

DEMOGRAPHIC SURVEILLANCE SYSTEM- MATLAB

VOLUME ELEVEN

VITAL EVENTS AND MIGRATION-TABLES 1981

REPORT PREPARED BY

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Volume Eleven

Vital Events and Migration - Tables

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PREFACE

The International Centre for Diarrhoeal Disease Research, Bangladesh (ICDDR,B) is an autonomous, international, philanthropic and non-profit centre for research, education and training as well as clinical service. The Centre is derived from the Cholera Research Laboratory (CRL). The activities of the institution are to undertake and promote study, research and dissemination of knowledge in diarrhoeal diseases and directly related subjects of nutrition and fertility with a view to develop improved methods of health care and for the prevention and control of diarrhoeal diseases and improvement of public health programmes with special relevance to developing countries. ICDDR,B issues annual report, working paper, scientific report, special publication, monograph, thesis and dissertation, and newsletter which demonstrate the type of research activity currently in progress at ICDDR,B. The views expressed in these papers are those of authors and do not necessarily represent views of International Centre for Diarrhoeal Disease Research, Bangladesh. They should not be quoted without the permission of the authors.

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ABSTRACT

This is the 11th volume in the series of scientific reports produced by the International Centre for Diarrhoeal Disease Research, Bangladesh (former Cholera Research Laboratory), presenting basic tabulations from the registration of births, deaths, marriages, divorces and migrations in the Demographic Surveillance System of the Matlab Field Station. The present volume presents results as obtained from the surveillance area for the calendar year 1981.

INTRODUCTION

The present volume reports the results obtained from the Demographic Surveillance System (DSS), Matlab in the calendar year 1981 (Figure 1 and 2 for location of Matlab and DSS area). In Volume One of this series, a detailed description of the DSS and its operation is given. From 1978, however, some modifications in the DSS have been introduced, in terms of area-coverage and field operation. These changes were described in detail in Volume Seven of this series. This volume's reporting format, in terms of tabulation pattern and presentation, essentially is the same as that followed in the preceding Volume 10 (for the year 1980). To make the tables self-explanatory, a few explanations and notes are provided below:

NOTES FOR TABLE

Table I

The Demographic Surveillance System (DSS) area of Matlab consists of 149 villages (see Figure 2, and Appendix A for village location and names). The mid-year population of this area refers to the date July 1, 1981, and has been obtained through computer updating of the census population (as of December 31, 1978) for all registered births, deaths and migrations (in/out) which occurred from January 1, 1979 to June 30, 1981.

Age is recorded in total completed years as of last birthday. For persons who were born within the DSS area after 1966, age figures are exact. In cases where ages are unknown -- which may apply to in-migrants or to persons born before 1966 -- ascertainment of age is made as accurately as possible, by reference to any past event that may be remembered.

Table II

The 1981 crude death rates in the DSS area and in its two components, the MCH-FP and comparison areas, do not change substantially when compared with those of the preceding year. In contrast, the infant mortality rate (deaths per 1,000 live births) rose from 103.9 in 1980 to 109.1 in 1981. The reported increase (from 91.9 to 102.6) is registered in the MCH-FP area, while in the comparison area infant mortality remains almost at the constant level of 114. While this increase may have occurred, problems related to the reporting of male infant deaths in 1980 could be a contributory factor, (cf. Vol. 10, p.5).

Table IV

The sex-wise pattern of infant mortality in 1981 differs from that of 1980, but is similar to previous years. For males, infant mortality rose from 90.2 in 1980 to 104.8 in 1981, whereas for females it decreased from

FIGURE 1

MAP OF BANGLADESH SHOWING THE STUDY AREA

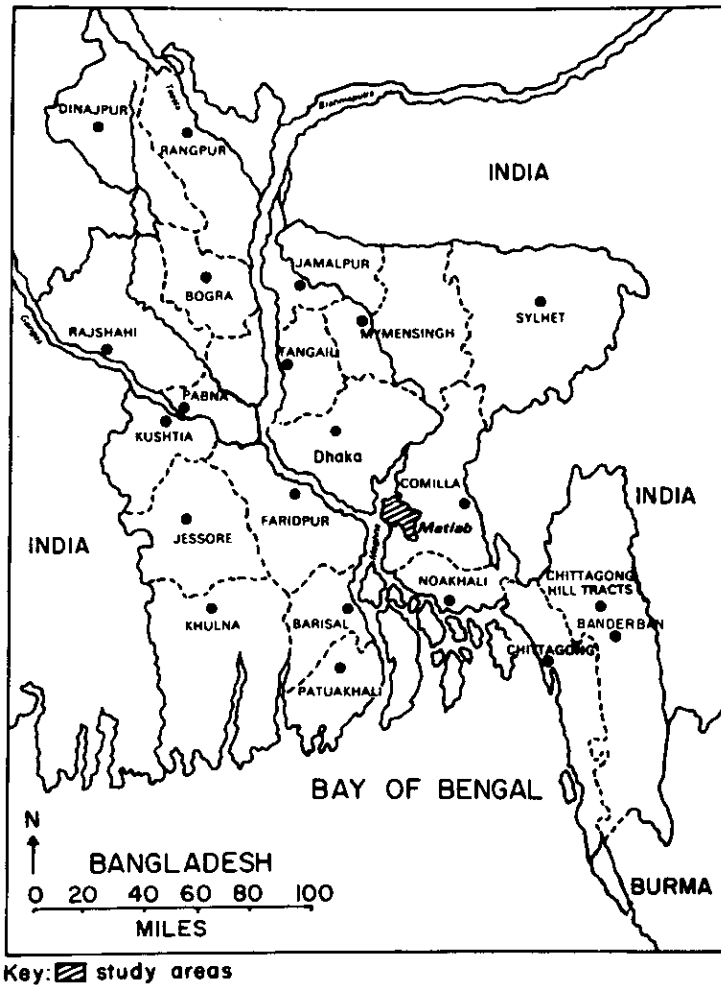
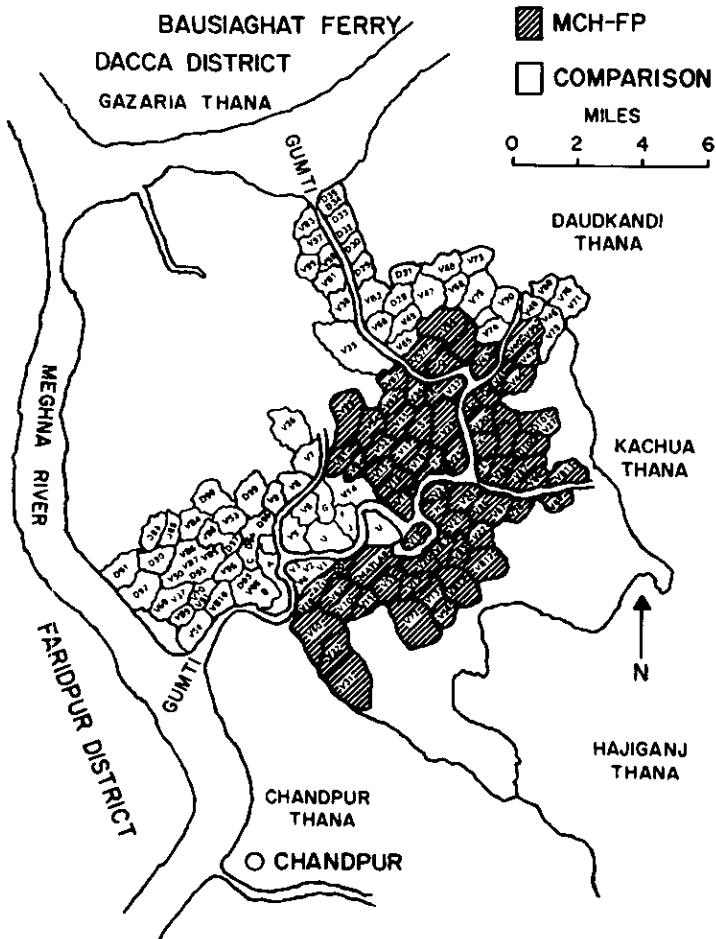


FIG. 2: MATLAB AREA SHOWING VILLAGES OF
DEMOGRAPHIC SURVEILLANCE SYSTEM, 1981



118.5 to 113.7. These reported mortality shifts apply both for the neonatal and post-neonatal stages. These results too indicate a possible under-reporting of male infant deaths in 1980.

Tables VII & IX

A pregnancy outcome is designated as "early miscarriage" if the gestation period is less than seven months. For gestation beyond seven months, foetal loss is said to be a "stillbirth."

In the case of twin birth pregnancies, a live birth pregnancy may have one or two live births.

While computing the mean number of previous pregnancies and mean number of surviving children the present birth is always excluded.

Table X

Marriage rates in 1981, while displaying the usual pattern of peaks at ages 25-29 for males and at ages 15-19 for females, are reported to be 10% higher, compared with 1980.

Table XIV

This table is constructed from two tables, C14 and C15 given in Appendix C. For a detailed description of the major categories of "reasons for migration" these appendix tables may be consulted.

An "out-migrant" is defined as a person originally listed on the census record as a resident or a person who became a resident after the census by birth or in-migration, who subsequently permanently moved out of the surveillance (DSS) area. Likewise, an "in-migrant" is an individual not recorded in the census schedule, who has permanently moved into the surveillance area. A permanent change of residence is determined by the duration of stay. Residence of at least six months is required for "permanent" status.

