1	2	0	1	1	3	2	8	5	11	9	11	14	7	16	46
51	0	0	0	1	1	1	2	2	3	1	4	3	2	2	9	2	27
52	0	1	0	0	1	0	2	0	3	4	3	1	3	4	7	5	24
53	0	0	0	0	0	1	1	1	0	0	1	1	2	2	2	2	19
54	0	0	0	0	0	1	1	0	0	1	0	0	0	0	1	2	12
55	0	0	1	0	0	3	2	4	1	3	4	4	5	14	6	6	43
56	0	0	0	0	0	0	0	0	2	2	1	0	1	2	3	2	18
57	0	0	0	0	0	0	0	1	0	1	0	0	2	1	1	1	12
58	0	0	0	0	0	0	0	0	0	0	1	0	1	2	2	1	14
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	9
60	0	0	0	0	0	0	0	0	0	1	0	2	1	1	2	3	37
61	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	5
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
63	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	9
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Unknown	1	0	1	4	4	1	6	2	6	2	8	2	11	12	16	15	
TOTAL	196	196	170	180	188	173	247	221	217	160	207	178	190	197	195	177	

Table A.15. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for Urban

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	250
16	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	312
17	8	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	299
18	14	4	3	4	0	0	0	0	0	0	0	0	0	0	0	0	269
19	17	20	9	2	3	0	0	0	0	0	0	0	0	0	0	0	254
20	27	20	16	12	4	1	0	0	0	0	0	0	0	0	0	0	307
21	23	25	25	17	3	3	0	0	0	0	0	0	0	0	0	0	251
22	48	33	37	24	28	17	9	1	3	1	1	0	0	0	0	0	320
23	41	29	31	32	26	16	9	8	0	0	1	0	0	0	0	0	310
24	43	29	38	29	28	16	12	14	5	2	0	0	0	0	0	0	288
25	42	36	43	38	39	26	27	15	14	8	2	1	1	0	0	0	306
26	36	36	36	48	32	42	44	26	24	12	10	3	1	0	0	0	294
27	47	29	53	40	39	29	36	30	23	25	11	5	1	1	0	0	269
28	23	43	42	57	46	39	37	50	37	34	33	15	9	4	1	0	290
29	24	31	28	40	34	36	41	38	48	34	26	26	19	12	4	0	255
30	21	29	33	47	43	59	48	43	51	33	54	36	30	15	9	2	291
31	15	17	23	33	28	34	32	56	41	43	34	28	25	26	19	6	229
32	15	19	29	31	26	24	28	48	40	44	42	36	28	26	21	22	209
33	10	10	26	28	25	22	34	40	35	32	40	49	41	41	24	20	237
34	11	13	26	22	23	21	22	27	28	31	28	38	26	38	32	18	205
35	12	15	8	16	21	30	25	31	29	36	35	38	32	39	43	37	225
36	6	11	5	14	15	14	20	19	21	24	21	29	24	30	32	24	164
37	4	5	13	9	16	19	30	27	27	18	41	35	30	42	43	30	211
38	9	7	11	11	13	10	26	19	25	25	28	32	32	50	43	36	219
39	3	10	5	9	12	21	19	21	24	23	25	30	25	36	42	41	234
40	3	5	7	9	5	17	15	11	21	11	22	29	27	49	24	41	211
41	1	5	3	8	2	7	12	21	15	18	18	18	16	24	27	27	178
42	2	0	2	7	7	8	5	10	11	14	26	25	15	31	20	28	207
43	1	4	6	6	3	7	9	11	17	12	10	16	14	21	28	35	241
44	1	2	0	2	1	7	5	5	5	14	14	18	21	22	21	24	182
45	0	0	0	2	2	2	4	3	4	9	12	11	13	24	20	19	201
46	0	0	2	0	4	1	2	2	4	2	7	6	9	12	21	10	163
47	0	0	0	0	1	2	0	2	6	3	7	10	7	10	10	10	152
48	0	0	0	0	0	3	0	2	1	4	8	3	7	11	8	17	179
49	0	0	0	0	0	0	0	1	1	0	1	2	2	4	4	6	103
50	0	0	0	2	1	0	2	1	1	4	4	2	2	6	7	10	138
51	0	0	0	0	0	0	0	0	0	1	2	3	8	3	4	11	135
52	0	0	0	0	1	0	0	0	2	2	1	4	5	6	10	10	168
53	0	0	1	0	0	0	0	0	2	2	0	2	1	3	6	6	158
54	0	0	0	0	0	0	0	1	2	1	2	2	2	2	3	2	131
55	0	0	0	0	0	0	0	0	1	1	2	2	5	2	3	3	134
56	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	71
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	89
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	99
59	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	2	64
60	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	120
61	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	48
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	58
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
Unknown	7	5	13	20	10	16	11	16	19	14	27	19	16	22	35	52	
TOTAL	516	494	575	621	542	549	564	599	588	537	595	574	496	615	571	552	

Table A.16. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for Rural

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	137
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133
17	6	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	169
18	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166
19	13	11	3	3	0	0	0	0	0	0	0	0	0	0	0	0	115
20	13	12	13	8	2	1	0	0	0	0	0	0	0	0	0	0	135
21	17	16	12	6	2	1	0	0	0	0	0	0	0	0	0	0	113
22	37	17	23	15	15	9	5	3	1	0	0	0	0	0	0	0	165
23	21	22	20	20	17	10	6	3	1	1	0	0	0	0	0	0	125
24	23	15	17	21	12	18	12	2	4	0	0	0	0	0	0	0	123
25	16	14	15	21	18	17	13	14	7	4	1	1	0	0	0	0	104
26	18	21	24	30	20	18	20	17	9	10	4	1	1	0	0	0	118
27	9	6	16	15	14	16	9	10	13	12	7	1	3	0	0	0	74
28	4	13	16	16	13	15	9	10	11	5	5	6	4	2	2	0	84
29	10	18	15	14	21	23	22	22	28	17	13	9	9	5	1	1	82
30	16	7	22	25	24	22	22	31	21	25	20	21	12	10	5	4	123
31	12	5	12	7	17	14	18	13	15	21	10	15	17	9	2	4	76
32	12	10	11	13	16	11	28	10	26	29	25	31	17	11	10	5	102
33	6	5	14	16	13	9	14	20	15	16	20	22	23	15	15	7	97
34	4	6	6	11	10	5	13	14	25	21	12	13	15	13	15	11	78
35	8	5	8	11	14	14	11	14	23	14	21	20	22	33	20	17	100
36	2	8	3	7	6	11	9	12	11	10	9	10	13	9	24	5	60
37	3	2	5	1	8	15	16	10	6	9	15	14	28	24	14	20	87
38	4	8	7	5	7	14	12	12	16	18	14	27	23	24	16	21	108
39	2	3	9	5	8	6	9	15	6	15	15	14	17	17	20	24	101
40	2	1	4	9	10	5	7	8	9	13	12	14	18	18	18	18	95
41	2	1	3	2	6	1	5	9	7	7	11	12	13	13	27	14	84
42	1	0	4	4	1	1	3	5	11	5	7	5	9	11	11	8	67
43	1	1	4	2	3	5	2	6	6	8	9	9	8	22	10	19	76
44	1	1	1	2	1	5	2	6	6	4	10	9	12	7	14	10	68
45	0	1	1	2	2	3	6	6	6	3	5	6	9	13	12	16	87
46	0	0	1	1	3	1	2	2	1	1	5	7	4	6	3	4	51
47	0	0	0	0	0	0	0	1	0	6	1	5	3	6	8	9	73
48	0	1	2	0	0	1	3	4	3	1	3	0	4	4	8	6	63
49	0	0	0	1	1	1	2	2	1	4	0	2	2	8	10	4	63
50	0	0	1	1	1	1	1	2	3	2	3	4	5	6	7	7	60
51	0	0	0	0	0	1	0	0	3	2	2	4	6	4	5	4	57
52	0	0	0	0	0	1	0	1	4	2	1	4	5	4	5	2	72
53	0	0	0	0	0	1	1	2	0	1	1	2	3	1	4	5	85
54	0	0	0	0	0	0	0	0	0	1	1	1	2	1	5	3	65
55	0	0	0	0	0	0	0	0	1	0	1	2	2	5	6	4	86
56	0	0	0	0	0	0	0	0	0	0	0	2	2	2	7	4	55
57	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	51
58	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	1	70
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	27
60	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	66
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	48
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
64	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	45
Unknown	0	2	1	7	9	11	6	5	9	4	7	10	8	13	16	18	
TOTAL	274	236	293	302	294	287	288	291	309	292	270	305	321	319	328	280	

Table A.17. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for West Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
16	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	121
17	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
18	9	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	141
19	2	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	123
20	13	19	7	5	1	1	0	0	0	0	0	0	0	0	0	0	166
21	10	10	12	5	0	2	0	0	0	0	0	0	0	0	0	0	130
22	30	12	22	10	16	8	5	0	0	0	0	0	0	0	0	0	181
23	20	12	17	21	7	7	2	4	0	0	1	0	0	0	0	0	173
24	18	17	20	10	7	5	7	3	4	1	0	0	0	0	0	0	141
25	19	17	17	17	23	13	12	5	9	0	0	0	0	0	0	0	179
26	23	26	16	28	18	24	18	12	8	7	7	2	0	0	0	0	168
27	23	16	21	19	16	16	11	19	9	15	1	0	0	0	0	0	142
28	13	25	18	35	21	19	25	27	23	12	13	11	3	3	2	0	164
29	6	28	17	16	16	22	23	28	36	18	10	12	12	8	3	0	148
30	9	12	19	20	23	33	16	19	26	20	33	21	11	7	5	1	164
31	7	7	12	15	13	19	17	27	25	26	15	16	17	18	6	1	120
32	8	8	10	10	14	9	18	23	18	26	21	29	9	13	8	9	108
33	5	7	12	19	16	11	17	27	17	15	26	30	27	20	13	8	155
34	4	10	17	13	10	10	9	11	22	13	12	21	14	16	10	10	111
35	5	5	3	9	10	12	11	15	22	15	14	25	15	18	22	15	119
36	0	2	3	4	7	6	7	12	7	12	10	17	12	13	19	7	87
37	2	4	4	4	4	14	19	16	5	8	27	18	24	28	23	18	131
38	4	2	7	3	4	4	17	9	10	20	11	22	15	25	22	11	123
39	1	4	3	7	8	13	13	7	13	11	11	16	12	15	17	26	138
40	0	1	2	3	5	8	6	2	8	5	5	20	13	21	15	22	129
41	0	2	2	1	1	4	5	12	11	10	10	14	13	16	17	16	117
42	0	0	2	2	2	0	3	4	9	2	14	14	6	19	5	14	116
43	0	3	1	3	4	2	5	5	9	6	5	8	4	7	12	16	125
44	0	0	0	2	0	2	0	2	3	4	10	7	8	11	10	4	88
45	0	0	0	0	0	0	0	3	3	3	8	5	6	12	11	14	121
46	0	0	2	0	0	0	0	0	2	0	3	5	3	6	14	7	99
47	0	0	0	0	1	0	0	1	3	4	2	8	1	4	6	8	110
48	0	0	0	0	0	2	0	0	0	1	5	1	3	3	2	7	104
49	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	3	72
50	0	0	0	0	0	0	0	0	0	1	1	0	1	1	2	6	79
51	0	0	0	0	0	0	0	0	0	0	1	4	2	0	1	5	89
52	0	0	0	0	0	0	0	0	1	2	0	1	3	3	5	4	106
53	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	3	113
54	0	0	0	0	0	0	0	0	1	1	0	1	1	0	2	0	79
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	60
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	41
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Unknown	3	4	7	10	7	7	2	10	14	5	8	8	7	6	10	29	
TOTAL	238	268	277	293	254	273	268	303	319	263	284	336	243	297	268	266	

Table A.18. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for South Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
17	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
18	3	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	59
19	9	2	4	1	1	0	0	0	0	0	0	0	0	0	0	0	51
20	7	0	3	3	2	0	0	0	0	0	0	0	0	0	0	0	46
21	9	5	5	4	1	0	0	0	0	0	0	0	0	0	0	0	58
22	5	9	7	5	8	0	3	3	0	0	1	0	0	0	0	0	52
23	10	4	9	6	10	3	1	2	0	1	0	0	0	0	0	0	54
24	10	3	9	7	5	5	2	3	0	0	0	0	0	0	0	0	58
25	7	3	6	8	7	7	4	3	2	1	1	0	1	0	0	0	45
26	8	8	11	9	11	11	9	7	4	3	3	1	1	0	0	0	58
27	9	1	13	10	7	6	6	4	3	3	5	1	0	0	0	0	50
28	4	8	7	11	8	12	5	7	10	6	5	2	6	1	1	0	50
29	5	5	3	6	4	8	3	9	7	8	7	4	1	0	0	0	37
30	5	6	5	8	8	10	8	10	15	4	6	6	7	0	2	0	49
31	5	3	2	5	7	7	6	6	6	6	11	3	4	5	3	0	42
32	4	2	6	8	4	4	7	10	13	11	15	7	6	4	8	5	47
33	5	0	5	6	6	3	6	8	10	11	7	11	8	9	3	4	48
34	2	4	2	4	9	3	11	8	11	6	5	9	8	11	7	4	47
35	5	3	3	6	3	6	4	1	8	9	12	11	9	11	6	6	47
36	0	4	1	2	2	3	7	3	7	8	4	4	7	5	4	2	32
37	2	0	5	4	4	7	8	4	6	4	7	10	8	10	3	5	38
38	2	4	1	3	3	2	2	1	7	2	7	6	7	8	7	7	35
39	0	4	4	1	1	3	3	6	6	6	8	5	6	11	14	8	56
40	1	2	1	3	1	3	1	1	4	2	6	2	2	14	6	5	42
41	0	0	0	0	0	0	2	3	2	3	3	0	2	3	7	5	24
42	1	0	2	2	1	1	2	5	2	4	9	2	4	10	7	7	30
43	1	0	2	1	0	1	0	4	2	2	1	6	4	9	6	11	49
44	0	2	0	0	0	2	1	1	1	4	4	3	5	5	7	6	32
45	0	0	0	1	0	3	4	1	1	2	3	1	5	8	2	5	33
46	0	0	0	0	2	0	1	0	1	0	3	4	1	2	4	0	23
47	0	0	0	0	0	1	0	0	0	2	1	2	2	3	2	2	31
48	0	0	0	0	0	0	1	2	0	1	1	0	3	2	2	3	29
49	0	0	0	0	0	0	0	1	0	0	0	1	2	1	2	2	17
50	0	0	0	1	0	0	0	0	1	0	1	0	0	3	3	1	31
51	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	3	21
52	0	0	0	0	0	0	0	0	0	0	0	2	2	0	3	1	34
53	0	0	0	0	0	0	0	0	0	0	0	2	1	1	5	2	32
54	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	2	25
55	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1	27
56	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	0	15
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	24
59	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	18
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	25
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Unknown	2	0	2	4	2	4	6	4	4	5	5	4	5	2	11	10	
TOTAL	123	83	119	131	117	115	113	117	133	114	143	110	121	143	133	109	

Table A.19. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for Central Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
17	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	113
18	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
19	8	9	2	3	0	0	0	0	0	0	0	0	0	0	0	0	90
20	6	2	11	3	0	0	0	0	0	0	0	0	0	0	0	0	99
21	10	10	14	6	2	0	0	0	0	0	0	0	0	0	0	0	78
22	19	16	14	7	7	9	2	0	2	0	0	0	0	0	0	0	116
23	11	14	12	4	10	5	5	0	0	0	0	0	0	0	0	0	93
24	15	10	11	13	15	14	7	5	2	0	0	0	0	0	0	0	97
25	13	8	13	12	6	8	11	6	3	3	0	0	0	0	0	0	79
26	5	6	15	18	9	11	15	11	10	6	1	0	0	0	0	0	84
27	6	9	12	5	13	2	7	2	10	7	1	1	0	0	0	0	61
28	4	9	17	7	11	9	5	13	5	10	10	5	3	1	0	0	81
29	8	4	5	14	16	7	17	4	13	8	9	9	4	7	1	0	67
30	5	5	11	22	16	13	23	16	10	10	15	14	11	6	0	0	94
31	4	6	8	7	15	11	17	17	8	18	10	14	13	5	5	4	76
32	3	9	9	11	9	11	4	12	16	12	15	19	9	8	3	6	72
33	1	2	7	6	5	3	9	7	6	6	8	9	13	9	8	5	52
34	2	2	5	5	5	6	4	6	3	16	10	10	8	11	15	4	56
35	2	6	0	4	7	13	8	12	8	9	12	9	11	16	18	17	81
36	3	4	0	4	5	6	5	6	6	4	6	7	5	8	16	4	49
37	0	0	4	1	7	5	7	6	13	7	10	6	9	11	14	14	65
38	2	5	3	4	5	5	4	9	6	9	12	9	12	18	15	20	90
39	1	1	1	0	6	5	5	11	2	6	12	9	9	14	11	16	70
40	0	0	2	0	3	0	2	4	6	4	6	5	10	7	6	13	60
41	0	0	3	4	3	0	3	5	3	5	9	8	7	13	16	9	72
42	0	0	0	2	2	6	1	0	8	8	4	7	3	6	7	5	80
43	0	0	1	1	0	5	2	0	3	2	6	3	3	6	7	11	70
44	0	0	1	0	0	4	2	2	3	3	3	4	9	4	4	10	71
45	0	0	0	2	2	0	1	1	1	2	0	2	2	8	8	7	78
46	0	0	0	0	1	0	0	2	0	1	2	1	2	5	1	1	52
47	0	0	0	0	0	1	0	1	3	0	3	3	3	4	6	0	50
48	0	1	2	0	0	0	0	3	1	0	2	0	2	3	8	5	51
49	0	0	0	0	0	0	0	1	1	0	0	1	0	2	4	1	44
50	0	0	0	0	0	0	2	0	0	3	1	1	1	3	5	3	51
51	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	2	40
52	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	2	52
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	51
54	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	54
55	0	0	0	0	0	0	0	0	1	0	0	2	2	1	1	2	50
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	37
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
58	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	42
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
60	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	45
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Unknown	0	0	2	9	5	5	2	1	4	2	9	6	5	10	8	11	
TOTAL	141	138	186	174	185	164	170	163	158	161	176	166	161	189	193	177	

Table A.20. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for North Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
19	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
20	1	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	25
21	3	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	25
22	4	2	0	3	0	3	1	0	0	0	0	0	0	0	0	0	36
23	3	4	1	3	3	1	0	0	0	0	0	0	0	0	0	0	31
24	5	4	4	5	4	2	1	0	0	0	0	0	0	0	0	0	30
25	1	1	4	4	2	2	1	1	1	0	0	0	0	0	0	0	19
26	6	8	6	4	3	4	6	3	4	0	0	0	0	0	0	0	32
27	2	2	6	5	2	7	3	4	7	1	2	0	1	0	0	0	25
28	0	2	1	4	4	1	3	0	1	2	2	0	0	0	0	0	18
29	6	2	4	4	5	6	6	4	4	3	2	1	0	1	0	0	25
30	3	2	6	3	3	6	5	7	5	3	3	5	3	4	1	1	34
31	1	0	4	4	3	3	1	4	3	5	2	4	2	3	2	1	24
32	1	1	4	4	2	3	6	4	3	6	3	0	7	3	4	1	25
33	1	1	4	4	1	4	1	6	3	5	5	7	4	4	6	1	24
34	1	2	1	1	3	1	1	4	8	3	5	3	6	4	5	5	28
35	0	0	0	1	3	2	2	1	2	4	2	3	2	7	4	3	19
36	1	1	0	1	1	2	2	4	1	1	1	1	6	3	2	3	17
37	0	0	1	0	0	2	3	2	1	1	2	2	7	4	4	4	19
38	1	1	4	2	1	2	7	3	6	3	4	8	7	10	7	7	34
39	1	0	1	0	3	1	2	4	3	5	3	3	3	4	5	8	23
40	0	0	1	3	0	2	1	3	1	2	3	4	2	5	4	3	23
41	0	1	0	1	0	0	2	0	0	1	1	1	1	0	4	3	17
42	0	0	0	0	0	0	0	1	0	0	1	1	2	2	4	4	19
43	0	1	1	2	0	2	1	2	1	2	1	4	2	10	5	6	38
44	0	0	0	0	0	1	2	3	1	2	2	2	3	3	3	5	24
45	0	0	0	0	0	0	1	0	1	0	0	1	0	1	1	1	20
46	0	0	0	0	1	0	1	0	0	0	0	1	2	2	1	2	19
47	0	0	0	0	0	0	0	0	0	1	0	0	0	4	2	3	18
48	0	0	0	0	0	1	2	0	0	0	0	0	0	1	1	2	25
49	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	17
50	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	13
51	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	13
52	0	0	0	0	0	0	0	0	1	1	0	0	2	1	1	0	15
53	0	0	1	0	0	0	0	0	0	2	0	0	0	1	0	0	18
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
56	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	12
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	17
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Unknown	0	1	0	2	3	5	5	3	3	4	3	6	1	10	7	7	
TOTAL	42	45	56	64	48	63	66	63	61	57	49	59	63	90	77	70	

Table A.21. Own-Children Data Classified by Single Year of Age and Single Year Age of Mother Derived from TDHS-2003 for East Region

Age of mother	Number of children by age of child															Number of women	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
16	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
17	4	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	117
18	5	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	101
19	9	7	3	2	2	0	0	0	0	0	0	0	0	0	0	0	72
20	13	8	9	7	3	2	0	0	0	0	0	0	0	0	0	0	106
21	8	14	5	7	1	2	0	0	0	0	0	0	0	0	0	0	74
22	26	11	17	14	12	6	3	1	2	1	0	0	0	0	0	0	100
23	17	18	12	18	13	10	7	5	1	0	0	0	0	0	0	0	85
24	18	11	11	15	9	9	7	6	4	1	0	0	0	0	0	0	85
25	18	21	18	18	20	14	12	14	6	7	1	2	0	0	0	0	87
26	14	9	12	19	10	10	16	10	8	5	3	3	1	0	0	0	70
27	15	7	17	15	15	14	19	12	8	11	8	4	3	1	0	0	66
28	6	11	15	17	15	14	7	14	9	9	8	4	2	1	0	0	61
29	9	10	14	15	14	16	14	14	16	14	10	8	11	2	1	1	59
30	14	10	14	19	17	17	18	22	16	20	16	10	10	7	5	4	75
31	10	6	9	9	8	8	9	15	13	9	7	6	7	5	4	4	43
32	12	9	11	11	13	10	21	10	16	18	14	12	14	10	9	5	58
33	5	5	11	10	11	10	15	13	14	12	14	14	12	16	9	8	55
34	6	2	7	10	7	6	10	12	9	13	8	9	6	10	10	6	41
35	8	6	9	7	12	12	11	15	13	13	16	10	16	19	14	13	60
36	3	7	5	11	6	9	8	6	11	9	9	10	8	11	14	13	39
37	3	3	4	2	8	6	9	9	9	8	10	13	10	14	13	9	44
38	5	4	2	3	6	11	8	10	11	8	8	13	14	12	8	12	43
39	1	4	5	6	3	6	5	8	6	10	7	11	12	9	14	6	48
40	5	2	6	9	5	9	12	10	11	11	14	13	18	20	11	16	52
41	3	3	1	4	3	3	5	10	5	5	6	8	6	4	12	7	32
42	1	0	1	4	3	2	2	5	3	4	4	6	9	5	8	6	29
43	2	2	4	2	2	3	4	6	7	7	6	4	8	11	8	11	34
44	1	1	0	2	2	4	3	3	3	5	5	11	8	6	11	9	35
45	0	1	1	1	2	2	4	4	5	4	6	8	10	9	11	8	35
46	0	0	1	1	2	1	2	2	1	3	3	2	4	4	3	3	21
47	0	0	0	0	0	0	0	0	1	0	3	1	2	3	2	2	16
48	0	0	1	0	0	1	1	1	3	2	3	2	4	5	3	6	32
49	0	0	0	1	1	1	2	1	1	4	1	3	2	3	5	4	16
50	0	0	1	1	1	1	1	2	3	2	4	4	4	4	3	7	24
51	0	0	0	0	0	1	0	0	2	3	1	3	7	6	7	5	30
52	0	0	0	0	1	1	0	1	4	1	3	5	2	5	5	5	32
53	0	0	0	0	0	1	1	2	1	1	1	3	3	3	4	5	28
54	0	0	0	0	0	0	0	0	1	1	1	2	2	3	1	4	26
55	0	0	0	0	0	0	0	0	0	1	1	3	2	3	4	7	38
56	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	5	23
57	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	2	22
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	26
59	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	12
60	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	33
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	9
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
64	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	14
Unknown	1	2	2	3	3	6	3	2	2	3	9	5	6	7	14	13	
TOTAL	243	199	229	265	231	228	239	247	226	229	211	215	230	222	229	207	

APPENDIX B

Table B.1. Values of Expansion Factors for Urban-Rural and Five Regions Derived from Household Data of TDHS-1993

Age of child (x)	TDHS-1993 Expansion Factors						
	Urban K_x	Rural K_x	West K_x	South K_x	Central K_x	North K_x	East K_x
0	1.0063	1.0030	1.0046	1.0165	1.0000	1.0115	1.0000
1	1.0130	1.0071	1.0059	1.0187	1.0118	1.0303	1.0000
2	1.0151	1.0336	1.0112	1.0495	1.0376	1.0159	1.0107
3	1.0070	1.0208	1.0000	1.0174	1.0189	1.0469	1.0108
4	1.0135	1.0250	1.0206	1.0080	1.0268	1.0366	1.0096
5	1.0336	1.0192	1.0383	1.0234	1.0240	1.0476	1.0158
6	1.0102	1.0396	1.0048	1.0167	1.0284	1.0606	1.0209
7	1.0226	1.0312	1.0216	1.0207	1.0419	1.0135	1.0221
8	1.0372	1.0287	1.0465	1.0608	1.0237	1.0250	1.0119
9	1.0533	1.0279	1.0519	1.0385	1.0465	1.0595	1.0217
10	1.0521	1.0304	1.0211	1.0573	1.0777	1.0515	1.0271
11	1.0449	1.0137	1.0437	1.0357	1.0266	1.0533	1.0140
12	1.0662	1.0321	1.0680	1.0688	1.0343	1.0707	1.0318
13	1.0558	1.0424	1.0432	1.0503	1.0308	1.0842	1.0619
14	1.0623	1.0700	1.0702	1.0473	1.0918	1.0897	1.0464
15	1.1227	1.0404	1.1160	1.0896	1.0628	1.1149	1.0574

Table B.2. Values of Expansion Factors for Urban-Rural and Five Regions Derived from Household Data of TDHS-1998

Age of child (x)	TDHS-1998 Expansion Factors						
	Urban K_x	Rural K_x	West K_x	South K_x	Central K_x	North K_x	East K_x
0	1.0041	1.0168	1.0170	1.0092	1.0000	1.0351	1.0051
1	1.0088	1.0000	1.0133	1.0093	1.0000	1.0000	1.0000
2	1.0116	1.0172	1.0242	1.0217	1.0143	1.0185	1.0059
3	1.0068	1.0287	1.0000	1.0194	1.0146	1.0308	1.0227
4	1.0249	1.0389	1.0291	1.0521	1.0241	1.0400	1.0217
5	1.0240	1.0113	1.0099	1.0440	1.0397	1.0169	1.0058
6	1.0338	1.0132	1.0453	1.0093	1.0121	1.0000	1.0249
7	1.0346	1.0219	1.0316	1.0545	1.0504	1.0185	1.0091
8	1.0294	1.0438	1.0426	1.0265	1.0435	1.0154	1.0284
9	1.0346	1.0354	1.0388	1.0300	1.0414	1.0816	1.0127
10	1.0406	1.0704	1.0517	1.0833	1.0400	1.0678	1.0402
11	1.0554	1.0451	1.0676	1.0367	1.0815	1.0862	1.0114
12	1.0586	1.1004	1.0796	1.0522	1.0814	1.1061	1.0615
13	1.0458	1.0970	1.0658	1.0667	1.0541	1.0923	1.0649
14	1.0681	1.0841	1.0864	1.0777	1.0479	1.0606	1.0894
15	1.0519	1.1037	1.0433	1.0297	1.1119	1.1020	1.0926

Table B.3. Values of Expansion Factors for Urban-Rural and Five Regions Derived from Household Data of TDHS-2003

Age of child (<i>x</i>)	TDHS-2003 Expansion Factors						
	Urban K_x	Rural K_x	West K_x	South K_x	Central K_x	North K_x	East K_x
0	1.0138	1.0000	1.0128	1.0165	1.0000	1.0000	1.0041
1	1.0102	1.0085	1.0152	1.0000	1.0000	1.0227	1.0102
2	1.0231	1.0034	1.0259	1.0171	1.0109	1.0000	1.0088
3	1.0333	1.0237	1.0353	1.0315	1.0545	1.0323	1.0115
4	1.0188	1.0316	1.0283	1.0174	1.0278	1.0667	1.0132
5	1.0300	1.0399	1.0263	1.0360	1.0314	1.0862	1.0270
6	1.0199	1.0213	1.0075	1.0561	1.0119	1.0820	1.0127
7	1.0274	1.0175	1.0341	1.0354	1.0062	1.0500	1.0082
8	1.0334	1.0300	1.0459	1.0310	1.0260	1.0517	1.0089
9	1.0268	1.0139	1.0194	1.0459	1.0126	1.0755	1.0133
10	1.0475	1.0266	1.0290	1.0362	1.0539	1.0652	1.0446
11	1.0342	1.0339	1.0244	1.0377	1.0375	1.1132	1.0238
12	1.0333	1.0256	1.0297	1.0431	1.0321	1.0161	1.0268
13	1.0371	1.0425	1.0206	1.0142	1.0559	1.1250	1.0326
14	1.0653	1.0513	1.0388	1.0902	1.0432	1.1000	1.0651
15	1.1040	1.0687	1.1224	1.1010	1.0663	1.1111	1.0670

APPENDIX C

Table C.1. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding the Urban

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96008	15	92898	0.92405	40	89045	0.88929
1	94300	0.94041	16	92825	0.91954	41	88796	0.88814
2	93795	0.93688	17	92745	0.92632	42	88534	0.88462
3	93513	0.93301	18	92657	0.93204	43	88258	0.87952
4	93318	0.93750	19	92561	0.91964	44	87966	0.87853
5	93168	0.93077	20	92458	0.92500	45	87655	0.87599
6	93047	0.92727	21	92347	0.92188	46	87323	0.87224
7	92945	0.92708	22	92229	0.91912	47	86968	0.86788
8	92856	0.93023	23	92104	0.92308	48	86587	0.86316
9	92776	0.92405	24	91972	0.91391	49	86177	0.86019
10	92703	0.92105	25	91834	0.91772	50	85734	0.85357
11	92633	0.93333	26	91689	0.91463	51	85256	0.85082
12	92563	0.92208	27	91539	0.91228	52	84737	0.84408
13	92492	0.92683	28	91383	0.91525	53	84174	0.83858
14	92416	0.92222	29	91221	0.90710	54	83561	0.83292
15	92333	0.92929	30	91055	0.91005	55	82893	0.82426
			31	90883	0.91282	56	82166	0.81771
			32	90705	0.90594	57	81372	0.80935
			33	90522	0.90431	58	80506	0.80017
			34	90333	0.90278	59	79561	0.79080
			35	90138	0.90179	60	78529	0.77978
			36	89936	0.90129	61	77403	0.76783
			37	89726	0.89300	62	76176	0.75494
			38	89509	0.89370	63	74839	0.74108
			39	89282	0.89098	64	73385	0.72610

Table C.2. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding the Rural

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.94471	15	88804	0.88889	40	83169	0.82872
1	92106	0.91527	16	88692	0.88406	41	82840	0.82809
2	91069	0.90769	17	88570	0.88079	42	82498	0.82367
3	90538	0.90501	18	88437	0.88415	43	82143	0.82080
4	90195	0.90110	19	88292	0.88202	44	81772	0.81513
5	89949	0.90000	20	88135	0.87958	45	81384	0.81312
6	89760	0.89412	21	87967	0.88235	46	80975	0.80712
7	89608	0.89437	22	87787	0.87558	47	80544	0.80141
8	89481	0.89431	23	87597	0.87391	48	80088	0.79934
9	89371	0.90000	24	87396	0.87552	49	79602	0.79294
10	89272	0.89320	25	87185	0.86905	50	79085	0.78917
11	89180	0.89109	26	86966	0.87023	51	78531	0.78129
12	89090	0.89423	27	86738	0.86397	52	77938	0.77616
13	88997	0.88288	28	86503	0.86121	53	77300	0.77044
14	88899	0.89256	29	86261	0.86159	54	76612	0.76259
15	88791	0.88889	30	86012	0.86195	55	75870	0.75447
			31	85756	0.85574	56	75068	0.74549
			32	85495	0.85304	57	74201	0.73804
			33	85228	0.85047	58	73260	0.72714
			34	84955	0.85106	59	72242	0.71753
			35	84675	0.84615	60	71137	0.70477
			36	84389	0.83908	61	69941	0.69321
			37	84097	0.84078	62	68644	0.67942
			38	83796	0.83740	63	67241	0.66506
			39	83487	0.83246	64	65724	0.64909

Table C.3. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding West Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96426	15	93188	0.93671	40	89418	0.89299
1	94901	0.94670	16	93114	0.93103	41	89176	0.88811
2	94457	0.94422	17	93033	0.92632	42	88922	0.89109
3	94220	0.94083	18	92945	0.92233	43	88652	0.88545
4	94061	0.94488	19	92850	0.93694	44	88366	0.88116
5	93941	0.94059	20	92746	0.92437	45	88062	0.88108
6	93846	0.92941	21	92636	0.92126	46	87736	0.87469
7	93767	0.94521	22	92519	0.92537	47	87387	0.87209
8	93698	0.93846	23	92395	0.92908	48	87012	0.86910
9	93637	0.93333	24	92264	0.91892	49	86607	0.86364
10	93581	0.94737	25	92128	0.92208	50	86170	0.85870
11	93527	0.93103	26	91986	0.92500	51	85696	0.85548
12	93473	0.91803	27	91838	0.91566	52	85181	0.84825
13	93417	0.94030	28	91686	0.91860	53	84622	0.84349
14	93354	0.93421	29	91528	0.91011	54	84013	0.83733
15	93283	0.93103	30	91366	0.91257	55	83349	0.83028
			31	91199	0.91534	56	82625	0.82206
			32	91026	0.90769	57	81835	0.81321
			33	90849	0.90594	58	80973	0.80513
			34	90666	0.90431	59	80031	0.79505
			35	90477	0.90278	60	79003	0.78446
			36	90282	0.90222	61	77882	0.77244
			37	90079	0.90171	62	76660	0.76014
			38	89868	0.89796	63	75329	0.74588
			39	89648	0.89494	64	73882	0.73116

Table C.4. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding South Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.95522	15	91559	0.92000	40	87136	0.87188
1	93601	0.93269	16	91467	0.91667	41	86857	0.86607
2	92922	0.92742	17	91368	0.90598	42	86566	0.86441
3	92577	0.92531	18	91262	0.92000	43	86260	0.86096
4	92354	0.92571	19	91147	0.91045	44	85938	0.85894
5	92192	0.91912	20	91025	0.90909	45	85597	0.85308
6	92067	0.91818	21	90895	0.90728	46	85237	0.85144
7	91966	0.92473	22	90758	0.90566	47	84853	0.84679
8	91880	0.91463	23	90614	0.90476	48	84444	0.84200
9	91805	0.92000	24	90462	0.90857	49	84007	0.83571
10	91736	0.91667	25	90303	0.90164	50	83539	0.83306
11	91670	0.91781	26	90138	0.90000	51	83035	0.82774
12	91603	0.92308	27	89967	0.89899	52	82492	0.82328
13	91531	0.91860	28	89789	0.89756	53	81905	0.81491
14	91452	0.91753	29	89605	0.89623	54	81271	0.80941
15	91363	0.91818	30	89415	0.89498	55	80583	0.80129
			31	89219	0.88987	56	79837	0.79530
			32	89017	0.88889	57	79025	0.78540
			33	88809	0.88843	58	78143	0.77670
			34	88594	0.88446	59	77183	0.76669
			35	88372	0.88462	60	76138	0.75548
			36	88142	0.87778	61	75001	0.74399
			37	87905	0.87900	62	73763	0.73127
			38	87658	0.87671	63	72416	0.71667
			39	87402	0.87213	64	70954	0.70159

Table C.5. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding Central Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.94961	15	91077	0.90909	40	86424	0.86350
1	92801	0.92381	16	90987	0.91589	41	86133	0.85836
2	92025	0.91868	17	90889	0.90598	42	85830	0.85714
3	91607	0.91234	18	90783	0.90551	43	85512	0.85422
4	91326	0.91304	19	90668	0.90511	44	85178	0.84783
5	91116	0.91209	20	90544	0.90476	45	84827	0.84738
6	90950	0.90728	21	90411	0.90446	46	84455	0.84188
7	90813	0.90698	22	90269	0.90419	47	84061	0.83832
8	90696	0.91228	23	90118	0.89831	48	83641	0.83426
9	90592	0.90385	24	89959	0.90323	49	83193	0.83045
10	90498	0.90909	25	89791	0.89286	50	82713	0.82400
11	90408	0.90816	26	89616	0.89706	51	82198	0.81979
12	90319	0.90099	27	89433	0.89202	52	81643	0.81361
13	90228	0.89815	28	89243	0.89140	53	81045	0.80774
14	90131	0.89744	29	89046	0.88646	54	80398	0.80000
15	90026	0.90625	30	88843	0.88608	55	79698	0.79332
			31	88633	0.88571	56	78938	0.78476
			32	88416	0.88492	57	78114	0.77643
			33	88193	0.87739	58	77218	0.76772
			34	87964	0.88104	59	76243	0.75697
			35	87727	0.87410	60	75184	0.74611
			36	87484	0.87500	61	74032	0.73388
			37	87232	0.86913	62	72780	0.72163
			38	86973	0.87097	63	71419	0.70642
			39	86703	0.86378	64	69944	0.69161

Table C.6. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding North Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.95447	15	92230	0.91089	40	88050	0.87755
1	93502	0.93172	16	92138	0.92593	41	87792	0.87742
2	92847	0.92895	17	92038	0.92241	42	87520	0.87195
3	92494	0.92218	18	91931	0.91935	43	87234	0.87356
4	92257	0.92188	19	91817	0.91667	44	86930	0.86523
5	92080	0.91503	20	91696	0.91367	45	86609	0.86398
6	91940	0.92126	21	91569	0.91837	46	86266	0.86118
7	91823	0.92661	22	91434	0.90909	47	85900	0.85808
8	91722	0.91667	23	91294	0.91304	48	85507	0.85223
9	91634	0.90909	24	91147	0.91018	49	85086	0.84888
10	91554	0.91463	25	90995	0.91329	50	84631	0.84364
11	91479	0.91250	26	90837	0.90503	51	84140	0.83886
12	91406	0.91358	27	90675	0.90811	52	83609	0.83357
13	91332	0.91860	28	90507	0.90576	53	83033	0.82672
14	91253	0.91489	29	90334	0.89848	54	82408	0.82027
15	91167	0.90566	30	90157	0.90148	55	81728	0.81319
			31	89974	0.89474	56	80988	0.80700
			32	89787	0.89767	57	80181	0.79673
			33	89594	0.89189	58	79303	0.78765
			34	89396	0.89520	59	78346	0.77852
			35	89191	0.89030	60	77302	0.76772
			36	88980	0.89024	61	76165	0.75519
			37	88761	0.89063	62	74928	0.74297
			38	88533	0.88390	63	73581	0.72809
			39	88297	0.88214	64	72119	0.71358

Table C.7. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1993 Regarding East Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.94402	15	88256	0.88406	40	82582	0.82297
1	92006	0.91578	16	88134	0.87755	41	82238	0.82110
2	90973	0.90753	17	88005	0.88535	42	81880	0.81579
3	90443	0.90000	18	87866	0.87500	43	81508	0.81381
4	90101	0.89818	19	87719	0.87709	44	81119	0.80915
5	89854	0.89623	20	87562	0.87435	45	80712	0.80603
6	89664	0.90058	21	87395	0.87129	46	80284	0.79929
7	89510	0.89510	22	87219	0.87324	47	79834	0.79599
8	89382	0.88710	23	87033	0.86667	48	79358	0.79121
9	89272	0.90000	24	86838	0.86864	49	78854	0.78592
10	89173	0.88350	25	86633	0.86585	50	78318	0.77869
11	89082	0.89000	26	86420	0.86381	51	77748	0.77510
12	88993	0.89216	27	86198	0.86142	52	77138	0.76824
13	88902	0.88991	28	85968	0.85921	53	76485	0.76113
14	88805	0.88333	29	85730	0.85714	54	75784	0.75400
15	88699	0.88889	30	85484	0.85185	55	75030	0.74724
			31	85231	0.85016	56	74217	0.73737
			32	84970	0.84858	57	73341	0.72825
			33	84701	0.84404	58	72395	0.71890
			34	84425	0.84570	59	71372	0.70825
			35	84140	0.83668	60	70265	0.69674
			36	83848	0.83889	61	69068	0.68446
			37	83546	0.83378	62	67773	0.67034
			38	83235	0.83161	63	66374	0.65625
			39	82914	0.82793	64	64862	0.64061

Table C.8. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding the Urban

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96858	15	94447	0.96364	40	91374	0.91489
1	95500	0.95200	16	94394	0.93443	41	91159	0.90800
2	95143	0.95431	17	94337	0.95522	42	90932	0.90602
3	94955	0.94697	18	94273	0.93243	43	90691	0.90845
4	94830	0.94898	19	94204	0.93750	44	90433	0.90132
5	94737	0.96154	20	94129	0.94253	45	90159	0.89939
6	94662	0.93846	21	94047	0.93617	46	89864	0.89802
7	94601	0.94737	22	93959	0.94000	47	89547	0.89295
8	94547	0.94231	23	93865	0.93458	48	89205	0.88942
9	94498	0.95918	24	93765	0.93805	49	88835	0.88742
10	94451	0.92000	25	93659	0.94118	50	88433	0.88057
11	94405	0.94340	26	93547	0.93600	51	87998	0.87800
12	94355	0.93103	27	93430	0.93130	52	87523	0.87184
13	94301	0.95385	28	93308	0.93431	53	87006	0.86656
14	94239	0.94521	29	93180	0.93007	54	86441	0.86192
15	94170	0.92771	30	93047	0.92617	55	85823	0.85461
			31	92909	0.92903	56	85147	0.84880
			32	92765	0.92547	57	84406	0.83954
			33	92616	0.92857	58	83595	0.83162
			34	92460	0.92000	59	82706	0.82179
			35	92299	0.92350	60	81733	0.81188
			36	92130	0.92147	61	80667	0.80096
			37	91954	0.92000	62	79500	0.78850
			38	91770	0.91469	63	78225	0.77518
			39	91577	0.91441	64	76832	0.76064

Table C.9. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding the Rural

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.95584	15	91366	0.91753	40	86869	0.87037
1	93701	0.93544	16	91277	0.90476	41	86587	0.86471
2	93078	0.92837	17	91182	0.91228	42	86293	0.86034
3	92754	0.92609	18	91078	0.91057	43	85985	0.85714
4	92541	0.92353	19	90966	0.90909	44	85661	0.85750
5	92384	0.92481	20	90846	0.90845	45	85318	0.84977
6	92261	0.91818	21	90717	0.90789	46	84956	0.84835
7	92160	0.92473	22	90579	0.90683	47	84570	0.84394
8	92074	0.91566	23	90433	0.90058	48	84159	0.83969
9	91998	0.92105	24	90279	0.90000	49	83719	0.83363
10	91928	0.91781	25	90117	0.90426	50	83248	0.83142
11	91861	0.91892	26	89947	0.89340	51	82740	0.82504
12	91793	0.91139	27	89771	0.89756	52	82193	0.81856
13	91721	0.91860	28	89587	0.89623	53	81602	0.81218
14	91642	0.91753	29	89397	0.89091	54	80962	0.80720
15	91553	0.91818	30	89201	0.88987	55	80267	0.79873
			31	88999	0.88936	56	79513	0.79074
			32	88790	0.88843	57	78693	0.78246
			33	88575	0.88400	58	77801	0.77309
			34	88354	0.88372	59	76830	0.76318
			35	88126	0.88015	60	75773	0.75229
			36	87891	0.87681	61	74622	0.74039
			37	87649	0.87762	62	73370	0.72650
			38	87398	0.86913	63	72010	0.71284
			39	87139	0.87097	64	70533	0.69730

Table C.10. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding West Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96858	15	95043	0.94000	40	92327	0.92093
1	95500	0.95200	16	94996	0.94444	41	92129	0.92140
2	95143	0.94949	17	94945	0.96552	42	91918	0.91803
3	94955	0.94697	18	94889	0.95238	43	91694	0.91603
4	94830	0.94898	19	94829	0.95588	44	91454	0.91135
5	94737	0.96154	20	94764	0.94595	45	91197	0.91118
6	94662	0.93846	21	94694	0.94937	46	90920	0.90881
7	94601	0.94737	22	94619	0.94118	47	90621	0.90476
8	94547	0.94231	23	94539	0.95556	48	90298	0.89974
9	94498	0.93878	24	94453	0.93750	49	89948	0.89858
10	94452	0.94000	25	94363	0.94118	50	89567	0.89224
11	94405	0.94340	26	94267	0.94393	51	89153	0.88976
12	94355	0.94828	27	94166	0.93805	52	88701	0.88351
13	94300	0.93846	28	94060	0.94068	53	88208	0.87948
14	94239	0.94521	29	93949	0.93548	54	87668	0.87426
15	94170	0.93976	30	93833	0.93798	55	87077	0.86729
			31	93712	0.94074	56	86430	0.86061
			32	93585	0.93662	57	85720	0.85323
			33	93452	0.93243	58	84941	0.84471
			34	93314	0.93548	59	84087	0.83661
			35	93169	0.93252	60	83150	0.82623
			36	93017	0.92982	61	82123	0.81522
			37	92858	0.92818	62	80998	0.80431
			38	92690	0.92670	63	79765	0.79049
			39	92513	0.92079	64	78418	0.77666

Table C.11. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding South Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96855	15	94847	0.95918	40	91949	0.91928
1	95503	0.95211	16	94800	0.94444	41	91744	0.91561
2	95165	0.94898	17	94749	0.94915	42	91527	0.91667
3	94979	0.95556	18	94693	0.95385	43	91296	0.91078
4	94850	0.94231	19	94631	0.94366	44	91051	0.90972
5	94752	0.95238	20	94564	0.94872	45	90789	0.90645
6	94672	0.95775	21	94490	0.94118	46	90508	0.90448
7	94604	0.93651	22	94410	0.94505	47	90205	0.90055
8	94545	0.94643	23	94324	0.94898	48	89879	0.89594
9	94492	0.94340	24	94231	0.93333	49	89526	0.89277
10	94442	0.94118	25	94133	0.94595	50	89143	0.89103
11	94394	0.94118	26	94028	0.94017	51	88726	0.88499
12	94346	0.94545	27	93918	0.94309	52	88272	0.87922
13	94294	0.93333	28	93802	0.93077	53	87777	0.87561
14	94238	0.94118	29	93681	0.93382	54	87235	0.86969
15	94174	0.93506	30	93554	0.93662	55	86641	0.86207
			31	93421	0.92568	56	85991	0.85714
			32	93284	0.93506	57	85277	0.84924
			33	93140	0.93125	58	84494	0.84051
			34	92991	0.92814	59	83635	0.83157
			35	92836	0.93103	60	82692	0.82208
			36	92674	0.92857	61	81657	0.81129
			37	92505	0.92147	62	80522	0.79884
			38	92329	0.92040	63	79279	0.78567
			39	92144	0.92417	64	77919	0.77207

Table C.12. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding Central Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96638	15	93476	0.93506	40	89978	0.89961
1	95200	0.94987	16	93404	0.92771	41	89745	0.89455
2	94821	0.94690	17	93327	0.93258	42	89499	0.89041
3	94607	0.94969	18	93244	0.92632	43	89239	0.89068
4	94456	0.94309	19	93156	0.94059	44	88962	0.88889
5	94340	0.94059	20	93061	0.92593	45	88666	0.88515
6	94245	0.95349	21	92961	0.92982	46	88350	0.88281
7	94163	0.93421	22	92855	0.92500	47	88011	0.87952
8	94092	0.94118	23	92744	0.92857	48	87646	0.87333
9	94028	0.95238	24	92627	0.93182	49	87253	0.87090
10	93968	0.93220	25	92504	0.92029	50	86828	0.86654
11	93913	0.94828	26	92377	0.92361	51	86367	0.86059
12	93858	0.93220	27	92244	0.92000	52	85867	0.85512
13	93803	0.93548	28	92106	0.91667	53	85324	0.85201
14	93745	0.92647	29	91963	0.92547	54	84731	0.84314
15	93682	0.93506	30	91814	0.91617	55	84086	0.83729
			31	91661	0.91379	56	83381	0.83064
			32	91502	0.91667	57	82611	0.82209
			33	91337	0.91444	58	81770	0.81256
			34	91166	0.91282	59	80851	0.80400
			35	90988	0.90640	60	79846	0.79335
			36	90804	0.91038	61	78748	0.78096
			37	90611	0.90541	62	77550	0.76896
			38	90410	0.90558	63	76242	0.75517
			39	90199	0.90204	64	74817	0.74033

Table C.13. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding North Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.95664	15	92514	0.92208	40	88496	0.88776
1	93801	0.93582	16	92443	0.91667	41	88235	0.87742
2	93174	0.92837	17	92366	0.93478	42	87963	0.88073
3	92850	0.93043	18	92280	0.92079	43	87675	0.87320
4	92636	0.92308	19	92187	0.91892	44	87372	0.87263
5	92480	0.92424	20	92085	0.92500	45	87050	0.87056
6	92358	0.91743	21	91974	0.91538	46	86707	0.86525
7	92258	0.92473	22	91855	0.92086	47	86341	0.86154
8	92172	0.91463	23	91727	0.91892	48	85949	0.85743
9	92097	0.92105	24	91591	0.91720	49	85528	0.85338
10	92027	0.91781	25	91447	0.90964	50	85074	0.84775
11	91960	0.92000	26	91296	0.91379	51	84584	0.84286
12	91891	0.91250	27	91137	0.91160	52	84053	0.83843
13	91818	0.92045	28	90972	0.90957	53	83477	0.83245
14	91737	0.91837	29	90801	0.90306	54	82851	0.82424
15	91647	0.91892	30	90624	0.90594	55	82171	0.81788
			31	90441	0.90909	56	81430	0.81024
			32	90251	0.90278	57	80623	0.80146
			33	90056	0.90135	58	79743	0.79273
			34	89855	0.89610	59	78783	0.78235
			35	89648	0.89540	60	77737	0.77183
			36	89434	0.89516	61	76597	0.75995
			37	89212	0.88760	62	75356	0.74709
			38	88983	0.88848	63	74006	0.73263
			39	88744	0.88256	64	72540	0.71719

Table C.14. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-1998 Regarding East Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.95447	15	90230	0.89831	40	85279	0.85359
1	93502	0.93182	16	90124	0.90476	41	84970	0.84697
2	92846	0.92632	17	90010	0.89552	42	84649	0.84673
3	92494	0.92607	18	89890	0.90210	43	84312	0.84010
4	92256	0.92188	19	89761	0.89474	44	83960	0.83937
5	92079	0.91503	20	89625	0.89441	45	83589	0.83333
6	91939	0.92126	21	89481	0.89474	46	83199	0.83099
7	91822	0.91743	22	89328	0.88889	47	82786	0.82453
8	91722	0.91667	23	89168	0.89418	48	82349	0.82155
9	91634	0.91954	24	88999	0.88889	49	81884	0.81713
10	91554	0.91463	25	88823	0.88889	50	81388	0.81164
11	91479	0.91250	26	88639	0.88426	51	80858	0.80567
12	91406	0.90244	27	88448	0.88000	52	80290	0.80079
13	91332	0.91954	28	88250	0.88412	53	79679	0.79348
14	91252	0.90526	29	88044	0.87603	54	79022	0.78603
15	91166	0.91509	30	87832	0.88000	55	78313	0.77947
			31	87612	0.87645	56	77546	0.77138
			32	87385	0.87313	57	76716	0.76251
			33	87151	0.87050	58	75817	0.75290
			34	86909	0.86760	59	74842	0.74316
			35	86660	0.86577	60	73783	0.73248
			36	86402	0.86084	61	72633	0.72014
			37	86136	0.85938	62	71385	0.70705
			38	85861	0.85886	63	70031	0.69292
			39	85575	0.85303	64	68562	0.67760

Table C.15. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding the Urban

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.97617	15	95633	0.94118	40	93158	0.93229
1	96600	0.96567	16	95585	0.94545	41	92979	0.92683
2	96375	0.95968	17	95533	0.94915	42	92789	0.92727
3	96256	0.96386	18	95477	0.95238	43	92585	0.92373
4	96176	0.95238	19	95417	0.95522	44	92367	0.92520
5	96116	0.98000	20	95353	0.95775	45	92132	0.92000
6	96067	0.95349	21	95285	0.94667	46	91879	0.91611
7	96026	0.97297	22	95214	0.94937	47	91606	0.91358
8	95990	0.97059	23	95139	0.95181	48	91310	0.90935
9	95957	0.93939	24	95060	0.95402	49	90989	0.90909
10	95926	0.96970	25	94977	0.95604	50	90639	0.90521
11	95894	0.94444	26	94890	0.94792	51	90257	0.90065
12	95860	0.95000	27	94799	0.95000	52	89840	0.89587
13	95822	0.97778	28	94704	0.95192	53	89384	0.89127
14	95778	0.96154	29	94605	0.94495	54	88884	0.88530
15	95728	0.95000	30	94502	0.93860	55	88336	0.88029
			31	94395	0.94958	56	87733	0.87467
			32	94282	0.93600	57	87070	0.86564
			33	94165	0.93893	58	86342	0.85959
			34	94042	0.94161	59	85540	0.85149
			35	93913	0.94444	60	84657	0.84142
			36	93777	0.93421	61	83686	0.83191
			37	93635	0.93168	62	82617	0.81983
			38	93485	0.93529	63	81443	0.80827
			39	93326	0.93333	64	80153	0.79450

Table C.16. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding The Rural

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96153	15	93380	0.92405	40	89607	0.89591
1	94501	0.94151	16	93307	0.94186	41	89366	0.89399
2	94002	0.93796	17	93226	0.93617	42	89113	0.89000
3	93745	0.93889	18	93138	0.93137	43	88846	0.88715
4	93576	0.93939	19	93043	0.92793	44	88563	0.88563
5	93452	0.93269	20	92940	0.92437	45	88261	0.88219
6	93355	0.94186	21	92830	0.92913	46	87939	0.87786
7	93274	0.93151	22	92712	0.92537	47	87594	0.87264
8	93206	0.92308	23	92588	0.92908	48	87224	0.87146
9	93146	0.94915	24	92457	0.92568	49	86824	0.86573
10	93090	0.92857	25	92320	0.91613	50	86392	0.86004
11	93038	0.94643	26	92178	0.91925	51	85925	0.85666
12	92985	0.91667	27	92030	0.91617	52	85417	0.85185
13	92930	0.93939	28	91877	0.92442	53	84865	0.84669
14	92868	0.92105	29	91718	0.91573	54	84263	0.83867
15	92798	0.92045	30	91555	0.91304	55	83608	0.83353
			31	91387	0.91534	56	82892	0.82471
			32	91214	0.91282	57	82111	0.81722
			33	91036	0.90594	58	81257	0.80763
			34	90853	0.90431	59	80325	0.79859
			35	90664	0.90741	60	79306	0.78754
			36	90468	0.90625	61	78194	0.77621
			37	90265	0.90129	62	76980	0.76284
			38	90055	0.89754	63	75658	0.74961
			39	89836	0.89804	64	74218	0.73440

Table C.17. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding West Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.97973	15	96526	0.92857	40	94509	0.94479
1	97100	0.96970	16	96500	0.96774	41	94355	0.94286
2	96940	0.97000	17	96470	0.97059	42	94190	0.94118
3	96843	0.97297	18	96437	0.97436	43	94014	0.93564
4	96771	0.96610	19	96399	0.95349	44	93825	0.94037
5	96714	0.98000	20	96358	0.97917	45	93620	0.93220
6	96665	0.95455	21	96311	0.96226	46	93400	0.93385
7	96623	0.95000	22	96260	0.96610	47	93160	0.92883
8	96585	0.97297	23	96203	0.95313	48	92899	0.92834
9	96549	0.94286	24	96142	0.95652	49	92614	0.92582
10	96516	0.97059	25	96076	0.95946	50	92302	0.92183
11	96483	0.94286	26	96005	0.96203	51	91960	0.91932
12	96450	0.97297	27	95929	0.95238	52	91584	0.91372
13	96414	0.97500	28	95849	0.95455	53	91171	0.91018
14	96375	0.95556	29	95765	0.95699	54	90715	0.90450
15	96332	0.96078	30	95676	0.95918	55	90213	0.89951
			31	95582	0.96078	56	89658	0.89213
			32	95484	0.95327	57	89046	0.88729
			33	95382	0.95536	58	88369	0.87986
			34	95275	0.94915	59	87622	0.87223
			35	95163	0.95161	60	86796	0.86269
			36	95045	0.94615	61	85885	0.85399
			37	94922	0.94891	62	84879	0.84323
			38	94792	0.95172	63	83771	0.83174
			39	94654	0.94156	64	82550	0.81879

