

25

DEMOGRAPHIC SURVEILLANCE SYSTEM — MATLAB

VOLUME SIXTEEN

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DEMOGRAPHIC EVENTS -
1985**

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DEMOGRAPHIC SURVEILLANCE SYSTEM-MATLAB

Volume Sixteen

Registration of Demographic Events - 1985



International Centre for
Diarrhoeal Disease Research, Bangladesh
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PREFACE

The International Centre for Diarrhoeal Disease Research, Bangladesh (ICDDR,B) is an autonomous, international, philanthropic, non-profit centre for research, education, training, and clinical service. The Centre is derived from the Cholera Research Laboratory (CRL). Its aims and objectives are to undertake and promote study, research, and dissemination of knowledge in diarrhoeal diseases and the directly related subjects of nutrition and fertility, with a view to developing improved health care methods and to prevent and control diarrhoeal diseases and improve public health programmes, especially in developing countries.

The ICDDR,B issues an annual report, working papers, scientific reports, special publications, monographs, theses, dissertations, and a bi-monthly newsletter which demonstrates the type of research activities currently in progress. The views expressed in these publications are those of the authors, and do not necessarily represent the views of the ICDDR,B.

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SUMMARY

This report presents the vital registration data for events taking place in 1985 in Matlab, Bangladesh. These data were collected by the Demographic Surveillance System of the International Centre for Diarrhoeal Disease Research, Bangladesh. The registration area is divided into a Maternal and Child Health and Family Planning (MCH-FP) intervention area and a Comparison area receiving government services. In both areas the death rate fell substantially in 1985; in the MCH-FP area the crude death rate was 10.2 while in the Comparison area it was 14.2. The decrease in mortality was due to a fall in the number of deaths at virtually all ages over 1 month.

The birth rate rose in both areas. Comparing 1983, 1984, and 1985 the crude birth rate first fell from 42.6 to 37.3 and then recovered to 42.6 in the Comparison area and from 34.2 to 30.7 to 34.6 in the MCH-FP area. Nuptiality patterns changed slightly during 1985, with the median age at first marriage rising for men, to 25.5 years (from 25.0 in 1984), and rising to 18.4 years (from 18.0 in 1984) for women. In- and out-migration remained fairly constant in 1985, with a net emigration rate of 18.2. This high out-migration partially offset the effects of rising fertility and falling mortality: the growth rate of the population under surveillance was only 0.8% in 1985.

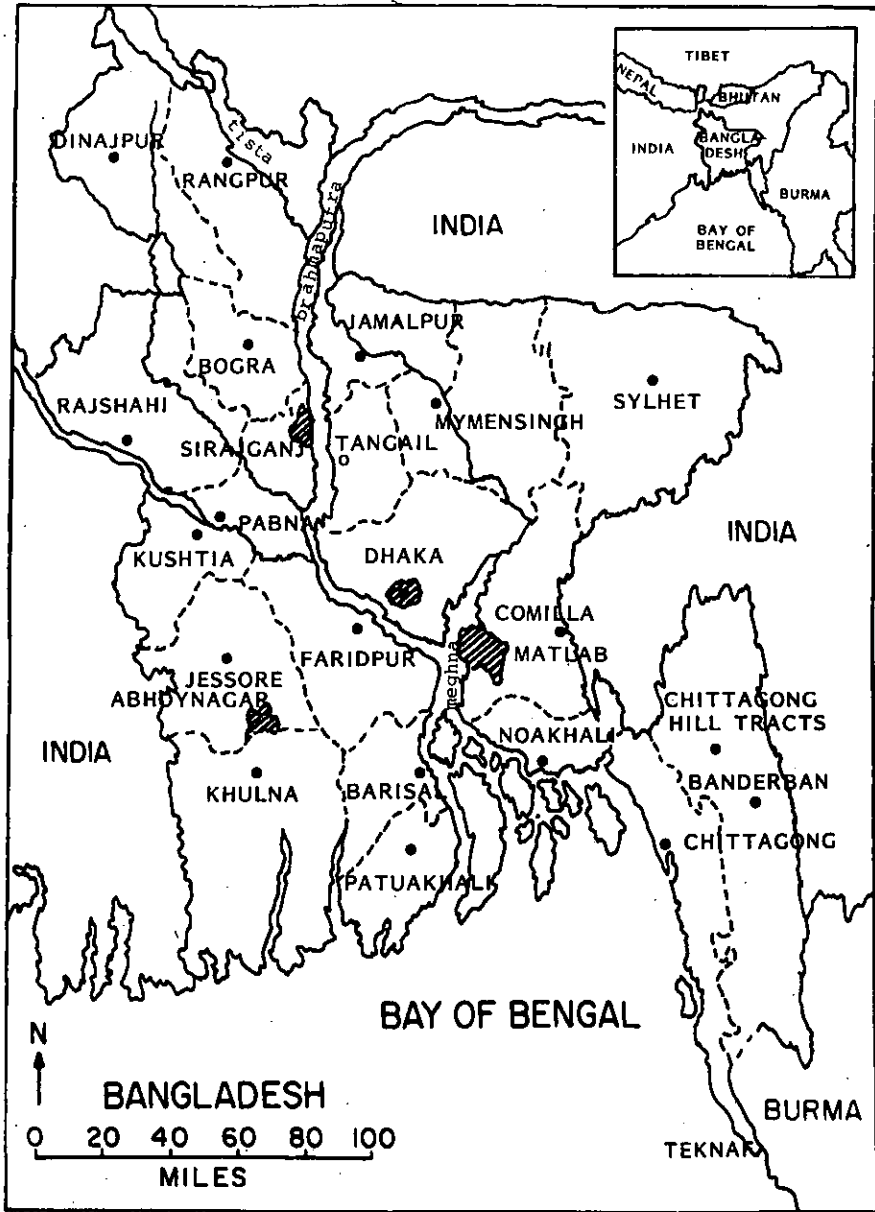
CHAPTER 1

INTRODUCTION

Since 1963 the International Centre for Diarrhoeal Disease Research, Bangladesh (ICDDR,B), formerly the Cholera Research Laboratory, has been conducting a health related research programme near the town of Matlab, in rural Bangladesh. Matlab is located about 55 kilometers southeast of the country's capital, Dhaka (Figure 1.1). The Demographic Surveillance System (DSS) is one of the components of this field programme. Since 1966 the DSS has maintained the registration of births, deaths, and migrations, in addition to carrying out occasional censuses. In 1975 the system was augmented to include marriages and divorces. Such information is gathered by Health Assistants who visit each household in their assigned areas regularly and fill out the event registration forms. A detailed description of the DSS and its operation appears in CRL Scientific Report No. 9 (March 1978). In October 1977 the surveillance area was reduced from 233 to 149 villages and a Maternal Child Health and Family Planning (MCH-FP) Programme was begun in 70 villages. The remaining 79 villages were treated as a comparison area (Figure 1.2). These changes are described in detail in the ICDDR,B Scientific Report No. 47 (May 1981).