TABLE I--MID-YEAR POPULATION BY AGE AND SEX, 1981

Age (years)	N u m b e r			P e r c e n t		
	Both sexes	Males	Females	Both sexes	Males	Females
All ages	182977	92412	90565	100.0	100.0	100.0
0 - 4	30518	15837	14681	16.7	17.1	16.2
0	6506	3395	3111	3.6	3.7	3.4
1	6381	3339	3042	3.5	3.6	3.4
2	5398	2768	2630	3.0	3.0	2.9
3	5605	2891	2714	3.1	3.1	3.0
4	6628	3444	3184	3.6	3.7	3.5
5 - 9	24747	13011	11736	13.5	14.1	12.9
10 - 14	23424	12102	11322	12.8	13.1	12.5
15 - 19	21690	10358	11332	11.9	11.2	12.5
20 - 24	17169	8866	8303	9.4	9.6	9.2
25 - 29	11242	5582	5660	6.1	6.0	6.3
30 - 34	8056	3735	4321	4.4	4.0	4.8
35 - 39	9217	3955	5262	5.0	4.3	5.8
40 - 44	7586	3586	4000	4.1	3.9	4.4
45 - 49	8060	4043	4017	4.4	4.4	4.4
50 - 54	5712	2941	2771	3.1	3.2	3.1
55 - 59	5259	2786	2473	2.9	3.0	2.7
60 - 64	3471	1838	1633	1.9	2.0	1.8
65 +	6826	3772	3054	3.7	4.1	3.4

Fig. 3: AGE PYRAMID OF THE 1981 MID YEAR
POPULATION

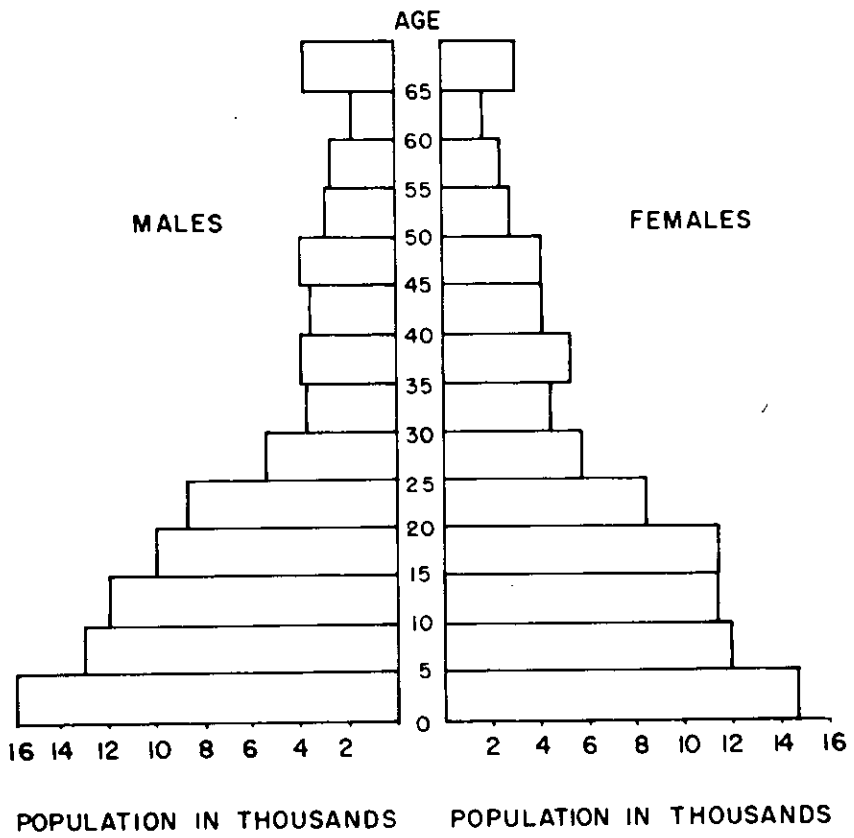


TABLE II--MID-YEAR POPULATION, EVENTS REGISTERED AND POPULATION CHANGE IN 1981

	Number	Rate per 1000 population
Total population, 1981 Mid-year	182977	-
MCH-FP area ^a	92624	-
Comparison area ^a	90353	-
<u>Events registered</u> (January to December 1981)		
Birth		
whole area	7222	39.5
MCH-FP area	3266	35.3
Comparison area	3956	43.8
Infant mortality		
Whole area	788	109.1**
MCH-FP area	335	102.6**
Comparison area	453	114.5**
Death		
Whole area	2400	13.1
MCH-FP area	1098	11.9
Comparison area	1302	14.4
In-migration	5000	27.3
Out-migration	6410	35.1
Marriages	3240	17.7
Divorces	513	158.4*
<u>Population change</u> (January to December 1981)		
Net-migration	- 1410	- 7.7
Natural increase	4822	26.4
MCH-FP area	2168	23.4
Comparison area	2654	29.4
Net increase	3412	18.6

^a The MCH-FP area, comprised of 70 villages within the DSS, constitutes the intervention area for the Maternal Child Health-Family Planning Project, Matlab, while the remaining 79 villages serve as a comparison area (see Fig. 2 and Appendix A).

* Ratio per 1000 marriages.

** Rate per 1000 live births.

Fig. 4: NUMBER OF LIVE BIRTHS, TOTAL DEATHS
AND NATURAL INCREASE BY MONTHS
IN 1981

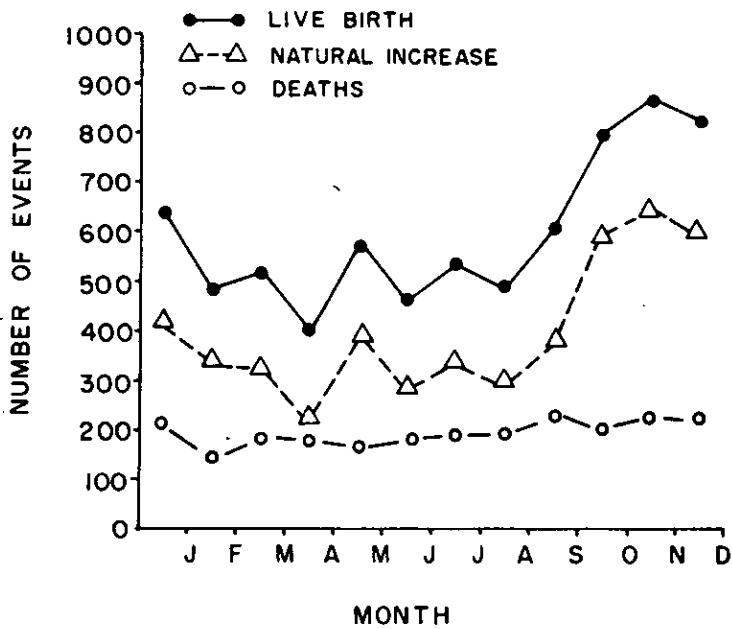


TABLE III--DEATHS BY AGE GROUP, 1981

Age group (years)	Number	Percentage*
All ages	2400	100
< 1	788	33
1 - 4	529	22
5 - 9	81	3
10 - 19	64	3
20 - 39	117	5
40 - 59	233	10
60 +	588	24

* Rounded off to the nearest integer.

TABLE IV--DEATH RATES IN 1981 BY AGE AND SEX

Age at death	Rate per 1000 population		
	Both sexes	Males	Females
All ages	13.1	12.6	13.6
Under 1 year*	109.1*	104.8*	113.7*
Under 1 month	68.1*	68.6*	67.6*
1 - 11 months	41.0*	36.2*	46.1*
1 - 4 years	22.0	16.2	28.3
1	33.7	24.0	44.4
2	29.6	20.0	37.6
3	14.6	12.1	17.3
4	10.9	7.5	14.4
5 - 9	3.3	2.4	4.3
10 - 14	1.4	1.7	1.1
15 - 19	1.4	.9	1.9
20 - 24	2.0	1.6	2.4
25 - 29	2.6	2.0	3.2
30 - 34	3.1	3.2	3.0
35 - 39	3.1	4.3	2.3
40 - 44	3.8	3.3	4.3
45 - 49	6.1	7.9	4.2
50 - 54	10.3	10.9	9.7
55 - 59	18.3	21.2	15.0
60 - 64	26.2	27.2	25.1
65 +	72.8	72.4	73.3

* Rate per 1000 live births.

TABLE V--ABRIDGED LIFE TABLES FOR MALES AND FEMALES BASED ON 1981 MORTALITY RATES¹

Age (years)	M a l e s				F e m a l e s			
	$1000\ nq_x$	l_x	nL_x	e_x^o	$1000\ nq_x$	l_x	nL_x	e_x^o
0	104.8	100000	92412	57.7	113.7	100000	91768	54.6
1	23.7	89520	88267	63.5	43.4	88630	86359	60.5
2	19.8	87397	86532	64.0	36.9	84780	83216	62.3
3	12.0	85666	85151	64.3	17.2	81651	80951	63.6
4	7.5	84636	84320	64.1	14.3	80250	79677	63.7
5	11.9	84004	417500	63.5	21.3	79103	391628	63.6
10	8.5	83002	413529	59.3	5.5	77419	386364	60.0
15	4.5	82299	411111	54.8	9.5	76994	383158	55.3
20	8.0	81929	408125	50.0	11.9	76266	379167	50.8
25	10.0	81276	404500	45.4	15.9	75356	374063	46.4
30	15.9	80467	399375	40.8	14.9	74159	368333	42.1
35	21.3	79189	392093	36.4	11.4	73054	363478	37.7
40	16.4	77503	384545	32.1	21.3	72218	357442	33.1
45	38.8	76234	374304	27.6	20.8	70681	350000	28.7
50	53.2	73277	357339	23.6	47.4	69211	338454	24.3
55	101.0	69382	330472	19.8	72.5	65928	318467	20.4
60	127.8	62376	293088	16.7	118.5	61151	288685	16.7
65+	1000.0	54404	751436	13.8	1000.0	53905	735402	13.6

¹ See Appendix B for equations used.

TABLE VI--ABRIDGED LIFE TABLE FOR BOTH SEXES BASED ON 1981 MORTALITY RATES¹

Age (years)	B o t h S e x e s			
	$1000\ n\ q_x$	ℓ_x	$n\ L_x$	e_x^o
0	109.1	100000	92101	56.2
1	33.1	89090	87348	62.0
2	29.2	86137	84881	63.1
3	14.5	83624	83018	64.0
4	10.8	82412	81966	63.9
5	16.4	81519	404545	63.6
10	7.0	80184	399286	59.6
15	7.0	79625	397143	55.0
20	10.0	79069	393500	50.4
25	12.9	78282	389231	45.9
30	15.4	77270	383548	41.4
35	15.4	76081	377742	37.1
40	18.8	74910	371316	32.6
45	30.1	73499	362459	28.2
50	50.3	71288	348155	23.9
55	87.7	67702	324590	20.1
60	123.4	61762	290840	16.8
65+	1000.0	54142	743709	13.7

¹ See Appendix B for equations used.