Table C.18. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding South Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.97256	15	94947	0.95918	40	92101	0.91589
1	96101	0.96283	16	94900	0.94444	41	91905	0.92070
2	95842	0.95425	17	94849	0.95000	42	91696	0.91322
3	95696	0.95413	18	94792	0.93939	43	91475	0.91892
4	95592	0.95294	19	94730	0.94521	44	91237	0.91039
5	95511	0.95714	20	94661	0.94937	45	90983	0.90698
6	95444	0.95000	21	94586	0.94186	46	90710	0.90798
7	95387	0.94340	22	94505	0.94624	47	90414	0.90141
8	95337	0.95833	23	94417	0.94000	48	90094	0.89922
9	95291	0.95455	24	94323	0.94340	49	89746	0.89598
10	95249	0.95238	25	94223	0.94643	50	89367	0.89201
11	95209	0.95122	26	94117	0.93220	51	88954	0.88605
12	95170	0.95238	27	94007	0.94309	52	88503	0.88214
13	95130	0.95455	28	93891	0.93750	53	88009	0.87844
14	95088	0.93878	29	93771	0.93985	54	87467	0.87225
15	95042	0.94643	30	93646	0.93525	55	86873	0.86454
			31	93516	0.93056	56	86222	0.85954
			32	93382	0.93289	57	85506	0.85049
			33	93243	0.93506	58	84721	0.84262
			34	93099	0.93125	59	83859	0.83348
			35	92950	0.92814	60	82913	0.82446
			36	92795	0.93103	61	81875	0.81259
			37	92633	0.92857	62	80739	0.80103
			38	92464	0.92670	63	79495	0.78841
			39	92287	0.92079	64	78135	0.77413

Table C.19. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding Central Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.97587	15	96749	0.96970	40	94895	0.94737
1	96563	0.96396	16	96717	0.94444	41	94751	0.94512
2	96349	0.96032	17	96683	0.97436	42	94596	0.94350
3	96228	0.96629	18	96645	0.95238	43	94429	0.94241
4	96142	0.95652	19	96605	0.97778	44	94249	0.94231
5	96076	0.96491	20	96561	0.95918	45	94053	0.93805
6	96021	0.95918	21	96514	0.96154	46	93841	0.93522
7	95974	0.95455	22	96464	0.98182	47	93610	0.93704
8	95932	0.95000	23	96410	0.96610	48	93357	0.93243
9	95894	0.97297	24	96353	0.96774	49	93081	0.92945
10	95858	0.97222	25	96293	0.95455	50	92778	0.92479
11	95823	0.97297	26	96230	0.97101	51	92446	0.92424
12	95787	0.95000	27	96163	0.95890	52	92080	0.91781
13	95749	0.97727	28	96093	0.96104	53	91678	0.91546
14	95706	0.94118	29	96019	0.95062	54	91234	0.90892
15	95658	0.94915	30	95942	0.96471	55	90745	0.90620
			31	95860	0.95506	56	90204	0.89910
			32	95775	0.95745	57	89607	0.89175
			33	95685	0.94949	58	88948	0.88578
			34	95591	0.96154	59	88219	0.87786
			35	95491	0.95455	60	87414	0.86986
			36	95386	0.95726	61	86525	0.86065
			37	95274	0.95161	62	85543	0.85008
			38	95156	0.94737	63	84460	0.83826
			39	95030	0.95070	64	83268	0.82631

Table C.20. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding North Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.96781	15	95433	0.96000	40	92889	0.92754
1	95400	0.95200	16	95385	0.94444	41	92697	0.92793
2	95043	0.94924	17	95334	0.96491	42	92491	0.92405
3	94856	0.94697	18	95279	0.95082	43	92272	0.92157
4	94731	0.95918	19	95221	0.95385	44	92037	0.91971
5	94637	0.94872	20	95159	0.95652	45	91785	0.91554
6	94563	0.93846	21	95093	0.95890	46	91514	0.91563
7	94502	0.94737	22	95023	0.93590	47	91221	0.91066
8	94448	0.94231	23	94950	0.95122	48	90905	0.90716
9	94399	0.93878	24	94872	0.95349	49	90563	0.90268
10	94353	0.94000	25	94790	0.94505	50	90192	0.89955
11	94306	0.94340	26	94704	0.94792	51	89789	0.89592
12	94256	0.93103	27	94613	0.95050	52	89350	0.89199
13	94202	0.93846	28	94517	0.94340	53	88871	0.88475
14	94141	0.94521	29	94417	0.94643	54	88349	0.88136
15	94072	0.93976	30	94311	0.93220	55	87777	0.87552
			31	94201	0.94355	56	87151	0.86709
			32	94084	0.94615	57	86466	0.86140
			33	93961	0.94161	58	85714	0.85315
			34	93832	0.93793	59	84889	0.84422
			35	93696	0.93464	60	83984	0.83529
			36	93553	0.93827	61	82990	0.82389
			37	93401	0.93605	62	81900	0.81305
			38	93240	0.92896	63	80704	0.80037
			39	93070	0.92821	64	79393	0.78685

Table C.21. Estimates of Survivorship Probabilities for Children and Adult Females for TDHS-2003 Regarding East Region

Age of Child	Child L_x		Age of women	Women L_x		Age of women	Women L_x	
	l_x	L_x		l_x	L_x		l_x	L_x
0	100000	0.95731	15	91174	0.90909	40	86517	0.86350
1	93901	0.93582	16	91084	0.91589	41	86226	0.86119
2	93274	0.93123	17	90986	0.90598	42	85922	0.85714
3	92949	0.93043	18	90880	0.90551	43	85604	0.85422
4	92735	0.92308	19	90765	0.90511	44	85270	0.85024
5	92579	0.92424	20	90641	0.90476	45	84918	0.84966
6	92457	0.92661	21	90508	0.90446	46	84545	0.84402
7	92356	0.91398	22	90366	0.90419	47	84150	0.83832
8	92271	0.92683	23	90215	0.90395	48	83730	0.83426
9	92195	0.92105	24	90055	0.90323	49	83282	0.83074
10	92125	0.91781	25	89887	0.89286	50	82801	0.82560
11	92058	0.92000	26	89712	0.89706	51	82285	0.81979
12	91989	0.91250	27	89529	0.89671	52	81730	0.81386
13	91916	0.92045	28	89338	0.89140	53	81131	0.80774
14	91835	0.91837	29	89141	0.88646	54	80484	0.80229
15	91745	0.91892	30	88938	0.89030	55	79782	0.79332
			31	88727	0.88525	56	79022	0.78667
			32	88511	0.88492	57	78196	0.77730
			33	88288	0.88123	58	77299	0.76772
			34	88058	0.88104	59	76324	0.75768
			35	87821	0.87770	60	75264	0.74676
			36	87577	0.87153	61	74111	0.73548
			37	87326	0.87248	62	72857	0.72163
			38	87066	0.87097	63	71496	0.70724
			39	86796	0.86378	64	70020	0.69234

APPENDIX D

Table D.1. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for Urban Derived from TDHS-1993

Age of mother at birth of child	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	8.64	6.84	11.56	5.60	15.42	6.84	5.02	6.07	7.63	8.88	3.24	3.78	1.08	1.62	1.57
16	13.82	17.09	17.34	12.87	16.56	11.97	11.71	9.93	12.53	12.77	4.32	7.56	5.96	6.46	4.72
17	17.28	22.78	27.17	15.11	22.85	18.24	17.84	18.20	16.89	14.99	14.60	9.17	14.09	11.31	9.96
18	29.37	31.33	28.91	30.79	26.27	32.49	26.20	27.02	23.42	14.44	27.57	15.65	17.34	17.23	17.82
19	38.59	54.11	28.91	44.22	44.55	34.77	36.79	37.50	32.14	21.65	34.06	26.98	27.09	31.78	28.82
20	38.01	55.82	49.14	38.62	50.83	37.62	32.33	46.33	39.76	33.31	37.30	37.24	33.59	39.32	33.54
21	38.01	50.69	57.81	41.42	38.27	43.88	40.70	39.16	39.76	41.09	35.14	45.87	30.88	37.70	35.64
22	38.59	54.68	49.14	47.02	44.55	43.31	46.27	50.19	38.67	38.87	35.14	38.32	34.13	33.93	37.21
23	39.16	53.54	38.74	44.22	41.12	50.15	35.12	47.43	44.12	28.32	33.51	30.22	33.59	31.78	35.64
24	31.10	51.26	39.31	36.39	42.26	43.31	37.35	34.74	37.58	37.20	26.49	32.92	28.17	28.01	46.12
25	35.71	40.44	42.20	25.75	44.55	36.48	40.70	45.77	27.78	35.53	32.43	24.82	25.46	25.85	38.78
26	35.13	40.44	31.22	26.31	35.41	31.35	42.93	39.71	31.05	22.76	31.89	26.44	23.29	26.39	28.82
27	23.61	30.76	38.16	28.55	33.70	19.38	37.91	28.13	25.60	25.54	27.03	26.44	26.00	19.39	29.87
28	33.40	21.07	32.38	25.75	21.70	24.51	28.43	20.96	31.59	22.76	27.57	22.13	21.67	18.31	18.34
29	26.49	35.31	18.50	17.35	26.27	23.94	27.87	15.44	27.24	18.32	23.78	24.29	16.25	14.00	20.96
30	17.85	26.77	23.70	13.99	26.27	18.24	20.07	17.10	10.35	14.99	21.62	17.81	14.63	10.23	21.49
31	17.28	15.38	17.34	23.51	14.85	13.68	16.72	12.68	11.98	13.33	12.43	15.11	9.21	12.39	13.10
32	11.52	13.67	15.61	17.91	14.85	7.41	14.49	15.44	10.89	9.44	8.65	11.87	14.63	11.85	14.15
33	11.52	8.54	12.72	13.43	10.28	13.68	10.59	14.34	11.44	4.44	9.73	8.63	12.46	10.23	14.15
34	6.91	11.39	6.94	12.87	17.13	13.11	15.05	7.17	8.72	7.22	7.57	8.10	7.04	5.39	11.53
35	9.79	7.97	7.52	8.96	16.56	5.13	12.26	12.13	9.80	7.77	7.03	5.40	7.58	5.39	6.81
36	15.55	5.13	5.78	7.28	10.28	2.85	10.03	8.82	14.16	5.55	3.78	3.78	6.50	4.85	6.29
37	12.09	8.54	8.09	4.48	8.57	2.85	7.80	4.41	7.63	5.55	0.00	2.70	7.04	2.69	6.81
38	9.79	6.27	6.94	3.92	3.43	1.71	3.90	3.86	2.72	3.33	1.62	2.16	3.79	3.77	6.29
39	6.91	3.99	4.05	5.60	2.28	1.14	3.90	2.76	1.09	2.78	3.24	4.86	1.08	2.15	5.76
40	8.06	2.85	4.63	6.72	5.14	1.71	2.23	2.76	1.63	3.33	2.70	3.24	1.63	0.54	2.10
41	6.91	3.42	2.89	5.04	4.57	1.71	1.11	1.10	1.63	1.67	1.08	0.54	1.08	1.08	0.52
42	1.73	3.42	2.31	1.68	1.71	2.85	2.79	1.65	0.00	0.00	0.54	0.54	2.17	0.54	1.05
43	1.15	1.71	3.47	1.12	2.86	3.99	2.79	3.31	0.00	0.00	0.54	0.00	1.63	0.00	1.05
44	0.00	1.14	1.73	1.12	2.28	2.28	0.56	1.65	1.09	0.56	0.54	0.54	0.00	0.54	0.00
45	1.15	0.57	0.00	0.56	0.57	1.71	0.00	0.00	1.09	0.56	1.08	0.54	0.00	0.54	0.00
46	1.15	0.57	0.00	0.56	0.00	1.14	0.56	1.10	0.00	0.00	0.54	0.00	0.00	0.00	0.00
47	0.00	0.57	0.00	0.00	0.57	0.00	1.11	2.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	0.00	0.57	0.00	0.00	0.57	0.00	1.11	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.00	0.57	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.2. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for Rural Derived from TDHS-1993

Age of mother at birth of child	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	6.59	4.13	6.35	7.39	5.19	2.28	6.90	6.34	8.72	6.23	10.24	1.69	2.85	1.10	1.06
16	7.79	16.53	5.19	13.08	11.54	5.71	13.23	9.22	10.46	5.66	14.22	6.20	3.42	3.85	5.84
17	8.39	23.61	22.51	15.36	15.57	12.56	16.68	10.95	12.79	11.89	14.79	9.02	14.80	6.60	11.15
18	15.58	21.25	30.59	27.30	14.42	18.84	17.83	19.02	15.70	15.85	18.20	12.41	19.36	16.51	14.86
19	19.18	36.60	25.97	29.58	27.11	18.27	25.88	25.94	21.51	19.25	22.75	23.12	20.50	23.66	25.48
20	31.17	33.06	32.89	19.34	31.15	25.70	24.73	27.09	27.32	25.48	26.73	23.69	20.50	21.46	24.95
21	32.37	30.11	28.28	23.89	23.65	27.41	32.21	28.25	22.09	27.74	20.48	18.61	19.36	23.11	26.01
22	20.98	34.24	36.36	24.46	31.73	21.13	38.53	38.05	16.28	26.05	18.77	17.48	25.62	22.01	31.85
23	27.57	23.02	34.63	25.60	27.69	31.41	28.18	36.89	26.16	19.25	21.04	23.12	23.34	22.56	24.95
24	27.57	31.29	20.78	24.46	29.42	23.98	28.18	24.79	29.07	26.05	16.49	25.94	17.08	20.91	19.64
25	31.77	27.15	28.85	15.93	34.03	19.99	21.28	26.52	17.44	24.35	22.18	16.92	17.08	17.61	15.93
26	25.17	26.56	30.59	22.75	26.53	23.41	22.43	18.45	12.79	18.12	22.18	19.18	15.37	18.16	16.99
27	13.19	25.38	32.89	21.61	25.38	14.28	23.58	17.87	11.63	20.95	16.49	18.61	16.51	14.86	16.99
28	18.58	11.81	25.97	21.61	20.19	20.56	12.65	19.02	18.60	14.72	17.63	11.28	11.96	19.81	13.80
29	15.58	14.76	12.12	21.05	21.92	20.56	19.55	10.95	19.77	15.29	10.24	14.10	6.26	17.61	13.27
30	17.98	11.81	15.00	7.96	18.46	23.41	18.40	18.45	11.63	13.02	9.67	12.97	9.68	6.05	12.74
31	19.18	15.35	14.43	8.53	7.50	19.42	19.55	15.56	9.30	5.66	9.67	12.41	5.69	5.50	11.68
32	14.98	15.35	19.62	10.24	8.08	7.42	16.10	10.95	8.72	4.53	6.26	10.72	5.12	5.50	15.39
33	13.19	8.85	20.20	12.51	12.69	11.42	6.33	12.68	17.44	7.36	10.24	6.77	6.26	5.50	11.15
34	7.79	7.67	9.81	12.51	15.00	7.99	10.93	12.11	13.95	14.16	9.67	7.33	3.42	4.95	5.31
35	10.79	3.54	5.77	7.96	12.69	6.28	8.63	10.95	3.49	10.76	11.38	3.38	6.26	3.85	5.31
36	12.59	9.44	5.19	5.69	6.92	10.28	12.08	4.04	6.40	2.83	9.67	6.20	6.83	8.80	3.72
37	14.39	15.94	11.54	2.84	5.77	7.99	12.08	5.19	4.65	1.70	2.28	6.77	6.83	7.70	3.72
38	14.39	13.58	13.85	2.84	3.46	4.57	5.18	5.76	5.81	1.13	3.98	2.26	7.97	2.20	3.72
39	8.99	9.44	9.81	5.69	8.08	2.86	5.75	2.88	7.56	1.70	2.84	1.69	2.85	1.10	6.90
40	15.58	7.08	6.93	6.83	10.38	5.14	5.18	3.46	2.91	1.13	2.84	1.69	0.57	0.55	6.37
41	12.59	6.49	6.93	5.12	6.35	6.28	5.18	1.73	0.58	0.57	3.98	3.38	1.71	1.65	1.59
42	3.00	3.54	8.66	2.28	4.61	2.86	4.03	3.46	0.00	2.26	1.14	2.26	1.71	1.65	0.00
43	1.20	2.36	5.19	1.71	1.15	1.14	1.73	4.04	0.58	2.26	0.00	0.56	2.28	1.10	0.00
44	0.00	3.54	0.58	1.71	4.04	1.14	2.88	1.73	1.74	1.13	0.00	1.69	1.71	1.10	0.53
45	3.60	2.36	1.15	0.57	5.19	1.14	1.73	1.15	3.49	0.57	2.84	1.13	0.00	0.00	0.53
46	3.60	0.59	1.15	1.14	1.15	0.00	0.00	0.00	2.33	0.00	2.84	0.56	0.00	0.00	0.53
47	0.00	0.00	0.00	1.14	2.31	0.00	0.58	0.58	0.58	0.00	0.00	0.56	0.00	0.55	0.53
48	0.00	0.59	0.00	0.00	2.88	1.14	0.58	0.58	1.16	1.13	0.57	0.00	0.00	0.55	0.00
49	0.60	0.59	0.00	0.00	0.58	1.14	0.00	0.00	0.58	1.13	0.57	0.00	0.00	0.00	0.00

Table D.3. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for West Derived from TDHS-1993

Age of mother at birth of child	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	4.58	3.88	1.16	0.56	4.85	3.38	3.35	4.32	1.08	4.42	0.00	0.53	1.07	0.53	0.52
16	6.87	9.98	4.65	6.17	5.39	5.07	5.02	6.48	3.24	3.31	1.08	5.31	2.68	1.59	2.60
17	5.73	12.76	11.05	9.53	8.62	9.02	7.25	4.86	8.11	4.97	8.10	5.31	5.35	2.13	5.73
18	10.31	17.20	13.38	18.50	10.78	18.03	14.50	11.35	9.73	7.73	15.12	4.25	6.96	6.38	8.86
19	17.76	28.85	15.71	25.78	20.48	15.78	22.30	21.08	12.97	6.62	19.44	12.22	11.78	14.34	9.90
20	25.78	29.40	23.85	18.50	26.94	16.34	15.05	22.70	20.00	13.80	17.82	18.07	16.60	17.00	14.06
21	25.78	27.18	29.08	19.06	19.40	19.72	16.17	20.53	19.46	23.73	12.42	17.54	14.46	17.53	20.84
22	20.62	32.73	27.34	26.34	22.63	14.09	20.63	25.40	20.00	22.63	10.80	13.82	14.46	17.53	20.32
23	20.05	27.18	19.20	26.90	22.63	19.72	15.61	22.16	22.70	12.14	11.88	14.88	18.21	14.34	17.19
24	16.04	22.19	15.71	24.66	22.09	21.98	20.63	12.43	17.84	13.80	8.10	17.01	17.67	12.22	19.79
25	17.76	18.31	18.61	19.06	28.02	23.67	22.86	17.29	12.43	14.35	12.96	12.75	16.06	12.75	16.15
26	18.33	15.53	15.71	14.01	19.94	23.11	21.75	18.37	12.43	6.07	19.98	11.69	13.39	13.28	15.11
27	13.17	13.87	12.80	11.21	15.09	10.71	19.51	12.97	7.57	9.38	18.90	10.63	10.71	9.03	15.63
28	16.61	10.54	12.22	7.29	9.70	6.20	15.61	9.73	11.89	14.35	13.50	9.03	7.50	7.44	10.42
29	13.17	15.53	11.63	6.17	7.01	9.58	17.84	7.03	11.35	13.25	7.56	10.10	5.35	5.84	11.98
30	5.73	11.65	10.47	6.73	10.24	9.58	10.04	6.48	2.70	7.17	8.64	7.44	5.35	4.78	8.86
31	6.87	6.66	6.40	7.85	7.54	5.07	4.46	5.40	4.86	4.97	5.94	6.38	4.28	4.25	4.17
32	6.87	6.66	7.56	7.29	5.93	4.51	6.13	4.86	3.78	3.31	4.86	6.91	4.28	3.19	7.29
33	4.01	3.33	7.56	8.41	4.85	6.20	5.02	3.78	4.86	1.10	3.78	3.19	2.68	5.31	7.29
34	1.72	3.88	5.82	8.97	7.54	5.07	6.13	3.24	4.32	2.76	1.62	2.13	2.68	3.19	4.17
35	2.86	3.33	4.65	5.04	5.93	2.82	5.58	3.24	4.32	2.76	1.08	2.66	2.68	2.66	2.08
36	3.44	0.55	2.33	1.12	4.85	2.82	2.79	1.62	6.49	2.76	0.54	1.59	1.61	2.66	1.04
37	1.72	2.77	3.49	0.56	4.85	2.82	1.67	0.54	2.70	2.21	0.00	1.59	2.14	1.06	2.08
38	1.72	2.77	2.33	1.12	1.08	1.13	1.67	0.00	0.00	0.00	1.08	1.06	1.07	0.53	1.56
39	2.29	0.55	1.16	1.12	0.54	1.13	1.67	0.00	0.00	0.55	2.16	1.06	0.00	0.00	0.52
40	2.29	0.55	3.49	0.56	1.62	0.56	1.12	0.00	1.08	0.55	1.08	0.53	0.00	0.00	0.00
41	1.15	1.11	2.33	0.00	2.16	0.00	0.56	0.00	1.08	0.00	0.00	0.53	0.54	0.00	0.00
42	0.00	0.55	0.00	0.00	1.62	0.00	0.56	0.00	0.00	0.00	0.00	0.53	0.54	0.00	0.00
43	0.00	0.00	0.00	0.00	0.54	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
45	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
46	1.15	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	0.00	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.00	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.4. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for South Derived from TDHS-1993

Age of mother at birth of child	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	1.14	0.57	2.32	2.26	2.88	1.13	1.74	1.66	2.77	1.67	1.63	0.55	0.00	0.55	0.00
16	2.28	5.15	2.32	3.95	4.61	3.95	4.64	1.10	4.98	2.78	2.18	1.10	1.13	2.18	2.13
17	4.57	6.29	5.79	3.39	6.34	5.64	5.80	4.42	5.54	5.01	2.72	1.65	3.39	2.73	3.19
18	5.14	4.57	9.84	7.90	6.92	4.52	5.22	9.93	6.09	7.79	7.08	3.85	5.09	3.82	3.72
19	5.71	9.15	12.16	11.85	10.96	5.64	9.28	10.49	8.86	10.58	10.34	7.70	6.79	7.10	6.39
20	8.56	11.43	16.79	8.46	12.11	9.59	10.44	8.83	8.86	10.58	9.26	9.90	9.05	9.28	7.45
21	8.56	13.15	13.31	7.90	9.23	10.72	9.28	9.38	6.64	7.79	9.26	9.90	13.58	9.83	7.98
22	10.27	12.01	11.58	11.28	8.07	12.98	12.18	11.59	6.09	7.24	10.89	10.45	12.45	8.74	8.51
23	13.13	12.58	9.84	12.98	8.65	14.11	10.44	13.25	7.75	9.46	9.80	7.15	7.92	8.19	10.11
24	10.27	19.44	8.68	7.90	11.53	10.16	9.28	11.59	9.41	10.58	8.71	4.40	8.49	7.65	13.83
25	9.13	18.29	11.58	2.82	9.80	6.77	9.86	9.93	8.30	10.02	8.71	3.85	6.22	6.01	11.71
26	8.56	13.72	9.26	6.21	9.23	5.64	9.28	8.83	6.64	10.02	5.99	8.80	3.39	5.46	8.51
27	6.28	8.58	9.84	9.03	14.42	5.08	9.28	6.62	6.09	11.69	5.44	10.45	6.22	5.46	6.92
28	10.27	7.43	7.53	8.46	10.96	9.03	6.38	4.97	7.20	8.35	7.08	5.50	6.22	8.74	2.13
29	8.56	10.86	4.63	6.77	7.50	8.47	8.12	4.42	4.98	6.12	7.08	5.50	2.83	7.10	2.13
30	5.71	8.00	8.10	5.08	6.92	6.21	6.38	6.07	3.32	5.57	3.81	5.50	2.83	2.18	5.32
31	6.28	5.15	8.10	8.46	3.46	5.08	6.38	4.97	4.98	2.78	2.18	5.50	2.26	3.82	6.39
32	5.71	4.57	5.21	6.77	4.04	1.69	5.80	3.86	3.88	2.23	2.18	3.85	2.26	3.82	5.85
33	4.57	4.00	4.05	2.82	4.61	5.64	1.74	3.86	2.21	1.11	4.36	3.30	1.70	2.18	3.72
34	2.85	5.15	2.32	2.82	2.88	4.52	4.64	2.76	1.66	1.11	4.90	4.95	1.70	1.64	2.13
35	4.57	3.43	1.74	2.82	4.04	1.13	5.22	4.42	1.66	1.67	2.72	3.30	2.83	0.55	1.06
36	5.71	2.29	1.74	3.39	4.04	2.26	4.06	2.76	3.32	0.56	1.63	1.65	2.26	1.09	1.60
37	4.57	4.57	1.74	2.82	1.73	1.69	2.90	1.10	3.32	0.56	0.54	1.10	1.70	2.18	1.60
38	3.42	4.00	1.74	2.26	1.73	0.56	1.74	2.21	2.21	1.11	0.54	1.10	1.13	2.18	1.06
39	1.71	2.29	1.74	2.82	2.31	0.00	1.16	2.21	1.66	1.11	0.54	2.20	0.57	1.09	1.60
40	2.85	1.72	0.58	2.26	2.31	1.13	1.16	2.21	1.11	1.11	1.09	1.10	0.57	0.00	1.06
41	3.42	1.72	1.16	0.56	1.15	1.69	2.32	1.10	0.55	0.56	1.63	0.55	0.57	1.09	0.53
42	1.71	1.72	2.89	0.00	1.15	0.56	1.74	1.10	0.00	0.00	1.09	0.55	0.00	1.09	0.53
43	1.14	1.14	2.89	0.56	1.15	0.56	0.58	1.66	0.00	0.56	0.54	0.00	0.00	0.00	0.53
44	0.00	0.57	1.16	0.56	0.58	0.56	1.16	0.55	0.00	0.56	0.00	0.00	0.00	0.00	0.00
45	0.57	0.57	0.00	0.00	0.58	0.00	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	0.57	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53
47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.53
48	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.55	0.00
49	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00

Table D.5. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for Central Derived from TDHS-1993

Age of mother at birth of child	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	4.26	2.87	3.44	3.39	5.93	2.32	3.93	0.57	1.13	2.81	0.00	0.00	0.56	1.10	0.53
16	4.87	6.31	6.31	5.65	9.48	6.37	7.29	4.59	3.97	6.17	1.12	1.68	1.69	4.38	1.58
17	6.08	10.33	15.50	9.04	10.08	6.95	8.98	11.49	7.93	10.67	6.19	4.47	4.52	6.02	4.21
18	14.60	12.63	15.50	13.56	12.45	9.26	11.22	13.21	10.77	9.54	9.00	7.82	6.78	9.86	7.37
19	17.03	21.81	10.33	13.56	20.15	12.74	12.34	13.21	16.44	10.10	14.06	13.40	11.86	18.07	10.53
20	10.34	21.23	18.94	13.00	17.78	14.47	14.03	17.81	18.14	17.96	17.43	17.31	13.55	19.72	10.00
21	12.77	14.35	22.39	18.09	14.23	15.05	21.32	18.95	13.60	16.28	14.06	16.19	10.16	18.07	14.22
22	11.56	16.64	17.79	16.96	21.34	15.63	21.88	24.12	13.04	11.79	14.62	12.28	14.68	15.33	20.53
23	12.77	15.49	14.92	10.74	17.78	20.26	14.03	20.10	14.74	14.59	12.93	13.96	17.51	12.60	14.74
24	15.21	16.07	15.50	10.17	14.23	13.32	12.34	10.34	14.17	19.65	9.00	16.19	11.29	11.50	12.64
25	13.99	13.20	19.52	6.78	11.85	6.37	12.34	15.51	10.77	14.59	10.68	10.61	5.08	9.31	11.06
26	12.17	10.33	17.22	11.87	10.08	6.95	12.90	12.64	12.47	7.30	10.12	8.38	5.65	7.67	6.84
27	9.12	9.76	16.07	17.52	10.67	6.37	12.34	7.47	10.77	8.42	8.43	7.82	6.78	6.57	8.95
28	10.95	7.46	13.20	12.43	7.11	15.05	6.73	5.17	8.50	6.74	8.43	7.82	5.08	7.67	7.90
29	10.34	12.63	8.61	6.78	7.71	13.89	8.42	4.59	8.50	5.61	6.19	10.61	5.08	4.93	4.74
30	9.73	10.90	8.04	2.83	5.33	5.21	12.34	8.04	4.53	4.49	4.50	8.38	4.52	1.10	5.79
31	8.52	8.61	6.31	4.52	3.56	4.63	7.29	4.59	4.53	2.25	1.69	3.35	3.95	4.93	4.74
32	6.08	6.89	7.46	6.22	3.56	2.89	3.93	3.45	7.37	2.81	1.69	1.12	6.21	6.02	3.69
33	6.69	4.59	8.61	6.22	6.52	3.47	4.49	6.32	5.10	3.93	3.94	2.79	4.52	2.74	5.79
34	4.26	5.74	6.31	5.09	7.11	5.21	5.05	4.02	2.27	3.93	4.50	2.79	1.13	2.19	3.69
35	3.65	2.87	3.44	3.96	4.15	3.47	3.37	1.15	2.83	2.25	3.37	1.12	2.82	2.19	1.58
36	4.26	4.02	1.15	2.26	3.56	2.89	3.37	1.15	2.27	1.12	1.69	0.56	2.82	3.29	1.58
37	4.26	3.44	1.15	0.57	2.37	2.32	3.93	1.72	1.13	0.56	1.12	1.12	1.13	3.29	2.11
38	5.47	3.44	0.57	0.00	1.19	0.58	2.81	1.72	1.13	0.56	1.12	2.23	0.56	1.64	3.16
39	3.04	4.59	0.57	1.13	1.78	0.00	3.37	1.72	1.13	0.56	0.56	1.68	0.00	1.10	2.63
40	3.65	1.72	2.30	2.26	1.78	0.00	2.24	1.72	0.57	1.12	0.00	1.12	0.00	0.55	1.58
41	3.65	1.15	1.72	2.26	1.19	0.58	0.56	0.57	0.57	1.12	0.00	1.12	0.00	1.10	0.53
42	1.22	1.72	0.57	1.13	0.59	1.74	0.56	0.57	0.00	0.56	0.00	0.56	0.56	1.10	0.00
43	0.61	1.72	0.57	0.57	0.00	1.16	1.12	0.57	0.00	0.00	0.00	0.00	1.13	0.55	0.00
44	0.00	2.30	0.00	1.13	2.37	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.56	0.55	0.00
45	0.61	1.15	0.00	0.57	2.96	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
46	0.61	0.57	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
47	0.00	0.57	0.00	0.00	0.59	0.00	0.56	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00	0.59	0.00	0.56	0.57	0.57	0.00	0.00	0.00	0.00	0.00	0.00
49	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00

Table D.6. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for North Derived from TDHS-1993

Age of mother at birth of child	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	1.79	1.77	0.59	1.73	1.72	0.00	0.00	0.00	1.15	0.57	1.12	1.14	0.55	0.00	0.53
16	1.79	2.95	1.76	2.89	2.30	0.58	1.12	0.00	1.15	1.14	2.25	1.70	1.09	1.11	1.06
17	3.57	4.72	5.86	3.46	4.02	2.91	2.80	0.55	0.58	1.14	3.94	1.70	1.64	1.66	2.12
18	5.96	7.67	7.03	5.77	4.60	5.24	4.47	3.28	2.30	1.14	5.06	2.27	2.73	2.76	3.71
19	5.96	11.21	7.03	8.08	6.32	6.99	6.71	6.56	4.61	2.86	3.94	3.97	3.83	4.42	6.89
20	5.96	10.03	8.79	8.08	6.90	8.16	6.15	6.56	6.91	4.58	4.50	3.41	3.83	4.98	8.48
21	5.96	6.49	7.03	6.35	6.90	6.99	7.27	5.47	7.48	6.87	5.62	5.11	3.83	5.53	7.42
22	7.74	7.67	7.62	5.19	7.47	7.58	8.95	5.47	4.61	7.44	6.18	6.24	6.01	4.42	7.42
23	9.53	10.03	8.79	5.19	5.75	7.58	7.27	5.47	4.61	4.01	8.43	6.24	6.56	5.53	5.83
24	6.55	8.26	7.03	5.77	6.32	5.83	5.59	7.11	5.76	5.72	7.87	7.38	4.37	4.98	5.83
25	5.36	5.31	6.45	6.35	7.47	5.24	3.35	7.11	5.76	5.72	7.31	5.68	5.47	4.98	6.36
26	4.17	5.31	6.45	5.77	8.62	4.66	3.91	4.38	5.18	4.01	5.62	5.11	5.47	6.08	7.42
27	1.79	4.72	7.62	4.04	8.05	5.24	5.59	3.83	2.88	3.43	3.94	3.97	3.83	3.87	6.89
28	2.98	4.13	5.27	3.46	5.75	7.58	5.03	4.38	1.73	2.29	3.37	2.84	2.73	4.42	4.24
29	2.38	4.13	2.34	2.89	6.32	5.83	4.47	4.38	3.45	2.29	2.81	2.84	1.64	3.87	3.71
30	1.79	1.77	4.69	1.15	4.02	2.33	2.80	3.28	3.45	2.86	3.37	1.70	1.09	1.66	2.12
31	1.79	1.77	4.69	1.73	1.72	2.33	2.24	2.19	2.30	2.86	2.25	1.70	0.55	1.66	1.59
32	1.19	2.36	2.93	1.15	2.87	1.75	1.68	3.28	2.30	1.14	1.12	1.70	2.19	1.66	1.59
33	1.19	1.18	1.76	0.58	2.30	1.75	0.00	2.19	2.30	2.29	1.12	1.70	2.73	1.66	1.06
34	1.79	1.18	1.76	0.58	1.72	1.17	1.12	1.09	1.15	2.29	1.69	1.70	1.64	1.66	1.06
35	1.79	1.18	1.76	0.58	1.72	0.58	2.24	1.64	0.58	1.14	2.25	1.14	1.09	1.11	1.06
36	1.19	1.18	1.17	1.73	1.15	1.75	1.68	0.55	1.73	0.57	1.69	0.57	1.64	1.66	1.06
37	2.38	1.77	0.59	1.15	1.15	1.17	0.56	0.00	1.73	0.57	1.12	0.00	1.64	1.11	1.06
38	2.38	1.77	0.59	0.00	1.15	0.00	0.56	0.00	0.58	1.14	1.69	0.00	0.55	0.55	1.06
39	1.79	0.59	0.59	0.00	1.15	0.58	0.56	0.00	0.00	1.14	1.12	0.00	0.00	0.55	1.06
40	1.79	0.59	0.59	0.58	0.57	0.58	0.00	0.55	0.00	0.57	1.12	0.57	0.55	0.00	0.53
41	0.60	0.59	1.17	0.58	0.57	0.00	0.00	0.55	0.00	0.00	1.12	0.57	1.09	0.00	0.00
42	0.00	0.00	1.17	0.58	1.15	0.58	0.00	0.00	0.00	0.57	0.00	0.00	0.55	0.00	0.00
43	0.00	0.59	1.17	0.58	0.57	0.58	0.56	0.00	0.00	0.57	0.00	0.57	0.00	0.55	0.00
44	0.00	0.59	0.59	0.00	0.00	0.58	0.56	0.00	0.00	0.57	0.00	0.57	0.00	0.55	0.53
45	0.60	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.53
46	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.7. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for East Derived from TDHS-1993

Age of mother at birth of child	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	3.55	0.60	9.83	4.56	5.23	2.84	3.42	5.71	9.64	6.23	11.24	2.81	1.67	0.55	1.06
16	5.92	7.76	6.94	6.27	5.81	2.27	5.70	6.28	8.50	5.67	11.80	3.93	2.78	1.09	3.71
17	5.92	10.74	11.57	4.56	8.72	6.24	7.98	7.99	6.80	5.10	7.87	5.05	13.36	4.37	5.83
18	9.48	9.55	14.46	12.53	5.81	14.19	7.98	8.56	10.20	3.40	9.55	8.98	13.92	10.37	8.47
19	11.25	19.69	10.41	15.38	12.79	11.35	12.55	11.42	10.77	10.77	8.99	12.35	12.81	12.01	20.13
20	17.77	17.30	13.30	11.39	16.28	14.76	11.98	17.70	13.04	12.47	14.61	11.79	11.69	9.83	18.01
21	16.58	19.69	13.88	15.38	11.04	18.16	18.82	12.56	14.17	13.60	14.61	16.29	9.47	9.28	11.12
22	8.88	19.09	21.40	11.96	16.86	13.62	21.67	20.55	10.20	14.73	12.93	13.48	12.81	9.28	12.18
23	11.25	10.14	20.82	13.67	14.53	20.43	15.97	22.84	19.84	7.37	12.36	10.67	6.68	13.65	12.18
24	10.07	15.51	14.46	11.96	18.02	15.89	16.54	17.13	18.70	14.73	8.99	14.04	3.90	12.01	13.77
25	21.32	11.93	16.77	5.70	21.51	14.19	11.98	21.69	7.37	15.87	14.05	9.55	10.02	9.28	10.59
26	17.18	22.67	13.88	10.25	14.53	14.19	16.54	13.13	7.37	13.60	12.36	12.35	10.02	10.92	8.47
27	5.33	19.69	24.29	7.41	10.46	6.81	14.26	13.70	9.64	13.60	7.31	12.35	13.92	8.74	8.47
28	10.66	2.39	19.66	15.38	7.56	7.95	6.84	14.84	20.97	5.67	12.93	8.42	11.69	9.83	7.42
29	7.70	5.97	3.47	16.52	19.76	6.81	8.56	5.71	18.70	6.23	10.12	9.55	7.80	9.28	11.65
30	12.44	5.97	6.94	6.27	18.02	17.60	6.27	10.85	7.37	7.93	10.12	7.30	10.58	6.01	11.65
31	12.44	7.76	6.36	9.11	5.81	15.33	15.40	10.85	5.10	6.23	9.55	10.11	3.90	3.28	7.42
32	5.92	7.16	12.14	6.84	6.39	3.97	13.12	11.42	2.27	4.53	4.50	9.55	4.45	2.73	10.59
33	7.11	3.58	10.99	7.98	4.65	7.95	5.13	10.85	13.60	3.40	5.06	4.49	6.68	3.82	6.89
34	3.55	2.39	1.73	7.98	12.21	5.11	7.98	7.99	13.04	11.33	3.37	3.37	3.34	1.64	5.83
35	7.11	0.60	2.31	3.99	12.79	3.41	4.56	11.99	3.40	10.77	8.43	0.56	3.90	2.73	6.36
36	13.03	6.56	4.05	3.42	2.91	3.41	10.84	6.28	6.23	3.40	7.87	5.62	3.90	4.37	4.24
37	13.03	11.34	12.14	1.14	3.49	2.84	10.84	6.28	3.40	3.40	0.00	5.62	6.68	2.18	3.18
38	9.48	7.76	15.61	2.85	2.33	3.97	2.28	5.71	3.97	1.70	1.12	0.00	8.35	1.09	3.18
39	5.33	5.37	9.25	5.70	5.23	2.27	2.85	1.71	5.10	1.13	1.69	1.12	3.34	0.55	6.89
40	11.85	5.37	4.05	7.41	9.30	4.54	2.85	2.28	1.70	1.13	2.25	1.12	1.67	0.55	5.30
41	10.07	5.37	3.47	6.84	5.81	5.68	2.85	1.14	0.00	0.57	2.25	1.12	1.11	0.55	1.06
42	1.78	2.98	6.36	2.28	1.74	2.84	3.99	3.43	0.00	1.13	0.56	1.12	2.23	0.00	0.53
43	0.59	0.60	3.47	1.14	1.74	2.27	2.28	5.14	0.57	1.13	0.00	0.00	2.78	0.00	0.53
44	0.00	1.19	0.00	1.14	3.49	1.70	1.14	2.85	2.83	0.57	0.00	1.68	1.11	0.55	0.00
45	1.78	1.19	1.16	0.57	2.33	2.27	0.57	1.14	4.53	0.57	2.81	1.68	0.00	0.55	0.00
46	1.78	0.00	1.16	1.71	0.58	1.14	0.57	0.00	2.27	0.00	2.81	0.56	0.00	0.00	0.00
47	0.00	0.00	0.00	1.14	2.33	0.00	0.57	1.71	0.00	0.00	0.00	0.56	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00	2.33	1.14	0.57	1.71	0.00	1.13	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	1.14	0.57	0.00	0.00	1.13	0.00	0.00	0.00	0.00	0.00

Table D.8. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for Urban Derived from TDHS-1998

Age of mother at birth of child	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	5.08	6.58	3.41	3.36	4.52	3.24	3.82	2.18	4.41	3.19	2.70	1.59	2.12	2.12	1.04
16	7.91	10.96	9.66	10.07	10.75	9.71	10.92	8.19	6.06	8.52	8.10	5.32	4.77	9.01	2.59
17	16.95	13.70	17.62	18.46	24.88	15.10	21.30	17.47	18.18	14.91	14.58	8.51	12.19	14.31	11.40
18	27.68	17.54	16.49	21.82	26.02	19.41	23.49	22.39	25.89	18.10	19.44	15.42	22.26	18.55	18.14
19	25.99	29.05	23.88	25.73	27.71	20.49	31.68	21.30	28.09	24.49	28.08	29.77	29.15	26.49	24.88
20	24.86	32.34	38.66	31.88	29.41	25.35	44.79	25.66	35.80	31.42	35.64	38.81	34.98	25.96	31.10
21	26.55	33.99	34.11	30.77	39.59	30.20	44.79	36.59	38.56	33.55	38.88	39.87	38.69	23.31	29.03
22	29.38	40.57	29.56	31.32	50.90	25.89	39.33	43.68	35.80	35.14	36.18	39.87	32.33	34.44	31.62
23	37.29	37.28	36.95	41.39	39.02	33.98	35.50	34.40	40.21	31.42	36.72	38.28	29.68	33.38	38.36
24	31.64	42.76	36.38	39.72	30.54	39.37	37.69	23.48	40.76	27.16	34.02	36.15	31.80	32.85	36.28
25	28.81	39.47	33.54	30.77	31.11	28.04	33.32	32.22	34.70	19.70	31.86	34.02	29.68	39.21	36.28
26	28.25	25.76	30.13	29.65	28.84	18.88	34.96	29.49	34.70	22.36	29.70	32.43	32.33	34.44	31.10
27	21.47	20.83	31.84	22.37	23.19	22.11	33.32	18.57	32.50	30.35	22.68	23.39	31.80	22.78	22.81
28	19.21	16.99	27.86	18.46	15.84	25.35	25.13	20.75	29.74	21.83	23.22	14.35	19.61	21.72	26.95
29	19.21	20.83	20.47	19.02	12.44	18.34	26.22	24.03	26.99	18.64	19.98	19.14	13.25	23.31	26.43
30	24.86	17.54	21.60	10.07	15.84	15.10	21.30	21.84	23.13	16.51	15.66	18.07	18.02	16.96	20.21
31	22.60	15.35	19.90	12.31	15.84	13.48	13.66	13.65	17.63	14.91	14.58	13.82	18.55	19.07	21.77
32	12.43	13.70	21.60	14.54	12.44	10.79	9.29	13.11	15.42	15.44	12.42	15.42	13.78	20.13	25.40
33	11.30	8.22	15.35	10.63	9.05	9.71	6.55	13.65	16.52	7.45	11.34	12.76	10.07	16.43	18.66
34	10.17	10.42	7.39	10.07	8.48	7.55	8.19	8.74	12.67	4.79	10.26	9.57	7.42	12.19	12.96
35	6.78	8.22	7.96	7.83	6.22	10.79	12.02	6.55	7.16	5.32	7.02	4.78	5.83	9.01	11.92
36	11.30	4.39	8.53	5.03	5.09	11.33	12.56	3.82	4.96	6.92	3.24	2.66	4.77	5.83	10.37
37	8.47	5.48	6.82	3.36	6.22	5.39	8.19	6.55	4.41	10.65	1.08	3.19	3.18	3.18	6.74
38	2.26	4.93	3.98	2.24	3.39	2.16	3.28	7.64	4.41	6.39	3.24	1.59	2.65	2.12	2.59
39	1.69	4.39	1.14	1.68	3.96	0.54	2.73	3.28	4.41	3.73	4.32	1.59	1.59	2.12	3.11
40	2.26	4.39	2.84	1.12	5.09	0.54	2.73	1.64	2.75	3.73	2.16	1.59	0.53	2.12	3.63
41	3.95	3.29	3.41	1.12	2.26	1.08	2.73	1.09	0.55	1.06	1.62	2.13	1.06	3.18	1.55
42	2.26	3.29	1.71	0.56	1.13	1.08	3.28	1.09	0.00	0.53	1.62	1.59	1.06	2.12	0.52
43	1.13	2.74	2.27	1.68	0.57	2.16	1.64	1.64	0.00	0.00	1.08	1.06	0.53	1.06	0.52
44	2.82	1.10	1.71	1.68	2.26	2.16	0.00	1.09	0.00	0.00	0.54	0.53	0.00	1.06	1.04
45	2.26	0.00	0.57	0.00	2.83	1.08	0.00	0.55	0.55	0.53	0.54	0.00	0.00	0.53	0.52
46	1.13	0.55	0.00	0.00	0.57	1.62	0.00	0.55	1.10	0.53	1.08	0.00	0.00	0.00	0.52
47	0.56	1.10	0.57	0.00	0.00	1.62	0.00	0.00	0.55	0.53	0.54	0.00	0.00	0.00	0.52
48	0.00	0.55	1.14	0.56	0.00	0.54	0.00	0.00	0.55	1.06	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.57	1.12	0.00	0.00	0.00	0.00	1.10	0.53	0.00	0.00	0.00	0.00	0.00

Table D.9. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for Rural Derived from TDHS-1998

Age of mother at birth of child	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	5.32	2.39	4.83	3.41	2.92	7.31	4.56	1.11	3.86	3.83	1.12	2.22	2.19	2.14	2.66
16	7.68	4.18	4.83	6.82	3.50	8.43	9.12	4.97	7.72	7.11	4.50	3.33	6.03	6.41	5.85
17	8.27	4.18	7.85	7.96	6.41	6.18	11.97	12.16	7.72	10.94	7.31	7.78	11.50	8.55	10.11
18	12.41	6.57	12.07	15.35	9.33	11.24	11.97	17.68	20.41	12.58	9.56	11.11	13.15	16.04	13.83
19	12.41	12.54	13.28	13.65	19.24	16.30	13.68	20.44	25.93	14.22	20.25	14.44	13.15	20.31	19.15
20	18.91	22.09	15.70	9.67	18.66	15.74	14.82	22.65	16.55	19.14	27.56	16.11	15.34	22.45	18.62
21	22.45	28.66	22.94	19.34	21.58	10.68	19.38	19.89	18.76	21.32	28.12	18.88	17.53	21.91	23.40
22	20.68	23.88	28.37	29.00	26.82	16.86	13.68	22.10	21.52	20.23	23.06	18.88	20.82	18.17	26.60
23	20.68	18.51	21.13	26.73	20.99	21.36	13.11	16.58	21.52	15.31	15.19	16.66	22.46	25.66	21.81
24	21.27	20.90	13.88	18.77	21.58	20.24	17.67	13.26	19.86	14.76	14.62	17.22	17.53	27.26	24.47
25	28.36	22.69	12.68	17.63	15.16	22.48	18.24	17.13	13.79	14.22	16.87	18.33	16.43	19.78	21.81
26	21.86	22.09	13.88	18.20	12.83	16.86	19.95	13.26	12.14	10.39	12.94	16.66	15.34	18.17	15.43
27	15.36	20.90	22.34	18.77	20.41	13.49	19.95	16.58	13.24	16.95	11.81	9.44	14.79	13.90	15.96
28	17.13	16.72	19.92	19.34	18.66	14.05	14.82	15.47	14.90	18.59	15.19	10.00	11.50	11.22	14.36
29	11.82	17.32	11.47	15.92	20.41	9.56	12.54	9.39	14.90	15.31	14.06	12.22	5.48	10.16	11.70
30	14.77	15.52	11.47	8.53	15.16	10.12	14.25	9.39	11.03	12.58	13.50	11.11	9.31	6.95	9.04
31	11.82	13.14	10.26	7.39	5.25	12.37	15.39	7.18	10.48	8.75	10.12	10.00	9.86	8.02	6.91
32	4.73	9.55	9.06	10.24	7.58	5.62	11.97	8.84	9.93	8.20	3.94	8.89	6.03	6.41	7.98
33	10.04	5.37	10.26	11.37	7.00	3.37	6.27	9.39	12.14	8.75	5.06	10.00	3.29	6.41	6.38
34	8.86	7.17	10.26	5.69	7.00	5.62	5.13	4.97	9.93	10.39	6.75	7.78	1.64	9.62	7.98
35	9.45	7.17	9.06	1.71	5.25	4.50	3.99	6.63	4.41	6.01	5.62	4.44	3.29	7.48	8.51
36	12.41	11.34	6.04	4.55	1.75	2.81	5.13	5.53	7.72	0.55	5.06	5.55	4.93	5.35	6.91
37	9.45	12.54	6.64	4.55	4.67	2.81	2.85	4.42	7.17	1.09	2.25	5.00	3.29	3.74	6.38
38	7.68	4.78	7.24	7.96	6.41	3.93	0.57	3.32	4.97	2.73	3.37	3.33	1.64	3.21	3.19
39	3.54	1.19	5.43	7.39	7.58	2.81	3.42	0.55	3.31	4.37	2.81	2.22	1.64	4.81	0.00
40	5.32	0.00	4.23	1.71	8.16	3.37	3.42	3.87	1.66	2.73	1.69	2.22	2.74	1.60	1.06
41	7.68	6.57	1.21	1.14	4.08	3.93	3.99	4.42	3.86	0.55	1.69	2.22	1.10	0.53	1.60
42	4.14	7.76	3.62	1.14	1.75	2.81	5.13	1.66	3.86	0.55	0.56	0.56	0.55	0.53	1.06
43	1.77	1.79	4.83	1.71	0.00	2.81	3.99	2.21	2.76	0.55	1.12	0.00	0.55	0.53	1.06
44	0.59	2.39	2.41	1.71	1.17	1.12	2.28	1.11	2.76	1.09	1.12	1.11	0.00	0.53	1.06
45	1.18	1.79	2.41	1.14	1.75	2.25	0.00	0.00	1.66	1.09	0.00	1.11	0.00	0.53	0.53
46	1.18	0.00	1.81	0.57	0.58	1.69	0.57	0.00	0.55	0.00	0.00	0.00	0.00	0.53	0.00
47	0.00	0.00	0.00	0.00	0.58	0.00	1.71	2.21	0.55	0.00	0.56	0.56	1.10	0.00	0.00
48	0.59	0.00	0.00	0.57	0.58	0.00	1.14	2.21	1.10	0.00	0.56	0.56	1.10	0.53	0.00
49	0.59	0.00	0.00	0.57	1.17	0.00	0.00	0.55	0.55	1.64	0.00	0.00	0.00	0.53	0.00

Table D.10. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for West Derived from TDHS-1998

Age of mother at birth of child	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	2.87	3.98	1.14	1.13	1.12	0.00	1.66	0.00	0.00	0.53	0.00	0.00	1.08	1.60	0.00
16	3.45	5.11	5.12	7.36	4.48	2.77	3.32	2.72	2.78	2.63	3.80	1.06	3.78	5.32	0.53
17	10.92	6.25	7.97	13.58	11.19	6.64	7.74	5.44	8.91	5.78	7.05	3.17	7.55	7.45	3.68
18	17.81	11.93	7.40	13.58	11.75	9.96	10.51	4.36	11.70	5.78	7.05	8.45	12.40	8.51	7.88
19	14.37	18.17	15.37	15.84	15.10	10.51	17.70	8.17	12.81	6.83	12.47	14.26	13.48	14.37	13.13
20	8.62	21.01	19.92	22.07	16.78	10.51	25.45	13.07	17.82	10.50	18.44	16.37	15.64	12.77	16.80
21	10.34	21.01	14.23	18.11	25.17	14.94	22.13	16.88	21.16	16.80	20.06	16.37	22.11	10.64	18.38
22	17.81	21.58	7.40	24.33	31.33	17.15	21.57	20.69	20.05	18.90	18.98	17.42	17.26	15.43	18.38
23	24.71	20.44	14.23	27.16	21.82	22.13	26.55	16.33	20.05	16.80	20.06	19.01	9.17	14.90	18.38
24	17.81	23.28	18.22	15.84	15.66	23.79	23.79	11.98	23.39	17.33	17.89	18.48	11.33	18.09	15.75
25	14.94	22.15	13.09	18.67	15.10	14.39	16.04	16.33	22.83	12.08	15.18	18.48	15.10	21.82	17.85
26	15.52	14.20	16.51	18.11	15.66	8.85	13.83	13.61	18.93	13.65	14.10	13.73	16.18	19.69	16.28
27	10.34	11.36	17.65	10.75	12.31	14.39	14.94	5.99	14.48	19.95	12.47	7.39	16.18	12.24	8.93
28	9.77	9.65	12.52	8.49	6.71	15.49	11.62	8.71	12.81	13.65	10.84	7.39	11.33	10.64	10.50
29	11.49	13.63	7.40	9.62	4.48	9.41	8.85	13.07	11.14	6.83	7.05	8.98	7.55	14.90	9.45
30	12.64	11.36	10.25	5.66	6.15	7.75	7.74	11.98	8.91	5.25	6.51	10.03	10.25	11.18	8.93
31	9.19	5.11	9.11	3.96	7.27	8.30	2.77	7.08	9.47	7.35	5.96	7.39	11.33	9.05	14.18
32	5.17	4.54	5.69	6.22	6.15	6.09	0.55	7.08	9.47	7.88	4.34	5.81	7.01	9.58	13.65
33	3.45	3.98	7.97	3.39	5.59	3.87	2.21	6.53	9.47	3.15	3.80	6.86	2.16	5.32	9.98
34	2.87	5.11	5.12	2.83	4.48	3.32	3.87	2.72	5.57	1.58	4.34	5.81	1.08	3.19	6.30
35	2.30	4.54	0.00	2.26	2.24	4.98	4.98	3.27	1.11	2.63	2.71	3.70	3.78	3.19	4.73
36	6.90	2.84	2.85	1.13	2.80	6.09	4.43	2.18	1.11	4.20	0.54	1.06	4.31	3.73	4.73
37	6.32	3.98	2.85	1.13	3.36	2.21	2.77	0.00	1.11	6.83	0.00	0.00	1.08	2.66	2.63
38	1.15	3.41	0.00	0.00	1.68	0.55	1.11	2.18	0.00	5.25	1.63	1.58	1.08	0.00	1.58
39	0.57	1.70	0.57	0.00	1.68	0.55	1.11	2.18	2.23	1.05	2.71	1.58	1.08	0.00	2.10
40	1.72	1.70	2.28	0.00	2.24	0.00	1.11	0.54	2.78	0.00	1.08	0.00	0.00	1.06	2.10
41	2.87	0.57	1.71	0.00	1.12	0.00	0.00	0.54	0.56	0.00	1.63	0.00	0.00	2.13	0.00
42	1.72	1.14	0.00	0.00	0.56	0.00	0.55	0.00	0.00	0.00	1.63	0.00	0.00	1.06	0.00
43	0.57	1.14	1.14	0.00	0.00	1.66	0.55	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	1.72	0.00	1.14	0.00	1.12	1.66	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	1.15	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.11. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for South Derived from TDHS-1998