This is the sixteenth volume of a series of scientific reports of the Demographic Surveillance System produced by the ICDDR,B. Presented here are results obtained from the Matlab DSS in 1985, along with brief notes and explanations of the tables.

Figure 1.1: Map of Bangladesh showing the Study Area




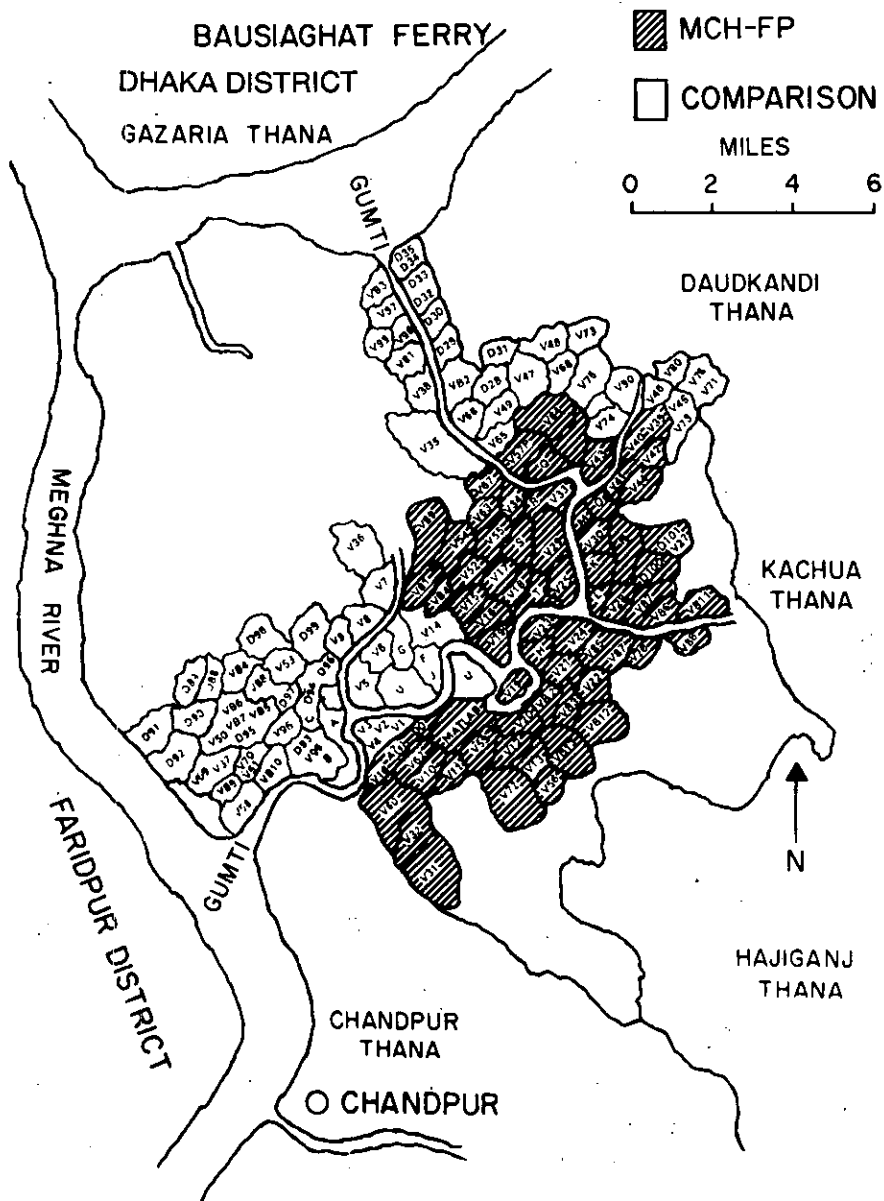
Key:  Study areas

Figure 1.2: Matlab Area showing Villages of Demographic Surveillance System, 1985



CHAPTER 2

POPULATION CHANGES

The mid-year population, as well as the demographic events registered in 1985 in the Maternal Child Health and Family Planning (MCH-FP) and the Comparison areas, are shown in Tables 2.1 through 2.5.

The crude birth rate in 1985 increased to 34.6 in the MCH-FP and 42.6 in the Comparison areas from the 1984 levels of 30.7 in the MCH-FP and 37.3 in the Comparison areas. (In 1983 the crude birth rate had been 34.2 and 42.6 in the MCH-FP and the Comparison areas respectively.) The crude death rates decreased to 10.2 and 14.2 in 1985 compared to 13.4 and 17.3 in 1984 in the MCH-FP and the Comparison areas respectively. (In 1983 the crude death rates had been 11.9 and 16.7 in the MCH-FP and the Comparison areas respectively.) These rates show that mortality in Matlab resumed its downward trend while fertility rose following the dramatic decline in 1984. (Infant mortality rates for 1985 are also lower due to this reduction in births in 1984. The number of neo-natal deaths actually rose in 1985, but the neo-natal mortality rate fell since births increased even more than deaths.)

The numbers of in- and out-migrants registered in 1985 were 4,595 and 8,093 respectively, giving an in-migration rate of 23.9, an out-migration rate of 42.1, and a net migration rate of 18.2 per thousand population leaving the area. The net migration rate in 1985 was virtually the same as the rate in 1984 (18.5).

The net population increase was 0.2 per thousand in 1984. It rose to 8.1 per thousand in 1985. This increase in population growth in 1985 was due to a 20 percent decrease in the death rate and a 13 percent increase in the birth rate; net out-migration remained high.