Fig.5: PROBABILITY OF SURVIVAL FROM BIRTH
TO AGE (X) BY SEX FROM LIFE TABLES
OF 1981

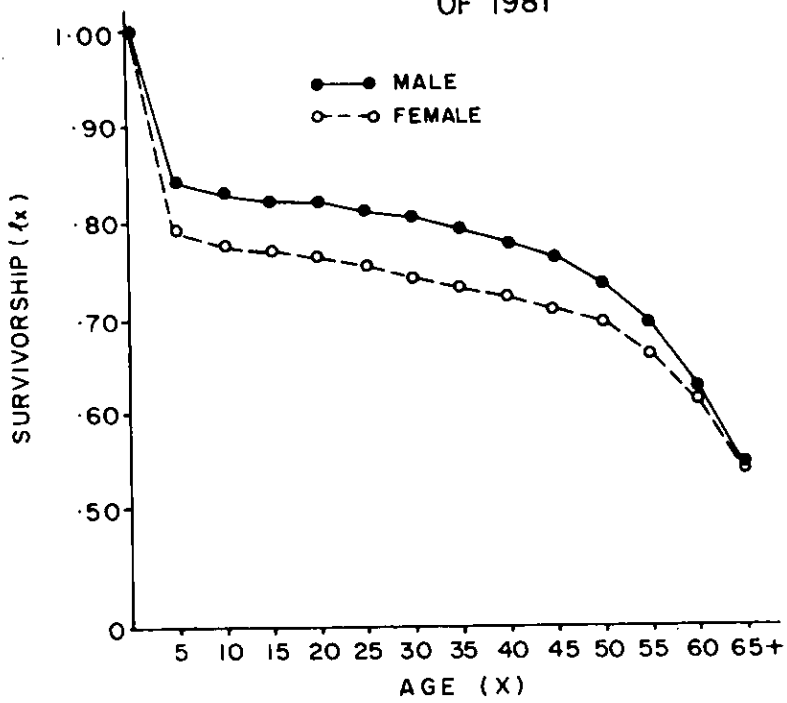


Fig. 6: EXPECTATION OF YEARS OF REMAINING
LIFE FROM LIFE TABLE OF 1981
BY AGE & SEX

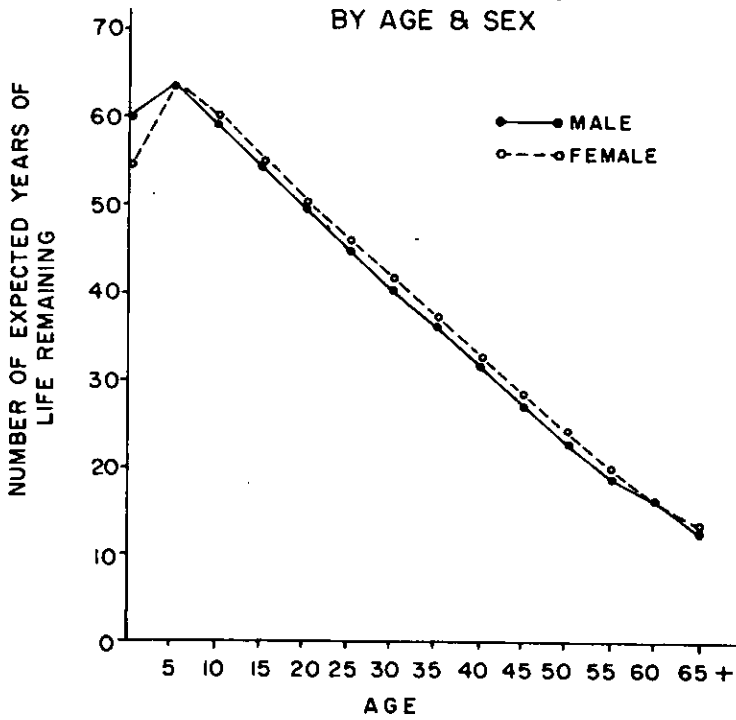


TABLE VII--NUMBER AND RATES OF TERMINATION OF PREGNANCIES BY TYPE, 1981

Type of pregnancy termination	Number	Rate
Total pregnancies	8192	-
Live birth pregnancies*	7168	39.2**
Male births	3730	-
Female births	3492	-
Foetal Wastage pregnancies	1024	142.9***
Early (miscarriages)	748	104.4
Late (still births)	276	38.4
Twin birth pregnancies	73	-
Live birth pregnancies	63	8.8***
Two live births	54	-
One live birth	9	-
Still birth pregnancies	4	.6***
Miscarriage pregnancies	6	.8***

* Male and female births do not add up to total live birth pregnancies because of twins.

** Rate per 1000 population.

*** Rate per 1000 live birth pregnancies

TABLE VIII--AGE-SPECIFIC FERTILITY RATES (PER 1000), 1981

Age group (years)	Number of live births	Number of women*	Fertility rate (per 1000 women)
All ages	7222	42895	168.4
15 - 19**	1311	11332	115.7
20 - 24	2354	8303	283.5
25 - 29	1602	5660	283.0
30 - 34	943	4321	218.2
35 - 39	799	5262	151.8
40 - 44	171	4000	42.8
45 - 49***	42	4017	10.5
	Total fertility rate	5,528	
	General fertility rate	168	
	Gross reproduction rate	2,658	
	Net reproduction rate	1,983	

* Figures obtained from mid-year population distribution.

** Births which occurred to mothers below age 15 were included in this group.

*** Births which occurred to mothers of age 50 and above were included in this group.

TABLE IX--MEAN NUMBER OF PREVIOUS PREGNANCIES AND SURVIVING CHILDREN
FOR MOTHERS OF DIFFERENT AGES WHO HAD LIVE BIRTHS IN 1981

Age of mother (years)	Number of mothers	Mean number of previous pregnancies	Mean number of surviving children
All ages	7168	3.0	2.1
< 15	10	.1	.0
15 - 19	1296	.3	.2
20 - 24	2338	1.4	1.0
25 - 29	1585	3.8	2.5
30 - 34	934	5.2	3.8
35 - 39	793	6.9	4.9
40 - 44	170	7.8	5.9
45 +	42	7.9	5.8

TABLE X--AGE/SEX-SPECIFIC MARRIAGE RATES, 1981

Age at marriage	Rate per 1000 population***		
	Both sexes	Males	Females
All ages	50.7*	50.9*	50.4*
10 - 14	8.9	.7	17.7
15 - 19	116.1	18.4	205.4
20 - 24	106.2	138.8	71.3
25 - 29	119.6	224.7	15.9
30 - 34	36.3	72.6	4.9
35 - 39	15.6	35.4	.8
40 - 44	7.6	15.9	.2
45 - 49	6.3	12.4	.1**
50 - 54	2.3	4.4	-
55 - 59	1.5	2.9	-
60 - 64	1.4	2.7	-
65 +	1.3	2.4	-

* Mid-year population age 10 years and over was used to compute the rates.

** Mid-year population age 45 and over was used to compute the rate.

*** Rates per 1000 population irrespective of previous marital status.

Fig. 8: MEAN NUMBER OF PREGNANCIES AND
MEAN NUMBER OF SURVIVING CHILDREN
FOR WOMEN WHO DELIVERED LIVE BIRTHS
IN 1981 BY AGE