Age of mother at birth of child	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	0.57	0.57	1.11	1.10	1.73	0.55	0.54	1.13	1.05	0.55	1.12	1.07	1.08	0.53	0.52
16	1.15	1.14	1.11	1.10	2.30	1.64	3.25	2.25	1.05	0.55	2.23	1.07	2.15	2.12	2.08
17	2.86	1.71	2.78	1.65	3.45	1.64	4.88	5.63	2.63	3.84	3.91	3.20	2.15	3.71	4.17
18	5.73	1.71	2.78	4.41	3.45	2.73	3.80	8.45	4.74	6.03	5.58	4.27	2.69	6.36	4.17
19	7.44	2.86	1.11	3.86	5.18	6.55	3.80	7.88	4.74	5.48	4.47	5.33	5.38	6.89	5.73
20	8.02	8.57	3.90	4.41	5.76	7.64	6.51	6.76	4.74	7.67	4.47	7.47	5.92	5.83	6.77
21	7.44	12.00	9.46	7.16	6.91	6.00	8.68	7.88	6.85	6.58	8.93	8.00	4.31	4.77	4.17
22	6.87	9.71	13.35	9.36	8.06	4.37	6.51	8.45	7.38	6.58	8.93	8.00	4.85	4.77	8.34
23	7.44	8.00	8.90	9.91	7.48	6.55	5.42	5.63	7.38	6.03	5.58	5.87	9.15	7.42	10.94
24	6.87	12.00	6.12	8.81	8.06	9.83	4.88	5.07	7.38	5.48	6.14	8.53	11.31	9.54	9.38
25	6.30	10.86	9.46	7.16	9.21	8.19	7.05	5.63	7.38	6.03	8.37	9.60	8.08	7.42	8.34
26	5.73	8.00	6.68	8.81	9.78	4.91	11.93	6.19	7.38	3.84	6.14	7.47	4.31	4.77	6.25
27	4.58	9.71	5.01	8.26	10.93	4.37	10.85	7.32	7.90	3.29	5.02	6.93	3.77	4.77	6.25
28	4.01	8.57	6.68	3.30	7.48	7.10	8.68	5.63	7.90	5.48	4.47	4.27	2.69	5.30	5.73
29	3.44	6.29	5.56	4.41	5.76	6.55	8.13	5.63	5.80	7.67	6.14	4.80	2.15	3.71	5.73
30	5.73	3.43	4.45	4.41	6.33	5.46	5.42	5.63	4.74	4.38	7.26	3.73	3.77	3.18	4.17
31	6.30	4.00	5.01	3.86	3.45	4.91	4.88	3.38	5.27	2.19	3.91	3.20	4.31	5.30	3.13
32	2.29	4.57	6.12	5.51	4.03	3.28	4.34	3.94	3.69	4.38	2.23	5.33	3.77	5.30	3.65
33	3.44	4.00	5.56	4.96	2.88	2.18	2.17	4.50	2.11	3.29	2.23	3.20	2.15	4.24	3.13
34	4.01	4.57	4.45	2.75	1.15	1.64	2.17	3.38	2.63	1.64	2.79	1.60	2.15	3.18	3.13
35	2.86	3.43	3.90	2.20	1.15	1.64	1.63	2.25	2.63	1.10	1.67	1.07	3.23	2.65	3.13
36	3.44	1.71	2.23	2.75	0.58	1.64	1.63	1.13	2.11	1.64	0.56	0.53	2.15	1.59	2.08
37	1.15	2.29	1.11	2.20	0.58	1.64	1.63	2.82	1.58	2.19	0.56	1.07	1.08	0.53	0.52
38	1.15	1.14	1.11	1.10	2.30	2.18	0.54	2.82	1.05	1.10	1.67	0.53	0.54	2.12	0.00
39	1.15	0.00	0.56	0.55	2.30	1.64	0.54	1.13	0.00	1.10	1.12	0.00	1.62	3.71	0.00
40	1.15	0.57	0.56	0.00	0.58	0.55	1.08	1.13	0.53	0.55	0.56	0.53	2.69	1.59	0.52
41	2.29	0.57	1.11	0.55	0.00	1.09	0.54	0.56	0.53	0.00	0.56	0.53	1.08	0.00	1.04
42	1.72	0.57	1.11	0.55	0.00	0.55	0.00	0.00	0.53	0.00	0.00	0.53	0.00	0.00	0.52
43	0.57	1.14	1.67	0.55	0.00	0.00	0.00	0.56	0.53	0.00	0.00	1.07	0.00	0.53	0.00
44	0.57	1.14	1.11	1.10	0.00	0.55	0.00	0.56	0.00	0.55	0.00	0.53	0.00	1.06	0.00
45	0.57	0.57	1.11	0.55	0.58	1.09	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.53	0.00
46	0.00	0.00	1.11	0.00	0.58	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.12. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for Central Derived from TDHS-1998

Age of mother at birth of child	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	2.83	2.25	1.16	2.85	0.56	3.83	0.55	0.00	3.72	2.21	0.54	1.60	0.00	0.53	1.03
16	5.09	3.94	1.16	5.13	1.12	5.47	4.43	2.81	4.25	5.53	1.63	2.14	0.54	3.16	2.07
17	7.92	3.94	4.06	5.70	7.25	6.56	9.42	5.62	5.31	7.19	5.97	2.67	4.82	5.79	6.21
18	10.18	4.51	7.54	6.84	10.60	7.65	6.65	10.68	8.49	8.29	8.14	4.27	9.64	8.42	9.83
19	6.79	8.45	10.44	8.55	11.16	9.29	8.32	12.37	13.27	10.50	13.03	6.94	10.18	11.05	10.35
20	8.48	13.52	18.56	5.70	8.37	9.84	15.52	11.81	12.74	15.48	15.75	13.35	12.85	16.32	11.38
21	12.44	15.21	20.30	9.12	10.04	8.75	17.18	15.74	12.21	17.13	17.37	14.96	12.32	13.69	12.93
22	13.01	13.52	16.24	11.40	16.18	11.48	12.75	16.30	13.80	13.26	16.83	11.75	8.57	13.16	11.38
23	11.88	12.39	12.76	12.55	13.39	15.31	5.54	11.24	11.15	7.74	12.49	10.68	12.32	14.21	15.00
24	11.88	13.52	12.18	13.12	10.60	15.31	7.76	6.18	10.61	4.97	11.40	10.68	12.85	12.63	19.66
25	13.57	11.83	13.34	7.41	8.93	9.84	12.75	8.99	7.96	4.97	9.23	12.29	11.78	12.63	18.63
26	11.31	7.89	8.70	9.69	6.14	5.47	13.30	11.24	7.43	4.42	8.69	11.75	13.39	10.00	13.45
27	10.18	6.20	12.18	10.83	3.90	7.11	10.53	6.75	12.21	7.74	9.23	6.41	12.32	7.90	9.83
28	10.18	5.63	11.02	10.83	5.58	7.65	6.65	5.06	9.55	8.29	12.49	3.21	7.50	6.84	11.90
29	7.35	8.45	7.54	9.12	7.81	4.37	7.76	5.62	6.90	9.40	9.23	4.27	2.14	6.84	10.87
30	7.35	9.01	9.86	2.85	4.46	4.37	10.53	3.94	7.43	8.29	3.80	5.34	3.75	4.74	8.28
31	6.79	5.07	6.38	3.42	2.23	6.01	7.21	2.25	4.78	6.08	3.26	4.27	5.36	5.26	4.66
32	3.96	2.82	2.90	4.56	2.79	2.73	2.77	3.37	4.25	6.08	2.71	3.21	2.68	5.79	5.69
33	5.66	2.82	2.32	3.42	2.23	1.64	1.11	4.50	5.31	4.42	4.89	4.81	2.14	5.26	4.66
34	6.22	3.94	3.48	2.28	2.23	2.73	1.11	3.37	3.72	3.87	4.34	4.27	2.14	2.63	2.07
35	5.66	2.82	4.64	1.71	1.12	2.19	2.77	2.25	1.06	1.66	2.71	1.07	0.54	1.05	3.10
36	3.39	0.56	3.48	1.14	0.00	2.19	3.33	0.56	2.12	1.11	2.17	2.14	1.07	0.53	3.62
37	0.57	1.13	1.74	0.57	0.56	3.28	2.22	0.56	3.18	1.66	1.09	2.67	1.07	0.00	3.10
38	1.70	1.13	1.74	0.57	1.12	1.64	0.55	0.56	1.59	0.55	1.09	1.07	0.00	1.05	1.03
39	1.13	0.56	1.16	0.57	0.56	0.00	1.11	0.00	0.00	2.21	0.54	0.53	0.00	1.58	0.00
40	0.57	1.13	0.58	0.57	0.00	0.00	1.66	1.12	0.00	2.21	0.00	0.00	0.00	0.53	0.00
41	0.57	0.56	0.58	0.57	0.00	0.00	1.11	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	0.00	0.00	0.58	0.57	0.00	0.55	1.11	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	0.00	1.13	0.00	0.57	0.00	1.09	1.11	0.56	0.00	0.00	0.54	0.00	0.00	0.53	0.00
44	0.00	1.13	0.00	0.00	0.00	0.55	0.55	0.00	0.00	0.00	0.54	0.00	0.00	0.53	0.00
45	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00
46	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00

Table D.13. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for North Derived from TDHS-1998

Age of mother at birth of child	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	1.15	0.00	0.00	0.00	1.16	1.17	0.56	0.00	0.55	0.55	0.00	0.00	0.00	0.53	0.00
16	1.15	0.59	1.21	1.18	0.58	1.17	2.22	0.55	1.64	0.55	0.00	1.11	0.00	0.53	0.00
17	0.58	0.59	3.64	1.77	1.16	0.59	2.22	0.55	1.64	1.10	0.56	2.22	0.55	0.53	0.00
18	1.15	1.19	4.85	2.95	2.91	3.52	1.67	1.10	1.64	2.75	1.13	1.66	2.19	2.14	2.16
19	3.46	4.15	5.45	3.54	4.65	5.28	3.33	2.20	3.82	5.50	3.38	2.22	3.84	2.67	3.25
20	6.93	5.93	4.85	4.72	4.65	5.87	5.55	4.96	4.36	4.95	4.51	2.77	4.94	2.67	3.25
21	6.35	7.12	6.06	5.90	5.82	4.11	6.66	5.51	4.36	2.75	3.94	4.99	5.49	4.27	5.41
22	4.04	8.31	7.88	4.13	5.24	3.52	5.00	6.06	5.45	4.40	3.94	6.09	5.49	5.34	4.87
23	4.04	5.93	6.06	4.72	4.65	3.52	3.89	5.51	6.54	3.85	4.51	4.43	5.49	5.88	5.95
24	5.77	5.93	3.64	6.49	6.40	4.11	7.22	4.96	4.36	3.30	4.51	6.09	3.84	5.34	7.03
25	6.93	7.12	3.64	4.72	3.49	6.46	6.66	6.06	1.09	4.40	3.94	7.75	4.39	4.27	3.79
26	5.20	4.75	4.24	2.95	2.33	3.52	5.00	3.85	2.18	3.85	2.82	6.09	5.49	3.74	2.71
27	3.46	4.75	3.03	4.13	2.91	0.59	6.11	3.30	2.73	6.05	2.25	4.43	4.39	2.14	3.79
28	3.46	3.56	3.03	4.72	2.33	0.59	3.89	2.20	2.73	4.95	3.94	4.43	3.29	2.67	3.25
29	4.04	1.78	4.24	3.54	4.07	2.94	2.22	1.10	3.27	3.30	6.20	3.88	1.65	2.14	2.71
30	3.46	4.15	3.03	1.18	3.49	3.52	2.22	1.10	2.18	3.30	3.94	2.77	1.65	1.60	2.71
31	2.31	4.15	3.03	0.59	2.33	1.76	2.22	2.20	0.55	2.20	0.56	2.77	2.19	2.67	2.16
32	2.31	1.78	3.03	2.95	1.75	1.17	1.11	2.20	1.09	2.20	1.13	2.22	1.65	2.14	2.16
33	2.31	0.59	0.61	2.36	1.16	1.17	0.56	0.55	1.09	2.20	1.13	1.66	1.10	1.60	1.62
34	1.15	0.59	1.82	0.00	1.16	1.17	1.11	0.55	0.00	1.65	0.56	1.11	0.55	2.14	1.62
35	0.00	1.19	2.42	0.59	1.16	0.59	0.56	1.65	0.55	0.55	1.13	0.55	0.55	1.60	1.62
36	0.58	1.19	1.21	0.59	1.16	0.00	0.00	1.65	0.55	0.00	1.13	0.55	0.55	0.00	0.54
37	0.58	0.59	0.61	0.59	0.58	0.59	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	0.58	0.00	0.61	1.18	0.58	0.59	0.56	0.00	0.55	0.00	0.00	0.00	0.00	0.53	0.00
39	0.58	0.00	0.61	0.59	0.58	0.00	0.56	0.00	1.09	0.00	0.56	0.00	0.00	0.53	0.00
40	0.58	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.55	0.00	0.56	1.11	0.00	0.00	0.54
41	0.58	0.00	0.00	0.00	0.58	0.00	0.00	0.55	0.00	0.00	0.00	1.11	0.00	0.53	0.54
42	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.55	0.00	0.00	0.00	0.00	0.00	0.53	0.00
43	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
46	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.14. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for East Derived from TDHS-1998

Age of mother at birth of child	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	3.01	2.32	3.53	1.66	2.84	4.96	4.49	2.20	3.34	2.75	3.32	0.55	2.17	1.07	2.11
16	5.42	5.21	4.70	3.33	5.12	6.61	5.61	5.50	4.45	6.05	5.54	2.76	4.34	3.76	3.16
17	4.21	6.37	6.47	4.43	7.39	5.51	8.41	12.65	6.67	8.79	4.43	4.97	8.14	4.83	6.85
18	5.42	6.37	5.88	8.87	6.26	7.16	12.90	14.30	18.91	8.24	7.76	7.73	8.14	9.66	7.90
19	5.42	9.26	4.70	7.76	9.67	6.06	12.34	11.00	18.91	10.44	16.07	14.36	10.32	11.80	11.58
20	10.83	6.37	7.06	4.99	11.37	8.81	6.17	12.65	12.79	12.64	20.50	14.36	10.86	10.20	12.11
21	12.03	7.53	5.88	9.98	11.94	8.81	8.41	11.55	12.24	11.54	16.62	13.80	11.40	11.80	12.64
22	9.03	12.16	11.17	10.53	14.78	7.71	7.85	15.40	9.46	11.54	10.53	14.91	16.83	15.02	15.80
23	10.83	10.42	15.29	13.85	11.37	8.26	8.98	11.55	15.57	11.54	9.97	14.91	15.75	18.24	10.00
24	10.83	10.42	10.00	14.96	11.37	7.16	12.34	8.25	13.91	9.34	8.87	10.49	10.86	16.10	9.48
25	15.64	11.00	7.06	10.53	9.67	12.66	8.98	13.75	8.90	4.95	11.64	4.97	7.06	13.95	10.00
26	12.64	12.16	7.65	8.31	7.39	13.22	11.78	9.90	11.12	6.60	10.53	9.39	7.60	13.95	8.42
27	8.42	8.69	14.70	6.65	12.51	8.81	11.78	13.75	9.46	9.89	4.99	7.73	10.32	9.12	10.00
28	9.03	5.79	14.11	9.98	10.80	8.26	8.98	15.40	11.68	7.14	6.10	5.52	7.60	7.51	8.95
29	4.81	8.69	7.65	8.87	9.67	4.96	12.34	8.25	13.35	6.60	4.99	9.39	5.97	6.44	8.95
30	10.83	6.37	5.88	3.88	10.24	4.41	10.66	8.80	9.46	8.24	7.76	7.18	7.60	3.76	5.27
31	9.63	11.00	6.47	6.65	5.69	4.96	12.34	6.60	7.23	6.60	11.08	6.07	4.89	4.83	4.74
32	2.41	9.84	12.35	6.10	5.69	2.75	11.78	6.60	6.12	3.85	6.10	8.28	5.43	3.76	7.90
33	6.02	2.32	8.82	7.76	4.55	3.30	5.61	7.15	10.01	3.30	4.43	6.63	6.52	6.44	4.74
34	5.42	3.47	2.35	7.20	6.26	3.85	5.05	3.30	10.01	6.60	4.99	4.42	3.26	10.73	7.37
35	6.02	3.47	5.88	2.77	5.69	6.06	6.17	4.40	5.01	5.50	3.88	2.76	1.09	8.05	8.42
36	9.63	9.26	4.70	3.88	2.27	4.41	7.29	4.40	6.67	2.20	1.10	3.32	3.87	1.63	5.37
37	9.63	9.26	7.06	2.77	5.69	0.55	3.93	6.60	6.12	1.65	1.66	4.42	3.26	3.76	6.85
38	5.42	3.47	7.65	6.10	4.55	1.10	1.12	5.50	6.67	2.20	2.22	1.66	2.71	2.15	3.16
39	1.81	3.47	2.94	6.65	6.82	1.10	2.80	1.65	5.56	3.85	2.22	1.66	0.54	1.61	1.05
40	4.21	1.16	2.94	2.22	8.53	2.75	2.80	2.75	1.11	3.85	2.22	2.21	1.09	0.54	2.11
41	5.42	8.11	1.18	1.11	3.98	3.30	5.61	2.20	3.34	1.65	2.22	2.76	1.63	1.07	1.58
42	2.41	9.26	2.94	0.55	2.27	2.75	6.17	1.65	3.34	1.10	1.11	2.21	1.63	1.07	0.53
43	1.81	1.74	3.53	2.22	0.57	2.20	3.37	2.20	2.22	0.55	1.66	0.55	1.09	1.07	1.58
44	1.81	1.74	1.76	2.22	2.27	0.55	1.68	1.10	2.78	0.55	1.11	1.10	0.00	0.54	2.11
45	1.81	1.16	1.76	0.00	2.84	2.20	0.00	0.55	2.22	1.10	0.55	1.10	0.00	0.00	1.05
46	1.81	0.58	0.59	0.00	0.57	2.75	0.56	0.55	1.67	0.55	1.11	0.00	0.00	0.00	0.53
47	0.60	1.16	0.59	0.00	0.57	1.65	1.68	2.20	1.11	0.55	1.11	0.55	1.09	0.00	0.53
48	0.00	0.58	1.18	1.11	0.57	0.55	1.12	2.20	1.67	1.10	0.55	0.55	1.09	0.54	0.00
49	0.00	0.00	0.59	1.66	0.00	0.00	0.00	0.55	1.11	2.20	0.00	0.00	0.00	0.54	0.00

Table D.15. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for Urban Derived from TDHS-2003

Age of mother at birth of child	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	7.20	8.49	5.44	4.38	6.48	5.47	2.66	4.75	4.81	2.10	3.74	3.22	2.13	1.05	1.04
16	15.51	14.32	15.23	10.95	11.34	10.93	10.11	11.62	9.63	10.51	3.74	7.50	6.40	2.09	5.19
17	22.16	21.74	26.65	22.45	23.77	20.22	20.23	15.31	11.23	17.34	16.58	15.54	13.33	12.55	11.42
18	24.93	27.58	29.91	33.95	31.87	32.24	25.02	21.65	20.86	16.82	28.88	21.98	21.86	20.92	16.10
19	31.02	35.53	28.82	35.04	43.21	37.16	31.94	29.57	37.97	22.07	28.88	30.02	33.05	23.54	22.85
20	41.55	41.90	37.53	35.04	47.53	36.62	45.25	42.24	42.79	35.74	35.84	32.70	36.25	30.34	25.96
21	41.55	40.84	36.44	46.54	41.05	41.53	52.70	46.46	39.04	37.31	37.98	35.91	36.78	32.43	36.87
22	41.55	36.59	31.54	47.64	44.29	47.55	48.98	42.77	41.72	35.74	37.98	46.10	43.18	30.34	46.21
23	47.64	38.18	30.46	41.61	36.73	41.53	43.12	52.27	47.60	39.41	45.46	47.17	42.11	34.00	43.62
24	47.09	48.79	29.37	36.68	34.03	34.43	39.93	54.91	42.79	49.92	42.79	51.99	47.44	37.66	44.14
25	36.56	45.61	33.72	35.04	30.25	36.62	33.54	46.46	32.09	48.87	41.18	51.99	50.64	34.00	40.50
26	28.25	45.08	31.00	36.68	33.49	32.79	30.34	35.38	33.16	30.48	37.98	46.63	37.31	37.66	43.10
27	26.04	38.71	28.28	33.95	37.27	22.95	26.62	30.62	29.95	24.17	28.88	42.88	32.52	38.71	36.35
28	26.59	29.17	23.39	32.30	28.63	23.50	25.55	26.40	25.14	22.60	27.28	34.30	29.85	31.38	24.40
29	27.14	27.58	16.86	25.73	25.39	26.23	27.68	24.29	24.07	26.80	25.67	31.62	27.72	24.06	23.37
30	22.71	22.80	15.77	23.54	21.61	18.58	26.09	24.29	26.74	23.12	23.53	26.80	29.32	18.83	18.69
31	22.71	24.40	19.04	22.45	23.77	15.85	23.96	21.12	29.95	17.34	19.26	20.37	27.72	15.17	15.58
32	17.17	19.09	18.49	18.62	19.44	17.49	19.16	16.90	24.07	15.24	16.58	16.08	18.12	12.03	12.98
33	9.97	11.67	11.96	15.88	12.96	14.21	13.84	16.90	18.18	16.29	15.51	12.33	6.93	14.65	10.90
34	6.65	11.14	8.70	9.31	14.04	14.21	14.91	16.37	14.44	19.97	13.37	10.72	9.60	13.60	11.94
35	6.09	7.96	7.61	8.76	10.26	12.57	11.71	11.09	9.09	12.61	9.09	10.72	12.79	8.37	9.35
36	6.09	5.30	4.89	7.12	7.56	6.01	4.79	8.45	7.49	7.88	3.74	9.65	8.53	6.28	5.19
37	7.76	4.77	2.18	2.74	8.10	2.73	4.26	4.22	7.49	7.88	4.81	9.11	6.40	8.89	6.75
38	8.86	4.77	5.44	2.19	4.86	3.83	5.32	2.64	4.81	7.36	5.35	8.04	5.33	7.85	6.23
39	4.99	4.77	7.07	2.74	2.70	2.19	3.73	2.11	3.21	4.73	2.14	6.97	2.67	5.23	3.12
40	3.32	2.65	3.26	3.83	3.24	2.19	1.06	2.11	1.07	1.58	1.60	4.29	4.26	2.62	2.08
41	2.77	2.12	1.63	3.29	1.62	2.73	1.06	1.58	0.00	1.58	3.21	2.14	3.20	2.09	1.56
42	1.66	2.12	3.81	2.19	0.54	1.64	0.53	1.06	0.00	2.63	2.67	1.07	0.00	3.14	1.56
43	1.66	1.06	2.72	2.19	1.08	2.19	1.06	0.53	1.07	1.58	0.53	0.00	1.07	1.05	1.04
44	1.66	0.00	0.00	1.64	2.16	1.64	2.13	0.00	1.07	0.00	0.00	0.00	1.07	0.00	0.52
45	1.11	0.00	0.00	0.55	1.08	1.09	2.13	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
46	0.55	0.00	1.09	0.00	0.00	0.55	1.60	0.53	0.00	0.00	0.53	1.07	0.00	0.00	0.00
47	0.00	0.53	1.09	0.00	0.00	0.00	0.53	0.53	0.00	0.00	0.53	1.07	0.00	0.00	0.00
48	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.16. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for Rural Derived from TDHS-2003

Age of mother at birth of child	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	3.42	3.88	3.92	1.09	2.76	2.14	2.79	3.28	2.71	1.11	1.10	1.64	0.00	0.54	0.52
16	3.99	8.32	7.27	3.82	6.08	7.48	6.14	2.73	5.96	5.57	2.20	6.00	1.60	2.14	3.64
17	6.85	10.54	11.75	8.19	6.63	11.75	8.93	8.74	9.76	10.59	9.33	7.63	8.56	7.50	8.32
18	14.27	11.10	16.22	16.39	9.95	9.08	12.27	16.93	13.55	15.61	17.57	11.45	13.37	12.32	11.96
19	17.12	14.43	19.02	19.66	18.24	11.75	13.39	14.75	17.89	19.51	15.92	19.08	18.72	15.00	13.52
20	19.97	15.54	22.38	25.13	16.58	22.43	21.76	10.92	15.72	19.51	16.47	22.35	23.00	17.67	15.60
21	25.11	25.52	21.26	28.95	19.35	24.57	27.34	17.48	9.76	18.95	20.86	22.90	19.79	20.89	28.08
22	21.69	23.30	20.70	19.12	24.88	26.71	20.09	28.95	16.81	17.28	18.67	27.80	17.12	19.82	30.16
23	17.12	18.31	19.58	18.02	17.69	24.03	22.87	24.03	23.86	21.18	14.82	24.53	20.86	15.53	22.88
24	20.55	26.63	22.94	16.39	18.24	19.76	22.87	12.56	21.69	25.09	18.67	16.90	21.40	18.75	20.28
25	21.69	22.75	28.53	13.11	16.58	18.69	22.32	16.38	24.94	20.07	24.71	16.36	17.12	14.46	17.68
26	25.68	19.42	22.38	22.39	13.27	12.82	26.78	18.57	22.77	13.94	22.51	21.26	16.58	10.18	14.04
27	21.69	17.20	19.58	22.39	16.03	10.15	18.97	15.29	14.64	11.15	18.12	17.45	19.79	16.60	6.76
28	11.98	13.32	17.34	15.29	16.03	14.42	9.48	14.20	13.01	7.80	15.92	10.90	18.19	13.39	7.28
29	13.70	18.31	12.31	14.20	14.93	17.63	12.27	12.02	10.84	10.59	12.63	15.81	12.30	6.43	13.52
30	14.84	16.09	9.51	9.29	12.71	14.95	12.27	12.02	13.55	13.94	13.18	14.72	13.37	8.03	14.56
31	8.56	11.10	11.19	7.65	9.95	10.68	8.37	14.75	15.18	14.49	10.98	11.99	10.70	8.03	12.48
32	6.28	10.54	11.75	9.83	8.84	6.41	8.93	12.56	11.39	16.17	7.69	9.81	7.49	5.89	9.36
33	9.13	6.66	7.27	8.19	10.50	6.94	10.04	9.28	8.67	11.15	8.24	4.36	5.88	5.89	5.20
34	10.27	5.55	3.92	7.10	8.29	6.41	9.48	7.65	6.51	6.13	8.24	3.27	4.28	6.96	6.24
35	9.70	6.66	3.92	6.55	5.53	3.74	6.70	6.01	4.34	3.34	9.88	5.45	6.42	5.36	5.20
36	6.85	7.77	3.36	2.73	3.32	2.14	6.70	6.55	2.71	1.11	8.79	7.63	8.56	5.36	2.60
37	5.71	5.55	3.92	1.09	2.21	3.74	3.91	6.55	2.17	3.34	3.84	6.00	6.95	5.89	3.64
38	5.14	4.44	6.15	3.28	1.66	3.74	0.56	4.37	4.34	5.57	2.20	3.27	3.74	2.14	3.12
39	5.14	2.77	6.15	4.37	1.66	2.67	1.67	1.64	4.34	4.46	2.20	3.27	3.74	1.07	2.08
40	6.28	1.11	4.48	4.37	2.76	3.20	2.23	2.73	1.08	2.23	1.65	2.18	4.28	0.54	2.08
41	7.42	3.33	2.80	3.28	1.66	2.14	2.23	3.28	1.63	0.56	2.75	2.18	2.67	0.54	1.56
42	4.57	3.88	2.24	1.64	1.11	2.14	3.35	2.18	2.71	0.56	1.65	1.64	1.07	1.07	1.04
43	2.85	1.66	2.24	1.64	1.11	1.60	3.91	1.09	1.63	1.11	0.00	0.55	1.07	1.07	1.04
44	2.85	1.66	1.68	2.18	1.11	1.07	2.23	0.55	0.54	1.11	0.55	0.00	0.53	0.54	0.52
45	0.57	1.11	1.12	1.64	0.55	0.53	0.00	1.64	0.00	1.11	1.10	0.55	1.07	0.00	0.00
46	0.00	0.00	0.56	0.55	0.00	0.00	0.56	1.09	0.54	1.11	0.55	1.09	1.07	0.54	0.00
47	1.14	0.00	0.00	0.00	0.00	0.53	0.56	0.00	0.54	1.11	0.00	0.55	0.53	0.54	0.00
48	1.14	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.56	0.00	0.00	0.53	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.17. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for West Derived from TDHS-2003

Age of mother at birth of child	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	4.35	5.76	1.59	1.09	3.71	0.54	2.15	2.18	2.64	1.57	0.53	0.53	1.06	0.00	1.03
16	5.98	7.85	7.94	5.98	4.24	3.78	6.99	3.81	3.69	5.24	0.53	2.66	2.12	2.09	2.07
17	7.61	13.08	12.17	12.49	7.42	11.89	9.14	4.35	4.75	7.85	8.52	5.32	4.76	7.85	5.69
18	11.41	16.23	14.82	17.93	12.19	14.60	9.14	9.25	10.03	6.28	12.24	7.98	10.05	15.70	5.69
19	12.50	17.27	13.76	20.10	22.79	16.22	17.20	16.87	15.83	9.43	7.45	16.49	17.98	15.18	7.75
20	17.39	18.84	19.05	24.45	25.44	20.54	31.71	25.04	15.30	19.37	15.97	16.49	20.62	11.52	11.89
21	22.29	17.80	21.69	32.05	19.08	24.87	33.32	29.94	19.00	20.95	21.82	14.37	19.57	12.56	20.67
22	22.83	16.23	15.34	27.71	24.91	28.11	27.41	25.58	25.33	18.33	18.10	23.94	19.57	15.18	25.84
23	24.46	21.46	14.29	24.99	20.14	22.16	23.11	25.04	20.58	21.47	19.69	25.01	17.45	17.80	19.64
24	21.20	27.74	19.05	22.82	13.78	15.14	18.81	27.21	17.42	28.80	19.69	28.73	19.57	22.51	19.12
25	17.39	20.94	20.64	19.01	12.72	15.14	20.96	27.21	18.47	27.23	20.76	27.13	20.62	21.98	21.71
26	17.39	18.84	14.29	21.73	19.61	14.60	23.65	20.68	18.47	14.66	19.16	19.15	18.51	21.46	23.78
27	11.96	19.37	13.23	20.64	20.14	10.81	15.59	14.15	13.72	10.47	14.37	18.62	19.04	27.74	18.61
28	9.24	18.32	13.76	19.56	11.66	15.14	6.45	14.70	10.55	11.00	15.97	13.30	16.39	20.94	9.82
29	11.96	13.61	10.05	18.47	8.48	16.76	8.06	15.24	9.50	11.52	13.84	15.43	11.63	9.95	7.75
30	11.41	9.42	5.29	15.21	7.95	8.65	12.36	13.61	13.72	9.43	10.64	17.03	11.63	7.85	8.27
31	13.59	12.04	6.35	11.95	12.72	8.11	11.29	8.71	19.00	10.47	9.05	11.71	15.34	7.85	7.75
32	10.87	9.42	7.41	8.15	10.07	6.49	10.21	4.90	15.83	9.43	5.85	6.92	10.58	8.90	6.72
33	4.35	5.23	4.76	6.52	7.95	4.32	10.75	7.62	10.03	8.90	4.26	4.26	3.17	7.85	4.65
34	2.17	3.66	2.12	5.43	9.54	5.41	9.67	8.71	5.81	11.00	6.39	3.72	3.70	3.66	4.65
35	2.17	3.66	2.12	7.06	5.83	3.78	6.45	4.90	4.22	6.28	6.92	5.32	5.82	3.14	2.58
36	1.63	2.62	1.59	4.89	2.65	1.62	3.22	3.81	4.22	2.09	3.19	5.32	5.29	3.14	1.03
37	3.26	0.52	0.53	0.54	3.71	2.16	2.69	2.72	2.64	1.05	1.60	2.13	2.64	3.14	3.10
38	2.72	1.57	1.59	0.00	2.65	2.70	2.69	1.63	0.00	2.09	3.19	1.60	2.12	2.62	2.58
39	1.09	1.57	2.65	2.17	0.53	0.54	1.61	0.54	0.00	1.05	2.13	2.66	2.12	1.57	0.52
40	1.09	0.00	2.12	2.72	1.06	0.54	0.00	0.54	0.00	0.00	0.00	2.66	1.59	1.05	0.00
41	0.00	0.00	1.06	0.54	0.53	0.54	0.00	0.00	0.00	0.00	0.00	1.06	0.53	1.57	0.00
42	0.00	0.00	0.53	0.54	0.00	1.08	0.00	0.00	0.00	1.05	0.53	0.00	0.00	1.57	0.00
43	1.09	0.00	0.00	0.54	0.00	1.08	0.54	0.00	0.00	1.05	0.53	0.00	1.06	0.00	0.00
44	1.09	0.00	0.00	0.00	0.00	0.54	1.07	0.00	0.00	0.00	0.00	0.00	1.06	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00	0.54	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.18. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for South Derived from TDHS-2003

Age of mother at birth of child	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	1.16	0.53	3.29	1.09	2.18	0.55	0.00	2.74	1.67	0.00	1.60	1.62	0.53	0.00	0.00
16	2.90	0.00	3.83	1.64	4.35	2.19	1.08	2.74	2.22	0.00	1.60	2.16	2.66	0.52	1.05
17	6.39	2.66	4.38	3.27	5.44	3.29	3.23	3.29	1.67	1.62	4.80	3.78	3.73	1.56	2.61
18	6.39	4.78	6.02	5.45	6.53	4.93	3.77	5.49	3.33	4.33	9.61	4.86	4.26	1.04	6.27
19	5.81	6.91	5.48	4.91	7.07	7.67	6.99	6.04	7.23	6.49	8.01	5.95	6.40	2.60	8.36
20	7.55	10.62	7.67	5.45	9.25	6.57	9.14	6.04	8.34	9.74	6.41	7.03	8.53	7.27	8.36
21	5.81	11.69	8.76	9.82	14.14	5.48	11.83	8.78	6.11	9.20	9.61	8.11	9.59	6.75	7.32
22	4.06	8.50	9.31	10.91	11.97	9.31	11.30	10.43	4.45	9.74	9.61	9.19	7.99	3.64	7.84
23	5.81	7.97	8.76	10.91	6.53	12.05	10.22	8.78	6.11	10.82	8.01	10.27	9.06	3.12	10.45
24	12.19	9.56	8.21	8.18	9.25	9.31	12.37	8.78	7.78	9.74	6.41	11.35	12.79	5.71	8.88
25	11.61	10.09	8.21	7.64	8.70	8.22	11.30	9.88	7.23	9.20	6.41	9.19	10.66	4.67	7.84
26	7.55	13.28	7.12	8.73	5.98	9.31	10.22	8.78	7.23	5.95	8.01	7.57	5.33	4.67	8.88
27	8.13	9.03	4.38	6.00	7.62	6.57	8.07	4.94	9.45	3.79	5.87	7.03	4.26	6.75	6.79
28	7.55	6.91	2.19	3.82	8.16	3.29	6.99	2.20	8.34	3.25	5.34	7.03	3.73	5.71	4.70
29	7.55	10.09	3.29	1.09	7.62	4.38	6.99	3.84	6.11	4.87	8.01	7.57	4.26	4.67	5.23
30	5.23	7.44	4.38	1.09	4.90	4.38	6.99	2.74	8.34	4.87	6.41	5.41	5.86	2.60	5.23
31	3.48	6.91	4.93	4.36	6.53	2.74	5.38	3.84	5.56	5.41	2.67	5.41	3.73	1.04	4.70
32	3.48	5.31	5.48	4.91	5.44	3.83	3.23	3.84	2.78	4.87	3.20	4.32	2.66	2.08	4.70
33	2.32	2.66	3.29	2.18	2.72	3.29	2.15	2.20	2.22	2.71	3.74	3.24	2.13	3.64	3.66
34	2.32	2.66	1.64	2.73	3.81	3.29	2.15	4.39	1.67	3.25	2.14	3.78	3.20	3.64	3.66
35	2.90	1.59	2.74	3.27	3.26	3.29	1.61	4.94	2.22	1.62	1.07	2.16	3.20	2.08	2.61
36	2.32	2.12	2.74	1.09	2.18	1.10	1.08	2.74	1.11	0.54	0.53	2.16	2.66	2.08	1.05
37	2.32	2.12	1.10	0.55	1.09	1.10	1.08	1.10	0.56	1.08	0.53	1.62	2.66	4.15	2.09
38	4.65	0.53	0.55	0.55	0.54	1.64	0.54	0.55	2.78	1.62	0.53	1.08	0.53	3.12	1.05
39	3.48	0.53	1.64	0.00	0.54	0.55	0.00	0.00	2.78	2.71	0.00	1.62	1.07	1.04	0.52
40	1.16	1.59	1.64	1.09	1.09	0.00	0.00	1.10	0.56	1.62	0.00	0.54	2.13	0.00	0.52
41	2.32	1.59	0.55	2.18	0.54	0.00	0.54	1.65	0.56	0.54	1.07	0.54	1.07	0.00	0.52
42	1.74	1.06	1.10	1.09	0.00	0.00	0.54	0.55	0.56	0.54	1.07	0.54	0.00	1.04	1.05
43	0.58	0.53	1.10	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.52
44	0.58	0.00	0.00	0.55	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.58	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	0.58	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00
47	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.19. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for Central Derived from TDHS-2003

Age of mother at birth of child	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	0.54	4.32	1.63	0.55	0.54	1.62	1.06	0.00	1.06	0.00	0.00	1.64	0.52	0.00	0.00
16	2.71	7.02	3.80	3.30	1.09	4.85	2.64	2.59	3.71	4.74	1.08	3.28	1.04	0.00	3.07
17	4.34	5.94	8.15	7.69	5.98	7.01	6.87	5.69	6.37	7.37	4.86	4.92	6.79	4.68	6.66
18	5.97	7.02	13.04	12.63	10.32	9.16	10.57	8.79	9.55	10.00	9.17	7.11	13.06	5.72	7.68
19	12.48	9.18	11.95	15.38	13.04	9.70	7.93	6.72	13.80	11.58	13.49	6.02	14.63	6.24	7.17
20	17.90	10.80	11.95	18.13	13.59	9.70	9.51	7.76	11.67	10.00	11.33	9.30	13.58	13.52	8.20
21	18.44	14.58	11.41	15.38	13.59	15.09	12.16	8.79	6.37	6.84	8.09	13.68	12.02	15.60	14.85
22	16.27	12.96	10.32	10.44	12.50	16.17	9.51	10.34	11.67	5.79	11.87	16.41	12.54	12.48	15.37
23	15.73	10.26	8.69	10.44	9.78	9.70	12.68	17.06	21.23	8.42	12.95	12.58	14.63	9.36	13.32
24	14.10	15.66	7.60	8.79	11.96	11.86	11.63	14.99	21.23	10.52	14.57	6.56	14.11	7.28	14.34
25	9.22	17.28	11.41	7.14	9.78	13.47	4.76	9.82	11.14	12.63	17.27	11.49	15.15	7.80	9.22
26	11.93	11.34	11.41	8.24	8.69	7.01	5.81	6.72	6.90	11.58	16.73	19.69	11.49	9.36	5.63
27	12.48	10.80	10.32	9.89	11.96	5.93	7.40	9.31	6.90	7.37	12.95	15.86	8.36	6.76	5.12
28	7.59	10.26	9.23	7.69	13.04	8.62	10.04	9.31	6.37	4.74	7.55	9.85	9.93	4.68	6.15
29	5.97	6.48	5.43	7.14	9.78	8.08	10.04	6.20	6.90	10.00	5.40	9.30	8.88	5.72	6.66
30	6.51	5.40	3.26	8.24	8.15	5.39	4.23	7.76	6.37	10.00	6.48	6.02	8.36	7.80	4.61
31	4.88	6.48	6.52	5.49	7.06	4.85	4.23	10.34	5.84	5.79	6.48	4.92	6.27	5.72	3.59
32	3.80	7.02	5.98	3.84	5.43	7.01	4.76	7.76	4.78	5.26	6.48	4.38	2.61	2.08	2.05
33	7.59	4.86	2.17	3.30	4.89	5.39	5.81	4.65	3.71	5.26	6.48	2.74	0.00	4.16	1.54
34	6.51	3.78	2.72	1.65	1.63	2.69	5.81	2.59	2.65	2.63	5.94	2.74	2.09	5.20	2.05
35	4.88	2.70	2.72	2.20	1.09	2.69	3.17	0.00	2.12	0.00	4.86	2.19	3.66	2.08	2.56
36	3.25	2.70	1.09	1.65	2.72	1.62	2.11	1.03	1.59	3.16	3.24	0.00	2.09	2.60	1.54
37	1.08	1.62	0.54	0.55	2.72	0.54	0.53	1.55	2.12	5.79	2.70	2.19	1.57	3.12	1.02
38	1.63	1.08	2.17	1.10	1.09	0.00	1.59	1.55	1.59	4.74	1.08	3.28	2.61	0.52	1.54
39	1.63	1.08	2.17	0.55	0.54	0.00	2.11	1.55	0.53	2.10	0.00	1.64	1.57	0.00	0.51
40	1.08	0.00	0.54	0.55	0.54	1.62	1.06	2.07	0.00	0.00	1.08	0.55	0.52	0.00	0.00
41	1.08	0.54	0.00	0.55	0.00	1.62	0.53	2.07	0.00	0.53	1.62	1.09	1.04	0.00	0.00
42	0.54	0.54	1.09	0.55	0.00	0.00	0.00	0.52	0.00	0.53	0.54	1.09	0.52	0.00	0.00
43	0.00	0.00	1.09	1.65	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00
44	0.00	0.54	0.00	1.10	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00
45	0.00	0.54	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.00
46	0.00	0.00	0.54	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	1.04	0.52	0.00
47	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00
48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.20. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for North Derived from TDHS-2003

Age of mother at birth of child	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	0.58	0.60	0.55	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00
16	1.75	3.00	0.00	0.00	1.13	0.00	0.56	0.00	0.58	1.72	0.56	1.09	0.00	0.00	0.00
17	3.49	4.20	1.64	0.59	2.27	0.57	2.79	0.55	0.58	2.29	0.56	2.18	0.53	1.61	0.00
18	5.82	3.60	2.73	3.54	2.27	1.72	6.14	2.22	1.15	1.72	1.67	2.73	1.05	3.76	0.52
19	6.40	4.20	4.91	5.31	2.83	2.86	4.46	3.88	4.04	2.29	3.89	3.27	0.53	3.22	1.03
20	5.24	4.80	6.00	2.36	2.83	3.44	2.79	2.22	5.19	3.43	3.34	4.36	0.53	2.15	2.07
21	3.49	6.59	5.46	4.13	2.83	4.58	5.02	2.22	3.46	6.30	2.78	4.91	2.63	3.22	3.62
22	3.49	5.99	4.37	5.90	4.53	6.30	4.46	6.10	5.19	4.58	2.78	4.36	4.21	4.30	3.62
23	6.40	4.20	4.37	3.54	5.67	6.30	3.35	6.10	6.34	4.01	3.34	4.91	5.27	2.69	4.13
24	6.98	8.39	7.09	2.36	3.97	4.58	3.35	4.43	3.46	6.87	5.00	4.91	6.32	4.83	3.10
25	5.24	8.39	7.64	1.77	1.70	4.01	6.14	5.54	4.04	5.15	4.45	4.36	3.69	5.37	3.62
26	4.66	5.39	5.46	5.90	1.70	2.86	5.58	5.54	4.04	3.43	3.34	3.82	2.63	2.15	4.13
27	4.66	3.00	2.73	6.49	3.40	1.15	1.67	2.77	1.15	4.01	2.78	3.82	5.27	2.15	1.03
28	5.24	1.20	1.64	4.13	3.97	2.29	1.12	2.77	1.73	2.86	1.67	4.36	5.27	2.15	3.10
29	4.66	7.19	1.64	2.95	3.40	4.58	3.91	3.33	2.31	1.72	2.22	4.36	4.21	1.07	4.65
30	2.33	7.79	2.18	1.18	2.27	4.01	5.02	2.77	2.88	2.29	3.34	2.73	4.21	0.54	2.07
31	1.16	2.40	2.73	2.95	1.13	1.72	2.23	3.88	5.76	2.29	2.22	1.09	2.63	1.07	1.03
32	1.75	1.80	1.64	3.54	1.13	0.57	0.56	3.88	5.19	2.29	0.56	1.09	0.53	1.61	1.03
33	1.75	3.60	1.09	1.77	1.70	1.15	0.00	1.66	1.73	1.72	0.56	0.55	0.00	1.07	1.03
34	1.16	3.00	1.09	1.18	1.13	2.29	0.56	0.55	1.73	1.72	2.22	1.09	0.53	0.54	0.52
35	1.16	1.80	0.00	0.59	0.00	1.15	1.12	1.66	1.15	1.14	1.67	1.09	2.63	0.54	0.52
36	0.58	1.80	0.00	0.00	0.00	0.00	1.12	2.77	0.58	0.00	0.00	1.64	2.63	0.54	0.52
37	0.58	0.60	0.00	0.00	0.00	0.57	0.56	1.66	1.73	1.14	0.00	2.18	1.05	0.54	0.52
38	0.58	0.60	0.00	0.59	0.00	0.57	0.00	0.00	1.73	1.72	0.00	0.55	0.53	0.00	1.03
39	0.00	1.20	1.09	0.59	0.00	0.00	0.00	0.00	1.15	0.57	0.00	1.09	0.00	0.54	0.52
40	0.00	0.60	1.09	0.00	1.13	0.00	0.00	0.00	0.58	0.00	0.00	1.09	0.53	0.54	0.00
41	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.00	1.15	0.00	0.56	0.00	0.53	0.54	0.00
42	0.00	0.00	0.00	0.00	0.00	0.57	0.56	0.00	1.15	0.57	0.56	0.00	0.00	0.54	0.00
43	1.16	0.00	0.00	0.00	0.00	1.72	1.12	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00
44	1.16	0.00	0.00	0.59	0.00	1.15	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.21. Estimated Number of Births in Single Year Periods by Single Year Age of Mother for East Derived from TDHS-2003

Age of mother at birth of child	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	3.48	1.68	2.81	3.89	2.28	4.40	2.72	3.31	1.64	2.22	2.74	1.63	0.54	1.62	0.52
16	5.22	5.05	7.31	4.45	6.26	6.60	5.44	6.07	5.46	4.44	2.20	4.89	1.62	1.62	2.62
17	7.54	6.73	11.82	6.68	9.10	8.80	7.62	11.03	7.65	8.89	7.13	7.61	6.50	4.86	4.72
18	10.44	8.41	9.56	10.02	10.24	11.00	8.71	13.24	10.38	10.56	13.72	11.41	7.58	8.10	7.34
19	11.02	14.58	11.82	8.90	14.80	12.65	9.25	12.13	15.30	12.78	12.07	17.39	11.92	11.87	11.54
20	13.92	14.58	14.63	10.02	13.09	18.70	13.61	14.34	19.13	13.33	15.92	17.94	15.71	13.49	11.01
21	16.24	16.27	10.13	14.47	11.95	15.95	17.42	15.44	14.21	13.33	16.46	17.94	12.46	15.65	17.83
22	15.66	16.83	12.38	12.80	15.93	14.85	15.78	19.85	11.48	15.56	13.72	20.11	15.71	15.65	22.55
23	12.18	14.02	13.50	10.57	12.52	16.50	15.78	20.41	17.49	16.67	16.46	18.48	16.25	17.27	18.36
24	12.76	14.58	10.13	11.13	13.66	13.75	16.33	13.79	14.75	18.33	15.92	17.39	15.71	16.19	18.88
25	14.50	11.78	13.50	12.80	14.23	14.30	12.52	12.69	16.39	13.89	17.01	17.39	17.33	8.64	16.78
26	13.34	16.27	14.63	14.47	10.81	12.10	11.97	13.79	19.67	10.00	13.72	18.48	15.71	9.71	15.21
27	11.60	13.46	16.88	13.35	10.24	9.35	13.06	14.89	13.66	11.11	11.52	15.22	15.17	11.33	11.01
28	9.28	5.05	13.50	13.35	8.54	8.80	10.89	11.58	11.48	8.89	13.17	10.87	12.46	10.79	7.87
29	11.02	8.97	8.44	11.68	11.95	9.90	10.89	8.27	10.38	10.00	9.88	11.41	10.83	8.64	12.06
30	12.76	9.54	9.56	7.79	11.38	11.55	9.25	10.48	9.29	11.67	10.43	10.87	11.92	8.10	12.59
31	8.12	8.41	9.00	5.56	5.69	8.80	9.25	9.93	9.29	8.33	9.88	9.24	9.75	7.56	11.54
32	2.90	7.29	10.13	8.35	5.69	4.95	8.71	9.93	7.10	9.45	7.68	9.78	8.67	3.78	8.92
33	2.90	3.37	7.88	10.57	6.26	6.05	4.35	11.03	9.29	9.45	7.68	7.07	7.58	4.32	5.77
34	4.64	3.93	3.94	5.56	6.26	6.60	5.44	8.27	9.29	8.33	4.94	2.72	4.87	7.02	7.34
35	4.64	4.49	3.94	2.23	5.12	4.95	5.44	6.07	3.83	6.67	4.39	4.89	3.25	5.40	5.77
36	5.80	3.93	3.38	2.23	2.28	3.85	4.35	4.96	3.28	2.78	4.39	8.15	3.79	3.78	3.15
37	6.96	5.61	3.38	2.78	2.28	3.30	3.27	3.86	3.83	2.78	3.29	7.07	5.96	4.32	4.20
38	5.22	6.17	6.19	3.89	2.28	2.75	0.54	3.31	3.83	3.89	2.74	4.35	3.79	3.24	3.15
39	4.64	4.49	5.06	3.89	2.85	3.30	1.63	1.65	3.28	3.33	2.20	3.26	1.08	2.70	3.15
40	6.38	2.24	2.81	4.45	2.85	3.30	2.18	1.10	1.09	1.67	2.20	2.17	2.71	1.62	4.20
41	6.96	2.80	3.38	4.45	2.28	2.75	2.18	1.10	0.55	0.56	2.20	1.63	2.17	1.08	2.10
42	4.06	3.93	3.38	2.78	2.28	2.20	2.72	1.65	1.64	0.56	1.10	1.09	0.54	1.62	1.57
43	1.74	2.24	2.81	2.23	1.71	1.10	3.27	1.10	1.64	1.11	0.00	0.54	1.08	1.08	1.57
44	1.74	1.12	1.69	1.67	2.85	1.10	2.72	0.55	0.55	1.11	0.55	0.00	0.54	0.54	0.52
45	1.16	0.56	0.56	1.11	1.71	1.10	1.09	1.65	0.00	1.11	1.10	0.54	0.54	0.00	0.00
46	0.00	0.00	0.56	0.56	0.00	0.55	1.09	1.65	0.55	1.11	0.55	1.09	0.54	0.00	0.00
47	0.00	0.56	0.56	0.00	0.00	0.55	0.54	0.55	0.55	1.11	0.55	0.54	0.54	0.00	0.00
48	0.00	0.56	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.56	0.55	0.00	0.54	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX E

Table E.1. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for Urban Derived from TDHS-1993

Age of mother	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	195.03	176.29	202.35	195.25	213.85	228.24	224.48	240.27	235.56	235.25	234.84	255.23	291.42	298.57	283.66
16	189.47	194.08	175.43	201.36	194.30	212.80	227.13	223.39	239.10	234.41	234.11	233.69	253.98	289.99	297.12
17	158.50	190.87	195.51	176.72	202.84	195.73	214.37	228.80	225.03	240.86	236.14	235.83	235.41	255.85	292.13
18	202.25	159.48	192.05	196.72	177.81	204.10	196.94	215.70	230.22	226.42	242.35	237.60	237.29	236.87	257.43
19	197.05	199.56	157.36	189.49	194.10	175.45	201.38	194.32	212.83	227.15	223.41	239.13	234.44	234.13	233.72
20	176.25	198.19	200.72	158.28	190.60	195.23	176.47	202.55	195.46	214.07	228.48	224.71	240.52	235.81	235.50
21	164.10	175.65	197.52	200.04	157.74	189.95	194.57	175.88	201.87	194.80	213.34	227.71	223.96	239.71	235.01
22	141.78	163.60	175.13	196.93	199.44	157.27	189.39	193.99	175.35	201.27	194.21	212.71	227.03	223.29	238.99
23	157.81	142.39	164.31	175.88	197.78	200.30	157.95	190.20	194.83	176.11	202.13	195.05	213.62	228.00	224.25
24	147.95	156.25	140.97	162.68	174.13	195.82	198.31	156.38	188.31	192.89	174.36	200.13	193.11	211.50	225.74
25	155.43	148.57	156.90	141.56	163.36	174.86	196.63	199.14	157.03	189.10	193.70	175.08	200.96	193.92	212.38
26	145.49	154.91	148.07	156.37	141.09	162.81	174.27	195.97	198.47	156.50	188.46	193.04	174.49	200.28	193.27
27	117.34	145.11	154.51	147.69	155.97	140.72	162.39	173.82	195.47	197.96	156.10	187.98	192.55	174.05	199.77
28	146.87	117.73	145.59	155.01	148.17	156.48	141.18	162.92	174.39	196.11	198.60	156.61	188.59	193.18	174.61
29	125.15	145.57	116.68	144.29	153.63	146.85	155.08	139.92	161.47	172.84	194.36	196.84	155.21	186.91	191.45
30	109.63	125.56	146.04	117.06	144.76	154.13	147.33	155.59	140.38	161.99	173.40	194.99	197.47	155.72	187.52
31	107.53	109.97	125.94	146.48	117.41	145.20	154.60	147.78	156.06	140.81	162.48	173.93	195.58	198.08	156.19
32	87.31	106.72	109.14	124.99	145.38	116.53	144.10	153.44	146.66	154.88	139.75	161.26	172.62	194.11	196.58
33	95.82	87.15	106.53	108.94	124.76	145.12	116.32	143.84	153.16	146.40	154.60	139.49	160.97	172.30	193.76
34	74.14	95.65	87.01	106.35	108.76	124.55	144.87	116.12	143.60	152.90	146.15	154.34	139.26	160.70	172.01
35	89.65	74.05	95.55	86.91	106.23	108.64	124.42	144.71	115.99	143.44	152.73	145.99	154.17	139.10	160.52
36	116.09	89.60	74.01	95.50	86.86	106.17	108.58	124.35	144.63	115.93	143.36	152.65	145.91	154.09	139.03
37	105.83	115.02	88.77	73.33	94.62	86.06	105.20	107.58	123.20	143.30	114.86	142.05	151.25	144.57	152.67
38	122.53	105.91	115.11	88.84	73.39	94.69	86.13	105.28	107.66	123.30	143.41	114.95	142.16	151.36	144.68
39	105.56	122.16	105.59	114.76	88.57	73.17	94.40	85.87	104.96	107.33	122.92	142.98	114.60	141.72	150.90
40	115.29	105.36	121.93	105.39	114.54	88.40	73.03	94.22	85.71	104.76	107.13	122.69	142.71	114.39	141.45
41	108.46	115.15	105.22	121.77	105.25	114.39	88.29	72.93	94.10	85.59	104.63	106.99	122.53	142.52	114.24
42	70.23	108.03	114.69	104.80	121.29	104.83	113.94	87.94	72.64	93.73	85.26	104.21	106.57	122.05	141.96
43	71.69	69.82	107.41	114.03	104.20	120.59	104.23	113.28	87.43	72.23	93.19	84.76	103.61	105.95	121.34
44	59.82	71.61	69.74	107.29	113.90	104.08	120.45	104.11	113.15	87.33	72.14	93.08	84.67	103.49	105.83
45	120.65	59.64	71.41	69.54	106.98	113.57	103.78	120.10	103.81	112.83	87.08	71.94	92.82	84.42	103.19
46	110.69	120.14	59.39	71.10	69.24	106.52	113.08	103.34	119.59	103.36	112.34	86.71	71.63	92.42	84.06
47	45.05	110.14	119.54	59.09	70.75	68.90	105.99	112.52	102.82	118.99	102.85	111.78	86.28	71.27	91.96
48	58.71	44.80	109.54	118.89	58.77	70.36	68.52	105.41	111.91	102.26	118.34	102.29	111.17	85.81	70.88
49	54.86	58.51	44.65	109.17	118.48	58.57	70.12	68.29	105.05	111.52	101.91	117.94	101.94	110.79	85.51

Table E.2. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for Rural Derived from TDHS-1993