There were 3,046 marriages registered in 1985, yielding a crude marriage rate of 15.8 per 1,000 population, which was higher than that of 1984. In 1985 there were 424 divorces, giving a ratio of 139 divorces per 1,000 marriages, which was lower than the 1984 rate of 163.

The population pyramid, presented in Figure 2.1, indicates that the age distribution was almost identical to those seen during the past several years. The proportion under one year of age increased somewhat, reflecting the increase in the birth rate. Similarly, the proportion aged 1 decreased slightly, showing the effect of the decline in births in 1984.

Table 2.1: Vital Statistics of the Matlab MCH-FP and Comparison Areas, 1978-1985

Vital rates (per 1000)	1978	1979	1980	1981	1982	1983	1984	1985
All deaths								
MCH-FP area	12.5	12.1	11.3	11.9	12.5	11.9	13.4	10.2
Comparison area	13.8	15.6	14.9	14.4	15.9	16.7	17.3	14.2
Both areas	13.2	13.8	13.1	13.1	14.2	14.3	15.3	12.2
Neonatal deaths*								
MCH-FP area	69.0	70.9	59.3	66.4	58.1	56.4	57.9	52.5
Comparison area	78.7	74.6	72.7	69.5	68.1	70.3	71.4	69.4
Both areas	74.1	73.0	66.6	68.1	63.5	64.0	65.3	61.7
Post-neonatal deaths*								
MCH-FP area	45.5	43.5	32.6	36.1	47.5	41.8	56.9	33.8
Comparison area	47.1	43.3	41.3	45.0	50.2	42.2	55.7	49.1
Both areas	46.3	43.4	37.3	41.0	49.0	42.0	56.2	42.1
Child deaths (1-4 yrs)								
MCH-FP area	22.5	17.1	18.6	19.1	18.8	21.9	23.1	16.4
Comparison area	22.1	26.2	25.4	24.8	27.4	35.3	39.2	24.6
Both areas	22.3	21.6	22.1	22.0	23.3	29.1	31.6	20.7
Births								
MCH-FP area	32.1	34.9	37.1	35.3	36.9	34.2	30.7	34.6
Comparison area	37.7	47.0	45.5	43.8	44.7	42.6	37.3	42.6
Both areas	34.8	40.9	41.2	39.5	40.7	38.3	34.0	38.5
Total fertility rate**								
MCH-FP area	4.5	4.9	5.1	4.8	5.0	4.5	4.0	4.5
Comparison area	5.5	6.9	6.7	6.3	6.3	6.1	5.1	6.0
Both areas	5.0	5.9	5.9	5.5	5.6	5.3	4.5	5.2
In-migration	28.7	33.1	29.7	27.3	24.5	24.6	24.2	23.9
Out-migration	40.2	40.8	36.6	35.0	26.5	35.8	42.7	42.1
Growth (%)	1.0	1.9	2.1	1.9	2.5	1.3	0.0	0.8
Natural increase								
MCH-FP area	19.6	22.9	25.8	23.4	24.3	22.3	17.3	24.4
Comparison area	23.9	31.4	30.6	29.4	28.8	25.8	20.0	28.4
Both areas	21.7	27.1	28.2	26.4	26.5	24.1	18.6	26.3

*Per 1000 live births

**Per woman

Table 2.2: Mid-year Population, Events Registered, and Population Change in 1985

	Number			Rate per 1000 population		
	Total	Males	Females	Total	Males	Females
<u>Total population</u> (30th June 1985)						
MCH-FP area	97471	49274	48197	-	-	-
Comparison area	94804	48226	46578	-	-	-
Both	192275	97500	94775	-	-	-
<u>Events registered</u> (January - December 1985)						
Births						
MCH-FP area	3369	1687	1682	34.6	-	-
Comparison area	4036	2081	1955	42.6	-	-
Both	7405	3768	3637	38.5	-	-
Deaths						
-Infant*						
MCH-FP area	291	145	146	86.4	86.0	86.8
Comparison area	478	258	220	118.4	124.0	112.5
Both	769	403	366	103.8	107.0	100.6
-All deaths						
MCH-FP area	997	519	478	10.2	10.5	9.9
Comparison area	1346	649	697	14.2	13.5	15.0
Both	2343	1168	1175	12.2	12.0	12.4
In-migration	4595	1887	2708	23.9	19.3	28.6
Out-migration	8093	3739	4354	42.1	38.3	45.9
Marriages	3046	-	-	15.8	-	-
Divorces**	424	-	-	139.2	-	-
<u>Population change</u> (January - December 1985)						
Net migration	-3498	-1852	-1646	-18.2	-19.0	-17.3
Natural increase						
MCH-FP area	2372	1168	1204	24.3	23.7	25.0
Comparison area	2690	1432	1258	28.4	29.7	27.0
Both	5062	2600	2462	26.3	26.7	26.0
Net increase	1564	748	816	8.1	7.7	8.6

*Rate per 1000 live births

**Ratio per 1000 marriages

Table 2.3: Mid-year Population by Age and Sex, 1985

Age (years)	Number			Percent		
	Both sexes	Males	Females	Both sexes	Males	Females
All ages	192275	97500	94775	100.0	100.0	100.0
0	6088	3054	3034	3.2	3.1	3.2
1 - 4	23268	12192	11076	12.1	12.5	11.7
1	5957	3064	2893	3.1	3.1	3.1
2	6017	3166	2851	3.1	3.2	3.0
3	5693	2936	2757	3.0	3.0	2.9
4	5601	3026	2575	2.9	3.1	2.7
5 - 9	26240	13797	12443	13.6	14.2	13.1
10-14	24705	12933	11772	12.8	13.3	12.4
15-19	22183	11157	11026	11.5	11.4	11.6
20-24	19714	9791	9923	10.3	10.0	10.5
25-29	13630	6945	6685	7.1	7.1	7.1
30-34	9567	4676	4891	5.0	4.8	5.2
35-39	8139	3681	4458	4.2	3.8	4.7
40-44	8457	3674	4783	4.4	3.8	5.0
45-49	7554	3674	3880	3.9	3.8	4.1
50-54	6904	3460	3444	3.6	3.5	3.6
55-59	5129	2713	2416	2.7	2.8	2.5
60-64	4163	2190	1973	2.2	2.2	2.1
65-69	2715	1437	1278	1.4	1.5	1.3
70-74	1933	1033	900	1.0	1.1	0.9
75-79	1078	604	474	0.6	0.6	0.5
80-84	525	305	220	0.3	0.3	0.2
85+	283	184	99	0.1	0.2	0.1