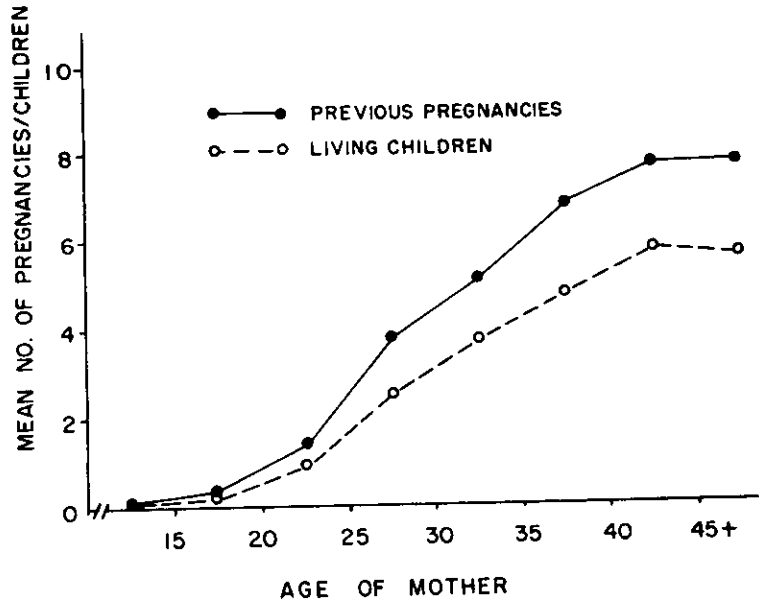


Fig. 9: MARRIAGE RATES IN 1981
BY AGE AND SEX

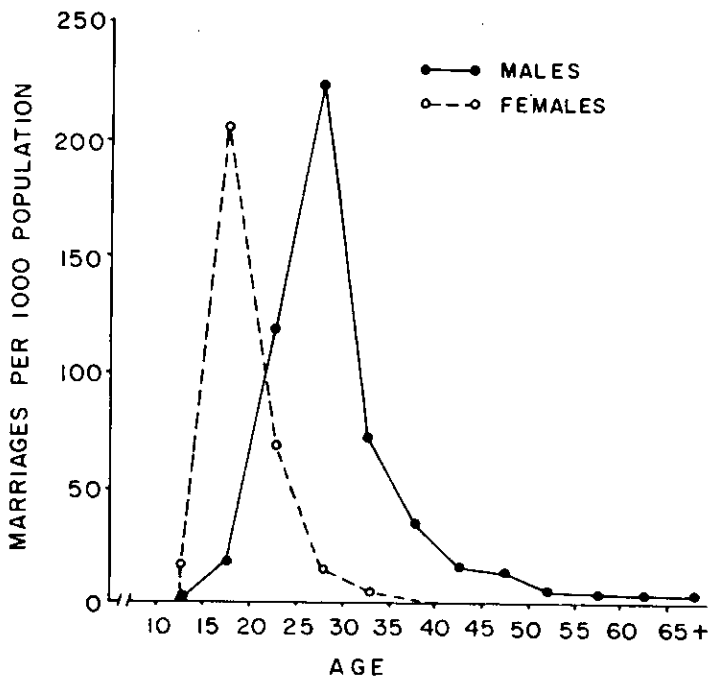


Fig. 10: NUMBER OF MARRIAGES AND DIVORCES
REGISTERED IN 1981 BY MONTH

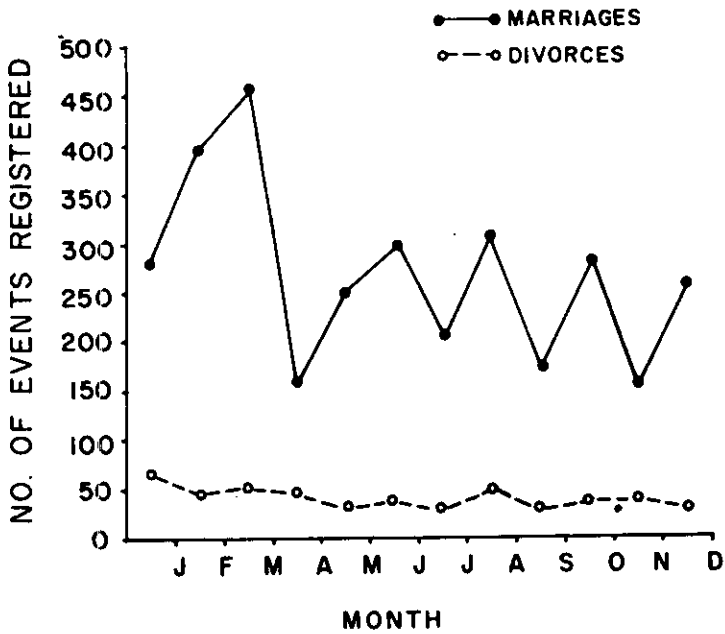


TABLE XI--GROOM'S AGE AT MARRIAGE BY PREVIOUS MARITAL STATUS, 1981

Age group	P r e v i o u s M a r i t a l S t a t u s									
	All grooms		Single		Married		Widowed		Divorced	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All ages	3240	100.0	2437	100.0	163	100.0	134	100.0	506	100.0
10 - 14	10	0.3	10	0.4	-	-	-	-	-	-
15 - 19	193	5.9	179	7.4	4	2.5	-	-	10	1.8
20 - 24	1231	38.0	1077	44.2	14	8.6	5	3.7	135	26.7
25 - 29	1253	38.7	1032	42.3	22	13.5	22	16.5	177	35.0
30 - 34	271	8.4	120	4.9	30	18.4	20	14.9	101	20.0
35 - 39	140	4.3	15	0.6	45	27.6	26	19.4	54	10.7
40 - 44	57	1.8	3	0.1	19	11.7	21	15.7	14	2.8
45 - 49	50	1.5	1	0.0	17	10.4	20	14.9	12	2.4
50 - 54	13	0.4	-	-	6	3.7	5	3.7	2	0.4
55 - 59	8	0.2	-	-	2	1.2	6	4.5	-	-
60 - 64	5	0.2	-	-	1	0.6	4	3.0	-	-
65 +	9	0.3	-	-	3	1.8	5	3.7	1	0.2
Median Age	25.4		24.8		35.6		38.4		27.6	
Mean Age	26.1		24.2		35.7		39.1		28.3	
Standard dev.	6.3		3.6		9.6		10.8		6.2	

TABLE XII--BRIDE'S AGE AT MARRIAGE BY PREVIOUS MARITAL STATUS, 1981

Age group	P r e v i o u s M a r i t a l S t a t u s							
	All brides		Single		Widowed		Divorced	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All ages	3240	100.0	2706	100.0	26	100.0	508	100.0
10 - 14	201	6.2	194	7.1	1	3.8	6	1.2
15 - 19	2327	71.8	2125	78.6	6	23.1	196	38.7
20 - 24	593	18.3	372	13.8	4	15.4	217	42.7
25 - 29	92	2.8	14	0.5	7	26.9	71	13.9
30 - 34	21	0.7	1	0.0	4	15.4	16	3.1
35 - 39	4	0.2	-	-	4	15.4	-	-
40 - 44	1	0.0	-	-	-	-	1	0.2
45 +	1	0.0	-	-	-	-	1	0.2
Median Age	17.9		17.6		26.5		20.7	
Mean Age	17.9		17.3		25.6		20.9	
Standard dev.	3.2		2.5		6.7		3.9	

TABLE XIII--PERCENT DIVORCES IN 1981 BY DURATION OF MARRIAGE AT DIVORCE AND HUSBAND'S AGE

Husband's age at time of divorce (years)	Number of divorces of all duration	Percent divorces by duration (months) of marriages						
		Less than 6	6-11	12-23	24-35	36-47	48-59	60+
All ages	513	16	21	26	16	6	4	11
15 - 24	170	18	25	35	11	5	4	2
25 - 29	180	13	19	24	22	9	5	8
30 - 34	73	14	14	25	16	6	16	11
35 - 39	42	21	19	21	7	3	10	19
40 - 44	19	21	26	5	11	-	-	37
45 +	29	21	21	7	17	3	-	31

TABLE XIV--IN AND OUT MIGRANTS BY SEX AND MAJOR CATEGORIES OF REASONS FOR MIGRATION, 1981

Reasons	In-migration				Out-migration			
	Males		Females		Males		Females	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All reasons	2179	100.0	2821	100.0	3004	100.0	3406	100.0
Dependent movement	824	37.8	1100	39.0	984	32.7	1442	42.3
Independent movement	1284	59.0	1643	58.2	1973	65.7	1918	56.3
- due to work and better living	856	39.3	556	19.7	1923	64.0	728	21.4
- due to marriage and marital disruption	13	0.6	1036	36.7	11	0.4	1181	34.7
- return migration	415	19.1	51	1.8	39	1.3	9	0.2
Others*	71	3.2	78	2.8	47	1.6	46	1.4

* This category includes causes, such as change in residence, treatment for diseases, and some unstated causes related to independent movements.

Fig. 11: NUMBER OF IN AND OUT MIGRATIONS
OF MALES AND FEMALES REGISTERED
IN 1981 BY MONTH

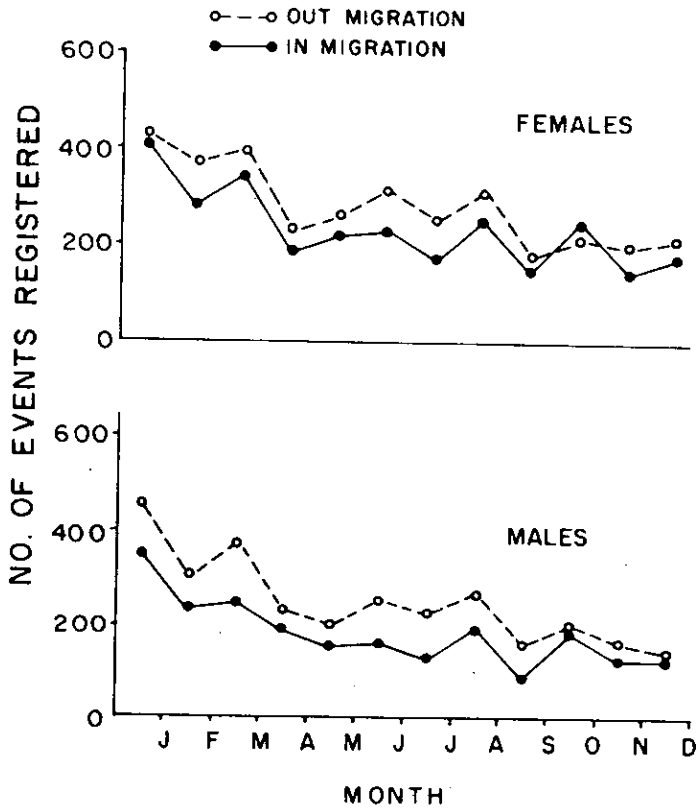


TABLE XV--AGE-AND SEX-SPECIFIC MIGRATION RATES BY DIRECTION, 1981*

Age group (years)	Both sexes		Males		Females	
	In	Out	In	Out	In	Out
All ages	27.3	35.0	23.6	32.5	31.1	37.6
Under 5	23.2	27.6	23.5	28.8	22.8	26.3
5 - 9	18.9	20.6	20.7	20.7	16.9	20.6
10 - 14	19.0	24.7	16.6	24.9	21.6	24.6
15 - 19	61.1	79.5	20.4	48.6	98.3	107.8
20 - 24	41.0	73.4	28.6	63.5	54.2	83.9
25 - 29	41.2	50.9	50.5	57.3	32.0	44.7
30 - 34	32.0	29.7	44.7	43.4	21.1	17.8
35 - 39	22.2	23.7	36.7	40.2	11.4	11.2
40 - 44	15.0	16.2	23.1	22.3	7.8	10.7
45 - 49	10.1	12.3	15.3	17.1	4.7	7.5
50 - 54	10.2	12.1	12.9	13.6	7.2	10.5
55 - 59	9.7	10.6	11.1	8.6	8.1	12.9
60 - 64	12.9	8.6	15.8	8.2	9.8	9.2
65 +	11.1	12.6	9.3	11.4	13.4	14.1

* Rate per 1000 mid-year population.