Age of mother	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	112.90	88.49	109.94	109.20	109.90	112.22	117.48	137.19	137.37	168.96	184.97	182.67	215.15	212.67	202.02
16	115.69	112.28	88.01	109.34	108.61	109.31	111.61	116.84	136.45	136.62	168.04	183.97	181.68	213.98	211.52
17	79.04	115.26	111.87	87.68	108.94	108.21	108.90	111.20	116.41	135.94	136.12	167.42	183.29	181.01	213.19
18	95.77	79.34	115.70	112.29	88.02	109.35	108.62	109.32	111.62	116.85	136.46	136.63	168.06	183.99	181.70
19	84.24	95.54	79.15	115.42	112.02	87.80	109.09	108.36	109.05	111.35	116.57	136.13	136.31	167.65	183.54
20	86.25	84.00	95.27	78.93	115.10	111.71	87.56	108.79	108.06	108.75	111.04	116.25	135.75	135.93	167.19
21	89.16	86.52	84.27	95.57	79.18	115.47	112.07	87.84	109.13	108.40	109.10	111.39	116.61	136.18	136.36
22	70.37	88.47	85.86	83.62	94.84	78.57	114.58	111.21	87.16	108.29	107.57	108.26	110.54	115.72	135.14
23	92.76	70.24	88.30	85.70	83.46	94.66	78.42	114.36	110.99	87.00	108.09	107.36	108.05	110.33	115.50
24	86.42	92.93	70.37	88.47	85.85	83.62	94.83	78.56	114.57	111.20	87.16	108.29	107.56	108.25	110.53
25	93.20	85.78	92.24	69.85	87.81	85.22	83.00	94.13	77.98	113.73	110.38	86.51	107.49	106.76	107.45
26	85.61	93.33	85.89	92.37	69.94	87.93	85.34	83.11	94.26	78.09	113.88	110.53	86.63	107.63	106.91
27	56.92	85.00	92.66	85.28	91.71	69.44	87.30	84.72	82.51	93.58	77.53	113.06	109.73	86.01	106.86
28	67.27	56.74	84.72	92.36	85.00	91.41	69.22	87.02	84.45	82.25	93.28	77.28	112.70	109.38	85.73
29	61.14	67.30	56.76	84.76	92.40	85.04	91.45	69.25	87.06	84.49	82.29	93.32	77.31	112.75	109.43
30	74.52	61.16	67.32	56.79	84.80	92.44	85.08	91.49	69.28	87.09	84.52	82.32	93.36	77.35	112.80
31	79.34	73.99	60.72	66.84	56.38	84.19	91.78	84.46	90.83	68.78	86.47	83.91	81.73	92.69	76.79
32	55.84	79.09	73.75	60.53	66.63	56.20	83.92	91.49	84.20	90.55	68.56	86.19	83.65	81.47	92.40
33	56.77	55.67	78.85	73.53	60.35	66.43	56.03	83.67	91.21	83.94	90.27	68.35	85.93	83.40	81.22
34	51.47	56.81	55.71	78.91	73.58	60.39	66.47	56.07	83.73	91.27	84.00	90.34	68.40	85.99	83.46
35	58.34	51.18	56.48	55.39	78.45	73.16	60.04	66.09	55.75	83.24	90.75	83.52	89.81	68.01	85.50
36	78.66	57.85	50.75	56.01	54.93	77.80	72.55	59.54	65.54	55.28	82.55	89.99	82.82	89.06	67.44
37	95.76	78.82	57.97	50.85	56.13	55.04	77.95	72.69	59.66	65.67	55.39	82.71	90.17	82.99	89.24
38	91.66	95.38	78.51	57.73	50.65	55.90	54.82	77.64	72.40	59.42	65.41	55.17	82.38	89.81	82.65
39	66.65	91.12	94.81	78.04	57.39	50.35	55.57	54.49	77.18	71.97	59.07	65.02	54.85	81.90	89.28
40	109.86	66.35	90.71	94.39	77.69	57.14	50.12	55.32	54.25	76.83	71.65	58.80	64.73	54.60	81.53
41	116.14	109.78	66.30	90.64	94.32	77.63	57.09	50.08	55.28	54.21	76.78	71.60	58.76	64.68	54.56
42	68.61	115.52	109.19	65.94	90.16	93.81	77.22	56.79	49.82	54.98	53.92	76.37	71.21	58.45	64.33
43	62.12	68.37	115.12	108.81	65.71	89.85	93.49	76.95	56.59	49.64	54.79	53.73	76.10	70.96	58.24
44	47.17	61.69	67.89	114.33	108.06	65.26	89.23	92.84	76.42	56.20	49.30	54.41	53.36	75.57	70.47
45	107.81	47.06	61.54	67.73	114.05	107.79	65.10	89.01	92.61	76.23	56.06	49.18	54.28	53.23	75.39
46	110.87	107.02	46.71	61.09	67.23	113.20	107.00	64.62	88.35	91.93	75.67	55.65	48.81	53.88	52.83
47	49.35	110.08	106.26	46.38	60.66	66.75	112.40	106.24	64.16	87.72	91.28	75.13	55.25	48.47	53.50
48	63.08	49.22	109.80	105.98	46.26	60.50	66.58	112.11	105.97	64.00	87.50	91.04	74.94	55.11	48.34
49	55.91	62.58	48.83	108.92	105.14	45.89	60.02	66.05	111.22	105.12	63.49	86.80	90.31	74.34	54.67

Table E.3. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for West Derived from TDHS-1993

Age of mother	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	96.74	88.85	118.04	118.90	110.39	108.89	120.20	126.62	124.07	119.18	109.57	128.32	151.19	143.11	130.65
16	101.57	96.16	88.31	117.33	118.18	109.72	108.23	119.47	125.85	123.32	118.46	108.90	127.55	150.28	142.24
17	82.04	101.05	95.67	87.86	116.73	117.58	109.16	107.68	118.86	125.22	122.69	117.85	108.35	126.90	149.51
18	106.37	81.69	100.62	95.26	87.48	116.23	117.07	108.69	107.22	118.35	124.68	122.16	117.35	107.89	126.35
19	113.28	108.05	82.99	102.21	96.77	88.87	118.07	118.93	110.41	108.92	120.23	126.65	124.10	119.21	109.60
20	110.73	111.76	106.60	81.87	100.84	95.47	87.68	116.49	117.33	108.93	107.46	118.61	124.95	122.43	117.61
21	110.47	110.36	111.39	106.24	81.60	100.50	95.15	87.38	116.10	116.94	108.57	107.09	118.21	124.53	122.02
22	87.82	110.97	110.85	111.89	106.72	81.96	100.95	95.57	87.77	116.61	117.46	109.05	107.57	118.74	125.09
23	91.57	88.17	111.41	111.30	112.33	107.14	82.29	101.35	95.96	88.12	117.08	117.93	109.49	108.00	119.22
24	83.33	90.57	87.21	110.19	110.08	111.11	105.97	81.39	100.24	94.91	87.16	115.80	116.64	108.29	106.82
25	78.85	83.61	90.88	87.51	110.57	110.46	111.49	106.34	81.67	100.59	95.23	87.46	116.20	117.04	108.66
26	81.89	79.10	83.88	91.17	87.79	110.92	110.81	111.84	106.67	81.93	100.91	95.54	87.74	116.57	117.41
27	77.40	81.07	78.30	83.03	90.25	86.90	109.80	109.69	110.71	105.60	81.10	99.89	94.57	86.85	115.39
28	90.43	77.65	81.33	78.56	83.30	90.54	87.18	110.15	110.04	111.07	105.94	81.36	100.21	94.87	87.13
29	72.40	89.60	76.93	80.57	77.83	82.53	89.70	86.37	109.14	109.03	110.04	104.96	80.61	99.28	94.00
30	59.53	72.60	89.84	77.13	80.79	78.04	82.75	89.94	86.61	109.43	109.32	110.34	105.24	80.83	99.55
31	63.74	59.71	72.82	90.11	77.37	81.04	78.28	83.00	90.22	86.87	109.76	109.65	110.67	105.56	81.07
32	62.92	63.21	59.21	72.21	89.36	76.72	80.36	77.62	82.31	89.46	86.14	108.85	108.74	109.75	104.68
33	62.99	62.79	63.09	59.10	72.07	89.19	76.57	80.21	77.47	82.15	89.29	85.98	108.64	108.53	109.54
34	50.39	62.87	62.68	62.97	58.99	71.94	89.03	76.44	80.06	77.33	82.00	89.13	85.82	108.44	108.33
35	57.10	50.31	62.77	62.58	62.87	58.89	71.82	88.88	76.31	79.93	77.20	81.86	88.98	85.68	108.26
36	68.86	57.06	50.27	62.73	62.54	62.83	58.85	71.77	88.82	76.26	79.88	77.15	81.81	88.92	85.62
37	71.87	68.82	57.03	50.25	62.69	62.50	62.79	58.82	71.73	88.77	76.22	79.83	77.11	81.77	88.87
38	77.24	71.57	68.54	56.79	50.04	62.43	62.24	62.53	58.58	71.43	88.40	75.90	79.50	76.79	81.43
39	63.77	76.98	71.33	68.31	56.60	49.87	62.22	62.03	62.32	58.38	71.19	88.11	75.64	79.23	76.53
40	69.49	63.63	76.81	71.18	68.16	56.48	49.76	62.09	61.90	62.18	58.25	71.04	87.91	75.48	79.06
41	63.65	69.11	63.28	76.39	70.79	67.79	56.17	49.49	61.75	61.56	61.84	57.93	70.65	87.43	75.07
42	46.01	63.86	69.34	63.49	76.65	71.03	68.01	56.36	49.65	61.95	61.77	62.05	58.13	70.89	87.73
43	51.52	45.72	63.45	68.90	63.09	76.16	70.58	67.58	56.00	49.34	61.56	61.37	61.66	57.76	70.44
44	43.72	51.28	45.49	63.15	68.57	62.79	75.79	70.24	67.25	55.73	49.10	61.26	61.08	61.36	57.48
45	80.11	43.71	51.27	45.49	63.14	68.56	62.78	75.79	70.23	67.25	55.72	49.10	61.26	61.07	61.36
46	77.97	79.53	43.40	50.90	45.16	62.68	68.06	62.33	75.24	69.72	66.76	55.32	48.74	60.81	60.63
47	35.52	77.74	79.30	43.27	50.75	45.03	62.50	67.86	62.14	75.01	69.51	66.56	55.15	48.60	60.63
48	44.51	35.40	77.47	79.02	43.12	50.57	44.87	62.28	67.63	61.93	74.76	69.27	66.33	54.97	48.43
49	44.28	44.23	35.18	76.98	78.53	42.85	50.26	44.59	61.89	67.20	61.54	74.29	68.84	65.92	54.62

Table E.4. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for South Derived from TDHS-1993

Age of mother	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	47.51	43.85	48.96	52.87	57.55	64.37	64.27	64.77	63.90	65.35	72.71	74.61	76.76	76.90	76.31
16	47.08	47.34	43.69	48.78	52.67	57.34	64.14	64.04	64.54	63.67	65.11	72.44	74.34	76.48	76.62
17	39.19	46.54	46.79	43.18	48.21	52.06	56.67	63.39	63.29	63.79	62.93	64.35	71.60	73.47	75.59
18	45.87	39.80	47.26	47.51	43.85	48.96	52.87	57.55	64.37	64.27	64.77	63.90	65.35	72.71	74.61
19	44.69	45.39	39.39	46.76	47.02	43.39	48.45	52.32	56.95	63.71	63.60	64.10	63.24	64.67	71.95
20	38.34	44.62	45.32	39.33	46.70	46.95	43.33	48.38	52.24	56.87	63.61	63.51	64.01	63.15	64.57
21	32.39	38.27	44.53	45.23	39.25	46.60	46.86	43.24	48.28	52.13	56.75	63.48	63.38	63.88	63.02
22	31.25	32.33	38.20	44.45	45.15	39.18	46.52	46.77	43.17	48.19	52.04	56.65	63.37	63.27	63.77
23	45.27	31.22	32.30	38.16	44.41	45.11	39.14	46.47	46.73	43.12	48.15	51.99	56.60	63.31	63.21
24	43.99	45.46	31.35	32.43	38.32	44.60	45.30	39.30	46.67	46.92	43.30	48.35	52.21	56.83	63.57
25	41.79	43.65	45.12	31.11	32.18	38.03	44.26	44.95	39.00	46.31	46.56	42.97	47.98	51.81	56.40
26	35.78	41.72	43.57	45.03	31.06	32.13	37.96	44.18	44.87	38.93	46.23	46.48	42.90	47.89	51.72
27	23.02	35.74	41.67	43.53	44.98	31.02	32.09	37.92	44.13	44.82	38.89	46.18	46.43	42.85	47.84
28	33.98	22.98	35.68	41.60	43.46	44.91	30.97	32.04	37.86	44.06	44.75	38.83	46.10	46.35	42.78
29	33.61	33.93	22.95	35.63	41.54	43.39	44.85	30.93	31.99	37.80	43.99	44.68	38.77	46.03	46.28
30	25.61	33.56	33.89	22.91	35.58	41.48	43.33	44.78	30.88	31.95	37.75	43.93	44.62	38.72	45.97
31	25.16	25.46	33.37	33.69	22.78	35.37	41.25	43.08	44.53	30.71	31.76	37.53	43.68	44.37	38.50
32	21.15	25.13	25.43	33.33	33.66	22.76	35.34	41.20	43.04	44.48	30.67	31.73	37.49	43.63	44.32
33	23.32	21.14	25.12	25.42	33.31	33.64	22.75	35.32	41.18	43.01	44.46	30.66	31.71	37.47	43.61
34	20.05	23.21	21.05	25.00	25.30	33.16	33.49	22.65	35.16	41.00	42.82	44.26	30.52	31.57	37.31
35	21.44	20.06	23.22	21.05	25.01	25.31	33.17	33.49	22.65	35.17	41.00	42.83	44.26	30.52	31.58
36	28.34	21.27	19.90	23.04	20.89	24.81	25.11	32.91	33.24	22.47	34.89	40.69	42.50	43.92	30.29
37	29.80	28.38	21.30	19.93	23.07	20.92	24.85	25.15	32.96	33.28	22.51	34.94	40.74	42.56	43.98
38	29.52	29.72	28.31	21.25	19.88	23.01	20.86	24.78	25.08	32.87	33.20	22.45	34.85	40.64	42.45
39	23.78	29.37	29.57	28.16	21.14	19.77	22.89	20.75	24.65	24.95	32.70	33.02	22.33	34.67	40.42
40	33.30	23.77	29.36	29.56	28.15	21.13	19.77	22.88	20.75	24.65	24.94	32.69	33.01	22.32	34.66
41	32.84	33.08	23.61	29.16	29.36	27.96	20.99	19.64	22.73	20.61	24.48	24.78	32.47	32.79	22.17
42	19.98	32.78	33.02	23.57	29.11	29.31	27.91	20.95	19.60	22.69	20.57	24.44	24.73	32.41	32.73
43	19.71	19.90	32.65	32.88	23.47	28.99	29.19	27.80	20.87	19.52	22.60	20.49	24.34	24.63	32.28
44	18.16	19.66	19.85	32.57	32.81	23.42	28.92	29.12	27.73	20.82	19.47	22.54	20.44	24.28	24.57
45	28.84	18.03	19.53	19.71	32.35	32.58	23.26	28.72	28.92	27.54	20.67	19.34	22.39	20.30	24.12
46	25.92	28.79	18.00	19.49	19.68	32.29	32.52	23.21	28.67	28.87	27.49	20.63	19.30	22.35	20.26
47	11.16	25.78	28.63	17.90	19.38	19.57	32.11	32.34	23.09	28.51	28.71	27.34	20.52	19.20	22.23
48	11.75	11.10	25.64	28.47	17.80	19.27	19.46	31.93	32.16	22.96	28.35	28.55	27.19	20.41	19.09
49	12.84	11.67	11.01	25.44	28.25	17.67	19.13	19.31	31.69	31.92	22.79	28.14	28.33	26.98	20.25

Table E.5. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for Central Derived from TDHS-1993

Age of mother	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	75.35	65.63	64.24	64.53	79.07	81.57	75.94	86.95	86.20	89.02	90.89	97.73	120.17	119.62	114.63
16	69.89	75.91	66.12	64.72	65.01	79.66	82.18	76.51	87.60	86.85	89.69	91.57	98.46	121.07	120.51
17	53.29	69.13	75.09	65.40	64.02	64.31	78.80	81.29	75.68	86.65	85.91	88.72	90.58	97.40	119.76
18	70.82	53.27	69.09	75.05	65.37	63.99	64.28	78.76	81.25	75.64	86.60	85.86	88.67	90.53	97.35
19	67.80	70.79	53.24	69.06	75.02	65.34	63.96	64.25	78.72	81.21	75.61	86.57	85.83	88.63	90.49
20	48.97	67.78	70.76	53.22	69.04	74.99	65.32	63.93	64.22	78.69	81.18	75.58	86.53	85.79	88.60
21	44.75	48.96	67.76	70.74	53.21	69.01	74.96	65.29	63.91	64.20	78.67	81.16	75.56	86.50	85.76
22	40.56	44.73	48.94	67.74	70.72	53.19	68.99	74.94	65.28	63.89	64.18	78.64	81.13	75.53	86.48
23	54.19	40.30	44.44	48.62	67.29	70.26	52.84	68.54	74.45	64.85	63.48	63.77	78.13	80.60	75.04
24	62.73	54.48	40.52	44.68	48.89	67.66	70.64	53.13	68.92	74.86	65.21	63.83	64.12	78.56	81.05
25	57.12	62.01	53.86	40.05	44.17	48.33	66.89	69.83	52.52	68.13	74.00	64.46	63.09	63.38	77.66
26	51.19	57.39	62.30	54.11	40.24	44.38	48.56	67.20	70.16	52.77	68.45	74.35	64.76	63.39	63.68
27	44.53	50.90	57.07	61.95	53.81	40.02	44.13	48.28	66.82	69.76	52.47	68.06	73.93	64.40	63.03
28	46.79	44.50	50.87	57.03	61.91	53.77	39.99	44.10	48.25	66.78	69.72	52.44	68.02	73.88	64.35
29	46.55	46.54	44.26	50.59	56.71	61.57	53.47	39.77	43.86	47.98	66.41	69.33	52.15	67.64	73.47
30	54.42	46.53	46.52	44.24	50.56	56.69	61.54	53.45	39.75	43.84	47.96	66.38	69.30	52.12	67.61
31	54.25	54.40	46.51	46.50	44.22	50.54	56.66	61.51	53.43	39.73	43.82	47.94	66.35	69.27	52.10
32	36.27	54.20	54.35	46.47	46.45	44.18	50.50	56.61	61.46	53.38	39.70	43.78	47.90	66.29	69.21
33	31.19	35.96	53.74	53.89	46.08	46.06	43.80	50.07	56.13	60.94	52.92	39.36	43.41	47.49	65.73
34	23.23	31.32	36.11	53.96	54.11	46.27	46.25	43.99	50.28	56.36	61.19	53.14	39.52	43.59	47.69
35	29.35	23.05	31.07	35.83	53.54	53.68	45.90	45.89	43.64	49.88	55.92	60.71	52.73	39.21	43.24
36	39.95	29.38	23.07	31.10	35.86	53.59	53.74	45.95	45.93	43.68	49.93	55.98	60.77	52.78	39.25
37	43.66	39.68	29.18	22.92	30.90	35.62	53.23	53.38	45.64	45.63	43.39	49.60	55.60	60.36	52.43
38	54.74	43.75	39.77	29.24	22.97	30.96	35.70	53.35	53.49	45.74	45.72	43.48	49.70	55.72	60.49
39	46.35	54.29	43.39	39.44	29.00	22.78	30.71	35.40	52.90	53.05	45.36	45.34	43.12	49.29	55.26
40	53.51	46.34	54.27	43.37	39.43	28.99	22.77	30.70	35.39	52.89	53.03	45.35	45.33	43.11	49.28
41	55.76	53.19	46.06	53.95	43.12	39.19	28.82	22.63	30.51	35.18	52.57	52.72	45.08	45.06	42.85
42	38.75	55.68	53.11	46.00	53.87	43.06	39.14	28.78	22.60	30.47	35.13	52.50	52.64	45.01	45.00
43	32.78	38.61	55.49	52.93	45.84	53.69	42.91	39.00	28.68	22.52	30.37	35.01	52.32	52.46	44.86
44	24.23	32.54	38.32	55.08	52.53	45.50	53.29	42.59	38.71	28.46	22.36	30.14	34.75	51.93	52.07
45	52.36	24.21	32.52	38.30	55.05	52.51	45.47	53.26	42.56	38.69	28.45	22.34	30.12	34.73	51.90
46	48.16	52.02	24.06	32.31	38.06	54.69	52.17	45.18	52.92	42.29	38.44	28.26	22.20	29.93	34.51
47	23.41	47.95	51.80	23.95	32.17	37.90	54.46	51.94	44.99	52.69	42.11	38.28	28.14	22.10	29.80
48	33.39	23.30	47.72	51.55	23.84	32.02	37.71	54.20	51.69	44.77	52.44	41.91	38.09	28.01	22.00
49	26.44	33.24	23.19	47.50	51.31	23.73	31.87	37.54	53.95	51.46	44.56	52.20	41.71	37.92	27.88

Table E.6. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for North Derived from TDHS-1993

Age of mother	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	30.81	27.75	30.89	27.63	30.49	29.23	28.94	37.55	34.51	34.12	39.73	37.56	40.64	44.89	41.34
16	28.93	31.32	28.21	31.40	28.08	30.99	29.72	29.42	38.17	35.08	34.68	40.39	38.18	41.32	45.63
17	24.64	28.82	31.20	28.10	31.28	27.98	30.87	29.60	29.31	38.02	34.95	34.55	40.23	38.03	41.16
18	27.34	24.56	28.72	31.10	28.01	31.17	27.88	30.77	29.51	29.21	37.90	34.84	34.44	40.10	37.91
19	21.24	27.26	24.49	28.64	31.01	27.93	31.08	27.80	30.68	29.42	29.13	37.79	34.73	34.34	39.98
20	19.98	21.17	27.17	24.41	28.54	30.91	27.84	30.98	27.71	30.58	29.32	29.03	37.66	34.62	34.22
21	22.88	20.08	21.28	27.31	24.53	28.69	31.07	27.98	31.14	27.85	30.74	29.47	29.18	37.86	34.80
22	25.96	22.65	19.88	21.07	27.03	24.29	28.40	30.75	27.70	30.83	27.57	30.43	29.18	28.89	37.48
23	28.91	26.07	22.74	19.97	21.16	27.15	24.39	28.52	30.89	27.82	30.96	27.69	30.56	29.30	29.01
24	21.94	28.82	25.99	22.67	19.90	21.09	27.06	24.32	28.43	30.79	27.73	30.86	27.60	30.47	29.21
25	20.58	22.01	28.91	26.08	22.75	19.97	21.16	27.16	24.40	28.53	30.90	27.82	30.97	27.70	30.57
26	17.99	20.39	21.81	28.65	25.85	22.54	19.79	20.97	26.91	24.18	28.27	30.62	27.57	30.69	27.45
27	12.90	18.05	20.46	21.89	28.75	25.93	22.62	19.86	21.04	27.00	24.26	28.37	30.72	27.67	30.79
28	17.80	12.87	18.01	20.41	21.83	28.68	25.87	22.56	19.81	20.99	26.93	24.20	28.30	30.64	27.59
29	13.41	17.65	12.76	17.86	20.24	21.66	28.44	25.66	22.38	19.65	20.82	26.71	24.00	28.07	30.39
30	12.95	13.46	17.71	12.81	17.92	20.31	21.73	28.54	25.74	22.46	19.71	20.89	26.80	24.08	28.16
31	15.33	12.86	13.36	17.58	12.71	17.79	20.16	21.57	28.33	25.55	22.29	19.57	20.73	26.60	23.90
32	11.11	15.38	12.90	13.40	17.64	12.75	17.85	20.23	21.64	28.42	25.64	22.36	19.63	20.80	26.69
33	16.98	11.04	15.28	12.82	13.32	17.52	12.67	17.73	20.10	21.50	28.24	25.47	22.22	19.50	20.67
34	16.17	17.05	11.08	15.34	12.86	13.36	17.59	12.72	17.80	20.17	21.58	28.34	25.56	22.30	19.58
35	9.96	16.08	16.95	11.02	15.25	12.79	13.29	17.49	12.65	17.70	20.06	21.46	28.19	25.42	22.18
36	15.03	9.96	16.08	16.95	11.02	15.25	12.79	13.29	17.49	12.65	17.70	20.06	21.46	28.18	25.42
37	18.26	15.04	9.96	16.09	16.96	11.03	15.26	12.80	13.30	17.50	12.65	17.71	20.07	21.47	28.20
38	17.95	18.13	14.92	9.89	15.96	16.83	10.94	15.14	12.70	13.20	17.37	12.56	17.57	19.92	21.30
39	13.60	17.91	18.09	14.89	9.87	15.93	16.80	10.92	15.11	12.68	13.17	17.33	12.53	17.54	19.88
40	19.43	13.53	17.82	18.00	14.82	9.82	15.85	16.71	10.87	15.04	12.61	13.10	17.24	12.47	17.45
41	21.10	19.42	13.53	17.82	17.99	14.81	9.81	15.85	16.71	10.86	15.03	12.61	13.10	17.24	12.47
42	10.92	20.97	19.30	13.44	17.70	17.88	14.72	9.75	15.75	16.60	10.80	14.94	12.53	13.02	17.13
43	13.39	10.94	21.01	19.34	13.47	17.74	17.91	14.75	9.77	15.78	16.63	10.82	14.97	12.55	13.04
44	11.73	13.26	10.84	20.81	19.15	13.34	17.57	17.74	14.61	9.68	15.63	16.48	10.71	14.82	12.43
45	23.91	11.71	13.24	10.82	20.78	19.13	13.32	17.54	17.72	14.59	9.66	15.60	16.45	10.70	14.80
46	23.94	23.84	11.68	13.20	10.79	20.71	19.06	13.28	17.49	17.66	14.54	9.63	15.55	16.40	10.66
47	8.14	23.85	23.75	11.63	13.15	10.75	20.64	19.00	13.23	17.42	17.60	14.49	9.60	15.50	16.34
48	12.02	8.09	23.69	23.59	11.56	13.06	10.68	20.50	18.87	13.14	17.30	17.48	14.39	9.53	15.39
49	12.52	11.97	8.05	23.59	23.49	11.51	13.01	10.64	20.42	18.79	13.09	17.24	17.41	14.33	9.50

Table E.7. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for East Derived from TDHS-1993

Age of mother	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	59.04	39.59	51.03	41.04	47.14	57.30	53.60	62.64	65.72	98.90	107.62	101.79	120.94	126.34	121.75
16	60.85	58.60	39.29	50.65	40.74	46.79	56.88	53.20	62.18	65.24	98.17	106.82	101.04	120.05	125.41
17	38.57	61.39	59.12	39.64	51.10	41.10	47.21	57.38	53.68	62.73	65.82	99.05	107.77	101.94	121.12
18	45.81	38.12	60.67	58.43	39.18	50.50	40.62	46.66	56.71	53.05	61.99	65.05	97.89	106.51	100.75
19	36.73	45.92	38.21	60.82	58.57	39.27	50.62	40.72	46.77	56.85	53.18	62.14	65.20	98.12	106.77
20	44.28	36.61	45.78	38.09	60.63	58.39	39.15	50.47	40.59	46.62	56.67	53.01	61.95	65.00	97.81
21	42.24	44.13	36.48	45.62	37.96	60.42	58.18	39.01	50.29	40.45	46.46	56.47	52.82	61.73	64.77
22	26.60	42.33	44.23	36.57	45.72	38.05	60.55	58.32	39.10	50.40	40.54	46.56	56.60	52.94	61.87
23	29.78	26.40	42.01	43.89	36.29	45.37	37.76	60.10	57.88	38.81	50.02	40.23	46.21	56.17	52.54
24	22.75	29.85	26.46	42.11	43.99	36.37	45.48	37.85	60.23	58.01	38.89	50.14	40.32	46.32	56.30
25	50.28	22.67	29.75	26.37	41.97	43.85	36.26	45.33	37.72	60.04	57.82	38.77	49.98	40.19	46.17
26	44.98	50.16	22.62	29.68	26.31	41.87	43.75	36.17	45.23	37.63	59.90	57.69	38.68	49.86	40.10
27	16.63	44.86	50.02	22.56	29.60	26.24	41.76	43.63	36.07	45.10	37.53	59.73	57.53	38.57	49.72
28	24.86	16.59	44.74	49.89	22.50	29.53	26.17	41.65	43.52	35.98	44.98	37.43	59.58	57.38	38.47
29	20.14	24.80	16.55	44.63	49.77	22.44	29.46	26.11	41.55	43.41	35.89	44.88	37.34	59.43	57.24
30	31.23	20.02	24.64	16.45	44.36	49.46	22.31	29.27	25.94	41.30	43.14	35.67	44.60	37.11	59.07
31	27.88	31.17	19.98	24.60	16.42	44.27	49.36	22.26	29.22	25.89	41.21	43.06	35.60	44.51	37.04
32	11.36	27.83	31.11	19.94	24.55	16.39	44.19	49.27	22.22	29.16	25.84	41.14	42.98	35.53	44.43
33	17.49	11.30	27.68	30.95	19.83	24.42	16.30	43.95	49.01	22.10	29.00	25.71	40.92	42.75	35.34
34	15.33	17.53	11.33	27.74	31.01	19.87	24.47	16.33	44.04	49.11	22.14	29.06	25.76	41.00	42.83
35	29.74	15.16	17.34	11.21	27.44	30.68	19.66	24.21	16.16	43.57	48.58	21.91	28.75	25.48	40.56
36	42.55	29.82	15.20	17.39	11.24	27.51	30.76	19.71	24.27	16.20	43.68	48.71	21.97	28.83	25.55
37	37.89	42.29	29.64	15.11	17.28	11.17	27.35	30.57	19.59	24.12	16.10	43.42	48.41	21.83	28.65
38	34.63	37.79	42.18	29.56	15.07	17.24	11.14	27.27	30.49	19.54	24.06	16.06	43.30	48.29	21.78
39	24.60	34.48	37.63	41.99	29.43	15.00	17.16	11.09	27.15	30.35	19.45	23.95	15.99	43.11	48.07
40	49.15	24.45	34.27	37.40	41.74	29.25	14.91	17.06	11.02	26.99	30.17	19.34	23.81	15.89	42.85
41	50.01	49.04	24.40	34.20	37.32	41.65	29.19	14.88	17.02	11.00	26.93	30.10	19.29	23.75	15.85
42	22.88	49.68	48.72	24.24	33.97	37.07	41.38	29.00	14.78	16.91	10.93	26.76	29.91	19.17	23.60
43	16.10	22.83	49.56	48.60	24.18	33.89	36.98	41.28	28.93	14.75	16.87	10.90	26.69	29.84	19.12
44	8.57	16.00	22.69	49.28	48.32	24.04	33.70	36.77	41.04	28.76	14.66	16.77	10.84	26.54	29.67
45	42.44	8.53	15.94	22.61	49.09	48.14	23.95	33.57	36.63	40.88	28.65	14.61	16.71	10.79	26.44
46	44.54	42.08	8.46	15.81	22.42	48.68	47.73	23.75	33.29	36.32	40.54	28.41	14.49	16.57	10.70
47	15.76	44.36	41.91	8.43	15.74	22.33	48.48	47.54	23.65	33.15	36.17	40.37	28.29	14.43	16.50
48	19.45	15.67	44.09	41.66	8.38	15.65	22.19	48.19	47.25	23.51	32.95	35.96	40.13	28.12	14.34
49	13.92	19.32	15.56	43.80	41.38	8.32	15.54	22.04	47.86	46.94	23.35	32.73	35.72	39.86	27.94

Table E.8. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for Urban Derived from TDHS-1998

Age of mother	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	200.04	200.62	206.43	225.39	229.40	235.55	243.90	229.64	225.74	234.73	225.28	248.99	254.40	239.82	232.78
16	170.99	193.98	194.54	200.18	218.56	222.45	228.41	236.51	222.68	218.90	227.61	218.45	241.44	246.69	232.55
17	165.57	174.80	198.30	198.87	204.63	223.43	227.40	233.49	241.77	227.63	223.77	232.68	223.31	246.81	252.18
18	187.34	161.62	170.63	193.56	194.12	199.75	218.10	221.97	227.92	236.01	222.20	218.43	227.13	217.99	240.93
19	181.11	188.36	162.50	171.55	194.62	195.18	200.83	219.28	223.18	229.16	237.29	223.41	219.62	228.36	219.17
20	160.24	182.08	189.37	163.37	172.47	195.66	196.23	201.91	220.46	224.37	230.39	238.56	224.61	220.80	229.58
21	154.54	159.16	180.85	188.09	162.27	171.31	194.34	194.90	200.55	218.97	222.86	228.83	236.95	223.09	219.31
22	166.24	155.17	159.81	181.59	188.86	162.93	172.01	195.14	195.70	201.37	219.87	223.77	229.77	237.92	224.01
23	179.51	165.28	154.28	158.89	180.55	187.77	161.99	171.02	194.01	194.57	200.21	218.60	222.48	228.45	236.55
24	151.05	180.18	165.89	154.85	159.48	181.22	188.47	162.60	171.66	194.73	195.29	200.95	219.41	223.31	229.29
25	134.49	151.55	180.78	166.44	155.37	160.01	181.82	189.10	163.14	172.23	195.38	195.94	201.62	220.14	224.05
26	129.76	133.75	150.72	179.78	165.53	154.51	159.13	180.82	188.06	162.24	171.28	194.30	194.87	200.51	218.93
27	122.22	129.11	133.08	149.96	178.88	164.70	153.74	158.33	179.91	187.11	161.42	170.42	193.33	193.89	199.51
28	144.29	122.61	129.52	133.51	150.45	179.46	165.23	154.23	158.84	180.49	187.72	161.95	170.97	193.95	194.51
29	137.98	143.64	122.06	128.94	132.91	149.77	178.65	164.48	153.53	158.12	179.67	186.87	161.21	170.19	193.07
30	132.18	137.40	143.03	121.55	128.40	132.35	149.14	177.90	163.79	152.89	157.46	178.92	186.09	160.54	169.48
31	125.67	132.59	137.83	143.48	121.92	128.79	132.76	149.60	178.45	164.30	153.36	157.95	179.47	186.66	161.03
32	95.33	125.18	132.08	137.30	142.92	121.45	128.30	132.25	149.02	177.76	163.66	152.77	157.34	178.78	185.94
33	107.47	95.65	125.60	132.52	137.76	143.40	121.86	128.73	132.69	149.52	178.36	164.21	153.29	157.87	179.38
34	100.24	106.48	94.77	124.44	131.30	136.49	142.08	120.74	127.54	131.47	148.14	176.71	162.70	151.87	156.41
35	77.74	100.62	106.89	95.13	124.92	131.80	137.00	142.62	121.19	128.03	131.97	148.71	177.38	163.32	152.45
36	87.78	77.57	100.40	106.65	94.92	124.64	131.51	136.70	142.31	120.93	127.74	131.68	148.38	176.99	162.96
37	78.38	87.64	77.45	100.24	106.48	94.77	124.44	131.30	136.49	142.08	120.74	127.54	131.47	148.14	176.71
38	78.47	77.93	87.13	77.00	99.66	105.87	94.23	123.73	130.54	135.70	141.26	120.04	126.80	130.71	147.29
39	83.83	78.44	77.91	87.11	76.98	99.63	105.83	94.20	123.69	130.50	135.66	141.22	120.00	126.77	130.67
40	89.50	83.88	78.49	77.95	87.15	77.02	99.68	105.89	94.25	123.75	130.57	135.73	141.29	120.07	126.83
41	90.65	88.83	83.25	77.89	77.36	86.50	76.44	98.93	105.09	93.54	122.82	129.59	134.71	140.23	119.16
42	65.39	90.45	88.64	83.06	77.72	77.19	86.31	76.27	98.71	104.86	93.33	122.55	129.30	134.41	139.92
43	63.00	65.56	90.69	88.87	83.29	77.93	77.40	86.54	76.48	98.98	105.14	93.58	122.88	129.65	134.77
44	69.39	62.50	65.05	89.98	88.18	82.63	77.32	76.79	85.86	75.87	98.20	104.32	92.85	121.92	128.63
45	84.43	69.25	62.37	64.91	89.79	87.99	82.46	77.16	76.63	85.68	75.71	97.99	104.09	92.65	121.66
46	67.34	84.30	69.14	62.27	64.81	89.65	87.85	82.33	77.04	76.51	85.54	75.60	97.84	103.94	92.51
47	37.58	66.96	83.82	68.75	61.92	64.44	89.14	87.36	81.87	76.60	76.08	85.06	75.17	97.29	103.35
48	50.60	37.43	66.70	83.49	68.48	61.68	64.19	88.79	87.01	81.54	76.30	75.78	84.73	74.87	96.91
49	49.92	50.49	37.35	66.55	83.30	68.32	61.54	64.04	88.59	86.82	81.36	76.13	75.61	84.54	74.70

Table E.9. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for Rural Derived from TDHS-1998

Age of mother	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	83.08	78.17	82.66	90.74	111.87	109.97	100.28	105.08	106.33	122.39	130.56	148.71	171.28	166.44	147.98
16	66.79	81.93	77.09	81.51	89.47	110.32	108.44	98.88	103.62	104.85	120.68	128.74	146.64	168.90	164.12
17	56.33	67.34	82.61	77.73	82.19	90.22	111.23	109.34	99.70	104.48	105.72	121.69	129.81	147.86	170.31
18	80.28	56.23	67.22	82.45	77.58	82.04	90.05	111.02	109.14	99.52	104.28	105.52	121.46	129.57	147.58
19	90.66	80.15	56.14	67.11	82.32	77.46	81.90	89.90	110.84	108.96	99.35	104.11	105.35	121.26	129.35
20	92.73	90.59	80.09	56.10	67.06	82.26	77.40	81.85	89.84	110.77	108.88	99.28	104.04	105.28	121.18
21	83.66	92.67	90.54	80.04	56.06	67.02	82.21	77.35	81.80	89.78	110.70	108.82	99.22	103.98	105.21
22	72.09	83.56	92.57	90.43	79.95	56.00	66.94	82.11	77.26	81.70	89.68	110.57	108.69	99.11	103.86
23	75.28	71.60	82.99	91.93	89.81	79.40	55.61	66.48	81.55	76.73	81.14	89.06	109.81	107.94	98.42
24	81.35	75.23	71.55	82.93	91.87	89.75	79.35	55.57	66.44	81.49	76.68	81.09	89.00	109.74	107.87
25	86.55	81.73	75.59	71.89	83.33	92.30	90.18	79.72	55.84	66.75	81.88	77.04	81.47	89.42	110.25
26	76.01	85.51	80.75	74.68	71.03	82.33	91.19	89.09	78.77	55.17	65.95	80.90	76.12	80.49	88.35
27	59.96	76.36	85.91	81.13	75.03	71.36	82.71	91.62	89.51	79.13	55.42	66.26	81.27	76.47	80.87
28	62.66	59.88	76.25	85.78	81.01	74.91	71.25	82.59	91.48	89.38	79.01	55.34	66.16	81.15	76.36
29	59.59	62.29	59.52	75.80	85.27	80.53	74.47	70.83	82.10	90.94	88.85	78.55	55.01	65.77	80.67
30	64.19	59.52	62.21	59.45	75.71	85.17	80.43	74.38	70.75	82.00	90.83	88.74	78.45	54.95	65.69
31	64.20	64.15	59.48	62.18	59.42	75.67	85.13	80.39	74.34	70.71	81.95	90.78	88.69	78.41	54.92
32	50.99	64.13	64.08	59.42	62.11	59.35	75.59	85.04	80.30	74.26	70.63	81.87	90.69	88.60	78.33
33	59.28	50.74	63.81	63.76	59.12	61.80	59.06	75.21	84.61	79.90	73.89	70.28	81.46	90.24	88.16
34	55.61	59.27	50.72	63.79	63.74	59.11	61.78	59.04	75.19	84.59	79.88	73.87	70.26	81.43	90.21
35	67.64	55.38	59.03	50.52	63.53	63.48	58.87	61.53	58.80	74.88	84.24	79.56	73.57	69.97	81.10
36	82.55	67.38	55.17	58.80	50.33	63.29	63.24	58.64	61.30	58.58	74.60	83.93	79.25	73.29	69.71
37	63.36	82.63	67.45	55.22	58.86	50.37	63.35	63.30	58.70	61.36	58.63	74.67	84.00	79.33	73.36
38	51.62	62.75	81.83	66.79	54.69	58.29	49.88	62.74	62.69	58.13	60.76	58.06	73.94	83.19	78.56
39	44.81	51.73	62.88	82.00	66.93	54.80	58.41	49.99	62.87	62.82	58.25	60.89	58.19	74.10	83.37
40	77.33	44.78	51.70	62.84	81.94	66.89	54.77	58.37	49.96	62.83	62.78	58.21	60.85	58.15	74.05
41	77.50	76.83	44.49	51.36	62.43	81.41	66.45	54.41	57.99	49.63	62.42	62.37	57.83	60.45	57.77
42	47.86	77.11	76.44	44.26	51.10	62.11	81.00	66.12	54.13	57.70	49.38	62.10	62.06	57.54	60.15
43	52.60	47.68	76.82	76.16	44.10	50.91	61.88	80.70	65.87	53.93	57.48	49.20	61.87	61.83	57.33
44	48.52	52.63	47.70	76.85	76.19	44.12	50.93	61.91	80.73	65.90	53.96	57.51	49.22	61.90	61.85
45	75.93	48.08	52.15	47.27	76.16	75.50	43.72	50.47	61.35	80.00	65.31	53.47	56.99	48.77	61.34
46	67.88	75.80	48.00	52.06	47.19	76.03	75.38	43.65	50.39	61.25	79.87	65.20	53.38	56.89	48.69
47	32.24	67.53	75.41	47.75	51.79	46.95	75.64	74.98	43.42	50.13	60.93	79.45	64.86	53.10	56.60
48	41.44	32.08	67.19	75.03	47.51	51.53	46.71	75.26	74.61	43.20	49.87	60.62	79.06	64.53	52.84
49	40.68	41.15	31.85	66.70	74.49	47.17	51.16	46.37	74.71	74.07	42.89	49.51	60.19	78.48	64.07

Table E.10. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for West Derived from TDHS-1998

Age of mother	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	109.48	111.36	111.02	117.37	114.14	125.94	135.04	128.04	121.95	120.85	113.72	133.78	129.26	113.28	119.24
16	99.21	109.99	111.89	111.55	117.93	114.68	126.53	135.68	128.64	122.52	121.42	114.26	134.41	129.87	113.82
17	104.74	101.42	112.45	114.39	114.04	120.56	117.24	129.36	138.70	131.51	125.26	124.13	116.81	137.41	132.77
18	112.60	103.32	100.04	110.92	112.83	112.48	118.92	115.64	127.60	136.82	129.72	123.55	122.44	115.22	135.54
19	111.38	113.02	103.70	100.41	111.33	113.24	112.90	119.36	116.07	128.06	137.32	130.20	124.01	122.89	115.64
20	92.78	110.22	111.84	102.62	99.36	110.17	112.07	111.72	118.11	114.86	126.73	135.89	128.85	122.72	121.61
21	84.61	93.12	110.62	112.25	102.99	99.72	110.57	112.47	112.13	118.54	115.28	127.19	136.38	129.31	123.16
22	97.45	83.88	92.31	109.67	111.28	102.10	98.86	109.61	111.50	111.16	117.52	114.28	126.09	135.21	128.20
23	104.28	98.94	85.16	93.72	111.34	112.98	103.66	100.37	111.29	113.21	112.86	119.31	116.03	128.02	137.27
24	79.85	102.31	97.07	83.55	91.95	109.24	110.84	101.71	98.48	109.18	111.07	110.73	117.06	113.84	125.60
25	69.50	80.16	102.71	97.45	83.88	92.31	109.67	111.28	102.10	98.86	109.61	111.50	111.16	117.52	114.28
26	69.43	69.70	80.40	103.01	97.74	84.12	92.58	109.99	111.60	102.40	99.15	109.93	111.83	111.48	117.86
27	64.57	68.99	69.27	79.90	102.37	97.13	83.60	92.01	109.30	110.91	101.77	98.53	109.25	111.13	110.79
28	83.01	64.75	69.19	69.46	80.12	102.65	97.40	83.83	92.26	109.61	111.22	102.05	98.81	109.55	111.44
29	86.14	82.55	64.39	68.81	69.08	79.68	102.09	96.87	83.37	91.75	109.00	110.60	101.49	98.26	108.95
30	74.35	86.37	82.77	64.56	68.99	69.26	79.89	102.36	97.12	83.59	92.00	109.29	110.90	101.76	98.53
31	78.37	74.57	86.62	83.02	64.75	69.19	69.47	80.12	102.66	97.41	83.84	92.27	109.62	111.23	102.06
32	67.38	78.02	74.24	86.24	82.65	64.47	68.89	69.16	79.77	102.21	96.98	83.47	91.87	109.14	110.74
33	63.76	67.08	77.67	73.91	85.86	82.28	64.18	68.58	68.85	79.42	101.75	96.55	83.10	91.45	108.65
34	63.47	63.96	67.30	77.93	74.15	86.14	82.55	64.39	68.81	69.08	79.68	102.09	96.87	83.37	91.75
35	52.74	63.27	63.76	67.08	77.68	73.91	85.87	82.29	64.19	68.59	68.86	79.42	101.76	96.56	83.10
36	58.52	52.59	63.09	63.58	66.89	77.46	73.70	85.62	82.05	64.00	68.39	68.66	79.19	101.47	96.28
37	48.63	58.42	52.50	62.98	63.46	66.77	77.32	73.57	85.47	81.91	63.89	68.27	68.54	79.05	101.29
38	45.10	48.55	58.33	52.41	62.88	63.36	66.66	77.20	73.45	85.33	81.78	63.79	68.16	68.43	78.93
39	50.16	44.81	48.24	57.95	52.08	62.48	62.96	66.24	76.70	72.98	84.79	81.26	63.38	67.73	67.99
40	63.40	50.16	44.82	48.25	57.96	52.09	62.49	62.97	66.25	76.72	72.99	84.80	81.27	63.39	67.74
41	69.35	63.44	50.19	44.84	48.27	57.99	52.11	62.52	63.00	66.28	76.76	73.03	84.84	81.31	63.42
42	51.56	69.09	63.20	50.01	44.68	48.09	57.78	51.92	62.29	62.77	66.04	76.47	72.77	84.53	81.01
43	48.65	51.44	68.94	63.07	49.90	44.58	47.99	57.65	51.81	62.15	62.63	65.90	76.31	72.61	84.35
44	47.24	48.40	51.18	68.59	62.74	49.64	44.35	47.74	57.36	51.54	61.84	62.31	65.56	75.92	72.24
45	51.00	47.24	48.39	51.17	68.58	62.73	49.63	44.34	47.74	57.35	51.54	61.83	62.30	65.55	75.90
46	40.67	50.87	47.11	48.27	51.04	68.40	62.57	49.50	44.23	47.61	57.20	51.40	61.67	62.14	65.38
47	23.81	40.49	50.64	46.90	48.05	50.81	68.09	62.29	49.28	44.03	47.40	56.94	51.17	61.39	61.86
48	31.96	23.68	40.26	50.36	46.64	47.78	50.53	67.72	61.95	49.01	43.79	47.14	56.63	50.89	61.05
49	32.25	31.92	23.65	40.21	50.30	46.58	47.72	50.46	67.63	61.87	48.95	43.73	47.08	56.56	50.82

Table E.11. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for South Derived from TDHS-1998

Age of mother	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	38.61	37.01	40.76	46.10	50.53	46.55	47.04	44.92	42.80	52.16	56.25	62.47	66.18	58.58	52.85
16	32.33	38.01	36.45	40.13	45.39	49.75	45.83	46.32	44.23	42.15	51.36	55.39	61.51	65.17	57.68
17	27.69	32.49	38.20	36.63	40.33	45.62	50.00	46.06	46.55	44.45	42.36	51.61	55.66	61.81	65.49
18	34.91	27.83	32.65	38.39	36.81	40.53	45.84	50.25	46.29	46.78	44.67	42.57	51.87	55.94	62.12
19	41.83	34.54	27.53	32.30	37.98	36.42	40.10	45.35	49.71	45.79	46.28	44.20	42.11	51.32	55.34
20	44.36	42.06	34.73	27.68	32.48	38.18	36.61	40.31	45.60	49.98	46.04	46.53	44.43	42.34	51.59
21	38.82	44.01	41.72	34.45	27.46	32.22	37.88	36.32	39.99	45.23	49.58	45.67	46.16	44.08	42.00
22	35.91	38.98	44.19	41.90	34.59	27.57	32.35	38.04	36.47	40.16	45.42	49.78	45.86	46.35	44.26
23	39.25	36.06	39.14	44.38	42.07	34.74	27.69	32.49	38.20	36.62	40.32	45.61	49.99	46.05	46.54
24	33.73	38.60	35.47	38.50	43.64	41.38	34.16	27.23	31.95	37.57	36.02	39.66	44.86	49.17	45.29
25	27.96	34.19	39.12	35.94	39.02	44.23	41.94	34.63	27.60	32.38	38.07	36.50	40.19	45.46	49.83
26	30.24	27.79	33.98	38.88	35.73	38.78	43.96	41.68	34.41	27.43	32.19	37.84	36.28	39.95	45.19
27	32.06	30.34	27.88	34.08	39.00	35.84	38.90	44.10	41.81	34.52	27.51	32.29	37.96	36.39	40.07
28	32.35	31.64	29.94	27.51	33.64	38.49	35.37	38.39	43.52	41.26	34.07	27.15	31.86	37.46	35.92
29	24.46	32.46	31.74	30.04	27.60	33.75	38.62	35.48	38.52	43.67	41.40	34.18	27.24	31.97	37.59
30	29.46	24.54	32.55	31.84	30.13	27.69	33.85	38.74	35.59	38.63	43.80	41.52	34.28	27.33	32.06
31	32.40	29.12	24.25	32.17	31.46	29.78	27.36	33.45	38.28	35.17	38.18	43.29	41.04	33.88	27.01
32	23.49	32.73	29.41	24.49	32.50	31.78	30.08	27.64	33.79	38.67	35.53	38.57	43.72	41.45	34.23
33	25.57	23.39	32.60	29.29	24.39	32.37	31.65	29.95	27.53	33.65	38.51	35.39	38.41	43.55	41.28
34	22.04	25.49	23.31	32.49	29.20	24.31	32.26	31.55	29.86	27.44	33.54	38.38	35.27	38.28	43.40
35	17.15	22.11	25.57	23.39	32.59	29.29	24.39	32.36	31.65	29.95	27.52	33.65	38.50	35.38	38.40
36	18.55	17.11	22.05	25.50	23.32	32.50	29.21	24.32	32.27	31.56	29.87	27.45	33.56	38.40	35.28
37	16.41	18.41	16.98	21.88	25.30	23.15	32.25	28.99	24.14	32.03	31.32	29.64	27.24	33.30	38.11
38	15.01	16.39	18.39	16.96	21.86	25.27	23.12	32.22	28.95	24.11	31.99	31.29	29.61	27.21	33.26
39	18.21	15.08	16.46	18.47	17.03	21.95	25.38	23.21	32.35	29.07	24.21	32.12	31.41	29.73	27.32
40	25.25	18.11	15.00	16.37	18.37	16.94	21.83	25.24	23.09	32.18	28.92	24.08	31.95	31.25	29.57
41	22.02	25.15	18.04	14.94	16.31	18.29	16.87	21.74	25.14	23.00	32.05	28.80	23.98	31.82	31.12
42	12.93	22.04	25.18	18.06	14.95	16.33	18.32	16.89	21.77	25.17	23.02	32.09	28.84	24.01	31.86
43	13.16	12.84	21.90	25.02	17.94	14.86	16.22	18.20	16.78	21.63	25.01	22.88	31.88	28.65	23.86
44	13.27	13.14	12.83	21.87	24.99	17.92	14.84	16.20	18.18	16.76	21.60	24.98	22.85	31.84	28.62
45	18.51	13.22	13.09	12.78	21.80	24.90	17.86	14.79	16.14	18.11	16.70	21.52	24.89	22.77	31.73
46	16.02	18.47	13.19	13.06	12.76	21.75	24.85	17.82	14.75	16.11	18.07	16.66	21.48	24.84	22.72
47	9.34	15.95	18.39	13.13	13.01	12.70	21.65	24.74	17.74	14.69	16.04	17.99	16.59	21.38	24.73
48	14.05	9.30	15.87	18.30	13.06	12.94	12.63	21.54	24.61	17.65	14.62	15.96	17.90	16.51	21.27
49	12.63	14.00	9.26	15.81	18.23	13.02	12.90	12.59	21.47	24.53	17.59	14.56	15.90	17.84	16.45

Table E.12. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for Central Derived from TDHS-1998

Age of mother	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	61.70	67.45	67.93	78.92	85.07	76.55	72.10	70.62	79.68	82.59	78.38	85.85	90.30	88.83	84.06
16	50.46	61.22	66.92	67.40	78.30	84.40	75.95	71.53	70.06	79.05	81.94	77.77	85.17	89.59	88.13
17	43.35	50.73	61.54	67.27	67.75	78.71	84.85	76.35	71.91	70.43	79.47	82.37	78.18	85.62	90.06
18	61.44	43.06	50.39	61.13	66.82	67.30	78.18	84.28	75.84	71.42	69.95	78.94	81.82	77.65	85.05
19	64.24	62.39	43.72	51.16	62.07	67.85	68.33	79.38	85.57	77.01	72.52	71.03	80.15	83.08	78.85
20	54.35	63.24	61.42	43.04	50.36	61.10	66.79	67.27	78.14	84.24	75.80	71.39	69.93	78.90	81.79
21	52.57	54.58	63.51	61.67	43.22	50.58	61.36	67.07	67.55	78.47	84.60	76.12	71.69	70.22	79.23
22	50.33	52.29	54.30	63.18	61.35	43.00	50.31	61.04	66.72	67.20	78.07	84.16	75.73	71.32	69.86
23	61.88	50.52	52.50	54.51	63.42	61.59	43.17	50.51	61.28	66.98	67.46	78.37	84.48	76.02	71.60
24	67.48	62.10	50.70	52.68	54.70	63.64	61.81	43.32	50.68	61.49	67.21	67.70	78.64	84.78	76.29
25	64.97	66.65	61.33	50.07	52.03	54.02	62.85	61.04	42.78	50.06	60.73	66.38	66.86	77.67	83.73
26	55.18	65.20	66.89	61.55	50.25	52.22	54.21	63.08	61.26	42.93	50.24	60.95	66.62	67.10	77.95
27	48.21	54.96	64.95	66.63	61.31	50.06	52.01	54.00	62.83	61.02	42.77	50.04	60.71	66.36	66.84
28	51.02	48.04	54.76	64.71	66.38	61.09	49.88	51.82	53.81	62.61	60.80	42.61	49.86	60.49	66.12
29	47.75	51.51	48.50	55.29	65.33	67.02	61.68	50.36	52.32	54.32	63.21	61.38	43.02	50.34	61.07
30	43.71	47.27	50.99	48.01	54.73	64.68	66.35	61.06	49.85	51.79	53.78	62.57	60.77	42.59	49.83
31	38.39	43.60	47.15	50.86	47.89	54.59	64.51	66.18	60.90	49.72	51.66	53.64	62.41	60.61	42.48
32	31.62	38.52	43.73	47.30	51.02	48.04	54.76	64.71	66.38	61.09	49.88	51.82	53.81	62.61	60.80
33	41.67	31.55	38.42	43.63	47.18	50.89	47.92	54.63	64.56	66.22	60.94	49.76	51.70	53.68	62.46
34	36.25	41.60	31.49	38.35	43.55	47.10	50.80	47.84	54.53	64.44	66.11	60.83	49.67	51.61	53.58
35	29.83	36.00	41.31	31.27	38.08	43.24	46.77	50.45	47.50	54.15	63.99	65.64	60.41	49.32	51.24
36	39.44	29.96	36.16	41.49	31.41	38.25	43.43	46.97	50.67	47.71	54.39	64.27	65.93	60.67	49.53
37	35.15	39.23	29.80	35.96	41.26	31.24	38.04	43.20	46.72	50.39	47.45	54.09	63.92	65.57	60.34
38	36.14	35.15	39.23	29.81	35.97	41.27	31.24	38.05	43.20	46.72	50.40	47.46	54.10	63.93	65.58
39	34.78	36.00	35.02	39.08	29.69	35.83	41.11	31.12	37.90	43.04	46.54	50.20	47.27	53.89	63.68
40	36.32	34.69	35.90	34.92	38.98	29.61	35.73	41.00	31.04	37.80	42.92	46.42	50.07	47.14	53.74
41	31.65	36.11	34.49	35.70	34.73	38.76	29.44	35.53	40.77	30.86	37.59	42.68	46.15	49.79	46.88
42	22.07	31.50	35.95	34.33	35.54	34.56	38.58	29.31	35.36	40.58	30.72	37.41	42.48	45.94	49.56
43	28.32	22.08	31.51	35.96	34.34	35.55	34.57	38.59	29.32	35.37	40.59	30.73	37.42	42.49	45.96
44	33.90	28.26	22.03	31.45	35.88	34.28	35.48	34.51	38.51	29.26	35.30	40.51	30.67	37.35	42.41
45	48.26	33.76	28.14	21.94	31.32	35.73	34.13	35.33	34.36	38.35	29.13	35.16	40.34	30.54	37.19
46	40.85	48.13	33.67	28.07	21.88	31.23	35.64	34.04	35.23	34.27	38.25	29.06	35.06	40.23	30.46
47	21.69	40.69	47.95	33.55	27.97	21.80	31.12	35.51	33.91	35.10	34.14	38.10	28.95	34.93	40.08
48	26.02	21.54	40.41	47.61	33.31	27.77	21.65	30.90	35.26	33.68	34.86	33.90	37.84	28.74	34.69
49	24.91	25.95	21.48	40.30	47.48	33.22	27.69	21.59	30.81	35.16	33.58	34.76	33.81	37.73	28.66