Table 2.4: Mid-year Population by Area, Age, and Sex, 1985

Age (years)	MCH-FP area			Comparison area		
	Both sexes	Males	Females	Both sexes	Males	Females
All ages	97471	49274	48197	94804	48226	46578
Under 1	2768	1378	1390	3320	1676	1644
1 - 4	11046	5731	5315	12222	6461	5761
1	2787	1402	1385	3170	1662	1508
2	2859	1511	1348	3158	1655	1503
3	2695	1378	1317	2998	1558	1440
4	2705	1440	1265	2896	1586	1310
5 - 9	13036	6847	6189	13204	6950	6254
10-14	12882	6686	6196	11823	6247	5576
15-19	11476	5781	5695	10707	5376	5331
20-24	10226	4960	5266	9488	4831	4657
25-29	6920	3554	3366	6710	3391	3319
30-34	5011	2457	2554	4556	2219	2337
35-39	4182	1875	2307	3957	1806	2151
40-44	4398	1898	2500	4059	1776	2283
45-49	3841	1869	1972	3713	1805	1908
50-54	3472	1778	1694	3432	1682	1750
55-59	2683	1431	1252	2446	1282	1164
60-64	2086	1132	954	2077	1058	1019
65-69	1394	745	649	1321	692	629
70-74	1008	542	466	925	491	434
75-79	574	327	247	504	277	227
80-84	287	169	118	238	136	102
85+	181	114	67	102	70	32

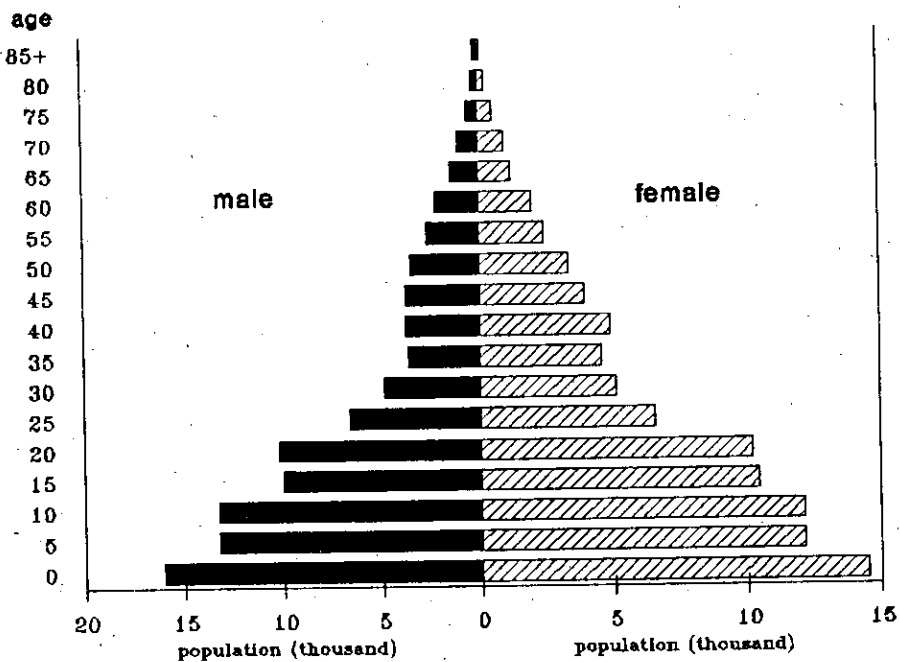
Table 2.5: Mid-year Population in MCH-FP Area by Age, Sex, and Block, 1985

Age (years)	Block A			Block B		
	Both sexes	Males	Females	Both sexes	Males	Females
All ages	25632	12997	12635	24828	12402	12426
Under 1	750	374	376	719	361	358
1 - 4	2945	1532	1413	2984	1552	1432
1	716	355	361	790	403	387
2	765	414	351	765	405	360
3	746	388	358	723	362	361
4	718	375	343	706	382	324
5 - 9	3425	1772	1653	3341	1741	1600
10-14	3408	1796	1612	3324	1708	1616
15-19	3120	1590	1530	2861	1422	1439
20-24	2769	1318	1451	2507	1192	1315
25-29	1836	928	908	1663	837	826
30-34	1250	623	627	1251	582	669
35-39	1160	512	648	1084	463	621
40-44	1141	506	635	1055	437	618
45-49	944	506	438	978	457	521
50-54	852	451	401	874	440	434
55-59	647	348	299	723	373	350
60-64	476	268	208	547	299	248
65-69	360	170	190	357	217	140
70-74	255	137	118	254	139	115
75-79	166	88	78	155	90	65
80-84	74	45	29	90	48	42
85+	54	33	21	61	44	17

Table 2.5 (cont.): Mid-year Population in MCH-FP Area by Age, Sex, and Block, 1985

Age (years)	Block C			Block D		
	Both sexes	Males	Females	Both sexes	Males	Females
All ages	25950	13220	12730	21061	10655	10406
Under 1	746	392	354	553	251	302
1 - 4	2844	1497	1347	2273	1150	1123
1	721	366	355	560	278	282
2	724	377	347	605	315	290
3	685	362	323	541	266	275
4	714	392	322	567	291	276
5 - 9	3563	1857	1706	2707	1477	1230
10-14	3417	1746	1671	2733	1436	1297
15-19	3031	1531	1500	2464	1238	1226
20-24	2702	1333	1369	2248	1117	1131
25-29	1889	985	904	1532	804	728
30-34	1406	695	711	1104	557	547
35-39	1073	515	558	865	385	480
40-44	1226	534	692	976	421	555
45-49	1035	515	520	884	391	493
50-54	938	498	440	808	389	419
55-59	656	367	289	657	343	314
60-64	562	292	270	501	273	228
65-69	366	191	175	311	167	144
70-74	246	128	118	253	138	115
75-79	138	78	60	115	71	44
80-84	71	44	27	52	32	20
85+	41	22	19	25	15	10