Fig.12: MALE AND FEMALE MIGRATION RATES IN 1981 BY AGE AND DIRECTION

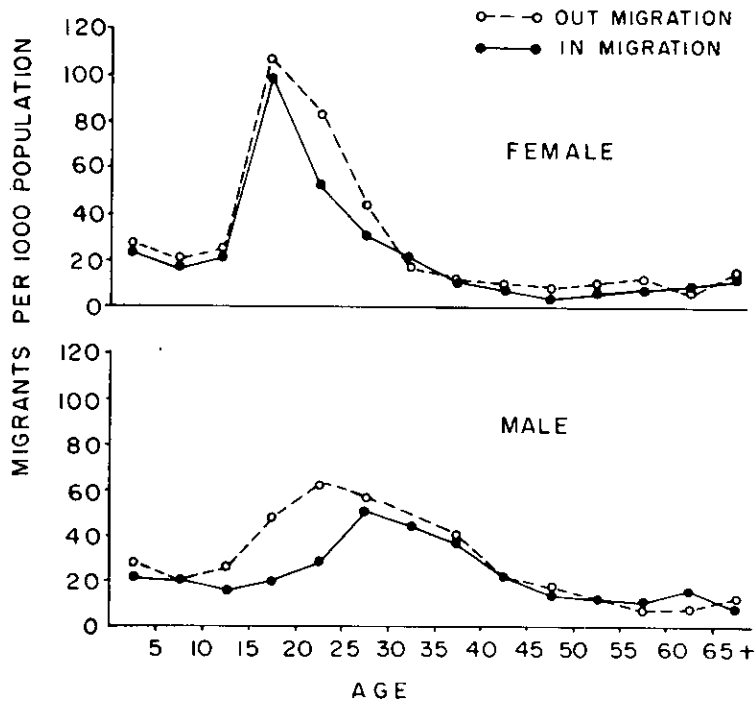


TABLE XVI--AGE SPECIFIC DEATH RATES IN MCH-FP AND COMPARISON AREA, MATLAB, 1981

Age at death (years)	Rate per 1000 Population					
	MCH-FP Area			Comparison Area		
	Both sexes	Males	Females	Both sexes	Males	Females
All ages	11.9	11.5	12.3	14.4	13.8	15.1
Under 1 year*	102.6	103.4	101.7	114.5	106.0	123.5
Under 1 month*	66.4	68.5	64.2	69.5	68.7	71.4
1 - 11 months*	36.1	34.8	37.5	45.0	37.3	55.2
1 - 4 years	19.1	11.8	26.8	24.8	20.3	29.6
5 - 9	3.2	2.4	4.1	3.3	2.4	4.4
10 - 14	1.4	1.9	.9	1.4	1.3	1.4
15 - 19	1.2	.8	1.7	1.6	1.0	2.2
20 - 24	1.3	1.3	1.2	2.7	1.8	3.7
25 - 29	3.1	2.4	3.8	2.0	1.5	2.5
30 - 34	3.2	4.3	2.3	3.0	2.1	3.7
35 - 39	2.3	2.9	1.8	4.1	5.8	2.8
40 - 44	4.9	5.5	4.4	2.7	1.1	4.1
45 - 49	6.9	7.3	6.6	5.2	8.6	1.9
50 - 54	9.3	9.2	9.4	11.4	12.7	10.1
55 - 59	14.6	18.9	9.6	22.1	23.6	20.4
60 - 64	24.9	27.8	21.6	27.4	26.6	28.4
65 +	72.8	68.4	78.4	72.8	77.0	68.0

* Rate per 1000 live births.

TABLE XVII--FERTILITY RATES BY AGE AND AREA IN MATLAB, 1981

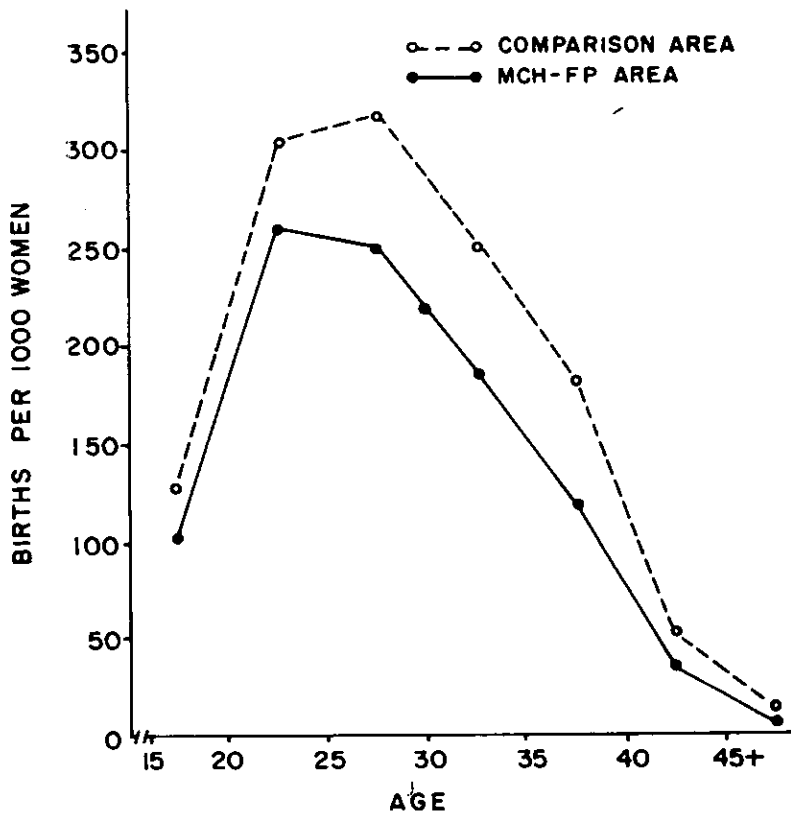
Age (years)	MCH-FP Area			Comparison Area		
	Number of live births	Number* of women	ASFR	Number of live births	Number* of women	ASFR
All ages	3266	22014	148.4	3956	20881	189.4
15 - 19**	623	5943	104.8	688	5389	127.7
20 - 24	1104	4258	259.3	1250	4045	309.0
25 - 29	719	2863	251.1	883	2797	315.7
30 - 34	404	2175	185.7	539	2146	251.2
35 - 39	331	2762	119.8	468	2500	187.2
40 - 44	71	2044	34.7	100	1956	51.1
45 - 49***	14	1969	7.1	28	2048	13.7
GFR = 148			GFR = 189			
TFR = 4813			TFR = 6278			
CBR = 35			CBR = 44			

* Mid-year population.

** Births to mothers under age 15 are included in this group.

*** Births to mothers age 50 and over are included in this group.

Fig.7: AGE SPECIFIC FERTILITY RATES
MATLAB, 1981



Appendix Aa

Village-wise Mid-Year Populations in DSS, Matlab, 1981

Block ²	MCH-FP Area (Pop.Total 92624)				Comparison Area (Pop.Total 90352)			
	Village ¹ Code	Popula- ³ tion	Village ¹ Code	Popula- ³ tion	Village ¹ Code	Popula- ³ tion	Village ¹ Code	Popula- ³ tion
A	D	1384	V59	787	A	2272	V78	220
	W	2155	V60	830	B	1668	V79	310
	V10	1338	V61	604	C	2996	V80	925
	V11	1183	V62	716	F	1232	V90	991
	V31	7617	V72	4871	G	2181	V95	876
	V32	2133			J	376	V96	458
	Pop. Total	23618			U	6697	V97	386
B	H	1210	V26	2209	VO1	687	V98	189
	V12	410	V56	1246	VO2	421	V99	637
	V13	702	V82	1196	VO3	619	VB1	1083
	V19	3089	V83	422	VO4	215	VB2	804
	V20	942	V85	384	VO5	2914	VB3	2441
	V21	434	V87	505	VO6	2163	VB4	2528
	V22	581	VB12	3433	VO7	355	VB5	684
	V23	546	VB13	3908	VO8	1081	VB6	313
	V24	2274			VO9	947	VB7	176
	Pop. Total	23491			V14	931	VB8	927
					V35	3151	VB9	164
C	K	829	V40	664	V36	4328	VB10	1483
	L	368	V41	1203	V37	355	D28	1080
	M	132	V42	632	V38	1394	D29	160
	N	1845	V43	865	V45	828	D30	663
	O	1093	V44	509	V46	304	D31	1013
	P	1715	V64	4275	V47	1605	D32	516
	Q	339	V86	665	V48	591	D33	895
	V27	819	V88	396	V49	1099	D34	1216
	V28	1170	VB11	2217	V50	719	D35	607
	V30	489	D100	2928	V51	1428	D88	1824
	V39	326	D101	1155	V53	2793	D89	520
	Pop. Total	24634			V58	1221	D90	2439
					V65	579	D91	907
D	R	1258	V34	745	V66	819	D92	614
	S	1054	V52	233	V68	751	D93	704
	T	1388	V54	512	V69	1113	D94	901
	V15	546	V55	484	V70	661	D95	323
	V16	700	V57	965	V71	336	D96	204
	V17	1022	V63	1916	V73	692	D97	580
	V18	3292	V67	545	V74	1107	D98	2546
	V25	1226	V81	516	V75	335	D99	1727
	V29	621	V84	1907	V76	1354		
	V33	692	V89	1250				
	Pop. Total	20881						

1. See Appendix Ab for village names

2. Division by Blocks applies only for MCH-FP area.

3. These are the population figures as of July 1, 1981. While giving village-wise populations, 1 individual was found unmatched for villages, although the true total population in the area is 182977.