Table E.13. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for North Derived from TDHS-1998

Age of mother	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	26.41	23.87	22.11	19.59	25.01	25.83	21.55	20.49	22.94	27.23	27.05	24.40	29.90	35.64	31.99
16	22.76	26.25	23.73	21.98	19.48	24.86	25.68	21.42	20.37	22.80	27.07	26.89	24.25	29.72	35.43
17	19.18	23.21	26.77	24.20	22.41	19.86	25.35	26.19	21.85	20.77	23.25	27.61	27.42	24.73	30.31
18	22.86	18.89	22.86	26.37	23.84	22.08	19.56	24.97	25.79	21.52	20.46	22.90	27.19	27.01	24.36
19	23.03	22.81	18.86	22.81	26.32	23.79	22.03	19.52	24.92	25.74	21.48	20.42	22.86	27.14	26.96
20	22.76	23.18	22.96	18.98	22.97	26.49	23.95	22.18	19.65	25.09	25.91	21.62	20.55	23.01	27.32
21	20.93	22.53	22.94	22.72	18.78	22.73	26.21	23.70	21.95	19.45	24.83	25.64	21.39	20.34	22.77
22	18.82	21.06	22.66	23.08	22.86	18.90	22.86	26.37	23.84	22.08	19.57	24.98	25.80	21.52	20.46
23	17.90	18.78	21.02	22.61	23.03	22.81	18.86	22.81	26.32	23.79	22.03	19.52	24.92	25.74	21.48
24	20.60	17.87	18.74	20.98	22.57	22.99	22.77	18.82	22.77	26.27	23.75	21.99	19.49	24.88	25.69
25	20.25	20.43	17.72	18.59	20.80	22.38	22.80	22.58	18.67	22.58	26.05	23.55	21.81	19.33	24.67
26	16.43	20.34	20.52	17.80	18.67	20.90	22.49	22.90	22.68	18.75	22.69	26.17	23.66	21.91	19.42
27	15.06	16.40	20.29	20.47	17.76	18.63	20.85	22.43	22.85	22.63	18.71	22.63	26.11	23.60	21.86
28	18.60	15.02	16.36	20.25	20.43	17.72	18.59	20.80	22.38	22.80	22.58	18.66	22.58	26.05	23.55
29	20.65	18.47	14.92	16.24	20.10	20.28	17.59	18.45	20.65	22.22	22.63	22.42	18.53	22.42	25.86
30	17.58	20.71	18.53	14.96	16.29	20.17	20.34	17.65	18.51	20.72	22.29	22.71	22.49	18.59	22.49
31	13.04	17.64	20.78	18.59	15.02	16.35	20.24	20.42	17.71	18.58	20.79	22.37	22.78	22.57	18.65
32	12.54	12.95	17.52	20.64	18.46	14.91	16.24	20.10	20.27	17.58	18.45	20.65	22.22	22.63	22.41
33	15.53	12.52	12.93	17.49	20.61	18.43	14.89	16.21	20.06	20.24	17.56	18.42	20.61	22.18	22.59
34	16.42	15.44	12.45	12.86	17.39	20.49	18.33	14.80	16.12	19.95	20.12	17.45	18.31	20.49	22.05
35	15.47	16.40	15.43	12.44	12.85	17.37	20.47	18.31	14.79	16.10	19.93	20.11	17.44	18.30	20.48
36	14.87	15.46	16.40	15.42	12.44	12.84	17.37	20.46	18.31	14.78	16.10	19.93	20.10	17.44	18.29
37	13.80	14.75	15.33	16.26	15.29	12.33	12.73	17.22	20.29	18.15	14.66	15.96	19.76	19.93	17.29
38	10.90	13.82	14.76	15.35	16.28	15.31	12.34	12.75	17.24	20.31	18.17	14.67	15.98	19.78	19.95
39	8.27	10.82	13.73	14.66	15.25	16.17	15.21	12.26	12.66	17.13	20.18	18.05	14.58	15.87	19.65
40	10.68	8.32	10.89	13.81	14.75	15.34	16.26	15.30	12.33	12.74	17.23	20.30	18.16	14.66	15.97
41	11.29	10.56	8.23	10.76	13.65	14.58	15.16	16.07	15.12	12.19	12.59	17.03	20.06	17.94	14.49
42	9.85	11.33	10.60	8.26	10.80	13.70	14.63	15.21	16.14	15.18	12.24	12.64	17.09	20.13	18.01
43	10.16	9.76	11.24	10.51	8.19	10.71	13.58	14.51	15.08	16.00	15.05	12.13	12.53	16.94	19.96
44	9.79	10.15	9.76	11.23	10.50	8.18	10.70	13.57	14.50	15.07	15.99	15.04	12.12	12.52	16.93
45	16.04	9.76	10.13	9.73	11.20	10.48	8.16	10.68	13.54	14.46	15.04	15.95	15.00	12.10	12.49
46	13.07	15.94	9.70	10.07	9.67	11.14	10.41	8.11	10.61	13.46	14.38	14.95	15.85	14.91	12.02
47	6.58	13.02	15.87	9.66	10.03	9.63	11.09	10.37	8.08	10.57	13.40	14.31	14.88	15.78	14.85
48	9.05	6.55	12.96	15.80	9.62	9.98	9.59	11.04	10.32	8.04	10.52	13.34	14.25	14.81	15.71
49	9.55	9.01	6.52	12.89	15.72	9.57	9.93	9.54	10.98	10.27	8.00	10.47	13.27	14.18	14.74

Table E.14. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for East Derived from TDHS-1998

Age of mother	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	40.77	33.94	42.11	47.82	61.05	65.64	60.58	63.40	58.80	67.89	73.70	81.38	101.73	102.70	87.71
16	33.42	41.07	34.18	42.41	48.16	61.49	66.11	61.01	63.86	59.22	68.38	74.23	81.96	102.46	103.44
17	26.08	33.08	40.65	33.83	41.98	47.67	60.86	65.43	60.39	63.20	58.62	67.68	73.47	81.12	101.42
18	37.92	26.27	33.32	40.95	34.08	42.28	48.02	61.30	65.91	60.83	63.67	59.05	68.18	74.01	81.72
19	32.75	37.61	26.06	33.05	40.61	33.80	41.94	47.63	60.80	65.37	60.34	63.15	58.57	67.62	73.40
20	37.38	32.74	37.60	26.05	33.04	40.60	33.79	41.92	47.61	60.78	65.35	60.32	63.13	58.55	67.60
21	41.54	37.40	32.75	37.61	26.06	33.05	40.61	33.80	41.94	47.63	60.80	65.37	60.34	63.15	58.57
22	34.72	41.27	37.15	32.54	37.37	25.89	32.83	40.35	33.58	41.67	47.31	60.41	64.95	59.94	62.74
23	33.52	34.92	41.51	37.37	32.73	37.59	26.04	33.03	40.59	33.78	41.91	47.60	60.77	65.33	60.30
24	29.60	33.32	34.72	41.27	37.15	32.54	37.37	25.89	32.83	40.35	33.58	41.67	47.31	60.41	64.95
25	36.99	29.60	33.32	34.72	41.27	37.15	32.54	37.37	25.89	32.83	40.35	33.58	41.67	47.31	60.41
26	34.81	36.80	29.45	33.15	34.54	41.05	36.96	32.37	37.17	25.75	32.66	40.14	33.41	41.45	47.07
27	21.74	34.64	36.62	29.30	32.99	34.37	40.85	36.78	32.21	36.99	25.63	32.51	39.94	33.25	41.25
28	20.96	21.84	34.80	36.80	29.44	33.14	34.53	41.04	36.95	32.37	37.17	25.75	32.66	40.13	33.40
29	18.54	20.76	21.64	34.49	36.46	29.17	32.84	34.21	40.67	36.62	32.07	36.83	25.51	32.36	39.76
30	31.63	18.62	20.86	21.74	34.64	36.62	29.30	32.99	34.37	40.85	36.78	32.21	36.99	25.63	32.51
31	27.11	31.50	18.55	20.77	21.65	34.50	36.48	29.19	32.86	34.23	40.69	36.63	32.08	36.84	25.52
32	11.11	27.01	31.38	18.48	20.70	21.57	34.37	36.34	29.08	32.73	34.10	40.53	36.49	31.96	36.70
33	19.59	11.07	26.93	31.29	18.42	20.63	21.50	34.27	36.23	28.99	32.63	34.00	40.41	36.38	31.87
34	17.91	19.52	11.04	26.84	31.18	18.36	20.56	21.43	34.15	36.11	28.89	32.52	33.88	40.28	36.26
35	29.85	17.87	19.48	11.01	26.78	31.12	18.32	20.52	21.38	34.08	36.03	28.83	32.46	33.81	40.19
36	38.81	29.68	17.77	19.37	10.95	26.63	30.94	18.22	20.40	21.26	33.89	35.83	28.67	32.27	33.62
37	27.11	38.75	29.63	17.74	19.33	10.93	26.59	30.89	18.19	20.37	21.23	33.83	35.77	28.62	32.22
38	23.12	27.10	38.72	29.61	17.73	19.32	10.92	26.57	30.87	18.18	20.36	21.21	33.81	35.74	28.60
39	16.71	22.97	26.91	38.46	29.41	17.61	19.19	10.85	26.39	30.66	18.05	20.22	21.07	33.58	35.50
40	30.24	16.73	22.98	26.93	38.49	29.43	17.62	19.20	10.86	26.41	30.68	18.06	20.23	21.08	33.60
41	33.42	30.00	16.60	22.80	26.72	38.19	29.20	17.49	19.06	10.77	26.20	30.44	17.92	20.08	20.92
42	16.60	33.41	30.00	16.59	22.80	26.71	38.18	29.19	17.48	19.05	10.77	26.20	30.43	17.92	20.07
43	14.56	16.47	33.15	29.76	16.46	22.62	26.50	37.88	28.96	17.34	18.90	10.69	25.99	30.19	17.78
44	13.12	14.54	16.46	33.12	29.74	16.45	22.60	26.48	37.85	28.94	17.33	18.88	10.68	25.97	30.17
45	26.08	13.02	14.44	16.34	32.88	29.52	16.33	22.44	26.29	37.57	28.73	17.20	18.75	10.60	25.78
46	24.02	26.01	12.98	14.40	16.30	32.79	29.44	16.28	22.37	26.22	37.47	28.65	17.16	18.70	10.57
47	8.01	23.84	25.81	12.88	14.29	16.17	32.53	29.21	16.16	22.20	26.01	37.18	28.42	17.02	18.55
48	10.25	7.98	23.75	25.71	12.84	14.24	16.11	32.41	29.10	16.10	22.12	25.92	37.04	28.32	16.96
49	10.68	10.19	7.94	23.62	25.57	12.77	14.16	16.02	32.24	28.95	16.01	22.00	25.78	36.84	28.17

Table E.15. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for Urban Derived from TDHS-2003

Age of mother	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	272.89	270.13	276.59	279.51	296.74	292.86	295.78	311.88	283.25	275.83	276.14	258.20	281.26	303.30	280.09
16	260.79	274.13	271.36	277.84	280.78	298.09	294.19	297.12	313.30	284.53	277.08	277.39	259.37	282.54	304.68
17	220.54	261.81	275.20	272.42	278.93	281.88	299.26	295.34	298.28	314.52	285.65	278.16	278.48	260.39	283.64
18	226.36	221.29	262.70	276.13	273.34	279.88	282.83	300.28	296.34	299.30	315.59	286.62	279.11	279.42	261.28
19	224.40	227.03	221.95	263.48	276.96	274.16	280.72	283.68	301.17	297.23	300.19	316.54	287.47	279.94	280.26
20	218.49	224.99	227.63	222.53	264.18	277.69	274.88	281.46	284.43	301.97	298.01	300.98	317.37	288.23	280.68
21	195.87	215.96	222.39	225.00	219.96	261.12	274.48	271.70	278.20	281.14	298.47	294.56	297.50	313.70	284.90
22	190.88	196.43	216.58	223.02	225.64	220.59	261.86	275.26	272.48	278.99	281.94	299.33	295.40	298.35	314.60
23	219.19	191.37	196.93	217.13	223.59	226.22	221.15	262.54	275.97	273.18	279.71	282.66	300.10	296.16	299.12
24	230.88	219.70	191.81	197.39	217.64	224.11	226.75	221.67	263.15	276.61	273.82	280.36	283.32	300.79	296.85
25	227.67	231.37	220.16	192.22	197.81	218.10	224.59	227.23	222.14	263.71	277.20	274.40	280.96	283.92	301.43
26	198.18	225.74	229.40	218.29	190.59	196.13	216.25	222.68	225.29	220.25	261.46	274.84	272.06	278.57	281.51
27	197.08	198.62	226.23	229.91	218.77	191.01	196.56	216.72	223.17	225.79	220.73	262.04	275.44	272.66	279.18
28	230.01	197.48	199.02	226.69	230.37	219.21	191.39	196.96	217.16	223.62	226.25	221.18	262.57	276.00	273.21
29	216.08	228.33	196.03	197.56	225.03	228.69	217.61	189.99	195.51	215.57	221.98	224.59	219.56	260.65	273.98
30	194.74	214.62	226.79	194.71	196.23	223.52	227.15	216.14	188.71	194.20	214.12	220.49	223.08	218.08	258.89
31	188.16	197.02	217.13	229.45	196.99	198.53	226.13	229.81	218.67	190.92	196.47	216.63	223.07	225.69	220.63
32	161.41	185.47	194.21	214.03	226.17	194.17	195.69	222.90	226.52	215.54	188.19	193.66	213.53	219.88	222.46
33	170.89	161.92	186.05	194.81	214.70	226.88	194.78	196.30	223.60	227.23	216.22	188.78	194.27	214.20	220.57
34	146.18	171.38	162.38	186.58	195.37	215.31	227.52	195.34	196.86	224.24	227.88	216.84	189.32	194.82	214.81
35	125.66	146.62	171.89	162.87	187.14	195.96	215.96	228.21	195.93	197.46	224.91	228.56	217.49	189.89	195.41
36	141.61	124.30	145.03	170.03	161.10	185.12	193.83	213.62	225.74	193.80	195.32	222.47	226.09	215.13	187.83
37	157.10	141.23	123.96	144.64	169.57	160.67	184.61	193.31	213.04	225.12	193.28	194.79	221.87	225.47	214.55
38	170.20	157.71	141.78	124.44	145.20	170.23	161.29	185.33	194.06	213.87	226.00	194.03	195.54	222.73	226.35
39	151.87	169.85	157.38	141.48	124.18	144.89	169.87	160.95	184.94	193.65	213.42	225.52	193.62	195.13	222.27
40	140.10	151.70	169.66	157.21	141.32	124.04	144.73	169.68	160.77	184.73	193.44	213.18	225.27	193.41	194.92
41	107.86	139.28	150.81	168.66	156.29	140.49	123.31	143.89	168.69	159.83	183.65	192.30	211.93	223.95	192.27
42	84.80	107.91	139.35	150.89	168.75	156.36	140.56	123.37	143.95	168.77	159.91	183.74	192.40	212.03	224.06
43	100.38	84.47	107.50	138.82	150.31	168.10	155.76	140.02	122.90	143.40	168.12	159.30	183.04	191.66	211.22
44	87.83	100.54	84.61	107.67	139.04	150.55	168.37	156.01	140.25	123.10	143.63	168.39	159.55	183.33	191.96
45	99.72	87.34	99.98	84.13	107.07	138.26	149.70	167.42	155.13	139.46	122.40	142.82	167.44	158.65	182.30
46	91.52	99.30	86.97	99.55	83.78	106.61	137.67	149.07	166.71	154.48	138.87	121.89	142.22	166.74	157.98
47	58.91	91.27	99.03	86.73	99.28	83.54	106.32	137.29	148.66	166.25	154.05	138.49	121.55	141.83	166.28
48	79.97	58.64	90.85	98.57	86.33	98.82	83.16	105.83	136.66	147.97	165.48	153.34	137.84	120.99	141.17
49	94.88	79.95	58.62	90.82	98.54	86.30	98.79	83.13	105.80	136.62	147.93	165.44	153.30	137.81	120.95

Table E.16. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for Rural Derived from TDHS-2003

Age of mother	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	103.80	83.49	79.46	96.70	111.55	113.37	123.29	144.34	138.36	123.67	124.54	139.37	165.71	148.68	133.61
16	102.52	105.80	85.10	80.99	98.57	113.70	115.55	125.67	147.12	141.03	126.05	126.94	142.06	168.90	151.55
17	90.93	101.90	105.16	84.59	80.50	97.97	113.01	114.85	124.91	146.23	140.17	125.29	126.17	141.20	167.88
18	101.91	90.47	101.38	104.62	84.15	80.09	97.47	112.43	114.27	124.27	145.48	139.46	124.65	125.53	140.48
19	89.84	101.53	90.13	101.00	104.24	83.84	79.79	97.11	112.01	113.84	123.81	144.94	138.94	124.19	125.06
20	90.66	89.49	101.14	89.79	100.62	103.84	83.52	79.48	96.74	111.59	113.41	123.33	144.39	138.41	123.71
21	81.94	91.13	89.95	101.66	90.25	101.13	104.37	83.95	79.89	97.24	112.16	113.99	123.97	145.13	139.12
22	75.52	81.61	90.76	89.59	101.25	89.89	100.73	103.95	83.61	79.57	96.84	111.71	113.53	123.47	144.54
23	100.89	75.83	81.93	91.12	89.95	101.65	90.25	101.13	104.37	83.94	79.89	97.23	112.15	113.98	123.96
24	107.64	100.52	75.55	81.63	90.79	89.62	101.28	89.91	100.76	103.98	83.64	79.60	96.87	111.74	113.57
25	99.93	106.53	99.48	74.77	80.79	89.85	88.69	100.24	88.99	99.72	102.91	82.77	78.78	95.88	110.59
26	92.13	100.27	106.89	99.82	75.02	81.07	90.16	89.00	100.58	89.29	100.06	103.26	83.06	79.05	96.20
27	77.89	91.82	99.93	106.53	99.48	74.77	80.79	89.86	88.70	100.24	88.99	99.72	102.92	82.78	78.78
28	74.50	78.59	92.65	100.83	107.49	100.38	75.45	81.52	90.67	89.50	101.14	89.79	100.62	103.84	83.52
29	74.12	73.80	77.85	91.78	99.88	106.48	99.44	74.74	80.75	89.81	88.66	100.19	88.95	99.68	102.87
30	79.76	73.91	73.58	77.62	91.51	99.59	106.17	99.14	74.52	80.52	89.55	88.40	99.90	88.69	99.38
31	71.77	79.96	74.09	73.77	77.82	91.74	99.84	106.44	99.39	74.71	80.72	89.78	88.62	100.15	88.91
32	64.78	71.57	79.74	73.89	73.56	77.60	91.49	99.57	106.14	99.12	74.50	80.50	89.53	88.37	99.88
33	70.28	64.29	71.03	79.14	73.33	73.01	77.02	90.80	98.81	105.34	98.37	73.94	79.89	88.85	87.71
34	65.57	70.16	64.17	70.90	79.00	73.20	72.88	76.88	90.63	98.64	105.15	98.20	73.80	79.75	88.69
35	64.84	65.80	70.40	64.39	71.15	79.27	73.45	73.13	77.14	90.95	98.97	105.51	98.53	74.06	80.02
36	61.89	64.76	65.72	70.31	64.31	71.06	79.17	73.36	73.04	77.05	90.83	98.85	105.38	98.41	73.96
37	68.30	61.55	64.41	65.36	69.92	63.96	70.67	78.73	72.96	72.64	76.62	90.33	98.31	104.80	97.87
38	83.19	68.02	61.30	64.14	65.08	69.63	63.69	70.37	78.41	72.65	72.33	76.31	89.96	97.90	104.37
39	79.98	83.24	68.05	61.33	64.17	65.12	69.67	63.73	70.41	78.45	72.69	72.37	76.35	90.01	97.95
40	80.76	79.80	83.04	67.89	61.19	64.02	64.97	69.51	63.58	70.25	78.26	72.52	72.20	76.17	89.79
41	75.68	80.58	79.62	82.86	67.75	61.05	63.88	64.83	69.36	63.44	70.10	78.10	72.37	72.05	76.00
42	57.07	75.34	80.22	79.27	82.49	67.44	60.78	63.60	64.54	69.05	63.16	69.78	77.75	72.04	71.73
43	65.69	56.88	75.10	79.97	79.01	82.23	67.23	60.59	63.40	64.33	68.83	62.95	69.56	77.50	71.81
44	53.18	65.58	56.79	74.97	79.83	78.88	82.09	67.11	60.48	63.29	64.22	68.71	62.85	69.44	77.37
45	51.81	52.97	65.33	56.57	74.68	79.52	78.57	81.77	66.85	60.25	63.04	63.97	68.44	62.60	69.17
46	56.27	51.56	52.71	65.01	56.29	74.31	79.13	78.19	81.37	66.52	59.95	62.73	63.66	68.11	62.30
47	47.03	55.93	51.25	52.40	64.62	55.95	73.87	78.66	77.72	80.88	66.13	59.60	62.36	63.28	67.70
48	55.81	46.97	55.86	51.18	52.33	64.53	55.88	73.77	78.55	77.62	80.77	66.04	59.52	62.27	63.19
49	54.84	55.45	46.66	55.49	50.85	51.99	64.11	55.51	73.28	78.04	77.11	80.24	65.60	59.12	61.87

Table E.17. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for West Derived from TDHS-2003

Age of mother	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	151.27	152.00	149.15	150.38	167.88	155.04	152.53	171.00	149.39	141.22	138.75	127.18	136.72	127.75	122.23
16	143.20	157.65	158.41	155.45	156.72	174.96	161.58	158.96	178.22	155.69	147.18	144.60	132.55	142.48	133.14
17	115.67	143.63	158.11	158.88	155.90	157.18	175.47	162.05	159.43	178.74	156.15	147.61	145.03	132.94	142.90
18	133.94	116.12	144.18	158.73	159.49	156.51	157.79	176.15	162.68	160.05	179.44	156.76	148.18	145.59	133.46
19	133.15	131.07	113.63	141.10	155.33	156.08	153.16	154.41	172.38	159.20	156.62	175.59	153.40	145.01	142.47
20	118.79	136.74	134.60	116.69	144.89	159.51	160.28	157.28	158.57	177.02	163.49	160.84	180.32	157.53	148.92
21	104.28	116.74	134.38	132.28	114.67	142.39	156.75	157.51	154.57	155.83	173.97	160.66	158.06	177.21	154.81
22	110.92	104.69	117.21	134.91	132.80	115.13	142.96	157.38	158.14	155.18	156.46	174.66	161.30	158.69	177.92
23	127.63	109.43	103.29	115.63	133.10	131.02	113.59	141.04	155.27	156.02	153.10	154.35	172.31	159.14	156.56
24	132.02	128.09	109.82	103.66	116.05	133.57	131.49	113.99	141.54	155.82	156.57	153.64	154.90	172.93	159.71
25	135.76	132.43	128.48	110.16	103.97	116.40	133.98	131.89	114.34	141.98	156.30	157.05	154.12	155.38	173.46
26	125.61	136.12	132.78	128.82	110.45	104.25	116.71	134.34	132.24	114.65	142.36	156.72	157.47	154.53	155.80
27	117.97	124.35	134.76	131.45	127.53	109.35	103.21	115.54	133.00	130.92	113.50	140.93	155.14	155.89	152.98
28	122.68	118.24	124.63	135.06	131.75	127.82	109.60	103.44	115.81	133.30	131.21	113.75	141.25	155.50	156.25
29	108.91	123.00	118.55	124.95	135.41	132.09	128.15	109.88	103.71	116.10	133.64	131.55	114.05	141.61	155.90
30	107.44	109.16	123.28	118.82	125.23	135.72	132.39	128.44	110.13	103.94	116.37	133.95	131.85	114.31	141.94
31	113.63	107.62	109.34	123.48	119.02	125.44	135.94	132.61	128.66	110.31	104.12	116.56	134.17	132.07	114.50
32	107.38	112.74	106.78	108.48	122.52	118.08	124.46	134.88	131.58	127.65	109.45	103.30	115.65	133.12	131.04
33	110.46	107.62	112.98	107.01	108.72	122.79	118.34	124.74	135.18	131.86	127.93	109.69	103.53	115.91	133.41
34	90.38	109.74	106.92	112.25	106.32	108.01	121.99	117.57	123.92	134.30	131.01	127.10	108.98	102.86	115.15
35	78.07	90.61	110.03	107.19	112.54	106.59	108.29	122.31	117.88	124.25	134.65	131.35	127.43	109.26	103.12
36	86.20	77.62	90.09	109.40	106.58	111.90	105.98	107.67	121.60	117.20	123.53	133.87	130.59	126.70	108.63
37	100.75	86.45	77.84	90.36	109.72	106.89	112.22	106.29	107.99	121.96	117.54	123.89	134.26	130.97	127.07
38	114.32	101.05	86.71	78.08	90.62	110.04	107.21	112.55	106.60	108.31	122.32	117.89	124.26	134.66	131.36
39	99.58	113.10	99.97	85.78	77.24	89.66	108.87	106.06	111.35	105.46	107.15	121.01	116.63	122.93	133.22
40	85.41	99.92	113.48	100.31	86.08	77.51	89.96	109.24	106.43	111.73	105.83	107.52	121.43	117.03	123.35
41	64.26	85.24	99.72	113.25	100.11	85.90	77.35	89.78	109.02	106.21	111.51	105.61	107.30	121.18	116.79
42	52.09	64.14	85.09	99.54	113.05	99.93	85.75	77.21	89.62	108.82	106.02	111.31	105.42	107.11	120.96
43	63.74	51.79	63.77	84.59	98.95	112.39	99.34	85.24	76.76	89.09	108.18	105.40	110.65	104.80	106.48
44	52.58	64.06	52.05	64.09	85.01	99.45	112.95	99.84	85.67	77.14	89.54	108.73	105.93	111.21	105.33
45	57.21	52.13	63.51	51.60	63.53	84.27	98.59	111.97	98.97	84.93	76.47	88.77	107.78	105.01	110.25
46	55.78	57.32	52.22	63.62	51.69	63.65	84.42	98.76	112.17	99.15	85.08	76.61	88.92	107.97	105.19
47	41.37	55.48	57.01	51.94	63.28	51.41	63.30	83.97	98.23	111.57	98.62	84.62	76.20	88.44	107.39
48	51.05	41.35	55.45	56.98	51.91	63.25	51.38	63.27	83.92	98.18	111.51	98.56	84.58	76.16	88.40
49	65.67	50.91	41.24	55.30	56.82	51.77	63.07	51.24	63.10	83.70	97.91	111.21	98.30	84.35	75.95

Table E.18. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for South Derived from TDHS-2003

Age of mother	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	44.04	44.36	50.68	55.35	52.92	52.50	57.05	53.59	55.67	52.78	49.09	56.03	59.65	64.23	63.25
16	45.80	43.36	43.68	49.90	54.50	52.11	51.69	56.17	52.76	54.81	51.97	48.34	55.17	58.74	63.24
17	45.25	46.07	43.62	43.93	50.19	54.82	52.42	51.99	56.51	53.08	55.13	52.27	48.62	55.50	59.08
18	47.59	44.75	45.55	43.13	43.44	49.63	54.21	51.83	51.41	55.87	52.48	54.52	51.69	48.08	54.88
19	48.07	47.88	45.02	45.83	43.40	43.71	49.94	54.54	52.15	51.73	56.22	52.81	54.86	52.01	48.37
20	47.98	48.28	48.10	45.22	46.04	43.59	43.90	50.16	54.78	52.38	51.96	56.47	53.04	55.10	52.24
21	40.03	47.60	47.90	47.72	44.86	45.67	43.25	43.56	49.76	54.35	51.97	51.55	56.02	52.62	54.66
22	35.95	40.22	47.82	48.12	47.94	45.07	45.88	43.45	43.76	50.00	54.60	52.21	51.79	56.28	52.87
23	37.34	35.72	39.95	47.51	47.80	47.62	44.78	45.58	43.16	43.47	49.67	54.24	51.86	51.45	55.91
24	46.53	37.47	35.85	40.09	47.68	47.98	47.79	44.94	45.75	43.32	43.63	49.84	54.44	52.05	51.63
25	50.27	46.68	37.59	35.96	40.22	47.83	48.13	47.95	45.08	45.89	43.46	43.77	50.01	54.61	52.22
26	33.48	49.51	45.98	37.03	35.42	39.62	47.11	47.41	47.23	44.40	45.20	42.80	43.11	49.25	53.79
27	27.76	33.88	50.09	46.52	37.46	35.83	40.08	47.66	47.96	47.78	44.92	45.73	43.30	43.61	49.83
28	40.31	27.59	33.67	49.79	46.24	37.24	35.62	39.84	47.38	47.68	47.49	44.66	45.46	43.05	43.35
29	41.67	40.42	27.66	33.76	49.92	46.36	37.33	35.71	39.94	47.50	47.80	47.61	44.77	45.58	43.15
30	33.60	41.47	40.22	27.53	33.59	49.67	46.13	37.15	35.54	39.75	47.27	47.56	47.38	44.55	45.35
31	28.86	33.43	41.26	40.02	27.39	33.43	49.42	45.90	36.96	35.36	39.55	47.03	47.32	47.14	44.33
32	27.92	28.94	33.51	41.36	40.12	27.46	33.51	49.55	46.01	37.05	35.45	39.65	47.15	47.44	47.26
33	31.25	27.99	29.00	33.59	41.46	40.21	27.52	33.59	49.66	46.12	37.14	35.53	39.74	47.26	47.55
34	24.25	31.12	27.87	28.89	33.46	41.29	40.05	27.41	33.45	49.46	45.93	36.99	35.38	39.58	47.06
35	25.19	24.17	31.02	27.78	28.79	33.34	41.15	39.91	27.32	33.34	49.29	45.78	36.87	35.27	39.45
36	27.44	25.27	24.24	31.11	27.87	28.88	33.45	41.28	40.04	27.40	33.44	49.45	45.92	36.98	35.38
37	29.27	27.36	25.20	24.18	31.03	27.79	28.80	33.36	41.17	39.93	27.33	33.35	49.32	45.80	36.88
38	35.19	29.21	27.31	25.15	24.13	30.97	27.74	28.75	33.29	41.09	39.85	27.28	33.29	49.22	45.71
39	29.96	34.97	29.03	27.14	24.99	23.97	30.77	27.56	28.56	33.08	40.82	39.60	27.10	33.07	48.90
40	27.24	29.80	34.78	28.87	26.99	24.86	23.85	30.61	27.41	28.41	32.90	40.61	39.39	26.96	32.90
41	22.44	27.38	29.96	34.97	29.03	27.13	24.99	23.97	30.77	27.56	28.56	33.08	40.82	39.59	27.10
42	17.22	22.26	27.16	29.71	34.68	28.79	26.91	24.78	23.78	30.52	27.33	28.33	32.81	40.49	39.27
43	22.41	17.32	22.40	27.33	29.90	34.90	28.97	27.08	24.94	23.93	30.71	27.50	28.50	33.01	40.74
44	22.95	22.20	17.16	22.19	27.07	29.62	34.57	28.70	26.83	24.71	23.70	30.42	27.25	28.24	32.71
45	23.78	22.87	22.12	17.10	22.11	26.97	29.51	34.44	28.59	26.73	24.61	30.61	30.31	27.15	28.13
46	23.61	23.81	22.89	22.14	17.12	22.13	27.00	29.54	34.48	28.62	26.76	24.64	23.64	30.34	27.18
47	18.31	23.44	23.64	22.73	21.98	16.99	21.97	26.81	29.33	34.23	28.42	26.56	24.46	23.47	30.12
48	16.57	18.27	23.38	23.58	22.67	21.93	16.95	21.92	26.74	29.26	34.15	28.35	26.50	24.40	23.41
49	12.91	16.51	18.20	23.30	23.49	22.59	21.85	16.89	21.84	26.64	29.15	34.03	28.25	26.40	24.32

Table E.19. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for Central Derived from TDHS-2003

Age of mother	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	81.37	75.02	71.71	72.81	82.11	88.64	95.09	103.84	96.28	89.27	94.54	95.55	107.36	116.97	98.89
16	83.36	79.25	73.07	69.84	70.92	79.97	86.33	92.61	101.13	93.77	86.95	92.08	93.06	104.57	113.93
17	75.34	86.00	81.76	75.38	72.06	73.16	82.50	89.07	95.55	104.33	96.74	89.70	94.99	96.01	107.88
18	61.95	73.64	84.06	79.91	73.68	70.43	71.51	80.64	87.06	93.39	101.98	94.56	87.68	92.85	93.85
19	55.12	63.60	75.60	86.30	82.05	75.65	72.31	73.42	82.79	89.38	95.88	104.70	97.08	90.02	95.33
20	68.33	54.07	62.39	74.16	84.66	80.49	74.21	70.93	72.03	81.22	87.68	94.06	102.71	95.23	88.30
21	65.28	68.49	54.20	62.54	74.34	84.87	80.68	74.39	71.11	72.20	81.42	87.90	94.29	102.96	95.47
22	58.87	66.66	69.94	55.34	63.86	75.91	86.65	82.39	75.96	72.61	73.72	83.14	89.75	96.28	105.13
23	79.20	57.92	65.59	68.82	54.46	62.84	74.70	85.27	81.07	74.74	71.45	72.54	81.81	88.31	94.74
24	81.61	79.34	58.02	65.70	68.93	54.55	62.95	74.82	85.41	81.20	74.87	71.57	72.67	81.94	88.46
25	65.04	80.50	78.26	57.23	64.80	67.99	53.81	62.09	73.80	84.25	80.10	73.85	70.59	71.68	80.83
26	67.61	66.16	81.89	79.61	58.22	65.92	69.17	54.73	63.16	75.08	85.70	81.48	75.12	71.81	72.91
27	77.41	66.77	65.34	80.87	78.61	57.49	65.10	68.31	54.05	62.37	74.14	84.63	80.46	74.19	70.91
28	76.79	77.59	66.92	65.48	81.05	78.79	57.62	65.24	68.46	54.17	62.51	74.31	84.82	80.64	74.35
29	71.27	75.96	76.74	66.19	64.77	80.17	77.94	56.99	64.54	67.71	53.58	61.83	73.50	83.90	79.77
30	76.39	72.32	77.08	77.88	67.17	65.73	81.35	79.09	57.84	65.49	68.72	54.38	62.75	74.59	85.14
31	66.19	75.63	71.60	76.31	77.10	66.50	65.07	80.54	78.30	57.26	64.84	68.03	53.84	62.12	73.84
32	51.97	66.35	75.82	71.78	76.50	77.30	66.67	65.24	80.74	78.50	57.40	65.00	68.20	53.97	62.28
33	51.42	51.54	65.80	75.19	71.18	75.87	76.65	66.11	64.69	80.07	77.84	56.93	64.46	67.63	53.52
34	49.14	52.07	52.20	66.63	76.14	72.09	76.83	77.63	66.95	65.51	81.09	78.83	57.65	65.28	68.49
35	48.85	48.78	51.69	51.82	66.15	75.59	71.56	76.27	77.06	66.46	65.04	80.50	78.26	57.23	64.80
36	46.97	48.99	48.92	51.84	51.96	66.34	75.80	71.77	76.49	77.28	66.65	65.22	80.73	78.48	57.39
37	47.28	46.70	48.70	48.63	51.53	51.66	65.95	75.36	71.34	76.04	76.82	66.26	64.84	80.25	78.02
38	53.33	47.07	46.49	48.48	48.41	51.30	51.43	65.65	75.02	71.02	75.70	76.48	65.96	64.55	79.89
39	54.86	53.52	47.24	46.65	48.66	48.58	51.48	51.61	65.88	75.29	71.27	75.96	76.75	66.20	64.78
40	54.30	54.67	53.33	47.07	46.49	48.48	48.41	51.30	51.43	65.65	75.02	71.02	75.70	76.48	65.96
41	45.41	54.17	54.54	53.20	46.96	46.38	48.37	48.30	51.18	51.31	65.50	74.84	70.86	75.52	76.30
42	35.70	45.34	54.08	54.45	53.11	46.88	46.30	48.29	48.22	51.09	51.22	65.38	74.72	70.73	75.39
43	38.89	35.66	45.28	54.02	54.38	53.05	46.83	46.24	48.23	48.16	51.03	51.16	65.31	74.63	70.65
44	31.09	38.88	35.65	45.28	54.01	54.38	53.05	46.82	46.24	48.23	48.16	51.03	51.15	65.30	74.62
45	32.83	30.95	38.71	35.49	45.07	53.77	54.13	52.81	46.61	46.03	48.01	47.94	50.80	50.92	65.01
46	31.63	32.73	30.85	38.59	35.39	44.94	53.61	53.97	52.65	46.47	45.89	47.86	47.79	50.64	50.77
47	26.00	31.69	32.79	30.91	38.67	35.46	45.03	53.71	54.07	52.75	46.56	45.98	47.96	47.89	50.74
48	40.75	25.88	31.54	32.63	30.76	38.48	35.28	44.80	53.45	53.81	52.49	46.33	45.75	47.72	47.65
49	37.41	40.62	25.79	31.44	32.52	30.66	38.35	35.17	44.66	53.28	53.64	52.32	46.18	45.61	47.57

Table E.20. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for North Derived from TDHS-2003

Age of mother	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	30.06	22.13	21.71	28.68	26.01	25.05	30.84	34.22	31.26	25.00	28.70	33.12	33.77	31.43	26.92
16	29.14	29.57	21.77	21.36	28.21	25.59	24.64	30.34	33.66	30.76	24.59	28.24	32.58	33.22	30.93
17	25.41	29.77	30.22	22.25	21.82	28.82	26.14	25.18	31.00	34.39	31.42	25.12	28.85	33.29	33.94
18	25.00	25.04	29.33	29.77	21.92	21.50	28.40	25.76	24.81	30.55	33.89	30.96	24.76	28.43	32.80
19	26.42	25.08	25.12	29.43	29.87	21.99	21.57	28.49	25.84	24.89	30.65	34.00	31.06	24.84	28.52
20	23.77	26.50	25.15	25.19	29.51	29.95	22.05	21.63	28.57	25.92	24.96	30.73	34.09	31.15	24.91
21	18.45	23.83	26.56	25.21	25.25	29.58	30.03	22.11	21.68	28.64	25.98	25.02	30.81	34.18	31.23
22	18.25	18.00	23.26	25.93	24.61	24.65	28.87	29.31	21.58	21.16	27.96	25.36	24.42	30.07	33.36
23	27.32	18.55	18.30	23.64	26.35	25.01	25.05	29.35	29.79	21.93	21.51	28.41	25.77	24.82	30.56
24	29.59	27.38	18.60	18.34	23.70	26.41	25.07	25.11	29.42	29.86	21.98	21.56	28.48	25.83	24.88
25	23.60	29.33	27.14	18.43	18.18	23.49	26.18	24.85	24.89	29.16	29.59	21.79	21.37	28.23	25.61
26	20.41	23.67	29.42	27.22	18.49	18.23	23.56	26.26	24.92	24.96	29.24	29.68	21.85	21.44	28.32
27	18.47	20.46	23.73	29.50	27.30	18.54	18.28	23.62	26.33	24.99	25.03	29.32	29.76	21.91	21.49
28	29.27	18.34	20.31	23.56	29.28	27.09	18.40	18.15	23.45	26.14	24.80	24.84	29.11	29.54	21.75
29	31.74	29.36	18.40	20.37	23.63	29.37	27.18	18.46	18.21	23.52	26.22	24.88	24.92	29.20	29.64
30	22.13	31.26	28.92	18.12	20.07	23.28	28.93	26.77	18.18	17.93	23.17	25.83	24.51	24.55	28.76
31	20.29	22.40	31.64	29.27	18.34	20.31	23.56	29.28	27.10	18.40	18.15	23.45	26.14	24.81	24.85
32	19.09	20.34	22.46	31.73	29.36	18.39	20.37	23.63	29.36	27.17	18.45	18.20	23.52	26.21	24.88
33	22.08	19.00	20.24	22.36	31.57	29.21	18.30	20.27	23.51	29.22	27.04	18.37	18.11	23.40	26.09
34	21.90	21.99	18.93	20.17	22.27	31.45	29.10	18.23	20.19	23.42	29.11	26.94	18.29	18.04	23.31
35	15.41	21.82	21.92	18.86	20.09	22.19	31.34	29.00	18.17	20.12	23.34	29.01	26.84	18.23	17.98
36	13.61	15.47	21.91	22.00	18.93	20.17	22.28	31.46	29.11	18.24	20.20	23.43	29.12	26.95	18.30
37	15.06	13.57	15.44	21.86	21.95	18.89	20.12	22.22	31.39	29.04	18.19	20.15	23.37	29.05	26.88
38	17.64	14.94	13.47	15.32	21.69	21.78	18.75	19.97	22.06	31.15	28.82	18.06	20.00	23.20	28.83
39	16.32	17.63	14.93	13.46	15.31	21.67	21.76	18.73	19.96	22.04	31.12	28.80	18.04	19.98	23.18
40	17.20	16.31	17.62	14.92	13.45	15.30	21.66	21.75	18.72	19.94	22.02	31.10	28.78	18.03	19.97
41	17.15	17.21	16.32	17.62	14.93	13.46	15.30	21.67	21.76	18.73	19.95	22.03	31.12	28.79	18.04
42	11.17	17.07	17.14	16.25	17.55	14.86	13.40	15.24	21.58	21.67	18.65	19.87	21.94	30.99	28.67
43	13.60	11.14	17.03	17.09	16.20	17.50	14.82	13.36	15.20	21.52	21.61	18.60	19.81	21.88	30.90
44	12.43	13.57	11.11	16.99	17.06	16.17	17.47	14.79	13.34	15.17	21.47	21.57	18.56	19.77	21.84
45	10.79	12.37	13.51	11.06	16.92	16.98	16.10	17.39	14.73	13.28	15.10	21.38	21.47	18.48	19.68
46	11.72	10.79	12.37	13.51	11.07	16.92	16.98	16.10	17.39	14.73	13.28	15.10	21.38	21.47	18.48
47	8.05	11.65	10.73	12.30	13.44	11.01	16.83	16.89	16.01	17.30	14.65	13.21	15.02	21.26	21.35
48	10.58	8.02	11.61	10.69	12.26	13.39	10.96	16.76	16.83	15.95	17.23	14.59	13.15	14.96	21.18
49	13.74	10.53	7.98	11.55	10.63	12.20	13.32	10.91	16.68	16.74	15.87	17.14	14.52	13.09	14.89

Table E.21. Estimated Number of Women in Single Year Periods by Single Year Age of Woman for East Derived from TDHS-2003

Age of mother	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	68.27	61.15	64.41	68.77	79.57	86.88	85.46	92.89	87.21	90.53	89.84	87.28	109.61	112.38	103.86
16	60.56	68.78	61.60	64.89	69.29	80.16	87.52	86.10	93.59	87.86	91.21	90.51	87.93	110.43	113.22
17	51.81	59.90	68.04	60.94	64.19	68.54	79.30	86.58	85.17	92.57	86.91	90.23	89.53	86.98	109.24
18	58.38	51.78	59.87	68.00	60.91	64.16	68.50	79.26	86.53	85.13	92.53	86.86	90.18	89.48	86.93
19	49.40	58.36	51.76	59.85	67.97	60.88	64.13	68.47	79.22	86.49	85.09	92.48	86.82	90.14	89.44
20	51.71	49.38	58.33	51.74	59.82	67.95	60.86	64.11	68.45	79.19	86.46	85.06	92.45	86.79	90.10
21	50.88	51.69	49.37	58.31	51.72	59.80	67.92	60.84	64.08	68.42	79.16	86.43	85.03	92.42	86.76
22	43.18	50.87	51.68	49.35	58.30	51.71	59.79	67.90	60.82	64.07	68.40	79.14	86.41	85.00	92.39
23	45.58	43.17	50.85	51.66	49.34	58.28	51.70	59.77	67.89	60.80	64.05	68.38	79.12	86.38	84.98
24	47.40	45.54	43.13	50.81	51.62	49.30	58.23	51.65	59.72	67.83	60.75	64.00	68.33	79.06	86.31
25	51.60	46.86	45.02	42.64	50.23	51.03	48.73	57.57	51.06	59.04	67.05	60.06	63.26	67.54	78.15
26	43.73	51.84	47.08	45.23	42.84	50.46	51.27	48.96	57.84	51.30	59.31	67.37	60.34	63.56	67.86
27	31.60	43.71	51.82	47.06	45.21	42.82	50.44	51.25	48.94	57.81	51.28	59.29	67.34	60.31	63.54
28	32.53	31.41	43.45	51.52	46.78	44.94	42.57	50.15	50.95	48.65	57.47	50.98	58.94	66.94	59.96
29	35.68	32.35	31.24	43.21	51.23	46.52	44.70	42.33	49.87	50.66	48.38	57.15	50.70	58.61	66.57
30	36.58	35.84	32.49	31.37	43.40	51.45	46.72	44.89	42.51	50.08	50.88	48.59	57.40	50.91	58.87
31	29.15	36.37	35.63	32.30	31.19	43.15	51.16	46.46	44.63	42.27	49.80	50.60	48.32	57.08	50.63
32	19.60	29.13	36.35	35.62	32.29	31.18	43.14	51.14	46.44	44.62	42.26	49.78	50.58	48.30	57.05
33	25.46	19.52	29.01	36.20	35.47	32.15	31.05	42.96	50.93	46.25	44.43	42.08	49.57	50.37	48.10
34	25.11	25.45	19.52	29.01	36.19	35.46	32.15	31.05	42.95	50.92	46.24	44.42	42.07	49.56	50.35
35	21.20	25.01	25.36	19.44	28.90	36.06	35.33	32.03	30.93	42.78	50.72	46.06	44.25	41.91	49.37
36	28.65	21.05	24.83	25.18	19.31	28.69	35.80	35.08	31.80	30.71	42.48	50.37	45.74	43.94	41.62
37	32.99	28.68	21.08	24.86	25.21	19.33	28.72	35.84	35.12	31.84	30.74	42.53	50.42	45.79	43.99
38	32.10	32.93	28.63	21.04	24.82	25.16	19.29	28.67	35.78	35.06	31.78	30.69	42.46	50.34	45.71
39	28.98	31.83	32.66	28.39	20.87	24.61	24.96	19.14	28.44	35.49	34.77	31.52	30.44	42.11	49.92
40	35.04	28.97	31.82	32.65	28.38	20.86	24.61	24.95	19.13	28.43	35.47	34.76	31.51	30.43	42.09
41	33.53	34.94	28.89	31.74	32.56	28.31	20.80	24.54	24.88	19.08	28.35	35.38	34.67	31.42	30.35
42	24.66	33.37	34.78	28.76	31.59	32.41	28.17	20.71	24.42	24.76	18.99	28.22	35.21	34.50	31.28
43	26.23	24.58	33.26	34.66	28.66	31.48	32.30	28.08	20.64	24.34	24.68	18.92	28.12	35.09	34.39
44	20.93	26.11	24.47	33.11	34.50	28.53	31.33	32.15	27.95	20.54	24.23	24.56	18.84	27.99	34.93
45	25.80	20.92	26.09	24.45	33.08	34.47	28.51	31.31	32.13	27.93	20.53	24.21	24.55	18.82	27.97
46	24.23	25.63	20.78	25.92	24.29	32.86	34.25	28.32	31.10	31.91	27.74	20.39	24.05	24.38	18.70
47	10.99	24.06	25.46	20.64	25.75	24.12	32.64	34.01	28.13	30.89	31.70	27.56	20.25	23.89	24.22
48	15.23	10.93	23.95	25.33	20.54	25.62	24.01	32.48	33.85	27.99	30.74	31.55	27.42	20.15	23.77
49	18.12	15.17	10.89	23.85	25.23	20.45	25.51	23.90	32.35	33.71	27.87	30.61	31.41	27.31	20.07

APPENDIX F

Table F.1. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1993 for Urban

Age of woman	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	0.044	0.039	0.057	0.029	0.072	0.030	0.022	0.025	0.032	0.038	0.014	0.015	0.004	0.005	0.006
16	0.073	0.088	0.099	0.064	0.085	0.056	0.052	0.044	0.052	0.054	0.018	0.032	0.023	0.022	0.016
17	0.109	0.119	0.139	0.086	0.113	0.093	0.083	0.080	0.075	0.062	0.062	0.039	0.060	0.044	0.034
18	0.145	0.196	0.151	0.157	0.148	0.159	0.133	0.125	0.102	0.064	0.114	0.066	0.073	0.073	0.069
19	0.196	0.271	0.184	0.233	0.230	0.198	0.183	0.193	0.151	0.095	0.152	0.113	0.116	0.136	0.123
20	0.216	0.282	0.245	0.244	0.267	0.193	0.183	0.229	0.203	0.156	0.163	0.166	0.140	0.167	0.142
21	0.232	0.289	0.293	0.207	0.243	0.231	0.209	0.223	0.197	0.211	0.165	0.201	0.138	0.157	0.152
22	0.272	0.334	0.281	0.239	0.223	0.275	0.244	0.259	0.221	0.193	0.181	0.180	0.150	0.152	0.156
23	0.248	0.376	0.236	0.251	0.208	0.250	0.222	0.249	0.226	0.161	0.166	0.155	0.157	0.139	0.159
24	0.210	0.328	0.279	0.224	0.243	0.221	0.188	0.222	0.200	0.193	0.152	0.164	0.146	0.132	0.204
25	0.230	0.272	0.269	0.182	0.273	0.209	0.207	0.230	0.177	0.188	0.167	0.142	0.127	0.133	0.183
26	0.241	0.261	0.211	0.168	0.251	0.193	0.246	0.203	0.156	0.145	0.169	0.137	0.133	0.132	0.149
27	0.201	0.212	0.247	0.193	0.216	0.138	0.233	0.162	0.131	0.129	0.173	0.141	0.135	0.111	0.150
28	0.227	0.179	0.222	0.166	0.146	0.157	0.201	0.129	0.181	0.116	0.139	0.141	0.115	0.095	0.105
29	0.212	0.243	0.159	0.120	0.171	0.163	0.180	0.110	0.169	0.106	0.122	0.123	0.105	0.075	0.109
30	0.163	0.213	0.162	0.120	0.181	0.118	0.136	0.110	0.074	0.093	0.125	0.091	0.074	0.066	0.115
31	0.161	0.140	0.138	0.161	0.126	0.094	0.108	0.086	0.077	0.095	0.077	0.087	0.047	0.063	0.084
32	0.132	0.128	0.143	0.143	0.102	0.064	0.101	0.101	0.074	0.061	0.062	0.074	0.085	0.061	0.072
33	0.120	0.098	0.119	0.123	0.082	0.094	0.091	0.100	0.075	0.030	0.063	0.062	0.077	0.059	0.073
34	0.093	0.119	0.080	0.121	0.158	0.105	0.104	0.062	0.061	0.047	0.052	0.052	0.051	0.034	0.067
35	0.109	0.108	0.079	0.103	0.156	0.047	0.099	0.084	0.085	0.054	0.046	0.037	0.049	0.039	0.042
36	0.134	0.057	0.078	0.076	0.118	0.027	0.092	0.071	0.098	0.048	0.026	0.025	0.045	0.031	0.045
37	0.114	0.074	0.091	0.061	0.091	0.033	0.074	0.041	0.062	0.039	0.000	0.019	0.047	0.019	0.045
38	0.080	0.059	0.060	0.044	0.047	0.018	0.045	0.037	0.025	0.027	0.011	0.019	0.027	0.025	0.043
39	0.065	0.033	0.038	0.049	0.026	0.016	0.041	0.032	0.010	0.026	0.026	0.034	0.009	0.015	0.038
40	0.070	0.027	0.038	0.064	0.045	0.019	0.031	0.029	0.019	0.032	0.025	0.026	0.011	0.005	0.015
41	0.064	0.030	0.027	0.041	0.043	0.015	0.013	0.015	0.017	0.019	0.010	0.005	0.009	0.008	0.005
42	0.025	0.032	0.020	0.016	0.014	0.027	0.024	0.019	0.000	0.000	0.006	0.005	0.020	0.004	0.007
43	0.016	0.024	0.032	0.010	0.027	0.033	0.027	0.029	0.000	0.000	0.006	0.000	0.016	0.000	0.009
44	0.000	0.016	0.025	0.010	0.020	0.022	0.005	0.016	0.010	0.006	0.007	0.006	0.000	0.005	0.000
45	0.010	0.010	0.000	0.008	0.005	0.015	0.000	0.000	0.010	0.005	0.012	0.008	0.000	0.006	0.000
46	0.010	0.005	0.000	0.008	0.000	0.011	0.005	0.011	0.000	0.000	0.005	0.000	0.000	0.000	0.000
47	0.000	0.005	0.000	0.000	0.008	0.000	0.011	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
48	0.000	0.013	0.000	0.000	0.010	0.000	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.010	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	4.22	4.69	4.20	3.72	4.15	3.32	3.62	3.36	2.97	2.49	2.52	2.37	2.19	2.01	2.42

Table F.2. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1993 for Urban

Age group	Estimated Fertility Rates														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15-19	0.113	0.143	0.126	0.114	0.129	0.107	0.095	0.093	0.083	0.063	0.072	0.053	0.055	0.056	0.050
20-24	0.236	0.322	0.267	0.233	0.237	0.234	0.209	0.236	0.209	0.183	0.165	0.173	0.146	0.150	0.163
25-29	0.222	0.233	0.222	0.166	0.211	0.172	0.214	0.167	0.163	0.137	0.154	0.137	0.123	0.109	0.139
30-34	0.134	0.140	0.128	0.134	0.130	0.095	0.108	0.092	0.072	0.065	0.076	0.073	0.067	0.056	0.082
35-39	0.101	0.066	0.069	0.067	0.087	0.028	0.070	0.053	0.056	0.039	0.022	0.027	0.035	0.026	0.043
40-44	0.035	0.026	0.029	0.028	0.030	0.023	0.020	0.022	0.009	0.012	0.011	0.008	0.011	0.004	0.007
45-49	0.004	0.008	0.000	0.003	0.005	0.005	0.008	0.010	0.002	0.001	0.003	0.002	0.000	0.001	0.000
TFR	4.22	4.69	4.20	3.72	4.15	3.32	3.62	3.36	2.97	2.49	2.52	2.37	2.19	2.01	2.42

Table F.3. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1993 for Urban

Age group	1979-1981	1982-1984	1985-1987	1988-1990	1991-1993
15-19	0.127	0.117	0.090	0.063	0.054
20-24	0.275	0.235	0.218	0.174	0.153
25-29	0.226	0.183	0.181	0.143	0.124
30-34	0.134	0.120	0.091	0.071	0.068
35-39	0.079	0.061	0.060	0.029	0.035
40-44	0.030	0.027	0.017	0.010	0.008
45-49	0.004	0.004	0.007	0.002	0.000
TFR	4.37	3.73	3.32	2.46	2.21

Table F.4. Estimated Five-Year Fertility Rates Derived from TDHS-1993 for Urban

Age group	1979-1984	1984-1988	1989-1993
15-19	0.125	0.088	0.057
20-24	0.259	0.214	0.159
25-29	0.211	0.170	0.132
30-34	0.133	0.086	0.071
35-39	0.078	0.049	0.031
40-44	0.029	0.017	0.008
45-49	0.004	0.005	0.001
TFR	4.20	3.15	2.30