Figure 2.1: Age Pyramid of the 1985 Mid-year Population



CHAPTER 3

MORTALITY

The age and sex specific deaths for 1985 are shown in Table 3.1. Of the 2,343 registered deaths, 53.4 percent occurred in children under age 5. This was slightly higher than in 1984 and almost same of 1983, when deaths under 5 comprised 52.5 percent and 53.5 percent of all deaths respectively. The 1985 infant mortality rate of 103.8 was lower than the 1982, 1983 and 1984 rates of 112.5, 106.1 and 121.5 respectively. In 1985 the male infant mortality rate was 107.0 and the female infant mortality rate was 100.6 (Table 3.4). A similar infant mortality pattern for males and females was found in 1982 and 1984. In 1983, however, the infant mortality rate for females was higher than that of males. In 1985, the overall death rates for males and females were 12.0 and 12.4 respectively. In most age groups death rates were higher in the Comparison area than in the MCH-FP area (Table 3.5).

Table 3.6 shows the basic life table parameters; the l_x values are plotted in Figure 3.1. The expectation of life at birth was 57.5 years for males and 55.6 years for females (Table 3.6). It was higher in the MCH-FP area (59.5) than in the Comparison area (53.9) (Table 3.8). The difference in the expectation of life between the two areas was more pronounced for females (7.6 years) than for males (3.9 years) (Tables 3.9 and 3.10). The expectation of life at birth increased in 1985 compared to 1984 for both sexes in both areas, but this change was greater in the MCH-FP area.

Table 3.11 shows the seasonal variation of deaths by age. The number of deaths peaked in January for the total population; this seasonal pattern was virtually the same as that recorded for the year 1984. Deaths by cause (based on lay reporting) are presented in Tables 3.12 through 3.13. Diarrhoea or dysentery were associated with 21 percent of all male deaths and 26 percent of all female deaths. In children of age 1-4 years, 36 percent of deaths among boys and 48 percent of deaths among girls were associated with diarrhoea or dysentery. These rates were lower than those observed in 1984 but almost same as that of 1983.

Table 3.1: Deaths by Age and Sex, 1985

Age	Both sexes	Males	Females
All ages	2343	1168	1175
Under 1 yr	769	403	366
Under 1 month	457	253	204
1-5 months	209	106	103
6-11 months	103	44	59
1 - 4 years	482	176	306
1	173	60	113
2	159	50	109
3	100	46	54
4	50	20	30
5 - 9	89	39	50
10-14	32	18	14
15-19	37	9	28
20-24	35	17	18
25-29	33	13	20
30-34	19	9	10
35-39	28	13	15
40-44	28	15	13
45-49	39	24	15
50-54	58	41	17
55-59	79	47	32
60-64	121	63	58
65-69	104	60	44
70-74	135	73	62
75-79	105	51	54
80-84	87	52	35
85+	63	45	18

Table 3.2: Deaths by Area, Age, and Sex, 1985

Age	MCH-FP area			Comparison area		
	Both sexes	Males	Females	Both sexes	Males	Females
All ages	997	519	478	1346	649	697
Under 1 year	291	145	146	478	258	220
Under 1 month	177	91	86	280	162	118
1-5 months	71	34	37	138	72	66
6-11 months	43	20	23	60	24	36
1 - 4 years	181	74	107	301	102	199
1	71	29	42	102	31	71
2	58	19	39	101	31	70
3	37	20	17	63	26	37
4	15	6	9	35	14	21
5 - 9	30	14	16	59	25	34
10-14	15	9	6	17	9	8
15-19	14	2	12	23	7	16
20-24	14	5	9	21	12	9
25-29	13	7	6	20	6	14
30-34	11	6	5	8	3	5
35-39	15	8	7	13	5	8
40-44	11	7	4	17	8	9
45-49	22	15	7	17	9	8
50-54	31	18	13	27	23	4
55-59	38	28	10	41	19	22
60-64	56	26	30	65	37	28
65-69	48	28	20	56	32	24
70-74	59	38	21	76	35	41
75-79	64	34	30	41	17	24
80-84	45	25	20	42	27	15
85+	39	30	9	24	15	9

Table 3.3: Deaths in MCH-FP Area by Age, Sex, and Block, 1985

Age	Block A			Block B		
	Both sexes	Males	Females	Both sexes	Males	Females
All ages	250	127	123	275	146	129
Under 1 year	71	32	39	85	48	37
Under 1 month	42	20	22	55	33	22
1- 5 months	22	9	13	19	12	7
6-11 months	7	3	4	11	3	8
1 - 4 years	47	20	27	63	25	38
1	23	9	14	22	10	12
2	14	4	10	22	6	16
3	8	5	3	13	8	5
4	2	2	0	6	1	5
5 - 9	4	2	2	12	5	7
10-14	5	3	2	6	4	2
15-19	4	0	4	2	0	2
20-24	3	2	1	2	1	1
25-29	4	1	3	2	1	1
30-34	3	1	2	4	2	2
35-39	3	1	2	3	1	2
40-44	4	3	1	3	1	2
45-49	7	6	1	4	2	2
50-54	11	6	5	7	5	2
55-59	6	4	2	10	7	3
60-64	13	7	6	15	7	8
65-69	16	10	6	10	7	3
70-74	7	4	3	12	8	4
75-79	21	12	9	11	7	4
80-84	8	3	5	14	8	6
85+	13	10	3	10	7	3

Table 3.3 (cont.): Deaths in MCH-FP Area by Age, Sex, and Block, 1985

Age	Block C			Block D		
	Both sexes	Males	Females	Both sexes	Males	Females
All ages	250	131	119	222	115	107
Under 1 year	69	34	35	66	31	35
Under 1 month	48	23	25	32	15	17
1-5 months	14	8	6	16	5	11
6-11 months	7	3	4	18	11	7
1 - 4 years	36	16	20	35	13	22
1	15	6	9	11	4	7
2	8	4	4	14	5	9
3	8	3	5	8	4	4
4	5	3	2	2	0	2
5 - 9	5	2	3	9	5	4
10-14	2	1	1	2	1	1
15-19	5	1	4	3	1	2
20-24	6	2	4	3	0	3
25-29	3	2	1	4	3	1
30-34	2	1	1	2	2	0
35-39	2	2	0	7	4	3
40-44	2	2	0	2	1	1
45-49	7	5	2	4	2	2
50-54	6	4	2	7	3	4
55-59	11	9	2	11	8	3
60-64	11	4	7	17	8	9
65-69	14	6	8	8	5	3
70-74	22	13	9	18	13	5
75-79	22	13	9	10	2	8
80-84	17	8	9	6	6	0
85+	8	6	2	8	7	1