Appendix Ab

List of the Villages under DSS, Matlab, 1981

Village Code	Village name	Village Code	Village name
A	Uddamdi	V 01	Kadamtali
B	Charmasua	V 02	Nilokhi
C	Sarderbandi	V 03	Char Nilokhi
F	Sepoykandi	V 04	Char Pathalia
G	Thatalia	V 05	Gazipur
H	Lamchari	V 06	Fatepur
J	Char Harigope	V 07	Nayakandi
K	Shahpur	V 08	Goalbhar
L	Tatkhana	V 09	Naburkandi
M	Char Nayergaon	V 10	Dhakirgaon
N	Aswinpur	V 11	Nabakalash
O	Nayergaon	V 12	Bhangerpar
P	Titerkandi	V 13	Baburpara
Q	Char Shibpur	V 14	Enayet Nagar
R	Nandalalpur	V 15	Bhati Rasulpur
S	Tatua	V 16	Binandapur
T	Amuakanda	V 17	Hatighata
U	Baishpur	V 18	Torkey
W	Kaladi	V 19	Lakshmipur
D	Charmukundi	V 20	Dagorpur
D 28	Bazarkhola	V 21	Khadergaon
D 29	Kirtankhola	V 22	Beloti
D 30	Banuakandi	V 23	Baluchar
D 31	Harina Bazarkhola	V 24	Machuakhal
D 32	Khalisha	V 25	Char Pathalia
D 33	Nayanagar	V 26	Narayanpur
D 34	Saidkharkandi	V 27	Panchghoria
D 35	Mollakandi	V 28	Khidirpur
D 88	Sankibanga	V 29	Shibpur (South)
D 89	Sankibanga Namapara	V 30	Harion
D 90	Zahirabaj	V 31	Dighaldi
D 91	North Joypur	V 32	Mobarakdi
D 92	West Joypur	V 33	Shibpur (North)
D 93	Maizkandi	V 34	Satparia
D 94	Hazipur	V 35	Durgapur
D 95	Tapaderpara	V 36	Ludhua
D 96	Rampur	V 37	Charputia
D 97	Nayakandi	V 38	Galimkha
D 98	Bara Haldia	V 39	Gobindapur
D 99	Mandertoli	V 40	Masunda
D 100	Barogaon	V 41	Paton
D 101	Naojan	V 42	Adhara (South)

Appendix Ab (Contd.)

V 43	Kanachak	VB 1	Taltoli
V 44	Panchdona	VB 2	Sree Rayerchar
V 45	Bakchar	VB 3	Rayerkandi
V 46	Silinda	VB 4	Ramdaspur
V 47	Tulatali	VB 5	Thakurpara
V 48	Gangkanda	VB 6	Sarkerpara
V 49	Harina Bhabanipur	VB 7	Mirpur
V 50	Bakharpur	VB 8	Farazikandi
V 51	Induriakandi	VB 9	Ramanathganj
V 52	Nayakandi	VB 10	South Rampur
V 53	Chhoto Haldia	VB 11	Mehron
V 54	Balairkandi	VB 12	Nagda
V 55	Induria	VB 13	Naogaon
V 56	Pailpara		
V 57	Baluchar		
V 58	Mohishmari		
V 59	Doshpara		
V 60	Suvankardi		
V 61	Munsabdi		
V 62	Shilmondi		
V 63	Islamabad (East)		
V 64	Kawadi		
V 65	Nayachar		
V 66	Thatalia		
V 67	Majlishpur		
V 68	Sobahan		
V 69	Naobanga		
V 70	South Joypur		
V 71	Khamarpara		
V 72	Upadi		
V 73	Sadardia		
V 74	Ketundi		
V 75	Mukundi		
V 76	Chosoi		
V 78	Soladana		
V 79	Pitambordi		
V 80	Daribond		
V 81	Sonaterkandi		
V 82	Dhanarpar		
V 83	Padmapal		
V 84	Shahabajkandi		
V 85	Bhanurpara		
V 86	Adhara		
V 87	Hurmaisha		
V 88	Datikara		
V 89	Islamabad (Middle)		
V 90	Narinda		
V 95	Baluchar		
V 96	Rampur		
V 97	Dhonagoda		
V 98	Santoshpur		
V 99	Baluakandi		

APPENDIX BLIFE TABLE EQUATIONS
(With usual symbols)

1. $n^q_x = \frac{n^m_x}{\frac{1}{n} + n^m_x \left\{ \frac{1}{2} + \frac{n}{12} (n^m_x - l_n C) \right\}}$
2. $l_0 = 1.0$
 $l_x = (1 - n^q_{x-n}) l_{x-n}$
3. $L_0 = 0.276l_0 + 0.724l_1$
 $L_1 = 0.410l_1 + 0.590l_2$
 $L_i = \frac{1}{2}(l_i + l_{i+1}), i = 2, 3, 4$
 $\frac{L_x}{n^m_x} = \frac{n^d_x}{n^m_x} \quad \text{for } 5 \leq x \leq 60$
 ${}^\infty L_{65} = \frac{l_{65}}{{}^\infty m_{65}} \quad \text{for the last age group 65+}$
4. $e^o_x = \frac{T_x}{l_x} \quad \text{where } T_x = \sum_{y=x}^{\infty} L_y$

Note: As suggested in Shryock et al. (1975):
The Methods and Materials in Demography, Vol.2, p.444,
 US Dept. of Commerce, $l_n C$ has been taken (app.)
 as the value 0.095.

Appendix C

Table C1	Mid-year population for MCH-FP and comparison area, 1981
Table C2-a	Deaths by age and sex, 1981
Table C2-b	Deaths by age and sex in MCH-FP and comparison area, Matlab, 1981
Table C3	Deaths by age and month, 1981
Table C4	Deaths by cause, age and sex, 1981
Table C5	Outcome of pregnancies by month, 1981
Table C6	Multiple confinements, 1981
Table C7	Pregnancies by litter size and outcome, 1981
Table C8	Number of mothers who had live births in 1981 by age and number of surviving children
Table C9	Number of mothers who had live births in 1981 by age and number of previous pregnancies
Table C10	Number of women who had stillbirths by age and number of previous pregnancies, 1981
Table C11	Number of women who had miscarriages by age and number of previous pregnancies, 1981
Table C12	In and out-migration by age and sex, 1981
Table C13	In and out-migration by sex and month, 1981
Table C14	In-migration by cause of movement, age and sex, 1981
Table C15	Out-migration by cause of movement, sex and age, 1981
Table C16	Number of divorces in 1981 by duration of marriage at divorce and husband's age
Table C17	Marriages and divorces by month, 1981
Table C18	Divorces by age and sex, 1981

Table C1: Mid-year population for MCH-FP and comparison area, 1981

Age (years)	MCH-FP Area			Comparison Area		
	Both sexes	Male	Female	Both sexes	Male	Female
All ages	92624	46699	45925	90353	45713	44640
0 - 4	14521	7547	6974	15997	8290	7707
0	2975	1552	1423	3531	1843	1688
1	2914	1531	1383	3467	1808	1659
2	2477	1278	1199	2921	1490	1431
3	2827	1460	1367	2778	1431	1347
4	3328	1726	1602	3300	1718	1582
5 - 9	12802	6698	6104	11945	6313	5632
10 - 14	12002	6166	5836	11422	5936	5486
15 - 19	11255	5312	5943	10435	5046	5389
20 - 24	8707	4449	4258	8462	4417	4045
25 - 29	5731	2868	2863	5511	2714	2797
30 - 34	4019	1844	2175	4037	1891	2146
35 - 39	4816	2054	2762	4401	1901	2500
40 - 44	3858	1814	2044	3728	1772	1956
45 - 49	4029	2060	1969	4031	1983	2048
50 - 54	2907	1527	1380	2805	1414	1391
55 - 59	2678	1430	1248	2581	1356	1225
60 - 64	1686	899	787	1785	939	846
65 +	3613	2031	1582	3213	1741	1472

Table C2-a: Deaths by age and sex, 1981

Age	Both sexes	Male	Female
All ages	2400	1165	1235
Under 1 year	788	391	397
Under 1 month	492	256	236
1-5 months	189	92	97
6-11 months	107	43	64
1-4 years	529	202	327
1	215	80	135
2	160	61	99
3	82	35	47
4	72	26	46
5-9	81	31	50
10-14	33	20	13
15-19	31	9	22
20-24	34	14	20
25-29	29	11	18
30-34	25	12	13
35-39	29	17	12
40-44	29	12	17
45-49	49	32	17
50-54	59	32	27
55-59	96	59	37
60-64	91	50	41
65+	497	273	224

Appendix C

Table C2-b: Deaths by age and sex in MCH-FP and comparison area, Matlab, 1981

Age	MCH-FP Area			Comparison Area		
	Both sexes	Male	Female	Both sexes	Male	Female
All ages	1098	535	563	1302	630	672
Under 1 year	335	175	160	453	216	237
Under 1 month	217	116	101	275	140	135
1-5 months	74	39	35	115	53	62
6-11 months	44	20	24	63	23	40
1-4 years	220	71	149	309	131	178
1	88	26	62	127	54	73
2	54	17	37	106	44	62
3	40	15	25	42	20	22
4	38	13	25	34	13	21
5-9	41	16	25	40	15	25
10-14	17	12	5	16	8	8
15-19	14	4	10	17	5	12
20-24	11	6	5	23	8	15
25-29	18	7	11	11	4	7
30-34	13	8	5	12	4	8
35-39	11	6	5	18	11	7
40-44	19	10	9	10	2	8
45-49	28	15	13	21	17	4
50-54	27	14	13	32	18	14
55-59	39	27	12	57	32	25
60-64	42	25	17	49	25	24
65+	263	139	124	234	134	100

Appendix C

Table C3: Deaths by age and month, 1981

Months	A g e a t d e a t h				
	All ages	Under 1 month	1-11 months	1-4 years	5 years and over
January	217	52	26	29	110
February	148	25	15	34	74
March	188	49	17	45	77
April	177	26	35	43	73
May	171	28	23	44	76
June	179	26	32	34	87
July	198	28	24	48	98
August	198	40	21	52	85
September	234	51	28	53	102
October	208	51	25	45	87
November	227	55	25	47	100
December	255	61	25	55	114
Total	2400	492	296	529	1083

Table C4: Deaths by cause, age and sex, 1981

Cause	Male															
	Age at death (years)															
	All ages	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65+
All causes	1165	391	202	31	20	9	14	11	12	17	12	32	32	59	50	273
Small pox	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Measles	35	8	26	-	-	-	-	-	-	-	-	-	-	-	-	1
Tetanus*	186	174	8	2	-	-	-	1	-	-	-	1	-	-	-	-
Drowning	42	2	28	6	2	1	1	-	-	-	-	-	1	-	-	1
Murder	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Suicide	6	-	-	-	-	1	1	1	-	-	-	-	-	1	2	-
Diarrhoea acute	20	6	7	1	1	1	-	-	-	-	-	-	-	-	-	4
Diarrhoea chronic	11	-	9	1	-	-	-	-	-	-	-	-	-	-	-	1
Dysentery acute	25	4	9	1	-	-	-	1	-	-	-	1	1	-	-	8
Dysentery chronic	54	3	14	2	-	-	-	-	-	-	-	2	1	4	6	22
Childbirth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jaundice	14	1	2	-	2	1	1	-	1	-	1	-	-	1	1	3
Other	273	117	25	5	5	2	6	3	2	7	4	9	7	20	8	53
Disease of G.I.**	42	-	1	2	2	2	2	1	1	-	-	4	5	5	4	13
Respiratory***	162	49	20	1	1	-	-	2	2	7	1	5	8	7	13	46
Heart disease	15	-	-	1	-	-	-	-	1	-	1	1	1	3	2	5
Liver disease	23	4	1	-	2	-	-	-	1	-	1	3	1	3	1	6
Veneral disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Skin disease	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
E.N.T. disease	8	-	4	-	-	-	-	-	-	-	-	-	-	1	1	2
Cholera (proved)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dropsy	82	3	22	2	2	-	-	-	4	2	2	4	3	5	2	31
Rheumatism	59	9	2	-	-	-	2	1	-	-	1	2	3	5	6	28
Accident	4	-	1	-	2	1	-	-	-	-	-	-	-	-	-	-
Old age	34	-	-	-	-	-	-	-	-	-	-	-	-	-	1	33
Fever (all forms)	66	9	22	7	-	-	1	1	-	1	1	-	1	4	3	16
Unknown	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Takuria, evil spirit.