Table F.5. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1993 for Rural

Age of woman	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	0.058	0.047	0.058	0.068	0.047	0.020	0.059	0.046	0.063	0.037	0.055	0.009	0.013	0.005	0.005
16	0.067	0.147	0.059	0.120	0.106	0.052	0.119	0.079	0.077	0.041	0.085	0.034	0.019	0.018	0.028
17	0.106	0.205	0.201	0.175	0.143	0.116	0.153	0.099	0.110	0.087	0.109	0.054	0.081	0.036	0.052
18	0.163	0.268	0.264	0.243	0.164	0.172	0.164	0.174	0.141	0.136	0.133	0.091	0.115	0.090	0.082
19	0.228	0.383	0.328	0.256	0.242	0.208	0.237	0.239	0.197	0.173	0.195	0.170	0.150	0.141	0.139
20	0.361	0.394	0.345	0.245	0.271	0.230	0.282	0.249	0.253	0.234	0.241	0.204	0.151	0.158	0.149
21	0.363	0.348	0.336	0.250	0.299	0.237	0.287	0.322	0.202	0.256	0.188	0.167	0.166	0.170	0.191
22	0.298	0.387	0.423	0.292	0.335	0.269	0.336	0.342	0.187	0.241	0.174	0.162	0.232	0.190	0.236
23	0.297	0.328	0.392	0.299	0.332	0.332	0.359	0.323	0.236	0.221	0.195	0.215	0.216	0.204	0.216
24	0.319	0.337	0.295	0.276	0.343	0.287	0.297	0.316	0.254	0.234	0.189	0.240	0.159	0.193	0.178
25	0.341	0.317	0.313	0.228	0.388	0.235	0.256	0.282	0.224	0.214	0.201	0.196	0.159	0.165	0.148
26	0.294	0.285	0.356	0.246	0.379	0.266	0.263	0.222	0.136	0.232	0.195	0.173	0.177	0.169	0.159
27	0.232	0.299	0.355	0.253	0.277	0.206	0.270	0.211	0.141	0.224	0.213	0.165	0.150	0.173	0.159
28	0.276	0.208	0.307	0.234	0.238	0.225	0.183	0.219	0.220	0.179	0.189	0.146	0.106	0.181	0.161
29	0.255	0.219	0.213	0.248	0.237	0.242	0.214	0.158	0.227	0.181	0.124	0.151	0.081	0.156	0.121
30	0.241	0.193	0.223	0.140	0.218	0.253	0.216	0.202	0.168	0.150	0.114	0.158	0.104	0.078	0.113
31	0.242	0.207	0.238	0.128	0.133	0.231	0.213	0.184	0.102	0.082	0.112	0.148	0.070	0.059	0.152
32	0.268	0.194	0.266	0.169	0.121	0.132	0.192	0.120	0.104	0.050	0.091	0.124	0.061	0.068	0.167
33	0.232	0.159	0.256	0.170	0.210	0.172	0.113	0.152	0.191	0.088	0.113	0.099	0.073	0.066	0.137
34	0.151	0.135	0.176	0.159	0.204	0.132	0.164	0.216	0.167	0.155	0.115	0.081	0.050	0.058	0.064
35	0.185	0.069	0.102	0.144	0.162	0.086	0.144	0.166	0.063	0.129	0.125	0.041	0.070	0.057	0.062
36	0.160	0.163	0.102	0.102	0.126	0.132	0.166	0.068	0.098	0.051	0.117	0.069	0.082	0.099	0.055
37	0.150	0.202	0.199	0.056	0.103	0.145	0.155	0.071	0.078	0.026	0.041	0.082	0.076	0.093	0.042
38	0.157	0.142	0.176	0.049	0.068	0.082	0.094	0.074	0.080	0.019	0.061	0.041	0.097	0.025	0.045
39	0.135	0.104	0.103	0.073	0.141	0.057	0.103	0.053	0.098	0.024	0.048	0.026	0.052	0.013	0.077
40	0.142	0.107	0.076	0.072	0.134	0.090	0.103	0.063	0.054	0.015	0.040	0.029	0.009	0.010	0.078
41	0.108	0.059	0.104	0.056	0.067	0.081	0.091	0.035	0.011	0.010	0.052	0.047	0.029	0.026	0.029
42	0.044	0.031	0.079	0.035	0.051	0.030	0.052	0.061	0.000	0.041	0.021	0.030	0.024	0.028	0.000
43	0.019	0.035	0.045	0.016	0.018	0.013	0.018	0.052	0.010	0.046	0.000	0.010	0.030	0.016	0.000
44	0.000	0.057	0.008	0.015	0.037	0.017	0.032	0.019	0.023	0.020	0.000	0.031	0.032	0.015	0.008
45	0.033	0.050	0.019	0.008	0.046	0.011	0.027	0.013	0.038	0.007	0.051	0.023	0.000	0.000	0.007
46	0.032	0.006	0.025	0.019	0.017	0.000	0.000	0.000	0.026	0.000	0.038	0.010	0.000	0.000	0.010
47	0.000	0.000	0.000	0.025	0.038	0.000	0.005	0.005	0.009	0.000	0.000	0.008	0.000	0.011	0.010
48	0.000	0.012	0.000	0.000	0.062	0.019	0.009	0.005	0.011	0.018	0.007	0.000	0.000	0.010	0.000
49	0.011	0.009	0.000	0.000	0.005	0.025	0.000	0.000	0.005	0.011	0.009	0.000	0.000	0.000	0.000
TFR	5.97	6.10	6.45	4.87	5.76	4.80	5.38	4.84	4.00	3.63	3.64	3.23	2.83	2.78	3.08

Table F.6. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1993 for Rural

Age group	Estimated Fertility Rates														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15-19	0.124	0.210	0.182	0.172	0.140	0.114	0.146	0.127	0.118	0.095	0.115	0.072	0.076	0.058	0.061
20-24	0.328	0.359	0.358	0.273	0.316	0.271	0.313	0.310	0.226	0.237	0.197	0.197	0.185	0.183	0.194
25-29	0.280	0.265	0.309	0.242	0.304	0.235	0.237	0.218	0.190	0.206	0.184	0.166	0.135	0.169	0.150
30-34	0.227	0.178	0.232	0.153	0.177	0.184	0.180	0.175	0.146	0.105	0.109	0.122	0.071	0.066	0.127
35-39	0.157	0.136	0.137	0.085	0.120	0.100	0.133	0.086	0.083	0.050	0.079	0.052	0.075	0.057	0.056
40-44	0.063	0.058	0.063	0.039	0.061	0.046	0.059	0.046	0.019	0.026	0.023	0.029	0.025	0.019	0.023
45-49	0.015	0.015	0.009	0.010	0.034	0.011	0.008	0.005	0.018	0.007	0.021	0.008	0.000	0.004	0.005
TFR	5.97	6.10	6.45	4.87	5.76	4.80	5.38	4.84	4.00	3.63	3.64	3.23	2.83	2.78	3.08

Table F.7. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1993 for Rural

Age group	1979-1981	1982-1984	1985-1987	1988-1990	1991-1993
15-19	0.172	0.142	0.130	0.094	0.065
20-24	0.348	0.286	0.283	0.211	0.187
25-29	0.285	0.260	0.215	0.186	0.151
30-34	0.212	0.171	0.167	0.112	0.088
35-39	0.143	0.102	0.101	0.060	0.063
40-44	0.061	0.049	0.042	0.026	0.022
45-49	0.013	0.018	0.010	0.012	0.003
TFR	6.17	5.14	4.74	3.50	2.90

Table F.8. Estimated Five-Year Fertility Rates Derived from TDHS-1993 for Rural

Age group	1979-1984	1984-1988	1989-1993
15-19	0.166	0.120	0.076
20-24	0.327	0.271	0.191
25-29	0.280	0.217	0.161
30-34	0.193	0.158	0.099
35-39	0.127	0.090	0.064
40-44	0.057	0.039	0.024
45-49	0.017	0.010	0.008
TFR	5.83	4.53	3.11

Table F.9. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1993 for West Region

Age of woman	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	0.047	0.044	0.010	0.005	0.044	0.031	0.028	0.034	0.009	0.037	0.000	0.004	0.007	0.004	0.004
16	0.068	0.104	0.053	0.053	0.046	0.046	0.046	0.054	0.026	0.027	0.009	0.049	0.021	0.011	0.018
17	0.070	0.126	0.116	0.108	0.074	0.077	0.066	0.045	0.068	0.040	0.066	0.045	0.049	0.017	0.038
18	0.097	0.211	0.133	0.194	0.123	0.155	0.124	0.104	0.091	0.065	0.121	0.035	0.059	0.059	0.070
19	0.157	0.267	0.189	0.252	0.212	0.178	0.189	0.177	0.117	0.061	0.162	0.097	0.095	0.120	0.090
20	0.233	0.263	0.224	0.226	0.267	0.171	0.172	0.195	0.170	0.127	0.166	0.152	0.133	0.139	0.120
21	0.233	0.246	0.261	0.179	0.238	0.196	0.170	0.235	0.168	0.203	0.114	0.164	0.122	0.141	0.171
22	0.235	0.295	0.247	0.235	0.212	0.172	0.204	0.266	0.228	0.194	0.092	0.127	0.134	0.148	0.162
23	0.219	0.308	0.172	0.242	0.201	0.184	0.190	0.219	0.237	0.138	0.101	0.126	0.166	0.133	0.144
24	0.192	0.245	0.180	0.224	0.201	0.198	0.195	0.153	0.178	0.145	0.093	0.147	0.151	0.113	0.185
25	0.225	0.219	0.205	0.218	0.253	0.214	0.205	0.163	0.152	0.143	0.136	0.146	0.138	0.109	0.149
26	0.224	0.196	0.187	0.154	0.227	0.208	0.196	0.164	0.117	0.074	0.198	0.122	0.153	0.114	0.129
27	0.170	0.171	0.163	0.135	0.167	0.123	0.178	0.118	0.068	0.089	0.233	0.106	0.113	0.104	0.135
28	0.184	0.136	0.150	0.093	0.116	0.068	0.179	0.088	0.108	0.129	0.127	0.111	0.075	0.078	0.120
29	0.182	0.173	0.151	0.077	0.090	0.116	0.199	0.081	0.104	0.121	0.069	0.096	0.066	0.059	0.127
30	0.096	0.160	0.117	0.087	0.127	0.123	0.121	0.072	0.031	0.066	0.079	0.067	0.051	0.059	0.089
31	0.108	0.111	0.088	0.087	0.098	0.063	0.057	0.065	0.054	0.057	0.054	0.058	0.039	0.040	0.051
32	0.109	0.105	0.128	0.101	0.066	0.059	0.076	0.063	0.046	0.037	0.056	0.063	0.039	0.029	0.070
33	0.064	0.053	0.120	0.142	0.067	0.070	0.066	0.047	0.063	0.013	0.042	0.037	0.025	0.049	0.067
34	0.034	0.062	0.093	0.142	0.128	0.071	0.069	0.042	0.054	0.036	0.020	0.024	0.031	0.029	0.038
35	0.050	0.066	0.074	0.081	0.094	0.048	0.078	0.036	0.057	0.035	0.014	0.032	0.030	0.031	0.019
36	0.050	0.010	0.046	0.018	0.078	0.045	0.047	0.023	0.073	0.036	0.007	0.021	0.020	0.030	0.012
37	0.024	0.040	0.061	0.011	0.077	0.045	0.027	0.009	0.038	0.025	0.000	0.020	0.028	0.013	0.023
38	0.022	0.039	0.034	0.020	0.022	0.018	0.027	0.000	0.000	0.000	0.012	0.014	0.013	0.007	0.019
39	0.036	0.007	0.016	0.016	0.010	0.023	0.027	0.000	0.000	0.009	0.030	0.012	0.000	0.000	0.007
40	0.033	0.009	0.045	0.008	0.024	0.010	0.022	0.000	0.017	0.009	0.019	0.007	0.000	0.000	0.000
41	0.018	0.016	0.037	0.000	0.030	0.000	0.010	0.000	0.018	0.000	0.000	0.009	0.008	0.000	0.000
42	0.000	0.009	0.000	0.000	0.021	0.000	0.008	0.000	0.000	0.000	0.000	0.009	0.009	0.000	0.000
43	0.000	0.000	0.000	0.000	0.009	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
44	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000
45	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000
46	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
48	0.000	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	3.21	3.75	3.30	3.11	3.32	2.73	2.98	2.49	2.29	1.92	2.04	1.90	1.78	1.64	2.06

Table F.10. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1993 for West Region

Age group	Estimated Fertility Rates														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15-19	0.088	0.150	0.100	0.122	0.100	0.097	0.091	0.083	0.062	0.046	0.072	0.046	0.046	0.042	0.044
20-24	0.222	0.272	0.217	0.221	0.224	0.184	0.186	0.213	0.196	0.161	0.113	0.143	0.141	0.135	0.156
25-29	0.197	0.179	0.171	0.135	0.171	0.146	0.191	0.123	0.110	0.111	0.153	0.116	0.109	0.093	0.132
30-34	0.082	0.098	0.109	0.112	0.097	0.077	0.078	0.058	0.050	0.042	0.050	0.050	0.037	0.041	0.063
35-39	0.036	0.032	0.046	0.029	0.056	0.036	0.041	0.014	0.033	0.021	0.013	0.020	0.018	0.016	0.016
40-44	0.010	0.007	0.016	0.002	0.017	0.005	0.008	0.000	0.007	0.002	0.006	0.005	0.003	0.000	0.000
45-49	0.006	0.011	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.002	0.000	0.000	0.000	0.000
TFR	3.21	3.75	3.30	3.11	3.32	2.73	2.98	2.49	2.29	1.92	2.04	1.90	1.78	1.64	2.06

Table F.11. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1993 for West Region

Age group	1979-1981	1982-1984	1985-1987	1988-1990	1991-1993
15-19	0.113	0.106	0.079	0.054	0.044
20-24	0.237	0.210	0.199	0.139	0.144
25-29	0.182	0.151	0.141	0.127	0.111
30-34	0.097	0.095	0.062	0.047	0.047
35-39	0.038	0.040	0.029	0.018	0.017
40-44	0.011	0.008	0.005	0.004	0.001
45-49	0.006	0.000	0.002	0.001	0.000
TFR	3.42	3.05	2.58	1.95	1.82

Table F.12. Estimated Five-Year Fertility Rates Derived from TDHS-1993 for West Region

Age group	1979-1984	1984-1988	1989-1993
15-19	0.112	0.076	0.050
20-24	0.231	0.188	0.138
25-29	0.171	0.136	0.121
30-34	0.100	0.061	0.048
35-39	0.040	0.029	0.017
40-44	0.010	0.004	0.003
45-49	0.003	0.001	0.000
TFR	3.34	2.48	1.88

Table F.13. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1993 for South Region

Age of woman	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	0.024	0.013	0.047	0.043	0.050	0.018	0.027	0.026	0.043	0.026	0.022	0.007	0.000	0.007	0.000
16	0.048	0.109	0.053	0.081	0.088	0.069	0.072	0.017	0.077	0.044	0.033	0.015	0.015	0.029	0.028
17	0.116	0.135	0.124	0.078	0.132	0.108	0.102	0.070	0.087	0.079	0.043	0.026	0.047	0.037	0.042
18	0.112	0.115	0.208	0.166	0.158	0.092	0.099	0.173	0.095	0.121	0.109	0.060	0.078	0.053	0.050
19	0.128	0.202	0.309	0.253	0.233	0.130	0.192	0.200	0.156	0.166	0.163	0.120	0.107	0.110	0.089
20	0.223	0.256	0.370	0.215	0.259	0.204	0.241	0.183	0.170	0.186	0.146	0.156	0.141	0.147	0.115
21	0.264	0.344	0.299	0.175	0.235	0.230	0.198	0.217	0.138	0.150	0.163	0.156	0.214	0.154	0.127
22	0.329	0.371	0.303	0.254	0.179	0.331	0.262	0.248	0.141	0.150	0.209	0.184	0.196	0.138	0.134
23	0.290	0.403	0.305	0.340	0.195	0.313	0.267	0.285	0.166	0.219	0.204	0.137	0.140	0.129	0.160
24	0.234	0.428	0.277	0.244	0.301	0.228	0.205	0.295	0.202	0.225	0.201	0.091	0.163	0.135	0.218
25	0.218	0.419	0.257	0.091	0.305	0.178	0.223	0.221	0.213	0.216	0.187	0.090	0.130	0.116	0.208
26	0.239	0.329	0.213	0.138	0.297	0.176	0.244	0.200	0.148	0.257	0.130	0.189	0.079	0.114	0.165
27	0.273	0.240	0.236	0.207	0.321	0.164	0.289	0.175	0.138	0.261	0.140	0.226	0.134	0.127	0.145
28	0.302	0.323	0.211	0.203	0.252	0.201	0.206	0.155	0.190	0.190	0.158	0.142	0.135	0.189	0.050
29	0.255	0.320	0.202	0.190	0.180	0.195	0.181	0.143	0.156	0.162	0.161	0.123	0.073	0.154	0.046
30	0.223	0.238	0.239	0.222	0.195	0.150	0.147	0.136	0.108	0.174	0.101	0.125	0.063	0.056	0.116
31	0.250	0.202	0.243	0.251	0.152	0.144	0.155	0.115	0.112	0.091	0.069	0.146	0.052	0.086	0.166
32	0.270	0.182	0.205	0.203	0.120	0.074	0.164	0.094	0.090	0.050	0.071	0.121	0.060	0.088	0.132
33	0.196	0.189	0.161	0.111	0.138	0.168	0.076	0.109	0.054	0.026	0.098	0.108	0.054	0.058	0.085
34	0.142	0.222	0.110	0.113	0.114	0.136	0.139	0.122	0.047	0.027	0.114	0.112	0.056	0.052	0.057
35	0.213	0.171	0.075	0.134	0.161	0.045	0.157	0.132	0.073	0.047	0.066	0.077	0.064	0.018	0.034
36	0.201	0.107	0.087	0.147	0.193	0.091	0.162	0.084	0.100	0.025	0.047	0.041	0.053	0.025	0.053
37	0.153	0.161	0.082	0.142	0.075	0.081	0.117	0.044	0.101	0.017	0.024	0.031	0.042	0.051	0.036
38	0.116	0.135	0.061	0.106	0.087	0.025	0.083	0.089	0.088	0.034	0.016	0.049	0.032	0.054	0.025
39	0.072	0.078	0.059	0.100	0.109	0.000	0.051	0.106	0.067	0.045	0.017	0.067	0.025	0.032	0.039
40	0.086	0.072	0.020	0.076	0.082	0.053	0.059	0.096	0.053	0.045	0.044	0.034	0.017	0.000	0.031
41	0.104	0.052	0.049	0.019	0.039	0.061	0.111	0.056	0.024	0.027	0.067	0.022	0.017	0.033	0.024
42	0.086	0.052	0.088	0.000	0.040	0.019	0.062	0.053	0.000	0.000	0.053	0.022	0.000	0.034	0.016
43	0.058	0.057	0.089	0.017	0.049	0.019	0.020	0.060	0.000	0.029	0.024	0.000	0.000	0.000	0.016
44	0.000	0.029	0.058	0.017	0.018	0.024	0.040	0.019	0.000	0.027	0.000	0.000	0.000	0.000	0.000
45	0.020	0.032	0.000	0.000	0.018	0.000	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
46	0.022	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026
47	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.028	0.024
48	0.000	0.000	0.000	0.000	0.032	0.000	0.000	0.000	0.000	0.000	0.019	0.000	0.000	0.027	0.000
49	0.000	0.000	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.000
TFR	5.27	6.01	5.04	4.34	4.83	3.73	4.40	3.92	3.04	3.12	2.92	2.68	2.19	2.28	2.46

Table F.14. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1993 for South Region

Age group	Estimated Fertility Rates														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15-19	0.086	0.115	0.148	0.124	0.132	0.083	0.098	0.097	0.092	0.087	0.074	0.046	0.050	0.047	0.042
20-24	0.268	0.360	0.311	0.245	0.234	0.261	0.234	0.245	0.163	0.186	0.185	0.145	0.171	0.141	0.151
25-29	0.258	0.326	0.224	0.166	0.271	0.183	0.229	0.179	0.169	0.217	0.155	0.154	0.110	0.140	0.123
30-34	0.216	0.207	0.192	0.180	0.144	0.134	0.136	0.115	0.082	0.074	0.091	0.122	0.057	0.068	0.111
35-39	0.151	0.130	0.073	0.126	0.125	0.048	0.114	0.091	0.086	0.033	0.034	0.053	0.043	0.036	0.037
40-44	0.067	0.053	0.061	0.026	0.046	0.035	0.058	0.057	0.016	0.025	0.037	0.016	0.007	0.013	0.017
45-49	0.008	0.010	0.000	0.000	0.014	0.000	0.010	0.000	0.000	0.000	0.009	0.000	0.000	0.011	0.010
TFR	5.27	6.01	5.04	4.34	4.83	3.73	4.40	3.92	3.04	3.12	2.92	2.68	2.19	2.28	2.46

Table F.15. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1993 for South Region

Age group	1979-1981	1982-1984	1985-1987	1988-1990	1991-1993
15-19	0.116	0.113	0.096	0.069	0.046
20-24	0.313	0.247	0.214	0.172	0.154
25-29	0.269	0.207	0.192	0.175	0.124
30-34	0.205	0.153	0.111	0.096	0.079
35-39	0.118	0.100	0.097	0.040	0.039
40-44	0.060	0.036	0.044	0.026	0.013
45-49	0.006	0.005	0.003	0.003	0.007
TFR	5.44	4.30	3.79	2.91	2.31

Table F.16. Estimated Five-Year Fertility Rates Derived from TDHS-1993 for South Region

Age group	1979-1984	1984-1988	1989-1993
15-19	0.121	0.092	0.052
20-24	0.284	0.218	0.158
25-29	0.249	0.195	0.136
30-34	0.188	0.108	0.090
35-39	0.121	0.075	0.041
40-44	0.050	0.038	0.018
45-49	0.007	0.002	0.006
TFR	5.10	3.64	2.51

Table F.17. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1993 for Central Region

Age of woman	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	0.057	0.044	0.054	0.053	0.075	0.028	0.052	0.007	0.013	0.032	0.000	0.000	0.005	0.009	0.005
16	0.070	0.083	0.095	0.087	0.146	0.080	0.089	0.060	0.045	0.071	0.013	0.018	0.017	0.036	0.013
17	0.114	0.149	0.206	0.138	0.157	0.108	0.114	0.141	0.105	0.123	0.072	0.050	0.050	0.062	0.035
18	0.206	0.237	0.224	0.181	0.190	0.145	0.175	0.168	0.133	0.126	0.104	0.091	0.076	0.109	0.076
19	0.251	0.308	0.194	0.196	0.269	0.195	0.193	0.206	0.209	0.124	0.186	0.155	0.138	0.204	0.116
20	0.211	0.313	0.268	0.244	0.258	0.193	0.215	0.278	0.282	0.228	0.215	0.229	0.157	0.230	0.113
21	0.285	0.293	0.330	0.256	0.267	0.218	0.284	0.290	0.213	0.254	0.179	0.200	0.135	0.209	0.166
22	0.285	0.372	0.364	0.250	0.302	0.294	0.317	0.322	0.200	0.184	0.228	0.156	0.181	0.203	0.237
23	0.236	0.385	0.336	0.221	0.264	0.288	0.265	0.293	0.198	0.225	0.204	0.219	0.224	0.156	0.196
24	0.242	0.295	0.382	0.228	0.291	0.197	0.175	0.195	0.206	0.262	0.138	0.254	0.176	0.146	0.156
25	0.245	0.213	0.362	0.169	0.268	0.132	0.185	0.222	0.205	0.214	0.144	0.165	0.081	0.147	0.142
26	0.238	0.180	0.276	0.219	0.250	0.157	0.266	0.188	0.178	0.138	0.148	0.113	0.087	0.121	0.107
27	0.205	0.192	0.282	0.283	0.198	0.159	0.280	0.155	0.161	0.121	0.161	0.115	0.092	0.102	0.142
28	0.234	0.168	0.260	0.218	0.115	0.280	0.168	0.117	0.176	0.101	0.121	0.149	0.075	0.104	0.123
29	0.222	0.271	0.195	0.134	0.136	0.226	0.157	0.116	0.194	0.117	0.093	0.153	0.097	0.073	0.064
30	0.179	0.234	0.173	0.064	0.106	0.092	0.201	0.150	0.114	0.102	0.094	0.126	0.065	0.021	0.086
31	0.157	0.158	0.136	0.097	0.080	0.092	0.129	0.075	0.085	0.057	0.038	0.070	0.060	0.071	0.091
32	0.168	0.127	0.137	0.134	0.077	0.066	0.078	0.061	0.120	0.053	0.042	0.026	0.130	0.091	0.053
33	0.215	0.128	0.160	0.115	0.142	0.075	0.102	0.126	0.091	0.064	0.074	0.071	0.104	0.058	0.088
34	0.183	0.183	0.175	0.094	0.131	0.113	0.109	0.091	0.045	0.070	0.074	0.053	0.029	0.050	0.077
35	0.124	0.124	0.111	0.110	0.077	0.065	0.073	0.025	0.065	0.045	0.060	0.018	0.054	0.056	0.037
36	0.107	0.137	0.050	0.073	0.099	0.054	0.063	0.025	0.049	0.026	0.034	0.010	0.046	0.062	0.040
37	0.098	0.087	0.039	0.025	0.077	0.065	0.074	0.032	0.025	0.012	0.026	0.023	0.020	0.054	0.040
38	0.100	0.079	0.014	0.000	0.052	0.019	0.079	0.032	0.021	0.012	0.025	0.051	0.011	0.029	0.052
39	0.066	0.085	0.013	0.029	0.061	0.000	0.110	0.049	0.021	0.011	0.012	0.037	0.000	0.022	0.048
40	0.068	0.037	0.042	0.052	0.045	0.000	0.099	0.056	0.016	0.021	0.000	0.025	0.000	0.013	0.032
41	0.065	0.022	0.037	0.042	0.027	0.015	0.019	0.025	0.019	0.032	0.000	0.021	0.000	0.024	0.012
42	0.031	0.031	0.011	0.025	0.011	0.040	0.014	0.020	0.000	0.018	0.000	0.011	0.011	0.024	0.000
43	0.019	0.045	0.010	0.011	0.000	0.022	0.026	0.015	0.000	0.000	0.000	0.000	0.022	0.010	0.000
44	0.000	0.071	0.000	0.021	0.045	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.016	0.011	0.000
45	0.012	0.047	0.000	0.015	0.054	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.000	0.000	0.000
46	0.013	0.011	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.000	0.000	0.000
47	0.000	0.012	0.000	0.000	0.018	0.000	0.010	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
48	0.000	0.000	0.000	0.000	0.025	0.000	0.015	0.011	0.011	0.000	0.000	0.000	0.000	0.000	0.000
49	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.000
TFR	4.73	5.12	4.94	3.78	4.33	3.42	4.15	3.56	3.21	2.84	2.52	2.61	2.16	2.51	2.35

Table F.18. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1993 for Central Region

Age group	Estimated Fertility Rates														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15-19	0.140	0.164	0.155	0.131	0.167	0.111	0.124	0.116	0.101	0.095	0.075	0.063	0.057	0.084	0.049
20-24	0.252	0.332	0.336	0.240	0.276	0.238	0.251	0.276	0.220	0.231	0.193	0.211	0.174	0.189	0.174
25-29	0.229	0.205	0.275	0.205	0.194	0.191	0.211	0.160	0.183	0.138	0.133	0.139	0.086	0.109	0.116
30-34	0.180	0.166	0.156	0.101	0.107	0.087	0.124	0.101	0.091	0.069	0.065	0.069	0.077	0.058	0.079
35-39	0.099	0.102	0.046	0.047	0.073	0.040	0.080	0.033	0.036	0.021	0.031	0.028	0.026	0.045	0.043
40-44	0.037	0.041	0.020	0.030	0.026	0.015	0.034	0.023	0.007	0.014	0.000	0.011	0.010	0.016	0.009
45-49	0.009	0.014	0.000	0.003	0.023	0.000	0.005	0.004	0.004	0.000	0.007	0.000	0.000	0.000	0.000
TFR	4.73	5.12	4.94	3.78	4.33	3.42	4.15	3.56	3.21	2.84	2.52	2.61	2.16	2.51	2.35

Table F.19. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1993 for Central Region

Age group	1979-1981	1982-1984	1985-1987	1988-1990	1991-1993
15-19	0.153	0.137	0.114	0.078	0.063
20-24	0.307	0.251	0.249	0.212	0.179
25-29	0.236	0.196	0.184	0.137	0.104
30-34	0.168	0.098	0.105	0.068	0.072
35-39	0.082	0.054	0.050	0.027	0.038
40-44	0.033	0.024	0.021	0.009	0.012
45-49	0.008	0.008	0.005	0.002	0.000
TFR	4.93	3.84	3.64	2.66	2.34

Table F.20. Estimated Five-Year Fertility Rates Derived from TDHS-1993 for Central Region

Age group	1979-1984	1984-1988	1989-1993
15-19	0.151	0.110	0.066
20-24	0.287	0.243	0.188
25-29	0.221	0.176	0.117
30-34	0.142	0.094	0.070
35-39	0.073	0.042	0.035
40-44	0.031	0.019	0.009
45-49	0.010	0.003	0.001
TFR	4.58	3.44	2.43

Table F.21. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1993 for North Region

Age of woman	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	0.058	0.064	0.019	0.063	0.057	0.000	0.000	0.000	0.033	0.017	0.028	0.030	0.013	0.000	0.013
16	0.062	0.094	0.062	0.092	0.082	0.019	0.038	0.000	0.030	0.033	0.065	0.042	0.029	0.027	0.023
17	0.145	0.164	0.188	0.123	0.129	0.104	0.091	0.018	0.020	0.030	0.113	0.049	0.041	0.044	0.051
18	0.218	0.312	0.245	0.186	0.164	0.168	0.160	0.107	0.078	0.039	0.134	0.065	0.079	0.069	0.098
19	0.280	0.411	0.287	0.282	0.204	0.250	0.216	0.236	0.150	0.097	0.135	0.105	0.110	0.129	0.172
20	0.298	0.474	0.324	0.331	0.242	0.264	0.221	0.212	0.249	0.150	0.153	0.117	0.102	0.144	0.248
21	0.260	0.323	0.330	0.233	0.281	0.244	0.234	0.195	0.240	0.247	0.183	0.173	0.131	0.146	0.213
22	0.298	0.339	0.383	0.247	0.276	0.312	0.315	0.178	0.166	0.241	0.224	0.205	0.206	0.153	0.198
23	0.330	0.385	0.386	0.260	0.272	0.279	0.298	0.192	0.149	0.144	0.272	0.225	0.215	0.189	0.201
24	0.299	0.287	0.271	0.255	0.318	0.276	0.207	0.292	0.202	0.186	0.284	0.239	0.158	0.163	0.200
25	0.260	0.241	0.223	0.243	0.328	0.263	0.159	0.262	0.236	0.201	0.237	0.204	0.177	0.180	0.208
26	0.232	0.260	0.296	0.201	0.334	0.207	0.198	0.209	0.193	0.166	0.199	0.167	0.198	0.198	0.270
27	0.138	0.262	0.372	0.185	0.280	0.202	0.247	0.193	0.137	0.127	0.162	0.140	0.125	0.140	0.224
28	0.167	0.321	0.293	0.170	0.263	0.264	0.195	0.194	0.087	0.109	0.125	0.117	0.097	0.144	0.154
29	0.178	0.234	0.184	0.162	0.312	0.269	0.157	0.171	0.154	0.117	0.135	0.106	0.068	0.138	0.122
30	0.138	0.132	0.265	0.090	0.225	0.115	0.129	0.115	0.134	0.127	0.171	0.082	0.041	0.069	0.075
31	0.117	0.138	0.351	0.098	0.136	0.131	0.111	0.101	0.081	0.112	0.101	0.087	0.026	0.062	0.067
32	0.107	0.153	0.227	0.086	0.163	0.137	0.094	0.162	0.106	0.040	0.044	0.076	0.111	0.080	0.060
33	0.070	0.107	0.115	0.045	0.173	0.100	0.000	0.123	0.115	0.107	0.040	0.067	0.123	0.085	0.051
34	0.111	0.069	0.159	0.038	0.134	0.087	0.064	0.086	0.065	0.114	0.078	0.060	0.064	0.074	0.054
35	0.179	0.073	0.104	0.052	0.113	0.046	0.168	0.094	0.046	0.065	0.112	0.053	0.039	0.043	0.048
36	0.079	0.119	0.073	0.102	0.104	0.115	0.131	0.041	0.099	0.045	0.095	0.028	0.076	0.059	0.042
37	0.130	0.118	0.059	0.072	0.068	0.106	0.037	0.000	0.130	0.033	0.089	0.000	0.082	0.052	0.038
38	0.133	0.098	0.039	0.000	0.072	0.000	0.051	0.000	0.045	0.087	0.097	0.000	0.031	0.028	0.050
39	0.131	0.033	0.032	0.000	0.117	0.037	0.033	0.000	0.000	0.090	0.085	0.000	0.000	0.032	0.053
40	0.092	0.044	0.033	0.032	0.039	0.059	0.000	0.033	0.000	0.038	0.089	0.043	0.032	0.000	0.030
41	0.028	0.030	0.087	0.032	0.032	0.000	0.000	0.035	0.000	0.000	0.075	0.045	0.083	0.000	0.000
42	0.000	0.000	0.061	0.043	0.065	0.033	0.000	0.000	0.000	0.034	0.000	0.000	0.044	0.000	0.000
43	0.000	0.054	0.056	0.030	0.043	0.033	0.031	0.000	0.000	0.036	0.000	0.052	0.000	0.044	0.000
44	0.000	0.044	0.054	0.000	0.000	0.044	0.032	0.000	0.000	0.059	0.000	0.034	0.000	0.037	0.043
45	0.025	0.000	0.000	0.000	0.000	0.030	0.000	0.000	0.000	0.039	0.000	0.000	0.000	0.000	0.036
46	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.000	0.044	0.000	0.000	0.000	0.000	0.000	0.000
48	0.000	0.000	0.000	0.000	0.000	0.000	0.052	0.000	0.031	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	4.59	5.38	5.58	3.75	5.02	4.19	3.69	3.25	3.02	2.93	3.53	2.61	2.50	2.53	3.04

Table F.22. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1993 for North Region

Age group	Estimated Fertility Rates														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15-19	0.153	0.209	0.160	0.149	0.127	0.108	0.101	0.072	0.062	0.043	0.095	0.058	0.054	0.054	0.072
20-24	0.297	0.361	0.339	0.265	0.278	0.275	0.255	0.214	0.201	0.194	0.223	0.192	0.162	0.159	0.212
25-29	0.195	0.264	0.273	0.192	0.304	0.241	0.191	0.206	0.161	0.144	0.172	0.147	0.133	0.160	0.196
30-34	0.108	0.120	0.223	0.071	0.166	0.114	0.079	0.118	0.100	0.100	0.087	0.074	0.073	0.074	0.061
35-39	0.131	0.088	0.061	0.045	0.095	0.060	0.084	0.027	0.064	0.064	0.096	0.016	0.046	0.043	0.046
40-44	0.024	0.034	0.058	0.027	0.036	0.034	0.013	0.013	0.000	0.034	0.033	0.035	0.032	0.016	0.015
45-49	0.010	0.000	0.000	0.000	0.000	0.006	0.016	0.000	0.015	0.008	0.000	0.000	0.000	0.000	0.007
TFR	4.59	5.38	5.58	3.75	5.02	4.19	3.69	3.25	3.02	2.93	3.53	2.61	2.50	2.53	3.04

Table F.23. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1993 for North Region

Age group	1979-1981	1982-1984	1985-1987	1988-1990	1991-1993
15-19	0.174	0.128	0.078	0.065	0.060
20-24	0.332	0.273	0.223	0.203	0.178
25-29	0.244	0.246	0.186	0.154	0.163
30-34	0.151	0.117	0.099	0.087	0.070
35-39	0.093	0.067	0.058	0.059	0.045
40-44	0.039	0.032	0.009	0.034	0.021
45-49	0.003	0.002	0.010	0.003	0.002
TFR	5.18	4.32	3.32	3.02	2.69

Table F.24. Estimated Five-Year Fertility Rates Derived from TDHS-1993 for North Region

Age group	1979-1984	1984-1988	1989-1993
15-19	0.160	0.077	0.067
20-24	0.308	0.228	0.190
25-29	0.246	0.189	0.161
30-34	0.138	0.102	0.074
35-39	0.084	0.060	0.049
40-44	0.036	0.019	0.026
45-49	0.002	0.009	0.001
TFR	4.86	3.42	2.84

Table F.25. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1993 for East Region

Age of woman	Single Years														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15	0.060	0.015	0.193	0.111	0.111	0.050	0.064	0.091	0.147	0.063	0.104	0.028	0.014	0.004	0.009
16	0.097	0.132	0.177	0.124	0.143	0.049	0.100	0.118	0.137	0.087	0.120	0.037	0.028	0.009	0.030
17	0.154	0.175	0.196	0.115	0.171	0.152	0.169	0.139	0.127	0.081	0.120	0.051	0.124	0.043	0.048
18	0.207	0.250	0.238	0.214	0.148	0.281	0.197	0.184	0.180	0.064	0.154	0.138	0.142	0.097	0.084
19	0.306	0.429	0.272	0.253	0.218	0.289	0.248	0.280	0.230	0.189	0.169	0.199	0.196	0.122	0.189
20	0.401	0.473	0.291	0.299	0.268	0.253	0.306	0.351	0.321	0.267	0.258	0.222	0.189	0.151	0.184
21	0.393	0.446	0.380	0.337	0.291	0.301	0.323	0.322	0.282	0.336	0.315	0.288	0.179	0.150	0.172
22	0.334	0.451	0.484	0.327	0.369	0.358	0.358	0.352	0.261	0.292	0.319	0.289	0.226	0.175	0.197
23	0.378	0.384	0.495	0.311	0.400	0.450	0.423	0.380	0.343	0.190	0.247	0.265	0.145	0.243	0.232
24	0.443	0.520	0.546	0.284	0.410	0.437	0.364	0.453	0.311	0.254	0.231	0.280	0.097	0.259	0.245
25	0.424	0.526	0.564	0.216	0.512	0.324	0.330	0.479	0.195	0.264	0.243	0.246	0.201	0.231	0.229
26	0.382	0.452	0.614	0.345	0.552	0.339	0.378	0.363	0.163	0.361	0.206	0.214	0.259	0.219	0.211
27	0.320	0.439	0.486	0.328	0.353	0.260	0.341	0.314	0.267	0.302	0.195	0.207	0.242	0.226	0.170
28	0.429	0.144	0.439	0.308	0.336	0.269	0.262	0.356	0.482	0.158	0.287	0.225	0.196	0.171	0.193
29	0.382	0.241	0.210	0.370	0.397	0.303	0.290	0.219	0.450	0.144	0.282	0.213	0.209	0.156	0.204
30	0.398	0.298	0.282	0.381	0.406	0.356	0.281	0.371	0.284	0.192	0.234	0.205	0.237	0.162	0.197
31	0.446	0.249	0.318	0.371	0.354	0.346	0.312	0.487	0.175	0.241	0.232	0.235	0.109	0.074	0.200
32	0.521	0.257	0.390	0.343	0.260	0.242	0.297	0.232	0.102	0.155	0.174	0.232	0.104	0.077	0.238
33	0.406	0.317	0.397	0.258	0.234	0.325	0.315	0.247	0.278	0.154	0.174	0.175	0.163	0.089	0.195
34	0.232	0.136	0.153	0.288	0.394	0.257	0.326	0.489	0.296	0.231	0.152	0.116	0.130	0.040	0.136
35	0.239	0.039	0.133	0.356	0.466	0.111	0.232	0.495	0.211	0.247	0.174	0.026	0.136	0.107	0.157
36	0.306	0.220	0.266	0.197	0.259	0.124	0.352	0.319	0.257	0.210	0.180	0.115	0.177	0.152	0.166
37	0.344	0.268	0.410	0.075	0.202	0.254	0.396	0.205	0.174	0.141	0.000	0.129	0.138	0.100	0.111
38	0.274	0.205	0.370	0.096	0.154	0.231	0.205	0.209	0.130	0.087	0.047	0.000	0.193	0.023	0.146
39	0.217	0.156	0.246	0.136	0.178	0.151	0.166	0.154	0.188	0.037	0.087	0.047	0.209	0.013	0.143
40	0.241	0.220	0.118	0.198	0.223	0.155	0.191	0.134	0.154	0.042	0.075	0.058	0.070	0.034	0.124
41	0.201	0.110	0.142	0.200	0.156	0.136	0.098	0.077	0.000	0.052	0.083	0.037	0.058	0.023	0.067
42	0.078	0.060	0.131	0.094	0.051	0.077	0.096	0.118	0.000	0.067	0.051	0.042	0.074	0.000	0.022
43	0.037	0.026	0.070	0.023	0.072	0.067	0.062	0.124	0.020	0.077	0.000	0.000	0.104	0.000	0.028
44	0.000	0.075	0.000	0.023	0.072	0.071	0.034	0.078	0.069	0.020	0.000	0.100	0.103	0.021	0.000
45	0.042	0.140	0.073	0.025	0.047	0.047	0.024	0.034	0.124	0.014	0.098	0.115	0.000	0.051	0.000
46	0.040	0.000	0.137	0.108	0.026	0.023	0.012	0.000	0.068	0.000	0.069	0.020	0.000	0.000	0.000
47	0.000	0.000	0.000	0.135	0.148	0.000	0.012	0.036	0.000	0.000	0.000	0.014	0.000	0.000	0.000
48	0.000	0.000	0.000	0.000	0.278	0.073	0.026	0.036	0.000	0.048	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.136	0.037	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.000
TFR	8.73	7.85	9.22	7.25	8.66	7.30	7.63	8.25	6.42	5.09	5.08	4.57	4.45	3.22	4.33

Table F.26. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1993 for East Region

Age group	Estimated Fertility Rates														
	1978/79	1979/1980	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
15-19	0.165	0.200	0.215	0.163	0.158	0.164	0.156	0.162	0.164	0.097	0.133	0.090	0.101	0.055	0.072
20-24	0.390	0.455	0.439	0.312	0.348	0.360	0.355	0.372	0.303	0.268	0.274	0.269	0.167	0.196	0.206
25-29	0.388	0.360	0.462	0.314	0.430	0.299	0.320	0.346	0.311	0.246	0.243	0.221	0.221	0.201	0.202
30-34	0.401	0.251	0.308	0.328	0.330	0.305	0.306	0.365	0.227	0.195	0.193	0.192	0.149	0.088	0.193
35-39	0.276	0.178	0.285	0.172	0.252	0.174	0.270	0.277	0.192	0.144	0.097	0.063	0.171	0.079	0.145
40-44	0.111	0.098	0.092	0.108	0.115	0.101	0.096	0.106	0.049	0.051	0.042	0.048	0.082	0.016	0.048
45-49	0.016	0.028	0.042	0.054	0.100	0.056	0.022	0.021	0.038	0.017	0.033	0.030	0.000	0.010	0.000
TFR	8.73	7.85	9.22	7.25	8.66	7.30	7.63	8.25	6.42	5.09	5.08	4.57	4.45	3.22	4.33

Table F.27. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1993 for East Region

Age group	1979-1981	1982-1984	1985-1987	1988-1990	1991-1993
15-19	0.193	0.162	0.161	0.107	0.076
20-24	0.428	0.340	0.343	0.270	0.190
25-29	0.403	0.348	0.326	0.236	0.208
30-34	0.320	0.321	0.299	0.193	0.143
35-39	0.246	0.199	0.246	0.102	0.131
40-44	0.101	0.108	0.084	0.047	0.049
45-49	0.029	0.070	0.027	0.027	0.003
TFR	8.60	7.74	7.43	4.91	4.00

Table F.28. Estimated Five-Year Fertility Rates Derived from TDHS-1993 for East Region

Age group	1979-1984	1984-1988	1989-1993
15-19	0.180	0.149	0.090
20-24	0.389	0.332	0.222
25-29	0.391	0.305	0.217
30-34	0.324	0.280	0.163
35-39	0.232	0.211	0.111
40-44	0.105	0.081	0.047
45-49	0.048	0.031	0.015
TFR	8.34	6.94	4.33

Table F.29. Estimated Single-Year Fertility Rates by Single Year Age of Mother Group Derived from TDHS-1998 for Urban

Age of woman	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	0.025	0.033	0.017	0.015	0.020	0.014	0.016	0.010	0.020	0.014	0.012	0.006	0.008	0.009	0.004
16	0.046	0.057	0.050	0.050	0.049	0.044	0.048	0.035	0.027	0.039	0.036	0.024	0.020	0.037	0.011
17	0.102	0.078	0.089	0.093	0.122	0.068	0.094	0.075	0.075	0.065	0.065	0.037	0.055	0.058	0.045
18	0.148	0.109	0.097	0.113	0.134	0.097	0.108	0.101	0.114	0.077	0.087	0.071	0.098	0.085	0.075
19	0.144	0.154	0.147	0.150	0.142	0.105	0.158	0.097	0.126	0.107	0.118	0.133	0.133	0.116	0.114
20	0.155	0.178	0.204	0.195	0.171	0.130	0.228	0.127	0.162	0.140	0.155	0.163	0.156	0.118	0.135
21	0.172	0.214	0.189	0.164	0.244	0.176	0.230	0.188	0.192	0.153	0.174	0.174	0.163	0.105	0.132
22	0.177	0.261	0.185	0.173	0.270	0.159	0.229	0.224	0.183	0.175	0.165	0.178	0.141	0.145	0.141
23	0.208	0.226	0.240	0.261	0.216	0.181	0.219	0.201	0.207	0.161	0.183	0.175	0.133	0.146	0.162
24	0.209	0.237	0.219	0.256	0.191	0.217	0.200	0.144	0.237	0.139	0.174	0.180	0.145	0.147	0.158
25	0.214	0.260	0.186	0.185	0.200	0.175	0.183	0.170	0.213	0.114	0.163	0.174	0.147	0.178	0.162
26	0.218	0.193	0.200	0.165	0.174	0.122	0.220	0.163	0.185	0.138	0.173	0.167	0.166	0.172	0.142
27	0.176	0.161	0.239	0.149	0.130	0.134	0.217	0.117	0.181	0.162	0.140	0.137	0.164	0.118	0.114
28	0.133	0.139	0.215	0.138	0.105	0.141	0.152	0.135	0.187	0.121	0.124	0.089	0.115	0.112	0.139
29	0.139	0.145	0.168	0.148	0.094	0.122	0.147	0.146	0.176	0.118	0.111	0.102	0.082	0.137	0.137
30	0.188	0.128	0.151	0.083	0.123	0.114	0.143	0.123	0.141	0.108	0.099	0.101	0.097	0.106	0.119
31	0.180	0.116	0.144	0.086	0.130	0.105	0.103	0.091	0.099	0.091	0.095	0.088	0.103	0.102	0.135
32	0.130	0.109	0.164	0.106	0.087	0.089	0.072	0.099	0.103	0.087	0.076	0.101	0.088	0.113	0.137
33	0.105	0.086	0.122	0.080	0.066	0.068	0.054	0.106	0.125	0.050	0.064	0.078	0.066	0.104	0.104
34	0.101	0.098	0.078	0.081	0.065	0.055	0.058	0.072	0.099	0.036	0.069	0.054	0.046	0.080	0.083
35	0.087	0.082	0.074	0.082	0.050	0.082	0.088	0.046	0.059	0.042	0.053	0.032	0.033	0.055	0.078
36	0.129	0.057	0.085	0.047	0.054	0.091	0.096	0.028	0.035	0.057	0.025	0.020	0.032	0.033	0.064
37	0.108	0.063	0.088	0.033	0.058	0.057	0.066	0.050	0.032	0.075	0.009	0.025	0.024	0.021	0.038
38	0.029	0.063	0.046	0.029	0.034	0.020	0.035	0.062	0.034	0.047	0.023	0.013	0.021	0.016	0.018
39	0.020	0.056	0.015	0.019	0.051	0.005	0.026	0.035	0.036	0.029	0.032	0.011	0.013	0.017	0.024
40	0.025	0.052	0.036	0.014	0.058	0.007	0.027	0.015	0.029	0.030	0.017	0.012	0.004	0.018	0.029
41	0.044	0.037	0.041	0.014	0.029	0.012	0.036	0.011	0.005	0.011	0.013	0.016	0.008	0.023	0.013
42	0.035	0.036	0.019	0.007	0.015	0.014	0.038	0.014	0.000	0.005	0.017	0.013	0.008	0.016	0.004
43	0.018	0.042	0.025	0.019	0.007	0.028	0.021	0.019	0.000	0.000	0.010	0.011	0.004	0.008	0.004
44	0.041	0.018	0.026	0.019	0.026	0.026	0.000	0.014	0.000	0.000	0.005	0.005	0.000	0.009	0.008
45	0.027	0.000	0.009	0.000	0.031	0.012	0.000	0.007	0.007	0.006	0.007	0.000	0.000	0.006	0.004
46	0.017	0.007	0.000	0.000	0.009	0.018	0.000	0.007	0.014	0.007	0.013	0.000	0.000	0.000	0.006
47	0.015	0.016	0.007	0.000	0.000	0.025	0.000	0.000	0.007	0.007	0.007	0.000	0.000	0.000	0.005
48	0.000	0.015	0.017	0.007	0.000	0.009	0.000	0.000	0.006	0.013	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.015	0.017	0.000	0.000	0.000	0.000	0.012	0.006	0.000	0.000	0.000	0.000	0.000
TFR	3.56	3.52	3.61	3.00	3.15	2.72	3.31	2.73	3.13	2.43	2.52	2.39	2.27	2.41	2.54

Table F.30. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1998 for Urban

Age group	Estimated Fertility Rates														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15-19	0.093	0.086	0.080	0.084	0.093	0.065	0.085	0.063	0.072	0.060	0.064	0.054	0.063	0.061	0.050
20-24	0.184	0.223	0.207	0.210	0.218	0.173	0.221	0.177	0.196	0.154	0.170	0.174	0.148	0.132	0.146
25-29	0.176	0.180	0.201	0.157	0.141	0.139	0.184	0.146	0.188	0.131	0.142	0.134	0.135	0.143	0.139
30-34	0.141	0.107	0.132	0.087	0.094	0.086	0.086	0.098	0.113	0.074	0.081	0.084	0.080	0.101	0.116
35-39	0.075	0.064	0.062	0.042	0.049	0.051	0.062	0.044	0.039	0.050	0.028	0.020	0.025	0.028	0.044
40-44	0.032	0.037	0.030	0.015	0.027	0.017	0.024	0.015	0.007	0.009	0.013	0.012	0.005	0.015	0.011
45-49	0.012	0.008	0.010	0.005	0.008	0.013	0.000	0.003	0.009	0.008	0.005	0.000	0.000	0.001	0.003
TFR	3.56	3.52	3.61	3.00	3.15	2.72	3.31	2.73	3.13	2.43	2.52	2.39	2.27	2.41	2.54

Table F.31. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1998 for Urban

Age group	1984-1986	1987-1989	1990-1992	1993-1995	1996-1998
15-19	0.086	0.081	0.073	0.059	0.058
20-24	0.205	0.200	0.198	0.166	0.142
25-29	0.186	0.146	0.173	0.136	0.139
30-34	0.127	0.089	0.099	0.080	0.099
35-39	0.067	0.048	0.048	0.033	0.032
40-44	0.033	0.020	0.015	0.011	0.010
45-49	0.010	0.009	0.004	0.004	0.001
TFR	3.56	2.96	3.06	2.45	2.41

Table F.32. Estimated Five-Year Fertility Rates Derived from TDHS-1998 for Urban

Age group	1984-1988	1989-1993	1994-1998
15-19	0.087	0.069	0.058
20-24	0.209	0.184	0.154
25-29	0.171	0.158	0.139
30-34	0.112	0.092	0.092
35-39	0.058	0.049	0.029
40-44	0.028	0.015	0.011
45-49	0.008	0.007	0.002
TFR	3.37	2.86	2.43

Table F.33. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1998 for Rural

Age of woman	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	0.064	0.031	0.058	0.038	0.026	0.066	0.045	0.011	0.036	0.031	0.009	0.015	0.013	0.013	0.018
16	0.115	0.051	0.063	0.084	0.039	0.076	0.084	0.050	0.075	0.068	0.037	0.026	0.041	0.038	0.036
17	0.147	0.062	0.095	0.102	0.078	0.069	0.108	0.111	0.077	0.105	0.069	0.064	0.089	0.058	0.059
18	0.155	0.117	0.180	0.186	0.120	0.137	0.133	0.159	0.187	0.126	0.092	0.105	0.108	0.124	0.094
19	0.137	0.156	0.237	0.203	0.234	0.210	0.167	0.227	0.234	0.130	0.204	0.139	0.125	0.168	0.148
20	0.204	0.244	0.196	0.172	0.278	0.191	0.191	0.277	0.184	0.173	0.253	0.162	0.147	0.213	0.154
21	0.268	0.309	0.253	0.242	0.385	0.159	0.236	0.257	0.229	0.238	0.254	0.174	0.177	0.211	0.222
22	0.287	0.286	0.307	0.321	0.336	0.301	0.204	0.269	0.278	0.248	0.257	0.171	0.192	0.183	0.256
23	0.275	0.259	0.255	0.291	0.234	0.269	0.236	0.249	0.264	0.200	0.187	0.187	0.205	0.238	0.222
24	0.261	0.278	0.194	0.226	0.235	0.225	0.223	0.239	0.299	0.181	0.191	0.212	0.197	0.248	0.227
25	0.328	0.278	0.168	0.245	0.182	0.244	0.202	0.215	0.247	0.213	0.206	0.238	0.202	0.221	0.198
26	0.288	0.258	0.172	0.244	0.181	0.205	0.219	0.149	0.154	0.188	0.196	0.206	0.202	0.226	0.175
27	0.256	0.274	0.260	0.231	0.272	0.189	0.241	0.181	0.148	0.214	0.213	0.143	0.182	0.182	0.197
28	0.273	0.279	0.261	0.225	0.230	0.188	0.208	0.187	0.163	0.208	0.192	0.181	0.174	0.138	0.188
29	0.198	0.278	0.193	0.210	0.239	0.119	0.168	0.133	0.181	0.168	0.158	0.156	0.100	0.154	0.145
30	0.230	0.261	0.184	0.143	0.200	0.119	0.177	0.126	0.156	0.153	0.149	0.125	0.119	0.126	0.138
31	0.184	0.205	0.173	0.119	0.088	0.163	0.181	0.089	0.141	0.124	0.124	0.110	0.111	0.102	0.126
32	0.093	0.149	0.141	0.172	0.122	0.095	0.158	0.104	0.124	0.110	0.056	0.109	0.066	0.072	0.102
33	0.169	0.106	0.161	0.178	0.118	0.055	0.106	0.125	0.143	0.109	0.069	0.142	0.040	0.071	0.072
34	0.159	0.121	0.202	0.089	0.110	0.095	0.083	0.084	0.132	0.123	0.084	0.105	0.023	0.118	0.088
35	0.140	0.129	0.153	0.034	0.083	0.071	0.068	0.108	0.075	0.080	0.067	0.056	0.045	0.107	0.105
36	0.150	0.168	0.109	0.077	0.035	0.044	0.081	0.094	0.126	0.009	0.068	0.066	0.062	0.073	0.099
37	0.149	0.152	0.098	0.082	0.079	0.056	0.045	0.070	0.122	0.018	0.038	0.067	0.039	0.047	0.087
38	0.149	0.076	0.089	0.119	0.117	0.068	0.011	0.053	0.079	0.047	0.056	0.057	0.022	0.039	0.041
39	0.079	0.023	0.086	0.090	0.113	0.051	0.059	0.011	0.053	0.070	0.048	0.036	0.028	0.065	0.000
40	0.069	0.000	0.082	0.027	0.100	0.050	0.062	0.066	0.033	0.044	0.027	0.038	0.045	0.028	0.014
41	0.099	0.085	0.027	0.022	0.065	0.048	0.060	0.081	0.067	0.011	0.027	0.036	0.019	0.009	0.028
42	0.086	0.101	0.047	0.026	0.034	0.045	0.063	0.025	0.071	0.009	0.011	0.009	0.009	0.009	0.018
43	0.034	0.038	0.063	0.022	0.000	0.055	0.064	0.027	0.042	0.010	0.020	0.000	0.009	0.009	0.019
44	0.012	0.045	0.051	0.022	0.015	0.025	0.045	0.018	0.034	0.017	0.021	0.019	0.000	0.009	0.017
45	0.016	0.037	0.046	0.024	0.023	0.030	0.000	0.000	0.027	0.014	0.000	0.021	0.000	0.011	0.009
46	0.017	0.000	0.038	0.011	0.012	0.022	0.008	0.000	0.011	0.000	0.000	0.000	0.000	0.009	0.000
47	0.000	0.000	0.000	0.000	0.011	0.000	0.023	0.029	0.013	0.000	0.009	0.007	0.017	0.000	0.000
48	0.014	0.000	0.000	0.008	0.012	0.000	0.024	0.029	0.015	0.000	0.011	0.009	0.014	0.008	0.000
49	0.015	0.000	0.000	0.009	0.016	0.000	0.000	0.012	0.007	0.022	0.000	0.000	0.000	0.007	0.000
TFR	5.12	4.86	4.64	4.30	4.42	3.74	3.98	3.87	4.23	3.46	3.40	3.19	2.82	3.33	3.30

Table F.34. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1998 for Rural

Age group	Estimated Fertility Rates														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15-19	0.123	0.083	0.126	0.123	0.099	0.112	0.107	0.112	0.122	0.092	0.082	0.070	0.075	0.080	0.071
20-24	0.259	0.275	0.241	0.250	0.293	0.229	0.218	0.258	0.251	0.208	0.228	0.181	0.183	0.219	0.216
25-29	0.269	0.273	0.211	0.231	0.221	0.189	0.208	0.173	0.179	0.198	0.193	0.185	0.172	0.184	0.181
30-34	0.167	0.168	0.172	0.140	0.128	0.105	0.141	0.106	0.139	0.124	0.096	0.118	0.072	0.098	0.105
35-39	0.133	0.110	0.107	0.081	0.085	0.058	0.053	0.067	0.091	0.045	0.055	0.057	0.039	0.066	0.066
40-44	0.060	0.054	0.054	0.024	0.043	0.045	0.059	0.044	0.049	0.018	0.021	0.020	0.016	0.013	0.019
45-49	0.012	0.007	0.017	0.010	0.015	0.010	0.011	0.014	0.015	0.007	0.004	0.007	0.006	0.007	0.002
TFR	5.12	4.86	4.64	4.30	4.42	3.74	3.98	3.87	4.23	3.46	3.40	3.19	2.82	3.33	3.30