Table 3.4: Death Rates by Age and Sex, 1985
(per 1000 population)

Age	Both sexes	Males	Females
All ages	12.2	12.0	12.4
Under 1 year*	103.8	107.0	100.6
Under 1 month*	61.7	67.1	56.1
1-5 months*	28.2	28.1	28.3
6-11 months*	13.9	11.7	16.2
1 - 4 years	20.7	14.4	27.6
1	29.0	19.6	39.1
2	26.4	15.8	38.2
3	17.6	15.7	19.6
4	8.9	6.6	11.7
5 - 9	3.4	2.8	4.0
10-14	1.3	1.4	1.2
15-19	1.7	0.8	2.5
20-24	1.8	1.7	1.8
25-29	2.4	1.9	3.0
30-34	2.0	1.9	2.0
35-39	3.4	3.5	3.4
40-44	3.3	4.1	2.7
45-49	5.2	6.5	3.9
50-54	8.4	11.8	4.9
55-59	15.4	17.3	13.2
60-64	29.1	28.8	29.4
65-69	38.3	41.8	34.4
70-74	69.8	70.7	68.9
75-79	97.4	84.4	113.9
80-84	165.7	170.5	159.1
85+	222.6	244.6	181.8

*Rate per 1000 live births

Table 3.5: Death Rates by Area, Age, and Sex, 1985
(per 1000 population)

Age	MCH-FP area			Comparison area		
	Both sexes	Males	Females	Both sexes	Males	Females
All ages	10.2	10.5	9.9	14.2	13.5	15.0
Under 1 year*	86.4	86.0	86.8	118.4	124.0	112.5
Under 1 month*	52.5	53.9	51.1	69.4	77.8	60.4
1-5 months*	21.1	20.2	22.0	34.2	34.6	33.8
6-11 months*	12.8	11.9	13.7	14.9	11.5	18.4
1 - 4 years	16.4	12.9	20.1	24.6	15.8	34.5
1	25.5	20.7	30.3	32.2	18.7	47.1
2	20.3	12.6	28.9	32.0	18.7	46.6
3	13.7	14.5	12.9	21.0	16.7	25.7
4	5.5	4.2	7.1	12.1	8.8	16.0
5 - 9	2.3	2.0	2.6	4.5	3.6	5.4
10-14	1.2	1.3	1.0	1.4	1.4	1.4
15-19	1.2	0.3	2.1	2.1	1.3	3.0
20-24	1.4	1.0	1.7	2.2	2.5	1.9
25-29	1.9	2.0	1.8	3.0	1.8	4.2
30-34	2.2	2.4	2.0	1.8	1.4	2.1
35-39	3.6	4.3	3.0	3.3	2.8	3.7
40-44	2.5	3.7	1.6	4.2	4.5	3.9
45-49	5.7	8.0	3.5	4.6	5.0	4.2
50-54	8.9	10.1	7.7	7.9	13.7	2.3
55-59	14.2	19.6	8.0	16.8	14.8	18.9
60-64	26.8	23.0	31.4	31.3	35.0	27.5
65-69	34.4	37.6	30.8	42.4	46.2	38.2
70-74	58.5	70.1	45.1	82.2	71.3	94.5
75-79	111.5	104.0	121.5	81.3	61.4	105.7
80-84	156.8	147.9	169.5	176.5	198.5	147.1
85+	215.5	263.2	134.3	235.3	214.3	281.3

*Rate per 1000 live births

3.6: Abridged Life Tables for Both Sex, 1985

Age (years)	1000 _n q _x	l _x	L _x	e ^o
0	103.8	100000	92481	56.5
1	28.6	89615	88101	62.1
2	26.1	87049	85914	62.9
3	17.4	84779	84041	63.6
4	8.9	83302	82932	63.7
5	16.8	82562	409602	63.2
10	6.5	81173	404656	59.3
15	8.3	80649	401698	54.6
20	8.8	79979	398263	50.1
25	12.0	79272	394156	45.5
30	9.9	78317	389801	41.0
35	17.1	77543	384660	36.4
40	16.4	76220	378208	32.0
45	25.5	74968	370415	27.5
50	41.2	73055	358294	23.1
55	74.3	70045	338071	19.0
60	136.0	64838	303358	15.3
65	175.5	56021	256684	12.3
70	298.2	46188	197228	9.4
75	391.5	32414	130282	7.3
80	575.9	19724	68549	5.4
85+	1000.0	8365	37575	4.5

Table 3.7: Abridged Life Tables by Sex, 1985

Age (years)	Males				Females			
	1000_nq_x	${}_n l_x$	${}_n L_x$	e^o	1000_nq_x	${}_n l_x$	${}_n L_x$	e^o
0	107.0	100000	92257	57.5	100.6	100000	92714	55.6
1	19.4	89305	88283	63.3	38.3	89937	87903	60.7
2	15.7	87573	86886	63.6	37.5	86491	84868	62.1
3	15.5	86200	85530	63.6	19.4	83245	82438	63.5
4	6.6	84860	84581	63.6	11.6	81630	81158	63.8
5	14.0	84301	418773	63.0	19.9	80685	399713	63.5
10	6.9	83117	414258	58.8	5.9	79079	394312	59.8
15	4.0	82541	411938	54.2	12.6	78610	390759	55.1
20	8.6	82208	409403	49.4	9.0	77617	386470	50.8
25	9.3	81498	405737	44.8	14.9	76916	381944	46.2
30	9.6	80738	401907	40.2	10.2	75774	377090	41.9
35	17.5	79965	396588	35.6	16.7	75003	372122	37.3
40	20.2	78564	389149	31.2	13.5	73751	366454	32.9
45	32.2	76975	379141	26.8	19.2	72755	360553	28.3
50	57.7	74498	362498	22.6	24.4	71361	352777	23.8
55	83.2	70203	337350	18.8	64.2	69619	337677	19.3
60	134.7	64359	301320	15.3	137.4	65147	304574	15.4
65	189.8	55691	253196	12.2	159.1	56193	259738	12.5
70	301.2	45119	192308	9.5	294.8	47251	202190	9.4
75	349.1	31529	130367	7.5	441.8	33322	129225	7.2
80	586.7	20521	70614	5.1	560.6	18600	65541	5.9
85+	1000.0	8482	34682	4.1	1000.0	8173	44953	5.5