** Other than cholera.

*** Cold, fever, cough, T.B. and asthma, etc.

Table C4 (Contd.): Deaths by cause, age and sex, 1981

Causes	Female														
	Age at death (years)														
	All ages	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64 65+
All causes	1235	397	327	50	13	22	20	18	13	12	17	17	27	37	41 224
Small pox	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Measles	56	6	39	11	-	-	-	-	-	-	-	-	-	-	-
Tetanus*	183	166	12	-	-	-	1	1	-	3	-	-	-	-	-
Drowning	30	1	25	2	-	1	-	1	-	-	-	-	-	-	-
Murder	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Suicide	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Diarrhoea acute	24	11	5	2	-	1	-	-	-	1	-	-	-	-	3
Diarrhoea chronic	22	2	15	2	-	-	-	-	-	-	-	-	-	-	3
Dysentery acute	35	4	25	2	-	-	-	-	-	-	1	-	-	-	3
Dysentery chronic	70	1	38	3	2	-	-	-	-	2	-	-	1	4	15
Childbirth	16	-	-	-	-	4	2	5	5	-	-	-	-	-	-
Jaundice	17	1	4	1	-	3	2	2	-	-	-	-	1	2	1
Other	294	126	56	4	4	8	4	6	2	-	3	7	7	10	46
Disease of G.I.**	25	-	1	1	-	1	-	-	-	2	3	-	1	3	7
Respiratory***	141	54	34	7	3	1	2	1	1	2	3	1	5	6	20
Heart disease	6	1	1	-	-	-	-	-	-	-	-	-	-	2	2
Liver disease	19	1	5	-	-	-	2	-	1	1	2	1	3	-	3
Veneral disease	2	-	-	-	-	-	-	-	1	-	1	-	-	-	-
Skin disease	8	3	3	-	-	-	-	-	-	-	-	-	-	-	2
E.N.T. disease	8	1	2	4	-	-	1	-	-	-	-	-	-	-	-
Cholera (proved)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dropsy	109	2	32	1	1	1	2	-	3	1	1	8	3	1	44
Rheumatism	43	5	3	2	-	-	1	1	-	-	2	-	4	2	19
Accident	4	-	1	1	-	-	-	-	-	-	-	-	-	2	-
Old age	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fever (all forms)	76	10	26	7	2	2	3	1	-	-	1	-	2	5	3 41
Unknown	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1

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* Takuria, evil spirit.

** Other than cholera.

*** Cold, fever, cough, T.B. and asthma, etc.

Table C5: Outcome of pregnancies by month, 1981

Month	All	Pregnancy terminations			Number of live born children		
		Miscarriage	Stillbirth	Live births*	Both sexes	Males	Females
All months	8192	748	276	7168	7222	3730	3492
January	697	47	17	633	637	328	309
February	551	44	28	479	482	248	234
March	588	60	15	513	515	284	231
April	486	66	19	401	404	209	195
May	664	82	14	568	570	308	262
June	571	86	19	466	466	227	239
July	631	76	19	536	539	267	272
August	590	75	27	488	496	232	264
September	701	70	28	603	611	327	284
October	868	53	26	789	801	403	398
November	946	46	34	866	873	451	422
December	899	43	30	826	828	446	382

* For any multiple confinement, the termination of pregnancy is recorded as live birth if at least one of the issues is live born.

Table C6: Multiple confinement by sex and result, 1981

Sequence of sex	1st child		2nd child	
	Stillbirth	Live birth	Stillbirth	Live birth
MM	-	19	3	16
MF	2	14	3	13
FM	1	8	3	6
FF	1	22	4	19
Total	4	63	13	54

Table C7: Pregnancies by litter size and outcome, 1981

Outcome	Litter size 1 (single birth)	Litter size 2 (twin birth)			Total
		Both alive	One alive	Both dead	
Live birth	7105	54	9	-	7168
Stillbirth	272	-	-	4	276
Miscarriage	742	-	-	6	748
Total	8119	54	9	10	8192

Table C8: Numbers of mothers who had live births in 1981 by age and number of surviving children*

Age of mother (years)	Total	Number of surviving children											Mean No. of surviving children
		0	1	2	3	4	5	6	7	8	9	10+	
All ages	7168	1868	1500	1123	972	722	470	292	139	49	25	8	2.1
15	10	10	-	-	-	-	-	-	-	-	-	-	.0
15 - 19	1296	1076	206	13	1	-	-	-	-	-	-	-	.2
20 - 24	2338	701	996	509	121	9	1	1	-	-	-	-	1.0
25 - 29	1585	68	249	453	500	247	59	8	-	1	-	-	2.5
30 - 34	934	8	40	97	249	274	178	70	14	3	1	-	3.8
35 - 39	793	4	8	42	88	168	197	161	85	25	11	4	4.9
40 - 44	170	-	1	5	11	19	29	46	33	14	9	3	5.9
45 +	42	1	-	4	2	5	6	6	7	6	4	1	5.8

* Present birth excluded.

Table C9: Number of mothers who had live births in 1981 by age and number of previous pregnancies*

Age of mother (years)	Total	Number of previous pregnancies											Mean No. of pregnancies
		0	1	2	3	4	5	6	7	8	9	10+	
All ages	7168	1448	1247	1012	862	707	588	438	335	239	142	150	3.0
15	10	9	1	-	-	-	-	-	-	-	-	-	.1
15 - 19	1296	933	311	40	11	1	-	-	-	-	-	-	.3
20 - 24	2338	464	801	658	297	87	26	3	-	1	-	1	1.4
25 - 29	1585	38	119	265	441	376	237	76	25	3	3	2	3.8
30 - 34	934	2	14	35	88	191	212	177	123	62	14	16	5.2
35 - 39	793	1	1	13	21	47	100	161	150	129	89	81	6.9
40 - 44	170	-	-	-	4	4	9	19	32	36	30	36	7.8
45 +	42	1	-	1	-	1	4	2	5	8	6	14	7.9

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* Present birth excluded.

Table C10: Number of women who had stillbirth by age and number of previous pregnancies*, 1981

Age (years)	Total	Number of previous pregnancies										
		0	1	2	3	4	5	6	7	8	9	10+
All ages	276	75	32	32	30	27	22	18	11	11	8	10
15	-	-	-	-	-	-	-	-	-	-	-	-
15 - 19	61	50	8	3	-	-	-	-	-	-	-	-
20 - 24	74	22	17	16	11	6	2	-	-	-	-	-
25 - 29	55	2	5	13	10	12	9	3	-	1	-	-
30 - 34	45	1	1	-	8	7	8	9	6	2	2	1
35 - 39	31	-	1	-	1	2	3	4	4	7	4	5
40 - 44	9	-	-	-	-	-	-	2	1	1	2	3
45 +	1	-	-	-	-	-	-	-	-	-	-	1

* Present birth excluded.

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Table C11: Number of women who had miscarriages by age and number of previous pregnancies*, 1981

Age (years)	Total	Number of previous pregnancies										
		0	1	2	3	4	5	6	7	8	9	10+
All ages	748	152	96	71	82	80	56	54	48	33	28	48
15	3	2	1	-	-	-	-	-	-	-	-	-
15 - 19	141	106	31	2	2	-	-	-	-	-	-	-
20 - 24	197	41	58	46	35	10	5	1	1	-	-	-
25 - 29	139	2	4	23	36	37	23	8	4	1	1	-
30 - 34	97	1	2	-	6	19	22	16	15	8	4	4
35 - 39	105	-	-	-	2	10	6	17	19	18	10	23
40 - 44	49	-	-	-	1	3	-	8	7	4	10	16
45 +	17	-	-	-	-	1	-	4	2	2	3	5

* Present birth excluded.