Table F.35. Estimated Three-Year Fertility Rates By Five Year Age Group Derived from TDHS-1998 for Rural

Age group	1984-1986	1987-1989	1990-1992	1993-1995	1996-1998
15-19	0.111	0.111	0.114	0.081	0.075
20-24	0.258	0.258	0.242	0.206	0.206
25-29	0.251	0.214	0.186	0.192	0.179
30-34	0.169	0.125	0.129	0.113	0.092
35-39	0.117	0.075	0.070	0.052	0.057
40-44	0.056	0.037	0.051	0.020	0.016
45-49	0.012	0.012	0.013	0.006	0.005
TFR	4.87	4.15	4.03	3.35	3.15

Table F.36. Estimated Five-Year Fertility Rates Derived from TDHS-1998 for Rural

Age group	1984-1988	1989-1993	1994-1998
15-19	0.111	0.109	0.076
20-24	0.264	0.233	0.206
25-29	0.241	0.189	0.183
30-34	0.155	0.123	0.098
35-39	0.103	0.063	0.057
40-44	0.047	0.043	0.018
45-49	0.012	0.011	0.005
TFR	4.67	3.86	3.21

Table F.37. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1998 for West Region

Age of woman	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	0.026	0.036	0.010	0.010	0.010	0.000	0.012	0.000	0.000	0.004	0.000	0.000	0.008	0.014	0.000
16	0.035	0.046	0.046	0.066	0.038	0.024	0.026	0.020	0.022	0.021	0.031	0.009	0.028	0.041	0.005
17	0.104	0.062	0.071	0.119	0.098	0.055	0.066	0.042	0.064	0.044	0.056	0.026	0.065	0.054	0.028
18	0.158	0.115	0.074	0.122	0.104	0.089	0.088	0.038	0.092	0.042	0.054	0.068	0.101	0.074	0.058
19	0.129	0.161	0.148	0.158	0.136	0.093	0.157	0.068	0.110	0.053	0.091	0.109	0.109	0.117	0.113
20	0.093	0.191	0.178	0.215	0.169	0.095	0.227	0.117	0.151	0.091	0.145	0.120	0.121	0.104	0.138
21	0.122	0.226	0.129	0.161	0.244	0.150	0.200	0.150	0.189	0.142	0.174	0.129	0.162	0.082	0.149
22	0.183	0.257	0.080	0.222	0.282	0.168	0.218	0.189	0.180	0.170	0.161	0.152	0.137	0.114	0.143
23	0.237	0.207	0.167	0.290	0.196	0.196	0.256	0.163	0.180	0.148	0.178	0.159	0.079	0.116	0.134
24	0.223	0.228	0.188	0.190	0.170	0.218	0.215	0.118	0.238	0.159	0.161	0.167	0.097	0.159	0.125
25	0.215	0.276	0.127	0.192	0.180	0.156	0.146	0.147	0.224	0.122	0.139	0.166	0.136	0.186	0.156
26	0.223	0.204	0.205	0.176	0.160	0.105	0.149	0.124	0.170	0.133	0.142	0.125	0.145	0.177	0.138
27	0.160	0.165	0.255	0.135	0.120	0.148	0.179	0.065	0.132	0.180	0.123	0.075	0.148	0.110	0.081
28	0.118	0.149	0.181	0.122	0.084	0.151	0.119	0.104	0.139	0.125	0.098	0.072	0.115	0.097	0.094
29	0.133	0.165	0.115	0.140	0.065	0.118	0.087	0.135	0.134	0.074	0.065	0.081	0.074	0.152	0.087
30	0.170	0.131	0.124	0.088	0.089	0.112	0.097	0.117	0.092	0.063	0.071	0.092	0.092	0.110	0.091
31	0.117	0.069	0.105	0.048	0.112	0.120	0.040	0.088	0.092	0.075	0.071	0.080	0.103	0.081	0.139
32	0.077	0.058	0.077	0.072	0.074	0.094	0.008	0.102	0.119	0.077	0.045	0.070	0.076	0.088	0.123
33	0.054	0.059	0.103	0.046	0.065	0.047	0.034	0.095	0.138	0.040	0.037	0.071	0.026	0.058	0.092
34	0.045	0.080	0.076	0.036	0.060	0.039	0.047	0.042	0.081	0.023	0.054	0.057	0.011	0.038	0.069
35	0.044	0.072	0.000	0.034	0.029	0.067	0.058	0.040	0.017	0.038	0.039	0.047	0.037	0.033	0.057
36	0.118	0.054	0.045	0.018	0.042	0.079	0.060	0.025	0.014	0.066	0.008	0.015	0.054	0.037	0.049
37	0.130	0.068	0.054	0.018	0.053	0.033	0.036	0.000	0.013	0.083	0.000	0.000	0.016	0.034	0.026
38	0.025	0.070	0.000	0.000	0.027	0.009	0.017	0.028	0.000	0.062	0.020	0.025	0.016	0.000	0.020
39	0.011	0.038	0.012	0.000	0.032	0.009	0.018	0.033	0.029	0.014	0.032	0.019	0.017	0.000	0.031
40	0.027	0.034	0.051	0.000	0.039	0.000	0.018	0.009	0.042	0.000	0.015	0.000	0.000	0.017	0.031
41	0.041	0.009	0.034	0.000	0.023	0.000	0.000	0.009	0.009	0.000	0.021	0.000	0.000	0.026	0.000
42	0.033	0.016	0.000	0.000	0.013	0.000	0.010	0.000	0.000	0.000	0.025	0.000	0.000	0.013	0.000
43	0.012	0.022	0.017	0.000	0.000	0.037	0.012	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
44	0.036	0.000	0.022	0.000	0.018	0.033	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.023	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
46	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	3.13	3.27	2.69	2.68	2.77	2.44	2.60	2.09	2.67	2.05	2.06	1.94	1.97	2.13	2.18

Table F.38. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1998 for West Region

Age group	Estimated Fertility Rates														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15-19	0.090	0.084	0.070	0.095	0.077	0.052	0.070	0.034	0.058	0.033	0.047	0.043	0.062	0.060	0.041
20-24	0.172	0.222	0.148	0.216	0.212	0.165	0.223	0.147	0.187	0.142	0.164	0.146	0.119	0.115	0.138
25-29	0.170	0.192	0.177	0.153	0.122	0.136	0.136	0.115	0.160	0.127	0.113	0.104	0.124	0.144	0.111
30-34	0.093	0.079	0.097	0.058	0.080	0.082	0.045	0.089	0.104	0.056	0.056	0.074	0.062	0.075	0.103
35-39	0.066	0.060	0.022	0.014	0.036	0.039	0.038	0.025	0.015	0.053	0.020	0.021	0.028	0.021	0.037
40-44	0.030	0.016	0.025	0.000	0.018	0.014	0.008	0.008	0.010	0.000	0.012	0.000	0.000	0.011	0.006
45-49	0.005	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	3.13	3.27	2.69	2.68	2.77	2.44	2.60	2.09	2.67	2.05	2.06	1.94	1.97	2.13	2.18

Table F.39. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1998 for West Region

Age group	1984-1986	1987-1989	1990-1992	1993-1995	1996-1998
15-19	0.081	0.075	0.054	0.041	0.054
20-24	0.181	0.198	0.186	0.151	0.124
25-29	0.179	0.137	0.137	0.115	0.126
30-34	0.090	0.074	0.079	0.062	0.080
35-39	0.049	0.030	0.026	0.031	0.028
40-44	0.024	0.011	0.009	0.004	0.006
45-49	0.002	0.003	0.000	0.000	0.000
TFR	3.03	2.63	2.45	2.01	2.09

Table F.40. Estimated Five-Year Fertility Rates Derived from TDHS-1998 for West Region

Age group	1984-1988	1989-1993	1994-1998
15-19	0.083	0.049	0.050
20-24	0.194	0.173	0.136
25-29	0.163	0.135	0.119
30-34	0.081	0.075	0.074
35-39	0.040	0.034	0.025
40-44	0.018	0.008	0.006
45-49	0.002	0.000	0.000
TFR	2.91	2.37	2.05

Table F.41. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1998 for South Region

Age of woman	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	0.015	0.015	0.027	0.024	0.034	0.012	0.012	0.025	0.025	0.011	0.020	0.017	0.016	0.009	0.010
16	0.035	0.030	0.031	0.027	0.051	0.033	0.071	0.049	0.024	0.013	0.043	0.019	0.035	0.033	0.036
17	0.103	0.053	0.073	0.045	0.086	0.036	0.098	0.122	0.057	0.086	0.092	0.062	0.039	0.060	0.064
18	0.164	0.062	0.085	0.115	0.094	0.067	0.083	0.168	0.102	0.129	0.125	0.100	0.052	0.114	0.067
19	0.178	0.083	0.040	0.119	0.136	0.180	0.095	0.174	0.095	0.120	0.096	0.121	0.128	0.134	0.104
20	0.181	0.204	0.112	0.159	0.177	0.200	0.178	0.168	0.104	0.154	0.097	0.160	0.133	0.138	0.131
21	0.192	0.273	0.227	0.208	0.252	0.186	0.229	0.217	0.171	0.145	0.180	0.175	0.093	0.108	0.099
22	0.191	0.249	0.302	0.223	0.233	0.158	0.201	0.222	0.202	0.164	0.197	0.161	0.106	0.103	0.188
23	0.190	0.222	0.227	0.223	0.178	0.189	0.196	0.173	0.193	0.165	0.138	0.129	0.183	0.161	0.235
24	0.204	0.311	0.173	0.229	0.185	0.237	0.143	0.186	0.231	0.146	0.170	0.215	0.252	0.194	0.207
25	0.225	0.318	0.242	0.199	0.236	0.185	0.168	0.163	0.267	0.186	0.220	0.263	0.201	0.163	0.167
26	0.189	0.288	0.197	0.227	0.274	0.127	0.271	0.149	0.214	0.140	0.191	0.197	0.119	0.119	0.138
27	0.143	0.320	0.180	0.242	0.280	0.122	0.279	0.166	0.189	0.095	0.183	0.215	0.099	0.131	0.156
28	0.124	0.271	0.223	0.120	0.222	0.184	0.245	0.147	0.182	0.133	0.131	0.157	0.084	0.141	0.160
29	0.140	0.194	0.175	0.147	0.208	0.194	0.211	0.159	0.150	0.176	0.148	0.140	0.079	0.116	0.152
30	0.194	0.140	0.137	0.138	0.210	0.197	0.160	0.145	0.133	0.113	0.166	0.090	0.110	0.116	0.130
31	0.194	0.137	0.207	0.120	0.110	0.165	0.178	0.101	0.138	0.062	0.102	0.074	0.105	0.156	0.116
32	0.098	0.140	0.208	0.225	0.124	0.103	0.144	0.143	0.109	0.113	0.063	0.138	0.086	0.128	0.107
33	0.134	0.171	0.171	0.169	0.118	0.067	0.069	0.150	0.077	0.098	0.058	0.090	0.056	0.097	0.076
34	0.182	0.179	0.191	0.085	0.039	0.067	0.067	0.107	0.088	0.060	0.083	0.042	0.061	0.083	0.072
35	0.167	0.155	0.152	0.094	0.035	0.056	0.067	0.070	0.083	0.037	0.061	0.032	0.084	0.075	0.081
36	0.185	0.100	0.101	0.108	0.025	0.050	0.056	0.046	0.065	0.052	0.019	0.019	0.064	0.041	0.059
37	0.070	0.124	0.066	0.101	0.023	0.071	0.050	0.097	0.065	0.068	0.018	0.036	0.040	0.016	0.014
38	0.076	0.070	0.061	0.065	0.105	0.086	0.023	0.087	0.036	0.045	0.052	0.017	0.018	0.078	0.000
39	0.063	0.000	0.034	0.030	0.135	0.075	0.021	0.049	0.000	0.038	0.046	0.000	0.051	0.125	0.000
40	0.045	0.032	0.037	0.000	0.031	0.032	0.050	0.045	0.023	0.017	0.019	0.022	0.084	0.051	0.018
41	0.104	0.023	0.062	0.037	0.000	0.060	0.032	0.026	0.021	0.000	0.017	0.019	0.045	0.000	0.033
42	0.133	0.026	0.044	0.030	0.000	0.033	0.000	0.000	0.024	0.000	0.000	0.017	0.000	0.000	0.016
43	0.044	0.089	0.076	0.022	0.000	0.000	0.000	0.031	0.031	0.000	0.000	0.047	0.000	0.019	0.000
44	0.043	0.087	0.087	0.050	0.000	0.030	0.000	0.035	0.000	0.033	0.000	0.021	0.000	0.033	0.000
45	0.031	0.043	0.085	0.043	0.026	0.044	0.000	0.000	0.000	0.030	0.000	0.000	0.000	0.023	0.000
46	0.000	0.000	0.084	0.000	0.045	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	4.04	4.41	4.12	3.63	3.67	3.27	3.40	3.42	3.10	2.63	2.74	2.80	2.42	2.77	2.64

Table F.42. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1998 for South Region

Age group	Estimated Fertility Rates														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15-19	0.099	0.049	0.051	0.066	0.080	0.066	0.072	0.108	0.061	0.072	0.075	0.064	0.054	0.070	0.056
20-24	0.191	0.252	0.208	0.209	0.205	0.194	0.189	0.193	0.180	0.155	0.157	0.168	0.153	0.141	0.172
25-29	0.164	0.278	0.203	0.187	0.244	0.162	0.235	0.156	0.201	0.146	0.175	0.195	0.116	0.134	0.155
30-34	0.160	0.153	0.183	0.147	0.120	0.120	0.124	0.129	0.109	0.089	0.094	0.087	0.084	0.116	0.100
35-39	0.112	0.090	0.083	0.080	0.065	0.068	0.044	0.070	0.050	0.048	0.039	0.021	0.051	0.067	0.031
40-44	0.074	0.051	0.061	0.028	0.006	0.031	0.016	0.027	0.020	0.010	0.007	0.025	0.026	0.021	0.013
45-49	0.006	0.009	0.034	0.009	0.014	0.014	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.005	0.000
TFR	4.04	4.41	4.12	3.63	3.67	3.27	3.40	3.42	3.10	2.63	2.74	2.80	2.42	2.77	2.64

Table F.43. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1998 for South Region

Age group	1984-1986	1987-1989	1990-1992	1993-1995	1996-1998
15-19	0.066	0.071	0.080	0.070	0.060
20-24	0.217	0.203	0.188	0.160	0.155
25-29	0.215	0.198	0.197	0.172	0.135
30-34	0.166	0.129	0.121	0.090	0.100
35-39	0.095	0.071	0.054	0.036	0.050
40-44	0.062	0.022	0.021	0.014	0.020
45-49	0.016	0.012	0.000	0.002	0.002
TFR	4.19	3.52	3.31	2.72	2.61

Table F.44. Estimated Five-Year Fertility Rates Derived from TDHS-1998 for South Region

Age group	1984-1988	1989-1993	1994-1998
15-19	0.069	0.075	0.064
20-24	0.213	0.182	0.158
25-29	0.215	0.180	0.155
30-34	0.153	0.114	0.096
35-39	0.086	0.056	0.042
40-44	0.044	0.021	0.018
45-49	0.014	0.004	0.001
TFR	3.97	3.16	2.67

Table F.45. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1998 for Central Region

Age of woman	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	0.046	0.033	0.017	0.036	0.007	0.050	0.008	0.000	0.047	0.027	0.007	0.019	0.000	0.006	0.012
16	0.101	0.064	0.017	0.076	0.014	0.065	0.058	0.039	0.061	0.070	0.020	0.027	0.006	0.035	0.023
17	0.183	0.078	0.066	0.085	0.107	0.083	0.111	0.074	0.074	0.102	0.075	0.032	0.062	0.068	0.069
18	0.166	0.105	0.150	0.112	0.159	0.114	0.085	0.127	0.112	0.116	0.116	0.054	0.118	0.108	0.116
19	0.106	0.135	0.239	0.167	0.180	0.137	0.122	0.156	0.155	0.136	0.180	0.098	0.127	0.133	0.131
20	0.156	0.214	0.302	0.132	0.166	0.161	0.232	0.176	0.163	0.184	0.208	0.187	0.184	0.207	0.139
21	0.237	0.279	0.320	0.148	0.232	0.173	0.280	0.235	0.181	0.218	0.205	0.196	0.172	0.195	0.163
22	0.258	0.259	0.299	0.181	0.264	0.267	0.253	0.267	0.207	0.197	0.216	0.140	0.113	0.185	0.163
23	0.192	0.245	0.243	0.230	0.211	0.249	0.128	0.223	0.182	0.116	0.185	0.136	0.146	0.187	0.210
24	0.176	0.218	0.240	0.249	0.194	0.241	0.126	0.143	0.209	0.081	0.170	0.158	0.163	0.149	0.258
25	0.209	0.178	0.218	0.148	0.172	0.182	0.203	0.147	0.186	0.099	0.152	0.185	0.176	0.163	0.222
26	0.205	0.121	0.130	0.157	0.122	0.105	0.245	0.178	0.121	0.103	0.173	0.193	0.201	0.149	0.173
27	0.211	0.113	0.188	0.163	0.064	0.142	0.203	0.125	0.194	0.127	0.216	0.128	0.203	0.119	0.147
28	0.200	0.117	0.201	0.167	0.084	0.125	0.133	0.098	0.178	0.132	0.205	0.075	0.150	0.113	0.180
29	0.154	0.164	0.155	0.165	0.120	0.065	0.126	0.112	0.132	0.173	0.146	0.070	0.050	0.136	0.178
30	0.168	0.191	0.193	0.059	0.082	0.068	0.159	0.064	0.149	0.160	0.071	0.085	0.062	0.111	0.166
31	0.177	0.116	0.135	0.067	0.047	0.110	0.112	0.034	0.078	0.122	0.063	0.080	0.086	0.087	0.110
32	0.125	0.073	0.066	0.096	0.055	0.057	0.051	0.052	0.064	0.100	0.054	0.062	0.050	0.092	0.094
33	0.136	0.089	0.060	0.078	0.047	0.032	0.023	0.082	0.082	0.067	0.080	0.097	0.041	0.098	0.075
34	0.172	0.095	0.111	0.059	0.051	0.058	0.022	0.071	0.068	0.060	0.066	0.070	0.043	0.051	0.039
35	0.190	0.078	0.112	0.055	0.029	0.051	0.059	0.045	0.022	0.031	0.042	0.016	0.009	0.021	0.061
36	0.086	0.019	0.096	0.027	0.000	0.057	0.077	0.012	0.042	0.023	0.040	0.033	0.016	0.009	0.073
37	0.016	0.029	0.058	0.016	0.014	0.105	0.058	0.013	0.068	0.033	0.023	0.049	0.017	0.000	0.051
38	0.047	0.032	0.044	0.019	0.031	0.040	0.018	0.015	0.037	0.012	0.022	0.023	0.000	0.016	0.016
39	0.033	0.016	0.033	0.015	0.019	0.000	0.027	0.000	0.000	0.051	0.012	0.011	0.000	0.029	0.000
40	0.016	0.032	0.016	0.016	0.000	0.000	0.047	0.027	0.000	0.058	0.000	0.000	0.000	0.011	0.000
41	0.018	0.016	0.017	0.016	0.000	0.000	0.038	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42	0.000	0.000	0.016	0.017	0.000	0.016	0.029	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
43	0.000	0.051	0.000	0.016	0.000	0.031	0.032	0.015	0.000	0.000	0.013	0.000	0.000	0.012	0.000
44	0.000	0.040	0.000	0.000	0.000	0.016	0.016	0.000	0.000	0.000	0.015	0.000	0.000	0.014	0.000
45	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.000	0.000
46	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000
47	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
48	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.000
TFR	3.85	3.20	3.74	2.77	2.47	2.80	3.08	2.58	2.83	2.63	2.77	2.22	2.19	2.51	2.87

Table F.46. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1998 for Central Region

Age group	Estimated Fertility Rates														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15-19	0.120	0.083	0.098	0.095	0.093	0.090	0.077	0.079	0.090	0.090	0.080	0.046	0.063	0.070	0.070
20-24	0.204	0.243	0.281	0.188	0.213	0.218	0.204	0.209	0.188	0.159	0.197	0.163	0.156	0.184	0.187
25-29	0.196	0.139	0.178	0.160	0.112	0.124	0.182	0.132	0.162	0.127	0.178	0.130	0.156	0.136	0.180
30-34	0.155	0.113	0.113	0.072	0.056	0.065	0.073	0.061	0.088	0.102	0.067	0.079	0.056	0.088	0.097
35-39	0.074	0.035	0.069	0.026	0.019	0.051	0.048	0.017	0.034	0.030	0.028	0.026	0.008	0.015	0.040
40-44	0.007	0.028	0.010	0.013	0.000	0.013	0.032	0.019	0.000	0.012	0.006	0.000	0.000	0.008	0.000
45-49	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.006	0.000	0.000	0.000	0.000	0.000
TFR	3.85	3.20	3.74	2.77	2.47	2.80	3.08	2.58	2.83	2.63	2.77	2.22	2.19	2.51	2.87

Table F.47. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1998 for Central Region

Age group	1984-1986	1987-1989	1990-1992	1993-1995	1996-1998
15-19	0.100	0.093	0.082	0.072	0.068
20-24	0.243	0.206	0.200	0.173	0.176
25-29	0.171	0.132	0.159	0.145	0.157
30-34	0.127	0.064	0.074	0.082	0.080
35-39	0.059	0.032	0.033	0.028	0.021
40-44	0.015	0.008	0.017	0.006	0.003
45-49	0.005	0.000	0.001	0.002	0.000
TFR	3.60	2.68	2.83	2.54	2.52

Table F.48. Estimated Five-Year Fertility Rates Derived from TDHS-1998 for Central Region

Age group	1984-1988	1989-1993	1994-1998
15-19	0.098	0.085	0.066
20-24	0.226	0.196	0.177
25-29	0.157	0.145	0.156
30-34	0.102	0.078	0.077
35-39	0.045	0.036	0.024
40-44	0.011	0.015	0.003
45-49	0.003	0.002	0.000
TFR	3.21	2.78	2.51

Table F.49. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1998 for North Region

Age of woman	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	0.044	0.000	0.000	0.000	0.047	0.045	0.026	0.000	0.024	0.020	0.000	0.000	0.000	0.015	0.000
16	0.051	0.023	0.051	0.054	0.030	0.047	0.086	0.026	0.080	0.024	0.000	0.041	0.000	0.018	0.000
17	0.030	0.026	0.136	0.073	0.052	0.030	0.088	0.021	0.075	0.053	0.024	0.080	0.020	0.022	0.000
18	0.051	0.063	0.212	0.112	0.122	0.160	0.085	0.044	0.063	0.128	0.055	0.073	0.081	0.079	0.089
19	0.150	0.182	0.289	0.155	0.177	0.222	0.151	0.113	0.153	0.214	0.157	0.109	0.168	0.098	0.120
20	0.304	0.256	0.211	0.249	0.203	0.222	0.232	0.223	0.222	0.197	0.174	0.128	0.240	0.116	0.119
21	0.303	0.316	0.264	0.260	0.310	0.181	0.254	0.232	0.199	0.141	0.159	0.194	0.256	0.210	0.238
22	0.215	0.394	0.348	0.179	0.229	0.186	0.219	0.230	0.229	0.199	0.202	0.244	0.213	0.248	0.238
23	0.226	0.316	0.288	0.209	0.202	0.154	0.206	0.241	0.249	0.162	0.205	0.227	0.220	0.228	0.277
24	0.280	0.332	0.194	0.310	0.284	0.179	0.317	0.263	0.191	0.126	0.190	0.277	0.197	0.215	0.274
25	0.342	0.349	0.205	0.254	0.168	0.289	0.292	0.268	0.058	0.195	0.151	0.329	0.201	0.221	0.154
26	0.316	0.233	0.207	0.166	0.125	0.169	0.222	0.168	0.096	0.205	0.124	0.233	0.232	0.171	0.139
27	0.230	0.290	0.149	0.202	0.164	0.032	0.293	0.147	0.119	0.267	0.120	0.196	0.168	0.091	0.173
28	0.186	0.237	0.185	0.233	0.114	0.033	0.209	0.106	0.122	0.217	0.175	0.237	0.146	0.103	0.138
29	0.196	0.096	0.284	0.218	0.203	0.145	0.126	0.060	0.158	0.149	0.274	0.173	0.089	0.095	0.105
30	0.197	0.201	0.164	0.079	0.214	0.175	0.109	0.062	0.118	0.159	0.177	0.122	0.073	0.086	0.120
31	0.177	0.235	0.146	0.032	0.155	0.108	0.110	0.108	0.031	0.118	0.027	0.124	0.096	0.118	0.116
32	0.184	0.137	0.173	0.143	0.095	0.079	0.068	0.110	0.054	0.125	0.061	0.107	0.074	0.094	0.097
33	0.149	0.047	0.047	0.135	0.056	0.064	0.037	0.034	0.054	0.109	0.064	0.090	0.053	0.072	0.072
34	0.070	0.038	0.146	0.000	0.067	0.057	0.061	0.037	0.000	0.083	0.028	0.063	0.030	0.104	0.074
35	0.000	0.072	0.157	0.047	0.091	0.034	0.027	0.090	0.037	0.034	0.057	0.028	0.031	0.088	0.079
36	0.039	0.077	0.074	0.038	0.094	0.000	0.000	0.081	0.030	0.000	0.070	0.028	0.027	0.000	0.030
37	0.042	0.040	0.040	0.036	0.038	0.048	0.000	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
38	0.053	0.000	0.041	0.077	0.036	0.038	0.045	0.000	0.032	0.000	0.000	0.000	0.000	0.027	0.000
39	0.070	0.000	0.044	0.040	0.038	0.000	0.036	0.000	0.086	0.000	0.028	0.000	0.000	0.034	0.000
40	0.054	0.000	0.000	0.000	0.079	0.000	0.000	0.000	0.044	0.000	0.033	0.055	0.000	0.000	0.034
41	0.051	0.000	0.000	0.000	0.043	0.000	0.000	0.034	0.000	0.000	0.000	0.065	0.000	0.030	0.037
42	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.036	0.000	0.000	0.000	0.000	0.000	0.027	0.000
43	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
44	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.061	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.044	0.000
46	0.000	0.000	0.000	0.059	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.036	0.000
47	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	4.01	3.96	4.06	3.42	3.43	2.69	3.38	2.77	2.52	2.93	2.55	3.22	2.62	2.69	2.72

Table F.50. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1998 for North Region

Age group	Estimated Fertility Rates														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15-19	0.065	0.059	0.138	0.079	0.085	0.101	0.087	0.041	0.079	0.088	0.047	0.061	0.054	0.046	0.042
20-24	0.266	0.323	0.261	0.241	0.245	0.184	0.245	0.238	0.218	0.165	0.186	0.214	0.225	0.204	0.229
25-29	0.254	0.241	0.206	0.215	0.155	0.133	0.228	0.150	0.111	0.207	0.169	0.234	0.167	0.136	0.142
30-34	0.155	0.132	0.135	0.078	0.117	0.096	0.077	0.070	0.051	0.119	0.071	0.101	0.065	0.095	0.096
35-39	0.041	0.038	0.071	0.048	0.059	0.024	0.022	0.041	0.037	0.007	0.031	0.011	0.012	0.030	0.022
40-44	0.021	0.000	0.000	0.000	0.024	0.000	0.016	0.014	0.009	0.000	0.007	0.024	0.000	0.011	0.014
45-49	0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.000
TFR	4.01	3.96	4.06	3.42	3.43	2.69	3.38	2.77	2.52	2.93	2.55	3.22	2.62	2.69	2.72

Table F.51. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1998 for North Region

Age group	1984-1986	1987-1989	1990-1992	1993-1995	1996-1998
15-19	0.087	0.088	0.069	0.065	0.047
20-24	0.283	0.224	0.234	0.188	0.219
25-29	0.234	0.167	0.163	0.203	0.148
30-34	0.141	0.097	0.066	0.097	0.085
35-39	0.050	0.044	0.033	0.016	0.021
40-44	0.007	0.008	0.013	0.010	0.009
45-49	0.000	0.008	0.000	0.000	0.005
TFR	4.01	3.18	2.89	2.90	2.68

Table F.52. Estimated Five-Year Fertility Rates Derived from TDHS-1998 for North Region

Age group	1984-1988	1989-1993	1994-1998
15-19	0.085	0.079	0.050
20-24	0.267	0.210	0.212
25-29	0.214	0.166	0.169
30-34	0.124	0.083	0.086
35-39	0.051	0.026	0.021
40-44	0.009	0.008	0.011
45-49	0.005	0.000	0.003
TFR	3.78	2.86	2.76

Table F.53. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-1998 for East Region

Age of woman	Single Years														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15	0.074	0.068	0.084	0.035	0.047	0.076	0.074	0.035	0.057	0.040	0.045	0.007	0.021	0.010	0.024
16	0.162	0.127	0.138	0.078	0.106	0.107	0.085	0.090	0.070	0.102	0.081	0.037	0.053	0.037	0.031
17	0.161	0.193	0.159	0.131	0.176	0.116	0.138	0.193	0.111	0.139	0.076	0.073	0.111	0.060	0.067
18	0.143	0.242	0.176	0.217	0.184	0.169	0.269	0.233	0.287	0.136	0.122	0.131	0.119	0.131	0.097
19	0.165	0.246	0.181	0.235	0.238	0.179	0.294	0.231	0.311	0.160	0.266	0.227	0.176	0.175	0.158
20	0.290	0.195	0.188	0.191	0.344	0.217	0.183	0.302	0.269	0.208	0.314	0.238	0.172	0.174	0.179
21	0.290	0.201	0.180	0.265	0.458	0.267	0.207	0.342	0.292	0.242	0.273	0.211	0.189	0.187	0.216
22	0.260	0.295	0.301	0.324	0.396	0.298	0.239	0.382	0.282	0.277	0.223	0.247	0.259	0.251	0.252
23	0.323	0.298	0.368	0.371	0.347	0.220	0.345	0.350	0.384	0.342	0.238	0.313	0.259	0.279	0.166
24	0.366	0.313	0.288	0.363	0.306	0.220	0.330	0.319	0.424	0.232	0.264	0.252	0.230	0.266	0.146
25	0.423	0.372	0.212	0.303	0.234	0.341	0.276	0.368	0.344	0.151	0.288	0.148	0.169	0.295	0.166
26	0.363	0.330	0.260	0.251	0.214	0.322	0.319	0.306	0.299	0.256	0.322	0.234	0.228	0.337	0.179
27	0.388	0.251	0.401	0.227	0.379	0.256	0.288	0.374	0.294	0.267	0.195	0.238	0.258	0.274	0.243
28	0.431	0.265	0.406	0.271	0.367	0.249	0.260	0.375	0.316	0.221	0.164	0.214	0.233	0.187	0.268
29	0.260	0.418	0.353	0.257	0.265	0.170	0.376	0.241	0.328	0.180	0.156	0.255	0.234	0.199	0.225
30	0.342	0.342	0.282	0.178	0.295	0.120	0.364	0.267	0.275	0.202	0.211	0.223	0.205	0.147	0.162
31	0.355	0.349	0.349	0.320	0.263	0.144	0.338	0.226	0.220	0.193	0.272	0.166	0.152	0.131	0.186
32	0.217	0.364	0.394	0.330	0.275	0.128	0.343	0.182	0.210	0.118	0.179	0.204	0.149	0.118	0.215
33	0.307	0.209	0.328	0.248	0.247	0.160	0.261	0.209	0.276	0.114	0.136	0.195	0.161	0.177	0.149
34	0.302	0.178	0.213	0.268	0.201	0.210	0.246	0.154	0.293	0.183	0.173	0.136	0.096	0.266	0.203
35	0.202	0.194	0.302	0.252	0.212	0.195	0.337	0.214	0.234	0.161	0.108	0.096	0.033	0.238	0.210
36	0.248	0.312	0.265	0.200	0.208	0.165	0.236	0.242	0.327	0.052	0.098	0.108	0.057	0.166	0.204
37	0.355	0.239	0.238	0.156	0.294	0.050	0.148	0.214	0.336	0.081	0.078	0.131	0.091	0.131	0.212
38	0.234	0.128	0.197	0.206	0.257	0.057	0.103	0.207	0.216	0.121	0.109	0.078	0.080	0.060	0.110
39	0.108	0.151	0.109	0.173	0.232	0.063	0.146	0.152	0.211	0.125	0.123	0.082	0.026	0.048	0.030
40	0.139	0.069	0.128	0.082	0.222	0.094	0.159	0.143	0.102	0.146	0.072	0.122	0.054	0.025	0.063
41	0.162	0.270	0.071	0.049	0.149	0.087	0.192	0.126	0.175	0.153	0.085	0.091	0.091	0.053	0.076
42	0.145	0.277	0.098	0.033	0.100	0.103	0.162	0.057	0.191	0.058	0.103	0.084	0.054	0.060	0.026
43	0.124	0.105	0.106	0.074	0.035	0.097	0.127	0.058	0.077	0.032	0.088	0.052	0.042	0.036	0.089
44	0.138	0.119	0.107	0.067	0.076	0.033	0.074	0.042	0.073	0.019	0.064	0.058	0.000	0.021	0.070
45	0.069	0.089	0.122	0.000	0.086	0.075	0.000	0.025	0.085	0.029	0.019	0.064	0.000	0.000	0.041
46	0.075	0.022	0.045	0.000	0.035	0.084	0.019	0.034	0.075	0.021	0.030	0.000	0.000	0.000	0.050
47	0.075	0.049	0.023	0.000	0.040	0.102	0.052	0.075	0.069	0.025	0.043	0.015	0.038	0.000	0.028
48	0.000	0.073	0.050	0.043	0.044	0.039	0.070	0.068	0.057	0.068	0.025	0.021	0.029	0.019	0.000
49	0.000	0.000	0.074	0.070	0.000	0.000	0.000	0.034	0.035	0.076	0.000	0.000	0.000	0.015	0.000
TFR	7.70	7.36	7.19	6.27	7.33	5.21	7.06	6.87	7.60	4.93	5.04	4.75	4.07	4.57	4.54

Table F.54. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-1998 for East Region

Age group	Estimated Fertility Rates														
	1983/84	1984/1985	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
15-19	0.141	0.175	0.148	0.139	0.150	0.129	0.172	0.156	0.167	0.115	0.118	0.095	0.096	0.082	0.075
20-24	0.306	0.260	0.265	0.303	0.370	0.244	0.261	0.339	0.330	0.260	0.262	0.252	0.222	0.231	0.192
25-29	0.373	0.327	0.326	0.262	0.292	0.268	0.304	0.333	0.316	0.215	0.225	0.218	0.224	0.258	0.216
30-34	0.305	0.289	0.313	0.269	0.256	0.152	0.310	0.207	0.255	0.162	0.194	0.185	0.153	0.168	0.183
35-39	0.229	0.205	0.222	0.197	0.241	0.106	0.194	0.206	0.265	0.108	0.103	0.099	0.057	0.129	0.153
40-44	0.142	0.168	0.102	0.061	0.116	0.083	0.143	0.085	0.124	0.081	0.082	0.081	0.048	0.039	0.065
45-49	0.044	0.046	0.063	0.023	0.041	0.060	0.028	0.047	0.064	0.044	0.023	0.020	0.014	0.007	0.024
TFR	7.70	7.36	7.19	6.27	7.33	5.21	7.06	6.87	7.60	4.93	5.04	4.75	4.07	4.57	4.54

Table F.55. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-1998 for East Region

Age group	1984-1986	1987-1989	1990-1992	1993-1995	1996-1998
15-19	0.155	0.140	0.165	0.110	0.085
20-24	0.277	0.306	0.310	0.258	0.215
25-29	0.342	0.274	0.318	0.219	0.233
30-34	0.302	0.226	0.258	0.180	0.168
35-39	0.219	0.181	0.221	0.103	0.113
40-44	0.137	0.087	0.117	0.082	0.051
45-49	0.051	0.041	0.046	0.029	0.015
TFR	7.42	6.27	7.18	4.91	4.39

Table F.56. Estimated Five-Year Fertility Rates Derived from TDHS-1998 for East Region

Age group	1984-1988	1989-1993	1994-1998
15-19	0.151	0.148	0.093
20-24	0.301	0.287	0.232
25-29	0.316	0.287	0.228
30-34	0.286	0.217	0.176
35-39	0.219	0.176	0.108
40-44	0.118	0.103	0.063
45-49	0.043	0.049	0.017
TFR	7.17	6.33	4.59

Table F.57. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-2003 for Urban

Age of woman	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	0.026	0.031	0.020	0.016	0.022	0.019	0.009	0.015	0.017	0.008	0.014	0.012	0.008	0.003	0.004
16	0.059	0.052	0.056	0.039	0.040	0.037	0.034	0.039	0.031	0.037	0.014	0.027	0.025	0.007	0.017
17	0.100	0.083	0.097	0.082	0.085	0.072	0.068	0.052	0.038	0.055	0.058	0.056	0.048	0.048	0.040
18	0.110	0.125	0.114	0.123	0.117	0.115	0.088	0.072	0.070	0.056	0.092	0.077	0.078	0.075	0.062
19	0.138	0.157	0.130	0.133	0.156	0.136	0.114	0.104	0.126	0.074	0.096	0.095	0.115	0.084	0.082
20	0.190	0.186	0.165	0.157	0.180	0.132	0.165	0.150	0.150	0.118	0.120	0.109	0.114	0.105	0.092
21	0.212	0.189	0.164	0.207	0.187	0.159	0.192	0.171	0.140	0.133	0.127	0.122	0.124	0.103	0.129
22	0.218	0.186	0.146	0.214	0.196	0.216	0.187	0.155	0.153	0.128	0.135	0.154	0.146	0.102	0.147
23	0.217	0.200	0.155	0.192	0.164	0.184	0.195	0.199	0.172	0.144	0.163	0.167	0.140	0.115	0.146
24	0.204	0.222	0.153	0.186	0.156	0.154	0.176	0.248	0.163	0.180	0.156	0.185	0.167	0.125	0.149
25	0.161	0.197	0.153	0.182	0.153	0.168	0.149	0.204	0.144	0.185	0.149	0.189	0.180	0.120	0.134
26	0.143	0.200	0.135	0.168	0.176	0.167	0.140	0.159	0.147	0.138	0.145	0.170	0.137	0.135	0.153
27	0.132	0.195	0.125	0.148	0.170	0.120	0.135	0.141	0.134	0.107	0.131	0.164	0.118	0.142	0.130
28	0.116	0.148	0.118	0.143	0.124	0.107	0.134	0.134	0.116	0.101	0.121	0.155	0.114	0.114	0.089
29	0.126	0.121	0.086	0.130	0.113	0.115	0.127	0.128	0.123	0.124	0.116	0.141	0.126	0.092	0.085
30	0.117	0.106	0.070	0.121	0.110	0.083	0.115	0.112	0.142	0.119	0.110	0.122	0.131	0.086	0.072
31	0.121	0.124	0.088	0.098	0.121	0.080	0.106	0.092	0.137	0.091	0.098	0.094	0.124	0.067	0.071
32	0.106	0.103	0.095	0.087	0.086	0.090	0.098	0.076	0.106	0.071	0.088	0.083	0.085	0.055	0.058
33	0.058	0.072	0.064	0.082	0.060	0.063	0.071	0.086	0.081	0.072	0.072	0.065	0.036	0.068	0.049
34	0.045	0.065	0.054	0.050	0.072	0.066	0.066	0.084	0.073	0.089	0.059	0.049	0.051	0.070	0.056
35	0.048	0.054	0.044	0.054	0.055	0.064	0.054	0.049	0.046	0.064	0.040	0.047	0.059	0.044	0.048
36	0.043	0.043	0.034	0.042	0.047	0.032	0.025	0.040	0.033	0.041	0.019	0.043	0.038	0.029	0.028
37	0.049	0.034	0.018	0.019	0.048	0.017	0.023	0.022	0.035	0.035	0.025	0.047	0.029	0.039	0.031
38	0.052	0.030	0.038	0.018	0.033	0.022	0.033	0.014	0.025	0.034	0.024	0.041	0.027	0.035	0.028
39	0.033	0.028	0.045	0.019	0.022	0.015	0.022	0.013	0.017	0.024	0.010	0.031	0.014	0.027	0.014
40	0.024	0.017	0.019	0.024	0.023	0.018	0.007	0.012	0.007	0.009	0.008	0.020	0.019	0.014	0.011
41	0.026	0.015	0.011	0.019	0.010	0.019	0.009	0.011	0.000	0.010	0.017	0.011	0.015	0.009	0.008
42	0.020	0.020	0.027	0.015	0.003	0.010	0.004	0.009	0.000	0.016	0.017	0.006	0.000	0.015	0.007
43	0.017	0.013	0.025	0.016	0.007	0.013	0.007	0.004	0.009	0.011	0.003	0.000	0.006	0.005	0.005
44	0.019	0.000	0.000	0.015	0.016	0.011	0.013	0.000	0.008	0.000	0.000	0.000	0.007	0.000	0.003
45	0.011	0.000	0.000	0.007	0.010	0.008	0.014	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000
46	0.006	0.000	0.013	0.000	0.000	0.005	0.012	0.004	0.000	0.000	0.004	0.009	0.000	0.000	0.000
47	0.000	0.006	0.011	0.000	0.000	0.000	0.005	0.004	0.000	0.000	0.003	0.008	0.000	0.000	0.000
48	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	2.95	3.03	2.47	2.80	2.76	2.52	2.60	2.60	2.44	2.27	2.24	2.50	2.28	1.94	1.95

Table F.58. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-2003 for Urban

Age group	Estimated Fertility Rates														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15-19	0.087	0.090	0.083	0.079	0.084	0.076	0.063	0.056	0.056	0.046	0.055	0.053	0.055	0.044	0.041
20-24	0.208	0.197	0.156	0.191	0.177	0.169	0.183	0.185	0.156	0.141	0.140	0.147	0.138	0.110	0.133
25-29	0.135	0.172	0.123	0.154	0.147	0.135	0.137	0.153	0.133	0.131	0.132	0.164	0.135	0.121	0.118
30-34	0.090	0.094	0.074	0.087	0.090	0.076	0.091	0.090	0.108	0.088	0.085	0.083	0.085	0.069	0.061
35-39	0.045	0.038	0.036	0.030	0.041	0.030	0.031	0.027	0.031	0.040	0.024	0.042	0.033	0.035	0.030
40-44	0.021	0.013	0.017	0.018	0.012	0.014	0.008	0.007	0.005	0.009	0.009	0.007	0.009	0.009	0.007
45-49	0.003	0.003	0.005	0.001	0.002	0.003	0.006	0.001	0.000	0.000	0.003	0.003	0.000	0.000	0.000
TFR	2.95	3.03	2.47	2.80	2.76	2.52	2.60	2.60	2.44	2.27	2.24	2.50	2.28	1.94	1.95

Table F.59. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-2003 for Urban

Age group	1989-1991	1992-1994	1995-1997	1998-2000	2001-2003
15-19	0.087	0.079	0.059	0.051	0.046
20-24	0.187	0.179	0.174	0.143	0.127
25-29	0.144	0.146	0.141	0.142	0.125
30-34	0.086	0.085	0.096	0.085	0.072
35-39	0.040	0.034	0.030	0.035	0.033
40-44	0.017	0.015	0.007	0.009	0.008
45-49	0.004	0.002	0.003	0.002	0.000
TFR	2.82	2.69	2.55	2.34	2.05

Table F.60. Estimated Five-Year Fertility Rates Derived from TDHS-2003 for Urban

Age group	1989-1993	1994-1998	1999-2003
15-19	0.084	0.059	0.049
20-24	0.186	0.167	0.134
25-29	0.146	0.138	0.134
30-34	0.087	0.091	0.077
35-39	0.038	0.032	0.033
40-44	0.016	0.009	0.008
45-49	0.003	0.002	0.001
TFR	2.80	2.49	2.18

Table F.61. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-2003 for Rural

Age of woman	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	0.033	0.047	0.049	0.011	0.025	0.019	0.023	0.023	0.020	0.009	0.009	0.012	0.000	0.004	0.004
16	0.039	0.079	0.085	0.047	0.062	0.066	0.053	0.022	0.041	0.040	0.017	0.047	0.011	0.013	0.024
17	0.075	0.103	0.112	0.097	0.082	0.120	0.079	0.076	0.078	0.072	0.067	0.061	0.068	0.053	0.050
18	0.140	0.123	0.160	0.157	0.118	0.113	0.126	0.151	0.119	0.126	0.121	0.082	0.107	0.098	0.085
19	0.191	0.142	0.211	0.195	0.175	0.140	0.168	0.152	0.160	0.171	0.129	0.132	0.135	0.121	0.108
20	0.220	0.174	0.221	0.280	0.165	0.216	0.261	0.137	0.163	0.175	0.145	0.181	0.159	0.128	0.126
21	0.306	0.280	0.236	0.285	0.214	0.243	0.262	0.208	0.122	0.195	0.186	0.201	0.160	0.144	0.202
22	0.287	0.286	0.228	0.213	0.246	0.297	0.199	0.278	0.201	0.217	0.193	0.249	0.151	0.161	0.209
23	0.170	0.241	0.239	0.198	0.197	0.236	0.253	0.238	0.229	0.252	0.186	0.252	0.186	0.136	0.185
24	0.191	0.265	0.304	0.201	0.201	0.221	0.226	0.140	0.215	0.241	0.223	0.212	0.221	0.168	0.179
25	0.217	0.214	0.287	0.175	0.205	0.208	0.252	0.163	0.280	0.201	0.240	0.198	0.217	0.151	0.160
26	0.279	0.194	0.209	0.224	0.177	0.158	0.297	0.209	0.226	0.156	0.225	0.206	0.200	0.129	0.146
27	0.278	0.187	0.196	0.210	0.161	0.136	0.235	0.170	0.165	0.111	0.204	0.175	0.192	0.201	0.086
28	0.161	0.169	0.187	0.152	0.149	0.144	0.126	0.174	0.144	0.087	0.157	0.121	0.181	0.129	0.087
29	0.185	0.248	0.158	0.155	0.149	0.166	0.123	0.161	0.134	0.118	0.142	0.158	0.138	0.064	0.131
30	0.186	0.218	0.129	0.120	0.139	0.150	0.116	0.121	0.182	0.173	0.147	0.167	0.134	0.091	0.147
31	0.119	0.139	0.151	0.104	0.128	0.116	0.084	0.139	0.153	0.194	0.136	0.134	0.121	0.080	0.140
32	0.097	0.147	0.147	0.133	0.120	0.083	0.098	0.126	0.107	0.163	0.103	0.122	0.084	0.067	0.094
33	0.130	0.104	0.102	0.104	0.143	0.095	0.130	0.102	0.088	0.106	0.084	0.059	0.074	0.066	0.059
34	0.157	0.079	0.061	0.100	0.105	0.088	0.130	0.099	0.072	0.062	0.078	0.033	0.058	0.087	0.070
35	0.150	0.101	0.056	0.102	0.078	0.047	0.091	0.082	0.056	0.037	0.100	0.052	0.065	0.072	0.065
36	0.111	0.120	0.051	0.039	0.052	0.030	0.085	0.089	0.037	0.014	0.097	0.077	0.081	0.054	0.035
37	0.084	0.090	0.061	0.017	0.032	0.058	0.055	0.083	0.030	0.046	0.050	0.066	0.071	0.056	0.037
38	0.062	0.065	0.100	0.051	0.025	0.054	0.009	0.062	0.055	0.077	0.030	0.043	0.042	0.022	0.030
39	0.064	0.033	0.090	0.071	0.026	0.041	0.024	0.026	0.062	0.057	0.030	0.045	0.049	0.012	0.021
40	0.078	0.014	0.054	0.064	0.045	0.050	0.034	0.039	0.017	0.032	0.021	0.030	0.059	0.007	0.023
41	0.098	0.041	0.035	0.040	0.024	0.035	0.035	0.051	0.023	0.009	0.039	0.028	0.037	0.007	0.021
42	0.080	0.052	0.028	0.021	0.013	0.032	0.055	0.034	0.042	0.008	0.026	0.023	0.014	0.015	0.014
43	0.043	0.029	0.030	0.020	0.014	0.019	0.058	0.018	0.026	0.017	0.000	0.009	0.015	0.014	0.014
44	0.054	0.025	0.030	0.029	0.014	0.014	0.027	0.008	0.009	0.018	0.009	0.000	0.009	0.008	0.007
45	0.011	0.021	0.017	0.029	0.007	0.007	0.000	0.020	0.000	0.019	0.017	0.009	0.016	0.000	0.000
46	0.000	0.000	0.011	0.008	0.000	0.000	0.007	0.014	0.007	0.017	0.009	0.017	0.017	0.008	0.000
47	0.024	0.000	0.000	0.000	0.000	0.010	0.008	0.000	0.007	0.014	0.000	0.009	0.009	0.008	0.000
48	0.020	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.007	0.000	0.000	0.009	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	4.34	4.03	4.04	3.65	3.29	3.42	3.73	3.42	3.27	3.24	3.22	3.21	3.09	2.37	2.56

Table F.62. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-2003 for Rural

Age group	Estimated Fertility Rates														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15-19	0.096	0.099	0.123	0.101	0.092	0.092	0.090	0.085	0.083	0.084	0.068	0.067	0.064	0.058	0.054
20-24	0.235	0.249	0.246	0.235	0.204	0.243	0.240	0.200	0.186	0.216	0.187	0.219	0.175	0.147	0.180
25-29	0.224	0.202	0.207	0.183	0.168	0.162	0.207	0.175	0.190	0.135	0.194	0.172	0.186	0.135	0.122
30-34	0.138	0.137	0.118	0.112	0.127	0.106	0.112	0.118	0.120	0.140	0.110	0.103	0.094	0.078	0.102
35-39	0.094	0.082	0.072	0.056	0.042	0.046	0.053	0.069	0.048	0.046	0.061	0.057	0.062	0.043	0.038
40-44	0.071	0.032	0.035	0.035	0.022	0.030	0.042	0.030	0.023	0.017	0.019	0.018	0.027	0.010	0.016
45-49	0.011	0.004	0.006	0.007	0.001	0.005	0.003	0.007	0.003	0.011	0.005	0.007	0.010	0.003	0.000
TFR	4.34	4.03	4.04	3.65	3.29	3.42	3.73	3.42	3.27	3.24	3.22	3.21	3.09	2.37	2.56

Table F.63. Estimated Three-Year Fertility Rates By Five Year Age Group Derived from TDHS-2003 for Rural

Age group	1989-1991	1992-1994	1995-1997	1998-2000	2001-2003
15-19	0.106	0.095	0.086	0.073	0.059
20-24	0.243	0.227	0.209	0.207	0.167
25-29	0.211	0.171	0.191	0.167	0.147
30-34	0.131	0.115	0.116	0.117	0.091
35-39	0.083	0.048	0.056	0.055	0.048
40-44	0.046	0.029	0.032	0.018	0.018
45-49	0.007	0.005	0.004	0.008	0.004
TFR	4.14	3.45	3.47	3.22	2.67

Table F.64. Estimated Five-Year Fertility Rates Derived from TDHS-2003 for Rural

Age group	1989-1993	1994-1998	1999-2003
15-19	0.102	0.087	0.062
20-24	0.234	0.217	0.182
25-29	0.197	0.174	0.162
30-34	0.126	0.119	0.097
35-39	0.069	0.052	0.052
40-44	0.039	0.028	0.018
45-49	0.006	0.006	0.005
TFR	3.87	3.41	2.89

Table F.65. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-2003 for West Region

Age of woman	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	0.029	0.038	0.011	0.007	0.022	0.003	0.014	0.013	0.018	0.011	0.004	0.004	0.008	0.000	0.008
16	0.042	0.050	0.050	0.038	0.027	0.022	0.043	0.024	0.021	0.034	0.004	0.018	0.016	0.015	0.016
17	0.066	0.091	0.077	0.079	0.048	0.076	0.052	0.027	0.030	0.044	0.055	0.036	0.033	0.059	0.040
18	0.085	0.140	0.103	0.113	0.076	0.093	0.058	0.053	0.062	0.039	0.068	0.051	0.068	0.108	0.043
19	0.094	0.132	0.121	0.142	0.147	0.104	0.112	0.109	0.092	0.059	0.048	0.094	0.117	0.105	0.054
20	0.146	0.138	0.142	0.209	0.176	0.129	0.198	0.159	0.097	0.109	0.098	0.103	0.114	0.073	0.080
21	0.214	0.152	0.161	0.242	0.166	0.175	0.213	0.190	0.123	0.134	0.125	0.089	0.124	0.071	0.134
22	0.206	0.155	0.131	0.205	0.188	0.244	0.192	0.163	0.160	0.118	0.116	0.137	0.121	0.096	0.145
23	0.192	0.196	0.138	0.216	0.151	0.169	0.203	0.178	0.133	0.138	0.129	0.162	0.101	0.112	0.125
24	0.161	0.217	0.173	0.220	0.119	0.113	0.143	0.239	0.123	0.185	0.126	0.187	0.126	0.130	0.120
25	0.128	0.158	0.161	0.173	0.122	0.130	0.156	0.206	0.162	0.192	0.133	0.173	0.134	0.141	0.125
26	0.138	0.138	0.108	0.169	0.178	0.140	0.203	0.154	0.140	0.128	0.135	0.122	0.118	0.139	0.153
27	0.101	0.156	0.098	0.157	0.158	0.099	0.151	0.122	0.103	0.080	0.127	0.132	0.123	0.178	0.122
28	0.075	0.155	0.110	0.145	0.089	0.118	0.059	0.142	0.091	0.082	0.122	0.117	0.116	0.135	0.063
29	0.110	0.111	0.085	0.148	0.063	0.127	0.063	0.139	0.092	0.099	0.104	0.117	0.102	0.070	0.050
30	0.106	0.086	0.043	0.128	0.063	0.064	0.093	0.106	0.125	0.091	0.091	0.127	0.088	0.069	0.058
31	0.120	0.112	0.058	0.097	0.107	0.065	0.083	0.066	0.148	0.095	0.087	0.100	0.114	0.059	0.068
32	0.101	0.084	0.069	0.075	0.082	0.055	0.082	0.036	0.120	0.074	0.053	0.067	0.091	0.067	0.051
33	0.039	0.049	0.042	0.061	0.073	0.035	0.091	0.061	0.074	0.068	0.033	0.039	0.031	0.068	0.035
34	0.024	0.033	0.020	0.048	0.090	0.050	0.079	0.074	0.047	0.082	0.049	0.029	0.034	0.036	0.040
35	0.028	0.040	0.019	0.066	0.052	0.036	0.060	0.040	0.036	0.051	0.051	0.041	0.046	0.029	0.025
36	0.019	0.034	0.018	0.045	0.025	0.014	0.030	0.035	0.035	0.018	0.026	0.040	0.040	0.025	0.010
37	0.032	0.006	0.007	0.006	0.034	0.020	0.024	0.026	0.024	0.009	0.014	0.017	0.020	0.024	0.024
38	0.024	0.016	0.018	0.000	0.029	0.025	0.025	0.015	0.000	0.019	0.026	0.014	0.017	0.019	0.020
39	0.011	0.014	0.026	0.025	0.007	0.006	0.015	0.005	0.000	0.010	0.020	0.022	0.018	0.013	0.004
40	0.013	0.000	0.019	0.027	0.012	0.007	0.000	0.005	0.000	0.000	0.000	0.025	0.013	0.009	0.000
41	0.000	0.000	0.011	0.005	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.010	0.005	0.013	0.000
42	0.000	0.000	0.006	0.005	0.000	0.011	0.000	0.000	0.000	0.010	0.005	0.000	0.000	0.015	0.000
43	0.017	0.000	0.000	0.006	0.000	0.010	0.005	0.000	0.000	0.012	0.005	0.000	0.010	0.000	0.000
44	0.021	0.000	0.000	0.000	0.000	0.005	0.010	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.006	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
46	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
48	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	2.39	2.50	2.02	2.86	2.31	2.16	2.47	2.39	2.05	1.99	1.85	2.07	1.96	1.88	1.61

Table F.66. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-2003 for West Region

Age group	Estimated Fertility Rates														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15-19	0.063	0.090	0.072	0.076	0.064	0.060	0.056	0.045	0.044	0.037	0.036	0.041	0.048	0.057	0.032
20-24	0.184	0.172	0.149	0.219	0.160	0.166	0.190	0.186	0.127	0.137	0.119	0.136	0.117	0.096	0.121
25-29	0.111	0.144	0.112	0.158	0.122	0.123	0.126	0.153	0.117	0.116	0.124	0.132	0.118	0.133	0.102
30-34	0.078	0.073	0.046	0.082	0.083	0.054	0.086	0.069	0.103	0.082	0.063	0.073	0.072	0.060	0.051
35-39	0.023	0.022	0.018	0.028	0.029	0.020	0.031	0.024	0.019	0.021	0.027	0.027	0.028	0.022	0.017
40-44	0.010	0.000	0.007	0.009	0.004	0.008	0.003	0.001	0.000	0.004	0.002	0.007	0.008	0.007	0.000
45-49	0.010	0.000	0.000	0.000	0.000	0.001	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	2.39	2.50	2.02	2.86	2.31	2.16	2.47	2.39	2.05	1.99	1.85	2.07	1.96	1.88	1.61