Figure 3.1: Probability of Survival from Birth to Age(X)
by Sex, 1985

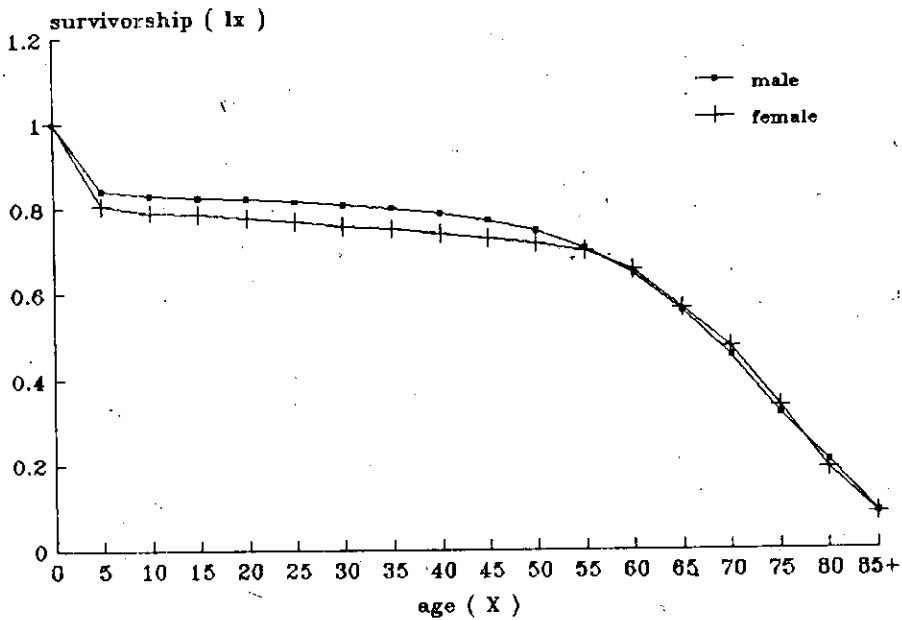


Table 3.8: Abridged Life Tables for Both Sexes by Area, 1985

Age (years)	MCH-FP area				Comparison area			
	1000_nq_x	${}_n l_x$	${}_n L_x$	e^o	1000_nq_x	${}_n l_x$	${}_n L_x$	e^o
0	86.4	100000	93746	59.5	118.4	100000	91425	53.9
1	25.2	91362	90006	64.1	31.7	88157	86509	60.1
2	20.1	89064	88169	64.8	31.5	85364	84021	61.1
3	13.6	87275	86680	65.1	20.8	82677	81817	62.1
4	5.5	86085	85847	65.0	12.0	80957	80471	62.4
5	11.4	85609	425783	64.4	22.1	79985	395835	62.1
10	5.8	84629	422012	60.1	7.2	78216	389788	58.5
15	6.1	84137	419508	55.4	10.7	77655	386363	53.9
20	6.8	83626	416813	50.7	11.0	76826	382176	49.4
25	9.4	83055	413484	46.1	14.8	75980	377302	44.9
30	10.9	82278	409319	41.5	8.7	74855	372766	40.6
35	17.8	81380	403556	36.9	16.3	74201	368209	35.9
40	12.4	79932	397368	32.5	20.7	72991	361456	31.5
45	28.3	78938	389529	27.9	22.7	71477	353642	27.1
50	43.7	76707	375751	23.6	38.6	69858	343032	22.6
55	68.6	73352	355038	19.6	80.7	67159	323137	18.4
60	126.2	68324	321282	15.8	145.7	61743	287420	14.8
65	159.2	59699	275940	12.7	192.5	52748	239472	11.9
70	256.3	50197	219801	9.6	341.4	42596	177010	9.1
75	434.7	37332	145535	7.1	338.7	28053	116782	7.5
80	555.2	21105	74726	5.6	599.8	18552	63055	5.1
85+	1000.0	9389	43572	4.6	1000.0	7425	31556	4.3

Table 3.9: Abridged Life Tables for MCH-FP Area by Sex, 1985

Age (years)	Males				Females			
	1000 _n q _x	_n l _x	_n L _x	e ^o	1000 _n q _x	_n l _x	_n L _x	e ^o
0	86.0	100000	93777	59.6	86.8	100000	93716	59.6
1	20.5	91405	90301	64.1	29.9	91320	89710	64.3
2	12.5	89533	88974	64.5	28.5	88592	87328	65.2
3	14.4	88414	87777	64.3	12.8	86065	85513	66.1
4	4.2	87140	86959	64.2	7.1	84961	84659	66.0
5	10.2	86778	431853	63.5	12.8	84358	419290	65.4
10	6.7	85895	428146	59.1	4.8	83274	415445	61.3
15	1.7	85319	426254	54.5	10.5	82872	412356	56.5
20	5.0	85171	424869	49.6	8.5	82003	408406	52.1
25	9.8	84743	421798	44.8	8.9	81305	404862	47.5
30	12.1	83912	417210	40.2	9.7	80583	401106	42.9
35	21.1	82893	410419	35.7	15.1	79798	396216	38.3
40	18.3	81142	402284	31.4	8.0	78596	391536	33.9
45	39.4	79658	391016	26.9	17.6	77970	386678	29.1
50	49.5	76520	373810	22.9	37.7	76597	376291	24.6
55	93.5	72736	347739	19.0	39.2	73709	361845	20.5
60	109.0	65932	312777	15.7	146.3	70819	329559	16.2
65	172.5	58748	269618	12.3	143.6	60456	281734	13.5
70	299.2	48615	207464	9.3	203.4	51774	233641	10.3
75	412.0	34069	134993	7.1	463.5	41245	157382	7.3
80	533.6	20033	72263	5.4	584.4	22129	76307	6.5
85+	1000.0	9343	35505	3.8	000.0	9196	68460	7.4