Table C12: In-and out-migration by age and sex, 1981

Age (years)	In-migration			Out-migration		
	Both sexes	Male	Female	Both sexes	Male	Female
All ages	5000	2179	2821	6410	3004	3406
Under 5	707	372	335	842	456	386
0	131	61	70	222	121	101
1	135	80	55	157	96	61
2	170	93	77	175	96	79
3	139	74	65	132	60	72
4	132	64	68	156	83	73
5 - 9	468	269	199	511	269	242
10 - 14	445	201	244	579	301	278
15 - 19	1325	211	1114	1725	503	1222
20 - 24	704	254	450	1260	563	697
25 - 29	463	282	181	573	320	253
30 - 34	258	167	91	239	162	77
35 - 39	205	145	60	218	159	59
40 - 44	114	83	31	123	80	43
45 - 49	81	62	19	99	69	30
50 - 54	58	38	20	69	40	29
55 - 59	51	31	20	56	24	32
60 - 64	45	29	16	30	15	15
65 +	76	35	41	86	43	43

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Table C13: In-and out-migration by sex and month, 1981

Month	In-migration			Out-migration		
	Both sexes	Male	Female	Both sexes	Male	Female
January	760	349	411	880	455	425
February	518	239	279	672	301	371
March	591	248	343	764	371	393
April	378	184	194	468	235	233
May	373	156	217	463	205	258
June	399	166	233	578	258	320
July	303	127	176	489	228	261
August	443	191	252	592	274	318
September	239	88	151	348	165	183
October	424	184	240	424	204	220
November	270	124	146	373	168	205
December	302	123	179	359	140	219
All months	5000	2179	2821	6410	3004	3406

Table C14: In-migration by cause of movement, sex and age, 1981

Cause of movement	Male														
	Age (years)														
	All ages	Under 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65+
All migrants	2179	372	269	201	211	254	282	167	145	83	62	38	31	29	35
1. Dependent movement															
- dependent	810	359	245	129	46	5	5	5	3	2	-	2	2	2	5
- to join with spouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- to join parents	3	-	1	-	-	-	1	-	-	-	1	-	-	-	-
- to join relatives	6	-	-	-	-	1	2	-	-	-	1	1	-	1	-
- adoption	5	3	-	-	-	1	1	-	-	-	-	-	-	-	-
2. Independent movement															
2.1 Associated with work															
living condition															
- service	63	-	-	1	2	6	15	11	13	5	2	1	3	-	4
- work	21	-	-	5	6	5	2	1	2	-	-	-	-	-	-
- business	15	-	-	-	4	2	1	3	1	2	1	1	-	-	-
- better living	633	-	-	31	61	98	135	81	76	49	36	16	13	17	20
- for livelihood	6	-	-	-	-	-	2	1	1	1	-	-	-	-	-
- study	118	-	5	26	51	26	6	-	4	-	-	-	-	-	-
2.2 Associated with marriage															
- Marriage	12	-	-	-	1	2	6	2	-	-	-	1	-	-	-
- divorce	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- widow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- separation	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
2.3 Return migration															
- after study	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
- after service	132	-	-	-	13	44	21	17	10	8	3	5	4	4	3
- after work	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-
- return home	74	-	-	4	7	16	14	11	9	2	4	1	2	2	2
- regular member of family	206	-	-	2	13	40	61	27	22	12	11	10	5	2	1
2.4 Others	31	10	18	-	-	-	1	2	-	-	-	-	-	-	-
3. Change in residence	35	-	-	3	3	6	8	4	3	2	3	-	2	1	-
4. For treatment	2	-	-	-	-	-	-	1	1	-	-	-	-	-	-
5. Not stated	3	-	-	-	2	1	-	-	-	-	-	-	-	-	-

Table C14 (contd.): In-migration by cause of movement, sex and age, 1981

Cause of movement	Female														
	Age (years)														
	All ages	Under 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65+
All migrants	2821	335	199	244	1114	450	181	91	60	31	19	20	20	16	41
1. Dependent movement															
- dependent	1053	320	180	121	89	128	83	49	27	15	7	8	11	6	9
- to join with spouse	28	-	-	-	18	5	2	1	-	-	-	1	-	-	1
- to join parents	12	1	-	4	5	2	-	-	-	-	-	-	-	-	-
- to join relatives	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- adoption	7	6	1	-	-	-	-	-	-	-	-	-	-	-	-
2. Independent movement															
2.1 Associated with work living condition															
- service	4	-	-	-	2	1	-	-	-	-	-	1	-	-	-
- work	18	-	-	12	5	-	-	-	-	-	1	-	-	-	-
- business	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- better living	499	-	-	42	129	141	58	26	30	14	9	8	7	10	25
- for livelihood	4	-	-	2	-	1	1	-	-	-	-	-	-	-	-
- study	31	-	3	17	9	2	-	-	-	-	-	-	-	-	-
2.2 Associated with marriage															
- marriage	836	-	-	25	721	69	14	6	1	-	-	-	-	-	-
- divorce	92	-	-	3	43	35	8	2	1	-	-	-	-	-	-
- widow	4	-	-	-	-	3	1	-	-	-	-	-	-	-	-
- separation	104	-	-	6	50	40	7	1	-	-	-	-	-	-	-
2.3 Return migration															
- after study	5	-	-	1	3	1	-	-	-	-	-	-	-	-	-
- after service	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- after work	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- return home	30	1	1	4	8	5	3	3	-	1	1	1	-	-	2
- regular member of family	16	1	-	5	4	3	-	1	-	-	1	-	1	-	-
2.4 Others	23	6	13	-	1	2	-	-	-	-	-	-	-	-	1
3. Change in residence	55	-	1	2	27	12	4	2	1	1	-	1	1	-	3
4. For treatment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5. Not stated	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table C15: Out-migration by cause of movement, sex and age, 1981

Cause of movement	Male														
	Age (years)														
	All ages	Under 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65+
All migrants	3004	456	269	301	503	563	320	162	159	80	69	40	24	15	43
1. Dependent movement															
- dependent	964	446	246	137	83	23	11	2	5	3	2	-	-	-	6
- to join with spouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- to join parents	9	1	2	3	1	1	-	-	1	-	-	-	-	-	-
- to join relatives	5	-	1	2	-	-	1	-	-	1	-	-	-	-	-
- adoption	6	5	-	-	1	-	-	-	-	-	-	-	-	-	-
2. Independent movement															
2.1 Associated with work living condition															
- service	844	-	-	21	191	308	136	68	50	20	20	14	6	6	4
- work	78	-	-	22	32	12	8	-	1	-	2	-	-	-	1
- business	76	-	-	8	12	22	17	4	3	2	3	2	1	-	2
- better living	666	-	-	42	80	106	116	78	82	52	37	23	14	8	28
- for livelihood	10	-	-	2	1	2	3	-	1	-	1	-	-	-	-
- study	249	-	6	58	85	76	19	2	1	2	-	-	-	-	-
2.2 Associated with marriage															
- marriage	4	-	-	-	1	2	-	-	1	-	-	-	-	-	-
- divorce	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
- widow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- separation	6	-	-	2	1	1	-	1	-	-	1	-	-	-	-
2.3 Return migration															
- after study	8	-	-	-	4	1	-	-	2	-	-	1	-	-	-
- after service	11	-	-	-	4	2	2	-	3	-	-	-	-	-	-
- after work	3	-	-	1	-	-	-	-	1	-	-	-	-	-	1
- return home	15	-	-	2	4	3	2	2	-	-	1	-	1	-	-
regular member of family	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-
2.4 Others	20	4	12	-	1	1	1	-	-	-	-	-	1	-	-
3. Change in residence	20	-	2	-	1	1	2	5	4	-	2	-	1	1	1
4. For treatment	2	-	-	-	-	-	1	-	1	-	-	-	-	-	-
5. Not stated	5	-	-	1	-	2	1	-	1	-	-	-	-	-	-

Table C15 (contd.): Out-migration by cause of movement, sex and age, 1981

Cause of movement	Female														
	Age (years)														
	All ages	Under 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65+
All migrants	3406	386	242	278	1222	697	253	77	59	43	30	29	32	15	43
1. Dependent movement															
- dependent	1256	366	222	130	147	144	104	43	34	21	12	12	11	4	6
- to join with spouse	136	-	-	1	52	59	19	2	2	-	-	-	-	-	1
- to join parents	31	6	2	5	14	4	-	-	-	-	-	-	-	-	-
- to join relatives	9	-	-	-	2	4	-	-	-	1	-	-	-	-	2
- adoption	10	6	3	-	-	1	-	-	-	-	-	-	-	-	-
2. Independent movement															
2.1 Associated with work living condition															
- Service	21	-	-	1	4	9	5	1	-	-	-	1	-	-	-
- work	53	-	-	20	16	8	6	1	1	-	-	-	-	1	-
- business	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
- better living	572	-	-	48	140	158	77	25	17	18	16	13	20	10	30
- for livelihood	14	-	-	1	2	2	2	-	2	1	-	2	-	-	2
- study	67	-	4	21	34	8	-	-	-	-	-	-	-	-	-
2.2 Associated with marriage															
- marriage	1040	-	-	45	707	254	30	3	1	-	-	-	-	-	-
- divorce	57	-	-	-	32	19	5	-	-	1	-	-	-	-	-
- widow	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
- separation	83	-	-	1	61	17	2	1	1	-	-	-	-	-	-
2.3 Return migration															
- after study	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
- after service	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- after work	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- return home	7	-	-	2	3	1	1	-	-	-	-	-	-	-	-
- regular member of family	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
2.4 Others	26	8	11	-	1	-	-	1	-	1	1	1	1	-	1
3. Change in residence	19	-	-	1	6	7	2	-	1	-	1	-	-	-	1
4. For treatment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5. Not stated	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-

Table C16: Number of divorces in 1981 by duration of marriage at divorce and husband's age

Husband's age at time of divorce	All duration	Duration of marriages (months)							Mean	Median
		Less than 6	6-11	12-23	24-35	36-47	48-59	60+		
All ages	513	84	106	131	81	31	22	58	25.2	18.1
10 - 24	170	31	43	59	19	8	6	4	17.2	14.2
25 - 29	180	24	34	42	40	17	8	15	24.6	21.9
30 - 34	73	10	10	18	12	4	4	15	32.9	2.3
35 - 39	42	9	8	9	3	1	4	8	31.2	17.3
40 - 44	19	4	5	1	2	-	-	7	41.7	18.0
45 +	29	6	6	2	5	1	-	9	37.1	25.2

Table C17: Marriages and divorces by month, 1981

Month	Marriages	Divorces
All months	3240	513
January	280	66
February	394	47
March	456	53
April	158	47
May	251	34
June	300	40
July	207	31
August	310	54
September	175	30
October	288	39
November	159	40
December	262	32

Appendix C-

Table C18: Divorces by age and sex, 1981

Age	Males	Females
All ages	513	513
Under 15	3	23
15 - 19	19	276
20 - 24	148	165
25 - 29	180	35
30 - 34	73	8
35 - 39	42	1
40 - 44	19	2
45 - 49	13	3
50 - 54	9	-
55 - 59	1	-
60 - 64	1	-
65 +	5	-

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N.B. Besides these 110 Female Workers contributed in collecting the Demographic information.