Table F.67. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-2003 for West Region

Age group	1989-1991	1992-1994	1995-1997	1998-2000	2001-2003
15-19	0.075	0.067	0.048	0.038	0.046
20-24	0.168	0.182	0.167	0.130	0.112
25-29	0.122	0.134	0.132	0.124	0.118
30-34	0.066	0.073	0.086	0.072	0.061
35-39	0.021	0.026	0.025	0.025	0.022
40-44	0.006	0.007	0.001	0.004	0.005
45-49	0.003	0.000	0.001	0.000	0.000
TFR	2.30	2.44	2.30	1.97	1.82

Table F.68. Estimated Five-Year Fertility Rates Derived from TDHS-2003 for West Region

Age group	1989-1993	1994-1998	1999-2003
15-19	0.073	0.048	0.043
20-24	0.177	0.161	0.118
25-29	0.129	0.127	0.122
30-34	0.072	0.079	0.063
35-39	0.024	0.023	0.024
40-44	0.006	0.003	0.005
45-49	0.002	0.001	0.000
TFR	2.42	2.21	1.87

Table F.69. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-2003 for South Region

Age of woman	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	0.026	0.012	0.065	0.020	0.041	0.010	0.000	0.051	0.030	0.000	0.033	0.029	0.009	0.000	0.000
16	0.063	0.000	0.088	0.033	0.080	0.042	0.021	0.049	0.042	0.000	0.031	0.045	0.048	0.009	0.017
17	0.141	0.058	0.100	0.074	0.108	0.060	0.062	0.063	0.030	0.031	0.087	0.072	0.077	0.028	0.044
18	0.134	0.107	0.132	0.126	0.150	0.099	0.069	0.106	0.065	0.077	0.183	0.089	0.082	0.022	0.114
19	0.121	0.144	0.122	0.107	0.163	0.175	0.140	0.111	0.139	0.126	0.142	0.113	0.117	0.050	0.173
20	0.157	0.220	0.159	0.121	0.201	0.151	0.208	0.120	0.152	0.186	0.123	0.124	0.161	0.132	0.160
21	0.145	0.246	0.183	0.206	0.315	0.120	0.274	0.202	0.123	0.169	0.185	0.157	0.171	0.128	0.134
22	0.113	0.211	0.195	0.227	0.250	0.207	0.246	0.240	0.102	0.195	0.176	0.176	0.154	0.065	0.148
23	0.156	0.223	0.219	0.230	0.137	0.253	0.228	0.193	0.142	0.249	0.161	0.189	0.175	0.061	0.187
24	0.262	0.255	0.229	0.204	0.194	0.194	0.259	0.195	0.170	0.225	0.147	0.228	0.235	0.110	0.172
25	0.231	0.216	0.219	0.212	0.216	0.172	0.235	0.206	0.160	0.200	0.147	0.210	0.213	0.086	0.150
26	0.225	0.268	0.155	0.236	0.169	0.235	0.217	0.185	0.153	0.134	0.177	0.177	0.124	0.095	0.165
27	0.293	0.267	0.087	0.129	0.203	0.183	0.201	0.104	0.197	0.079	0.131	0.154	0.098	0.155	0.136
28	0.187	0.250	0.065	0.077	0.176	0.088	0.196	0.055	0.176	0.068	0.112	0.157	0.082	0.133	0.108
29	0.181	0.250	0.119	0.032	0.153	0.095	0.187	0.108	0.153	0.103	0.168	0.159	0.095	0.103	0.121
30	0.156	0.179	0.109	0.040	0.146	0.088	0.152	0.074	0.235	0.123	0.136	0.114	0.124	0.058	0.115
31	0.121	0.207	0.119	0.109	0.238	0.082	0.109	0.084	0.150	0.153	0.067	0.115	0.079	0.022	0.106
32	0.125	0.184	0.163	0.119	0.136	0.140	0.096	0.078	0.060	0.131	0.090	0.109	0.057	0.044	0.100
33	0.074	0.095	0.113	0.065	0.066	0.082	0.078	0.065	0.045	0.059	0.101	0.091	0.054	0.077	0.077
34	0.096	0.085	0.059	0.094	0.114	0.080	0.054	0.160	0.050	0.066	0.046	0.102	0.090	0.092	0.078
35	0.115	0.066	0.088	0.118	0.113	0.099	0.039	0.124	0.081	0.049	0.022	0.047	0.087	0.059	0.066
36	0.085	0.084	0.113	0.035	0.078	0.038	0.032	0.066	0.028	0.020	0.016	0.044	0.058	0.056	0.030
37	0.079	0.078	0.043	0.023	0.035	0.039	0.037	0.033	0.014	0.027	0.020	0.049	0.054	0.091	0.057
38	0.132	0.018	0.020	0.022	0.023	0.053	0.019	0.019	0.083	0.040	0.013	0.040	0.016	0.063	0.023
39	0.116	0.015	0.057	0.000	0.022	0.023	0.000	0.000	0.097	0.082	0.000	0.041	0.039	0.031	0.011
40	0.043	0.053	0.047	0.038	0.040	0.000	0.000	0.036	0.020	0.057	0.000	0.013	0.054	0.000	0.016
41	0.103	0.058	0.018	0.062	0.019	0.000	0.022	0.069	0.018	0.020	0.037	0.016	0.026	0.000	0.019
42	0.101	0.048	0.040	0.037	0.000	0.000	0.020	0.022	0.023	0.018	0.039	0.019	0.000	0.026	0.027
43	0.026	0.031	0.049	0.000	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.031	0.013
44	0.025	0.000	0.000	0.025	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.024	0.000	0.000	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
46	0.025	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.022	0.000	0.000	0.000
47	0.000	0.000	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.000	0.000
48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	3.88	3.93	3.22	2.85	3.62	2.81	3.20	2.82	2.74	2.68	2.59	2.92	2.58	1.82	2.57

Table F.70. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-2003 for South Region

Age group	Estimated Fertility Rates														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15-19	0.097	0.064	0.101	0.072	0.109	0.077	0.058	0.076	0.061	0.047	0.095	0.070	0.067	0.022	0.070
20-24	0.167	0.231	0.197	0.197	0.219	0.185	0.243	0.190	0.138	0.205	0.158	0.175	0.179	0.099	0.160
25-29	0.224	0.250	0.129	0.137	0.184	0.155	0.207	0.132	0.168	0.117	0.147	0.171	0.123	0.114	0.136
30-34	0.114	0.150	0.113	0.085	0.140	0.094	0.098	0.092	0.108	0.106	0.088	0.106	0.081	0.059	0.095
35-39	0.106	0.052	0.064	0.039	0.054	0.050	0.026	0.048	0.061	0.043	0.014	0.044	0.051	0.060	0.037
40-44	0.060	0.038	0.031	0.032	0.019	0.000	0.008	0.025	0.012	0.019	0.015	0.010	0.016	0.011	0.015
45-49	0.010	0.000	0.009	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000
TFR	3.88	3.93	3.22	2.85	3.62	2.81	3.20	2.82	2.74	2.68	2.59	2.92	2.58	1.82	2.57

Table F.71. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-2003 for South Region

Age group	1989-1991	1992-1994	1995-1997	1998-2000	2001-2003
15-19	0.088	0.086	0.065	0.071	0.053
20-24	0.198	0.201	0.190	0.179	0.146
25-29	0.201	0.158	0.169	0.145	0.124
30-34	0.126	0.106	0.099	0.100	0.078
35-39	0.074	0.048	0.045	0.034	0.049
40-44	0.043	0.017	0.015	0.015	0.014
45-49	0.006	0.002	0.000	0.003	0.000
TFR	3.68	3.09	2.92	2.73	2.32

Table F.72. Estimated Five-Year Fertility Rates Derived from TDHS-2003 for South Region

Age group	1989-1993	1994-1998	1999-2003
15-19	0.089	0.064	0.065
20-24	0.202	0.192	0.154
25-29	0.185	0.156	0.138
30-34	0.120	0.100	0.086
35-39	0.063	0.046	0.041
40-44	0.036	0.013	0.013
45-49	0.005	0.000	0.002
TFR	3.50	2.85	2.50

Table F.73. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-2003 for Central Region

Age of mother	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	0.007	0.058	0.023	0.008	0.007	0.018	0.011	0.000	0.011	0.000	0.000	0.017	0.005	0.000	0.000
16	0.033	0.089	0.052	0.047	0.015	0.061	0.031	0.028	0.037	0.051	0.012	0.036	0.011	0.000	0.027
17	0.058	0.069	0.100	0.102	0.083	0.096	0.083	0.064	0.067	0.071	0.050	0.055	0.071	0.049	0.062
18	0.096	0.095	0.155	0.158	0.140	0.130	0.148	0.109	0.110	0.107	0.090	0.075	0.149	0.062	0.082
19	0.226	0.144	0.158	0.178	0.159	0.128	0.110	0.092	0.167	0.130	0.141	0.057	0.151	0.069	0.075
20	0.262	0.200	0.192	0.244	0.160	0.121	0.128	0.109	0.162	0.123	0.129	0.099	0.132	0.142	0.093
21	0.283	0.213	0.210	0.246	0.183	0.178	0.151	0.118	0.090	0.095	0.099	0.156	0.127	0.152	0.156
22	0.276	0.194	0.148	0.189	0.196	0.213	0.110	0.126	0.154	0.080	0.161	0.197	0.140	0.130	0.146
23	0.199	0.177	0.133	0.152	0.180	0.154	0.170	0.200	0.262	0.113	0.181	0.173	0.179	0.106	0.141
24	0.173	0.197	0.131	0.134	0.173	0.217	0.185	0.200	0.249	0.130	0.195	0.092	0.194	0.089	0.162
25	0.142	0.215	0.146	0.125	0.151	0.198	0.088	0.158	0.151	0.150	0.216	0.156	0.215	0.109	0.114
26	0.177	0.171	0.139	0.103	0.149	0.106	0.084	0.123	0.109	0.154	0.195	0.242	0.153	0.130	0.077
27	0.161	0.162	0.158	0.122	0.152	0.103	0.114	0.136	0.128	0.118	0.175	0.187	0.104	0.091	0.072
28	0.099	0.132	0.138	0.117	0.161	0.109	0.174	0.143	0.093	0.087	0.121	0.133	0.117	0.058	0.083
29	0.084	0.085	0.071	0.108	0.151	0.101	0.129	0.109	0.107	0.148	0.101	0.150	0.121	0.068	0.083
30	0.085	0.075	0.042	0.106	0.121	0.082	0.052	0.098	0.110	0.153	0.094	0.111	0.133	0.105	0.054
31	0.074	0.086	0.091	0.072	0.092	0.073	0.065	0.128	0.075	0.101	0.100	0.072	0.116	0.092	0.049
32	0.073	0.106	0.079	0.054	0.071	0.091	0.071	0.119	0.059	0.067	0.113	0.067	0.038	0.039	0.033
33	0.148	0.094	0.033	0.044	0.069	0.071	0.076	0.070	0.057	0.066	0.083	0.048	0.000	0.062	0.029
34	0.132	0.073	0.052	0.025	0.021	0.037	0.076	0.033	0.040	0.040	0.073	0.035	0.036	0.080	0.030
35	0.100	0.055	0.053	0.042	0.016	0.036	0.044	0.000	0.028	0.000	0.075	0.027	0.047	0.036	0.040
36	0.069	0.055	0.022	0.032	0.052	0.024	0.028	0.014	0.021	0.041	0.049	0.000	0.026	0.033	0.027
37	0.023	0.035	0.011	0.011	0.053	0.010	0.008	0.021	0.030	0.076	0.035	0.033	0.024	0.039	0.013
38	0.031	0.023	0.047	0.023	0.022	0.000	0.031	0.024	0.021	0.067	0.014	0.043	0.040	0.008	0.019
39	0.030	0.020	0.046	0.012	0.011	0.000	0.041	0.030	0.008	0.028	0.000	0.022	0.020	0.000	0.008
40	0.020	0.000	0.010	0.012	0.012	0.033	0.022	0.040	0.000	0.000	0.014	0.008	0.007	0.000	0.000
41	0.024	0.010	0.000	0.010	0.000	0.035	0.011	0.043	0.000	0.010	0.025	0.015	0.015	0.000	0.000
42	0.015	0.012	0.020	0.010	0.000	0.000	0.000	0.011	0.000	0.010	0.011	0.017	0.007	0.000	0.000
43	0.000	0.000	0.024	0.031	0.000	0.000	0.000	0.000	0.022	0.000	0.000	0.000	0.000	0.000	0.000
44	0.000	0.014	0.000	0.024	0.000	0.000	0.000	0.000	0.023	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.017	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.000	0.000
46	0.000	0.000	0.018	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.022	0.010	0.000
47	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.000
48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	3.10	2.88	2.51	2.54	2.60	2.43	2.26	2.35	2.39	2.21	2.55	2.32	2.42	1.77	1.67

Table F.74. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-2003 for Central Region

Age group	Estimated Fertility Rates														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15-19	0.084	0.091	0.098	0.099	0.081	0.087	0.076	0.058	0.078	0.072	0.059	0.048	0.077	0.036	0.049
20-24	0.238	0.196	0.163	0.193	0.178	0.177	0.149	0.151	0.183	0.108	0.153	0.143	0.154	0.124	0.139
25-29	0.132	0.153	0.130	0.115	0.153	0.124	0.118	0.134	0.118	0.131	0.161	0.174	0.142	0.091	0.086
30-34	0.102	0.087	0.059	0.060	0.075	0.071	0.068	0.090	0.068	0.085	0.093	0.067	0.065	0.075	0.039
35-39	0.050	0.038	0.036	0.024	0.031	0.014	0.030	0.018	0.021	0.042	0.035	0.025	0.031	0.023	0.021
40-44	0.012	0.007	0.011	0.017	0.002	0.014	0.007	0.019	0.009	0.004	0.010	0.008	0.006	0.000	0.000
45-49	0.000	0.003	0.006	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.008	0.004	0.000
TFR	3.10	2.88	2.51	2.54	2.60	2.43	2.26	2.35	2.39	2.21	2.55	2.32	2.42	1.77	1.67

Table F.75. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-2003 for Central Region

Age group	1989-1991	1992-1994	1995-1997	1998-2000	2001-2003
15-19	0.091	0.089	0.071	0.059	0.054
20-24	0.199	0.183	0.161	0.135	0.139
25-29	0.139	0.131	0.123	0.155	0.106
30-34	0.083	0.069	0.075	0.082	0.060
35-39	0.041	0.023	0.023	0.034	0.025
40-44	0.010	0.011	0.011	0.007	0.002
45-49	0.003	0.000	0.001	0.000	0.004
TFR	2.83	2.52	2.33	2.36	1.95

Table F.76. Estimated Five-Year Fertility Rates Derived from TDHS-2003 for Central Region

Age group	1989-1993	1994-1998	1999-2003
15-19	0.090	0.074	0.054
20-24	0.194	0.153	0.143
25-29	0.137	0.125	0.131
30-34	0.077	0.076	0.068
35-39	0.036	0.025	0.027
40-44	0.010	0.010	0.005
45-49	0.002	0.001	0.003
TFR	2.73	2.33	2.15

Table F.77. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-2003 for North Region

Age of woman	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	0.019	0.027	0.025	0.000	0.000	0.000	0.000	0.000	0.018	0.000	0.000	0.000	0.000	0.000	0.000
16	0.060	0.101	0.000	0.000	0.040	0.000	0.023	0.000	0.017	0.056	0.023	0.039	0.000	0.000	0.000
17	0.137	0.141	0.054	0.027	0.104	0.020	0.107	0.022	0.019	0.067	0.018	0.087	0.018	0.048	0.000
18	0.233	0.144	0.093	0.119	0.103	0.080	0.216	0.086	0.046	0.056	0.049	0.088	0.043	0.132	0.016
19	0.242	0.167	0.196	0.180	0.095	0.130	0.207	0.136	0.156	0.092	0.127	0.096	0.017	0.130	0.036
20	0.220	0.181	0.239	0.094	0.096	0.115	0.127	0.102	0.182	0.133	0.134	0.142	0.015	0.069	0.083
21	0.189	0.277	0.205	0.164	0.112	0.155	0.167	0.100	0.160	0.220	0.107	0.196	0.085	0.094	0.116
22	0.191	0.333	0.188	0.228	0.184	0.256	0.155	0.208	0.240	0.216	0.099	0.172	0.173	0.143	0.108
23	0.234	0.226	0.239	0.150	0.215	0.252	0.134	0.208	0.213	0.183	0.155	0.173	0.204	0.108	0.135
24	0.236	0.306	0.381	0.129	0.167	0.173	0.134	0.177	0.118	0.230	0.228	0.228	0.222	0.187	0.125
25	0.222	0.286	0.281	0.096	0.094	0.171	0.234	0.223	0.162	0.177	0.150	0.200	0.173	0.190	0.141
26	0.228	0.228	0.185	0.217	0.092	0.157	0.237	0.211	0.162	0.138	0.114	0.129	0.121	0.100	0.146
27	0.252	0.146	0.115	0.220	0.125	0.062	0.092	0.117	0.044	0.160	0.111	0.130	0.177	0.098	0.048
28	0.179	0.065	0.081	0.175	0.135	0.085	0.061	0.153	0.074	0.110	0.067	0.176	0.181	0.073	0.143
29	0.147	0.245	0.089	0.145	0.144	0.156	0.144	0.180	0.127	0.073	0.085	0.175	0.169	0.037	0.157
30	0.105	0.249	0.075	0.065	0.113	0.172	0.174	0.103	0.159	0.128	0.144	0.106	0.172	0.022	0.072
31	0.057	0.107	0.086	0.101	0.062	0.085	0.095	0.132	0.213	0.124	0.123	0.046	0.101	0.043	0.042
32	0.091	0.088	0.073	0.112	0.039	0.031	0.027	0.164	0.177	0.084	0.030	0.060	0.022	0.061	0.042
33	0.079	0.189	0.054	0.079	0.054	0.039	0.000	0.082	0.074	0.059	0.021	0.030	0.000	0.046	0.040
34	0.053	0.136	0.058	0.059	0.051	0.073	0.019	0.030	0.086	0.073	0.076	0.040	0.029	0.030	0.022
35	0.075	0.082	0.000	0.031	0.000	0.052	0.036	0.057	0.063	0.057	0.071	0.038	0.098	0.029	0.029
36	0.043	0.116	0.000	0.000	0.000	0.000	0.050	0.088	0.020	0.000	0.000	0.070	0.090	0.020	0.028
37	0.039	0.044	0.000	0.000	0.000	0.030	0.028	0.075	0.055	0.039	0.000	0.108	0.045	0.018	0.019
38	0.033	0.040	0.000	0.039	0.000	0.026	0.000	0.000	0.078	0.055	0.000	0.030	0.026	0.000	0.036
39	0.000	0.068	0.073	0.044	0.000	0.000	0.000	0.000	0.058	0.026	0.000	0.038	0.000	0.027	0.022
40	0.000	0.037	0.062	0.000	0.084	0.000	0.000	0.000	0.031	0.000	0.000	0.035	0.018	0.030	0.000
41	0.000	0.000	0.000	0.000	0.076	0.000	0.000	0.000	0.053	0.000	0.028	0.000	0.017	0.019	0.000
42	0.000	0.000	0.000	0.000	0.000	0.039	0.042	0.000	0.053	0.026	0.030	0.000	0.000	0.017	0.000
43	0.086	0.000	0.000	0.000	0.000	0.098	0.075	0.000	0.000	0.027	0.000	0.000	0.000	0.000	0.000
44	0.094	0.000	0.000	0.035	0.000	0.071	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.053	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
46	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	3.55	4.03	2.85	2.56	2.18	2.53	2.61	2.66	2.86	2.61	1.99	2.63	2.22	1.77	1.60

Table F.78. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-2003 for North Region

Age group	Estimated Fertility Rates														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15-19	0.138	0.116	0.074	0.065	0.068	0.046	0.110	0.049	0.051	0.054	0.043	0.062	0.016	0.062	0.010
20-24	0.214	0.265	0.250	0.153	0.155	0.190	0.143	0.159	0.182	0.196	0.145	0.182	0.140	0.120	0.113
25-29	0.206	0.194	0.150	0.171	0.118	0.126	0.153	0.177	0.114	0.131	0.106	0.162	0.164	0.100	0.127
30-34	0.077	0.154	0.069	0.083	0.064	0.080	0.063	0.103	0.141	0.094	0.079	0.056	0.065	0.040	0.043
35-39	0.038	0.070	0.015	0.023	0.000	0.022	0.023	0.044	0.055	0.035	0.014	0.057	0.052	0.019	0.027
40-44	0.036	0.007	0.012	0.007	0.032	0.042	0.030	0.000	0.027	0.011	0.012	0.007	0.007	0.013	0.000
45-49	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	3.55	4.03	2.85	2.56	2.18	2.53	2.61	2.66	2.86	2.61	1.99	2.63	2.22	1.77	1.60

Table F.79. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-2003 for North Region

Age group	1989-1991	1992-1994	1995-1997	1998-2000	2001-2003
15-19	0.109	0.060	0.070	0.053	0.029
20-24	0.243	0.166	0.162	0.174	0.125
25-29	0.183	0.138	0.148	0.133	0.130
30-34	0.100	0.076	0.102	0.076	0.050
35-39	0.041	0.015	0.041	0.036	0.033
40-44	0.019	0.027	0.019	0.010	0.007
45-49	0.000	0.004	0.000	0.000	0.000
TFR	3.48	2.42	2.71	2.41	1.86

Table F.80. Estimated Five-Year Fertility Rates Derived from TDHS-2003 for North Region

Age group	1989-1993	1994-1998	1999-2003
15-19	0.092	0.062	0.039
20-24	0.207	0.174	0.140
25-29	0.168	0.140	0.132
30-34	0.089	0.096	0.057
35-39	0.029	0.036	0.034
40-44	0.019	0.022	0.008
45-49	0.002	0.000	0.000
TFR	3.03	2.65	2.04

Table F.82. Estimated Single-Year Fertility Rates by Single Year Age of Mother Derived from TDHS-2003 for East Region

Age of woman	Single Years														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15	0.051	0.028	0.044	0.057	0.029	0.051	0.032	0.036	0.019	0.025	0.031	0.019	0.005	0.014	0.005
16	0.086	0.073	0.119	0.069	0.090	0.082	0.062	0.070	0.058	0.051	0.024	0.054	0.018	0.015	0.023
17	0.146	0.112	0.174	0.110	0.142	0.128	0.096	0.127	0.090	0.096	0.082	0.084	0.073	0.056	0.043
18	0.179	0.162	0.160	0.147	0.168	0.171	0.127	0.167	0.120	0.124	0.148	0.131	0.084	0.090	0.084
19	0.223	0.250	0.228	0.149	0.218	0.208	0.144	0.177	0.193	0.148	0.142	0.188	0.137	0.132	0.129
20	0.269	0.295	0.251	0.194	0.219	0.275	0.224	0.224	0.279	0.168	0.184	0.211	0.170	0.155	0.122
21	0.319	0.315	0.205	0.248	0.231	0.267	0.256	0.254	0.222	0.195	0.208	0.208	0.147	0.169	0.206
22	0.363	0.331	0.240	0.259	0.273	0.287	0.264	0.292	0.189	0.243	0.201	0.254	0.182	0.184	0.244
23	0.267	0.325	0.266	0.205	0.254	0.283	0.305	0.341	0.258	0.274	0.257	0.270	0.205	0.200	0.216
24	0.269	0.320	0.235	0.219	0.265	0.279	0.280	0.267	0.247	0.270	0.262	0.272	0.230	0.205	0.219
25	0.281	0.251	0.300	0.300	0.283	0.280	0.257	0.220	0.321	0.235	0.254	0.290	0.274	0.128	0.215
26	0.305	0.314	0.311	0.320	0.252	0.240	0.234	0.282	0.340	0.195	0.231	0.274	0.260	0.153	0.224
27	0.367	0.308	0.326	0.284	0.227	0.218	0.259	0.291	0.279	0.192	0.225	0.257	0.225	0.188	0.173
28	0.285	0.161	0.311	0.259	0.182	0.196	0.256	0.231	0.225	0.183	0.229	0.213	0.211	0.161	0.131
29	0.309	0.277	0.270	0.270	0.233	0.213	0.244	0.195	0.208	0.197	0.204	0.200	0.214	0.147	0.181
30	0.349	0.266	0.294	0.248	0.262	0.225	0.198	0.233	0.219	0.233	0.205	0.224	0.208	0.159	0.214
31	0.279	0.231	0.253	0.172	0.182	0.204	0.181	0.214	0.208	0.197	0.198	0.183	0.202	0.132	0.228
32	0.148	0.250	0.279	0.234	0.176	0.159	0.202	0.194	0.153	0.212	0.182	0.197	0.171	0.078	0.156
33	0.114	0.172	0.271	0.292	0.176	0.188	0.140	0.257	0.182	0.204	0.173	0.168	0.153	0.086	0.120
34	0.185	0.154	0.202	0.192	0.173	0.186	0.169	0.266	0.216	0.164	0.107	0.061	0.116	0.142	0.146
35	0.219	0.179	0.155	0.114	0.177	0.137	0.154	0.189	0.124	0.156	0.087	0.106	0.073	0.129	0.117
36	0.202	0.186	0.136	0.088	0.118	0.134	0.122	0.141	0.103	0.090	0.103	0.162	0.083	0.086	0.076
37	0.211	0.196	0.160	0.112	0.090	0.171	0.114	0.108	0.109	0.087	0.107	0.166	0.118	0.094	0.095
38	0.163	0.187	0.216	0.185	0.092	0.109	0.028	0.115	0.107	0.111	0.086	0.142	0.089	0.064	0.069
39	0.160	0.141	0.155	0.137	0.136	0.134	0.065	0.086	0.115	0.094	0.063	0.103	0.036	0.064	0.063
40	0.182	0.077	0.088	0.136	0.100	0.158	0.088	0.044	0.057	0.059	0.062	0.063	0.086	0.053	0.100
41	0.208	0.080	0.117	0.140	0.070	0.097	0.105	0.045	0.022	0.029	0.077	0.046	0.063	0.034	0.069
42	0.165	0.118	0.097	0.097	0.072	0.068	0.097	0.080	0.067	0.022	0.058	0.039	0.015	0.047	0.050
43	0.066	0.091	0.085	0.064	0.060	0.035	0.101	0.039	0.079	0.046	0.000	0.029	0.039	0.031	0.046
44	0.083	0.043	0.069	0.050	0.082	0.039	0.087	0.017	0.020	0.054	0.023	0.000	0.029	0.019	0.015
45	0.045	0.027	0.022	0.046	0.052	0.032	0.038	0.053	0.000	0.040	0.053	0.022	0.022	0.000	0.000
46	0.000	0.000	0.027	0.021	0.000	0.017	0.032	0.058	0.018	0.035	0.020	0.053	0.023	0.000	0.000
47	0.000	0.023	0.022	0.000	0.000	0.023	0.017	0.016	0.019	0.036	0.017	0.020	0.027	0.000	0.000
48	0.000	0.051	0.000	0.000	0.000	0.021	0.000	0.000	0.000	0.020	0.018	0.000	0.020	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TFR	6.50	6.00	6.09	5.42	5.09	5.32	4.98	5.33	4.87	4.48	4.32	4.71	4.01	3.22	3.78

Table F.83. Estimated Single-Year Fertility Rates by Five-Year Age Group Derived from TDHS-2003 for East Region

Age group	Estimated Fertility Rates														
	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03
15-19	0.137	0.125	0.145	0.106	0.129	0.128	0.092	0.116	0.096	0.089	0.085	0.095	0.063	0.061	0.057
20-24	0.297	0.317	0.239	0.225	0.248	0.278	0.266	0.276	0.239	0.230	0.222	0.243	0.187	0.183	0.201
25-29	0.309	0.262	0.303	0.287	0.236	0.229	0.250	0.244	0.275	0.201	0.229	0.247	0.237	0.155	0.185
30-34	0.215	0.215	0.260	0.228	0.194	0.192	0.178	0.233	0.196	0.202	0.173	0.166	0.170	0.119	0.173
35-39	0.191	0.178	0.165	0.127	0.123	0.137	0.097	0.128	0.112	0.108	0.089	0.136	0.080	0.087	0.084
40-44	0.141	0.082	0.091	0.098	0.077	0.079	0.096	0.045	0.049	0.042	0.044	0.035	0.046	0.037	0.056
45-49	0.009	0.020	0.014	0.013	0.010	0.019	0.017	0.025	0.007	0.026	0.022	0.019	0.018	0.000	0.000
TFR	6.50	6.00	6.09	5.42	5.09	5.32	4.98	5.33	4.87	4.48	4.32	4.71	4.01	3.22	3.78

Table F.84. Estimated Three-Year Fertility Rates by Five Year Age Group Derived from TDHS-2003 for East Region

Age group	1989-1991	1992-1994	1995-1997	1998-2000	2001-2003
15-19	0.136	0.121	0.101	0.090	0.061
20-24	0.285	0.250	0.260	0.232	0.190
25-29	0.292	0.251	0.256	0.225	0.192
30-34	0.230	0.205	0.202	0.180	0.154
35-39	0.178	0.129	0.112	0.111	0.084
40-44	0.105	0.085	0.063	0.040	0.046
45-49	0.014	0.014	0.017	0.022	0.006
TFR	6.19	5.27	5.06	4.50	3.67

Table F.85. Estimated Five-Year Fertility Rates Derived from TDHS-2003 for East Region

Age group	1989-1993	1994-1998	1999-2003
15-19	0.128	0.104	0.073
20-24	0.265	0.258	0.207
25-29	0.279	0.240	0.211
30-34	0.222	0.200	0.160
35-39	0.157	0.116	0.095
40-44	0.098	0.062	0.044
45-49	0.013	0.019	0.012
TFR	5.82	5.00	4.01

ACKNOWLEDGEMENT

I am deeply grateful to my supervisor, Assoc. Prof. Dr. İsmet KOÇ, for his numerous encouraging suggestions and valuable advice leading to the fulfillment of this thesis without losing his confidence in me.

I would like to thank Erhan ÖZDEMİR, a peerless friend, for his moral as well as practical support in every phase of my thesis. Many thanks for the help you have given me in the other parts of my life.

I am indebted to my sole mother, Eser ÇAĞATAY for giving me a hand as a proofreader, spending sleepless nights with me, to my supportive father, Rifat ÇAĞATAY, for providing spiritual energy with a faster printer and, to my sister, Serra YENER, for her expeditious contributions via email. Thanks a lot for being so understanding.

I want to express my gratitude to my best friend Ceyda ESEN for her support, precious friendship and for being a real comfort to me whenever I needed.

I also owe a great deal to Samira YENER for her helpful comments and suggestions yielding improvements on the thesis.

I am really grateful to Melike KUŞ for her sympathetic encouragement and help that she has given me.

Additional thanks are due to Yadigar ÇOŞKUN who kindly shared his books without getting bored with my daily and continual requests.

Figure II.1.1. Five-Region Division of Turkey According to the TDHS-2003

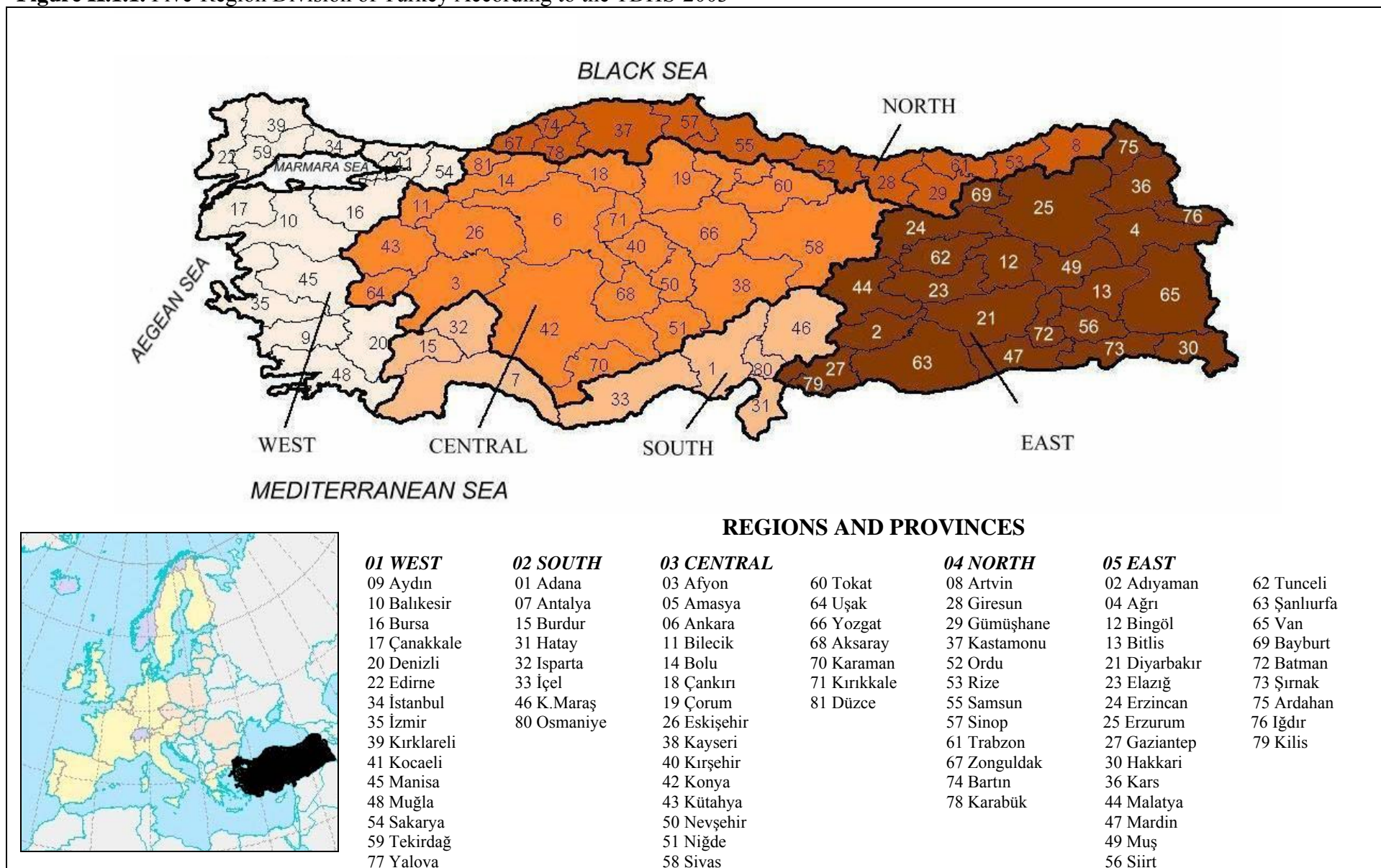


Figure IV.2. Changes in Total Fertility Rates During the Last 60 Years

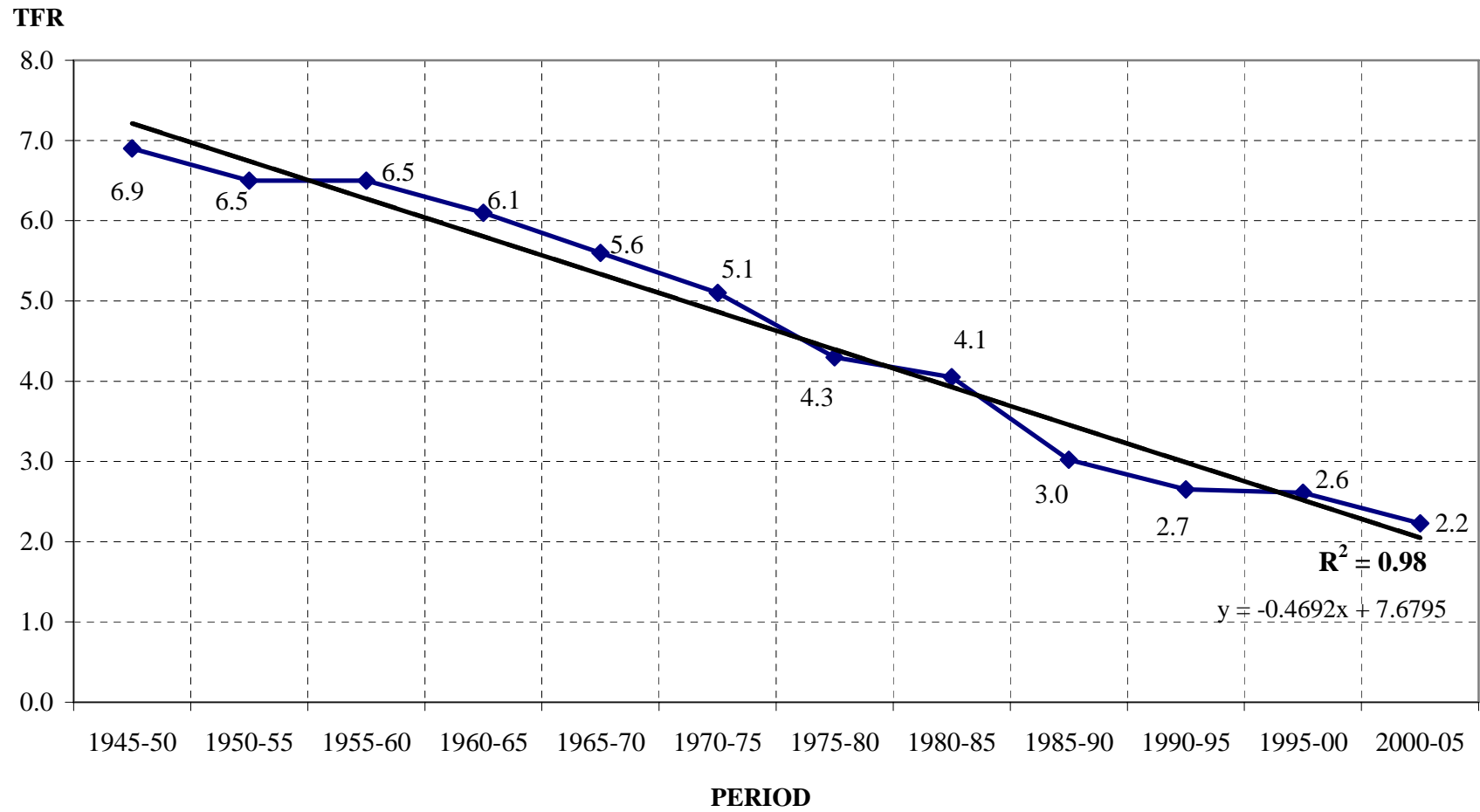
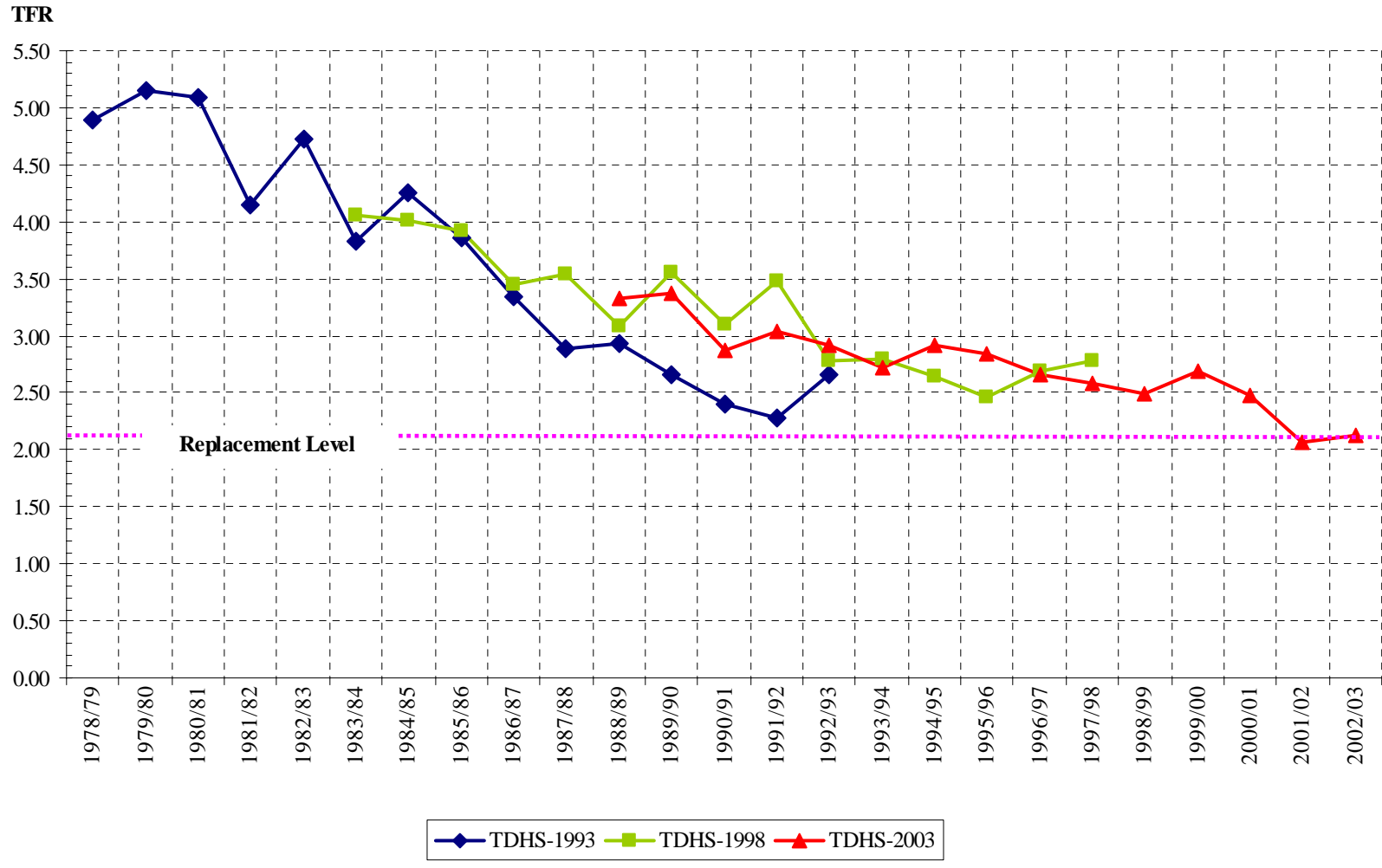


Figure V.2.1. Overall Annual Total Fertility Rates Derived from the Application of Own-Children Method to TDHS Household Data Sets



LIST OF FIGURES

FIGURE II.1.1	FIVE-REGION DIVISION OF TURKEY ACCORDING TO TDHS-2003.....	9
FIGURE IV.1.	TOTAL FERTILITY RATES REGARDING DEMOGRAPHIC SURVEYS.....	35
FIGURE IV.2.	CHANGES IN TOTAL FERTILITY RATES DURING THE LAST 60 YEARS.....	36
FIGURE IV.3.	DIFFERENTIATION IN AGE-SPECIFIC FERTILITY RATES.....	38
FIGURE V.1.1.	AGE PYRAMID BY SINGLE YEAR OF AGE DERIVED FROM HOUSEHOLD DATA OF TDHS-1993.....	43
FIGURE V.1.2.	AGE PYRAMID BY FIVE YEAR AGE GROUP DERIVED FROM HOUSEHOLD DATA OF TDHS-1993.....	43
FIGURE V.1.3.	AGE PYRAMID BY SINGLE YEAR OF AGE DERIVED FROM HOUSEHOLD DATA OF TDHS-1998.....	44
FIGURE V.1.4.	AGE PYRAMID BY FIVE YEAR AGE GROUP DERIVED FROM HOUSEHOLD DATA OF TDHS-1998.....	44
FIGURE V.1.5.	AGE PYRAMID BY SINGLE YEAR OF AGE DERIVED FROM HOUSEHOLD DATA OF TDHS-2003.....	45
FIGURE V.1.6.	AGE PYRAMID BY FIVE YEAR AGE GROUP DERIVED FROM HOUSEHOLD DATA OF TDHS-2003.....	45
FIGURE V.2.1	OVERALL ANNUAL TOTAL FERTILITY RATES DERIVED FROM THE APPLICATION OF OWN-CHILDREN METHOD TO TDHS HOUSEHOLD DATA SETS.....	82
FIGURE V.2.2.	THE OWN-CHILDREN ESTIMATES OF OVERALL THREE-YEAR TOTAL FERTILITY RATES DERIVED FROM TDHS-1993.....	86
FIGURE V.2.3.	THE OWN-CHILDREN ESTIMATES OF OVERALL THREE-YEAR TOTAL FERTILITY RATES DERIVED FROM TDHS-1998.....	86
FIGURE V.2.4.	THE OWN-CHILDREN ESTIMATES OF OVERALL THREE-YEAR TOTAL FERTILITY RATES DERIVED FROM TDHS-2003.....	87

FIGURE V.3.1.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES REGARDING TOTAL FERTILITY RATES.....	88
FIGURE V.3.2.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES REGARDING THE REGIONAL TOTAL FERTILITY RATES ONE YEAR PRECEDING THE SURVEY USING TDHS-1993 DATA.....	89
FIGURE V.3.3.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES REGARDING THE REGIONAL TOTAL FERTILITY RATES THREE YEARS PRECEDING THE SURVEY USING TDHS-1998 DATA.....	90
FIGURE V.3.4.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES REGARDING THE REGIONAL TOTAL FERTILITY RATES THREE YEARS PRECEDING THE SURVEY USING TDHS-2003 DATA.....	90
FIGURE V.3.5.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES BY URBAN REGARDING TOTAL FERTILITY RATES.....	92
FIGURE V.3.6.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES BY RURAL REGARDING TOTAL FERTILITY RATES.....	93
FIGURE V.3.7.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES REGARDING AGE-SPECIFIC FERTILITY RATES ONE YEAR PRECEDING THE SURVEY USING TDHS-1993 DATA.....	95
FIGURE V.3.8.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES REGARDING AGE-SPECIFIC FERTILITY RATES THREE YEARS PRECEDING THE SURVEY USING TDHS-1998 DATA.....	96
FIGURE V.3.9.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES REGARDING AGE-SPECIFIC FERTILITY RATES THREE YEARS PRECEDING THE SURVEY USING TDHS-2003 DATA.....	96
FIGURE V.3.10.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES REGARDING AGE-SPECIFIC FERTILITY RATES BY URBAN USING TDHS-1993 DATA.....	97
FIGURE V.3.11.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES REGARDING AGE-SPECIFIC FERTILITY RATES BY RURAL USING TDHS-1993 DATA.....	98

FIGURE V.3.12.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES REGARDING AGE-SPECIFIC FERTILITY RATES BY URBAN USING TDHS-1998 DATA.....	99
FIGURE V.3.13.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES REGARDING AGE-SPECIFIC FERTILITY RATES BY RURAL USING TDHS-1998 DATA.....	99
FIGURE V.3.14.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES REGARDING AGE-SPECIFIC FERTILITY RATES BY URBAN USING TDHS-2003 DATA.....	100
FIGURE V.3.15.	TDHS-TYPE ESTIMATES VERSUS OWN-CHILDREN ESTIMATES REGARDING AGE-SPECIFIC FERTILITY RATES BY RURAL USING TDHS-2003 DATA.....	100
FIGURE V.3.16.	AGE-SPECIFIC FERTILITY RATES FOR THE TOTAL DERIVED FROM TDHS DATA.....	101
FIGURE V.3.17.	AGE-SPECIFIC FERTILITY RATES FOR THE TOTAL DERIVED FROM OWN-CHILDREN METHOD.....	102
FIGURE V.3.18.	AGE-SPECIFIC FERTILITY RATES DURING THE LAST 15 YEARS (OWN-CHILDREN VERSUS TDHS-1993).....	104
FIGURE V.3.19.	AGE-SPECIFIC FERTILITY RATES DURING THE LAST 15 YEARS (OWN-CHILDREN VERSUS TDHS-1998).....	105
FIGURE V.3.20.	AGE-SPECIFIC FERTILITY RATES DURING THE LAST 15 YEARS (OWN-CHILDREN VERSUS TDHS-2003).....	106
FIGURE V.3.21.	AGE-SPECIFIC FERTILITY RATES 0-4 AND 10-14 YEARS PRIOR TO THE SURVEY (OWN-CHILDREN VERSUS TDHS-2003).....	107
FIGURE V.3.22.	AGE-SPECIFIC FERTILITY RATES 5-9 YEARS PRIOR TO THE SURVEY (OWN-CHILDREN VERSUS TDHS-2003).....	107

LIST OF TABLES

TABLE II.1.1.	DATA AND WEIGHTED NUMBER OF CASES USED IN THE APPLICATION OF OWN-CHILDREN METHOD.....	7
TABLE II.1.2.	A SUMMARY TABLE INDICATING LAST THREE NATIONWIDE DEMOGRAPHIC SURVEYS IN TURKEY.....	10
TABLE II.6.1.	COEFFICIENTS FOR ESTIMATION OF SEPERATION FACTORS FOR AGE-GROUP 0-1, COALE-DEMENY MODEL LIFE TABLES.....	18
TABLE IV.1.	TOTAL FERTILITY RATES IN TURKEY BETWEEN 1945-1970.....	34
TABLE IV.2.	TOTAL FERTILITY RATES IN TURKEY AS OF 1980, 1985 AND 1990 CENSUSES.....	34
TABLE IV.3.	DIFFERENTIATION IN NATIONAL AVERAGE OF TOTAL FERTILITY RATES.....	35
TABLE IV.4.	AGE-SPECIFIC FERTILITY RATES.....	37
TABLE IV.5.	DIFFERENTIATION IN TOTAL FERTILITY RATES AS REGARDS REGION AND RESIDENCE.....	39
TABLE V.1.1.	SUMMARY TABLE FOR THE VALUES OF MYERS INDEX	46
TABLE V.1.2.	PERCENT DISTRIBUTION OF MYERS INDEX SHOWING THE DEGREE OF PREFERENCE OF TERMINAL DIGIT IN HOUSEHOLD DATA, TDHS-1993.....	47
TABLE V.1.3.	PERCENT DISTRIBUTION OF MYERS INDEX SHOWING THE DEGREE OF PREFERENCE OF TERMINAL DIGIT IN HOUSEHOLD DATA, TDHS-1998.....	47
TABLE V.1.4.	PERCENT DISTRIBUTION OF MYERS INDEX SHOWING THE DEGREE OF PREFERENCE OF TERMINAL DIGIT IN HOUSEHOLD DATA, TDHS-2003.....	48
TABLE V.2.1.	VARIABLES USED IN EACH TDHS.....	50
TABLE V.2.2.	OWN-CHILDREN DATA CLASSIFIED BY SINGLE YEAR OF AGE AND SINGLE YEAR AGE OF MOTHER DERIVED FROM HOUSEHOLD DATA OF TDHS-1993.....	52

TABLE V.2.3.	OWN-CHILDREN DATA CLASSIFIED BY SINGLE YEAR OF AGE AND SINGLE YEAR AGE OF MOTHER DERIVED FROM HOUSEHOLD DATA OF TDHS-1998.....	53
TABLE V.2.4.	OWN-CHILDREN DATA CLASSIFIED BY SINGLE YEAR OF AGE AND SINGLE YEAR AGE OF MOTHER DERIVED FROM HOUSEHOLD DATA OF TDHS-2003.....	54
TABLE V.2.5	VALUES OF EXPANSION FACTORS, K_x	56
TABLE V.2.6.	UNDER-FIVE MORTALITY RATES FOR THE TEN-YEAR PERIOD PRIOR TO SURVEY.....	58
TABLE V.2.7.	NUMBER OF PERSONS SURVIVING TO AGE 5 (L_x) DERIVED FROM UNDER- FIVE MORTALITY RATES.....	59
TABLE V.2.8.	ESTIMATION OF SURVIVORSHIP PROBABILITIES FOR CHILDREN AND ADULT FEMALES FOR TDHS-1993 REFERING TO THE PERIOD 1983-1993.....	61
TABLE V.2.9.	ESTIMATION OF SURVIVORSHIP PROBABILITIES FOR CHILDREN AND ADULT FEMALES FOR TDHS-1998 REFERING TO THE PERIOD 1988-1998.....	62
TABLE V.2.10.	ESTIMATION OF SURVIVORSHIP PROBABILITIES FOR CHILDREN AND ADULT FEMALES FOR TDHS-2003 REFERING TO THE PERIOD 1993-2003.....	63
TABLE V.2.11.	ESTIMATED NUMBER OF BIRTHS IN SINGLE YEAR PERIODS BY SINGLE YEAR AGE OF MOTHER DERIVED FROM TDHS-1993.....	66
TABLE V.2.12.	ESTIMATED NUMBER OF BIRTHS IN SINGLE YEAR PERIODS BY SINGLE YEAR AGE OF MOTHER DERIVED FROM TDHS-1998.....	67
TABLE V.2.13.	ESTIMATED NUMBER OF BIRTHS IN SINGLE YEAR PERIODS BY SINGLE YEAR AGE OF MOTHER DERIVED FROM TDHS-2003.....	68
TABLE V.2.14.	ESTIMATED NUMBER OF WOMEN IN SINGLE YEAR PERIODS BY SINGLE YEAR AGE OF WOMAN DERIVED FROM TDHS-1993.....	71
TABLE V.2.15.	ESTIMATED NUMBER OF WOMEN IN SINGLE YEAR PERIODS BY SINGLE YEAR AGE OF WOMAN DERIVED FROM TDHS-1998.....	72

TABLE V.2.16.	ESTIMATED NUMBER OF WOMEN IN SINGLE YEAR PERIODS BY SINGLE YEAR AGE OF WOMAN DERIVED FROM TDHS-2003.....	73
TABLE V.2.17.	ESTIMATED SINGLE-YEAR FERTILITY RATES BY SINGLE YEAR AGE OF MOTHER DERIVED FROM TDHS-1993.....	76
TABLE V.2.18.	ESTIMATED SINGLE-YEAR FERTILITY RATES BY FIVE-YEAR AGE GROUP DERIVED FROM TDHS-1993.....	77
TABLE V.2.19.	ESTIMATED THREE-YEAR FERTILITY RATES BY FIVE YEAR AGE GROUP DERIVED FROM TDHS-1993.....	77
TABLE V.2.20.	ESTIMATED FIVE-YEAR FERTILITY RATES DERIVED FROM TDHS-1993.....	77
TABLE V.2.21.	ESTIMATED SINGLE-YEAR FERTILITY RATES BY SINGLE YEAR AGE OF MOTHER DERIVED FROM TDHS-1998.....	78
TABLE V.2.22.	ESTIMATED SINGLE-YEAR FERTILITY RATES BY FIVE-YEAR AGE GROUP DERIVED FROM TDHS-1998.....	79
TABLE V.2.23.	ESTIMATED THREE-YEAR FERTILITY RATES BY FIVE YEAR AGE GROUP DERIVED FROM TDHS-1998.....	79
TABLE V.2.24.	ESTIMATED FIVE-YEAR FERTILITY RATES DERIVED FROM TDHS-1998.....	79
TABLE V.2.25.	ESTIMATED SINGLE-YEAR FERTILITY RATES BY SINGLE YEAR AGE OF MOTHER DERIVED FROM TDHS-2003.....	80
TABLE V.2.26.	ESTIMATED SINGLE-YEAR FERTILITY RATES BY FIVE-YEAR AGE GROUP DERIVED FROM TDHS-2003.....	81
TABLE V.2.27.	ESTIMATED THREE-YEAR FERTILITY RATES BY FIVE YEAR AGE GROUP DERIVED FROM TDHS-2003.....	81
TABLE V.2.28.	ESTIMATED FIVE-YEAR FERTILITY RATES DERIVED FROM TDHS-2003.....	81
TABLE V.2.29.	SINGLE YEAR TOTAL FERTILITY ESTIMATES COMPUTED FROM OWN-CHILDREN METHOD FOR TDHS-1993, TDHS-1998 AND TDHS-2003.....	84
TABLE V.3.1.	DIFFERENTIATION IN OWN-CHILDREN (OC) AND TDHS-TYPE TOTAL FERTILITY ESTIMATES.....	91

TABLE V.3.2.	COMPARISON OF ASFR ONE YEAR PRECEDING THE SURVEY DERIVED FROM TDHS-1993 AND THE OWN-CHILDREN METHOD.....	94
TABLE V.3.3.	COMPARISON OF ASFR THREE YEARS PRECEDING THE SURVEY DERIVED FROM TDHS-1998 AND THE OWN-CHILDREN METHOD.....	94
TABLE V.3.4.	COMPARISON OF ASFR THREE YEARS PRECEDING THE SURVEY DERIVED FROM TDHS-2003 AND THE OWN-CHILDREN METHOD.....	94
TABLE V.3.5.	AGE-SPECIFIC FERTILITY RATES FOR FIVE-YEAR PERIODS PRIOR TO THE SURVEY.....	103
TABLE V.3.6.	CUMULATIVE TOTAL FERTILITY RATES UP TO AGE 35, CFR(35), DERIVED FROM TDHS AND OWN-CHILDREN METHOD (OC).....	108