Tables 3.10: Abridged Life Tables for Comparison Area by Sex, 1985

Age (years)	Males				Females			
	1000 _n q _x	_n l _x	_n L _x	e ^o	1000 _n q _x	_n l _x	_n L _x	e ^o
0	124.0	100000	91024	55.7	112.5	100000	91853	52.0
1	18.5	87602	86647	62.6	46.0	88747	86338	57.5
2	18.6	85983	85185	62.7	45.5	84664	82737	59.3
3	16.6	84387	83689	62.9	25.4	80810	79785	61.1
4	8.8	82990	82626	63.0	15.9	78759	78133	61.7
5	17.8	82261	407917	62.5	26.8	77507	382720	61.6
10	7.2	80794	402632	58.6	7.1	75426	375887	58.3
15	6.5	80214	399868	54.0	14.9	74887	371858	53.7
20	12.3	79693	396194	49.3	9.6	73771	367217	49.4
25	8.8	78709	391945	44.9	20.9	73061	361779	44.9
30	6.7	78015	388865	40.3	10.6	71535	355919	40.8
35	13.8	77490	384988	35.6	18.4	70774	350853	36.2
40	22.3	76424	378181	31.0	19.5	69469	344208	31.8
45	24.6	74720	369343	26.7	20.8	68112	337290	27.4
50	66.3	72879	353139	22.3	11.4	66697	331738	22.9
55	71.6	68050	328878	18.7	90.5	65939	315724	18.2
60	161.4	63176	291655	14.9	129.0	59972	281603	14.7
65	208.1	52976	238435	12.3	174.9	52234	239414	11.5
70	303.4	41950	178559	9.8	382.1	43099	174339	8.4
75	267.0	29222	127148	7.9	417.3	26629	105114	7.0
80	644.9	21419	69580	4.9	531.4	15516	56071	5.3
85+	1000.0	7605	35490	4.7	1000.0	7270	25849	3.6

Table 3.11: Deaths by Age and Month, 1985

Month	Age at death				
	All age	Under 1 month	1-11 months	1-4 years	5 years and over
January	246	44	27	45	130
February	182	40	20	32	90
March	168	24	37	17	90
April	195	27	36	61	71
May	190	18	42	38	92
June	204	37	29	54	84
July	172	26	25	45	76
August	173	41	20	39	73
September	176	44	13	41	78
October	191	49	15	39	88
November	218	53	21	37	107
December	228	54	27	34	113
Total	2343	457	312	482	1092

Table 3.12: Male Deaths by Cause and Age, 1985

Cause	All ages	Age at death (years)																			
		<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	65-69	70-74	75-79	80-84	85+	
All causes	1168	403	176	39	18	9	17	13	9	13	15	24	41	47	63	60	73	51	52	45	
Measles	36	4	27	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetanus	160	151	4	2	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Drowning	48	0	31	11	2	0	0	0	0	0	0	0	0	2	1	0	0	1	0	0	0
Murder	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Suicide	6	0	0	0	1	0	2	0	0	0	0	0	1	0	1	1	0	0	0	0	0
Diarrhoea acute	49	26	8	2	0	0	1	0	0	0	0	0	1	0	1	2	3	4	0	1	1
Diarr. chronic*	30	5	7	1	0	0	0	0	1	0	0	0	0	0	2	2	6	0	2	4	4
Dysentery acute	31	9	7	0	0	0	0	0	0	0	1	0	2	1	1	3	2	0	4	1	1
Dys. chronic*	133	6	41	5	0	0	1	0	0	0	0	3	6	9	8	12	14	10	8	10	10
Childbirth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jaundice	23	2	4	1	2	2	1	1	1	3	0	2	2	0	2	0	0	0	0	0	0
Other	180	86	15	4	3	1	4	3	1	3	2	4	11	11	10	7	6	4	1	4	4
G.I. tract	37	0	0	1	2	2	0	1	1	2	3	2	4	4	3	2	3	3	3	1	1
Respiratory	128	39	9	0	0	0	0	2	2	2	4	2	4	9	13	7	13	9	11	2	2
Heart disease	4	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0
Liver disease	5	0	1	0	0	0	0	0	0	0	1	0	2	0	1	0	0	0	1	0	0
Venereal disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skin disease	16	9	3	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
E.N.T. disease	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cholera (proven)	3	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Oedema (dropsy)	29	1	4	1	0	1	2	1	1	1	0	0	1	3	4	3	1	2	1	1	2
Rheumatism	28	0	0	1	0	0	0	0	1	0	1	1	0	3	6	2	6	3	1	3	3
Accident	15	2	0	0	2	0	2	1	0	1	0	1	2	2	0	2	0	0	0	0	0
Old age	62	1	0	0	0	0	0	0	0	0	0	0	0	0	5	5	14	9	14	14	14
Fever(all forms)	104	43	14	5	1	3	1	3	1	1	2	3	4	1	3	8	2	4	4	1	1
Unknown	24	18	0	0	0	0	1	1	0	0	0	1	0	0	1	1	1	0	0	0	0
Diabetes	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Cancer	10	0	0	0	0	0	0	0	0	0	0	2	1	2	1	0	2	1	1	0	1

*Prolonged or recurrent illness during last two/three months.

(See Zimicki, S. et al., Cause of death reporting in Matlab, ICDDR,B Scientific Report No. 63, 1985.)

Table 3.13: Female Deaths by Cause and Age, 1985

Cause	All ages	Age at death (years)																		
		<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	65-69	70-74	75-79	80-84	85+
All causes	1175	364	306	50	14	28	18	20	10	15	13	15	17	32	58	44	62	54	35	20
Measles	57	11	39	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetanus	146	134	5	2	1	1	0	2	0	0	0	0	0	0	1	0	0	0	0	0
Drowning	49	1	40	5	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0
Murder	4	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Suicide	9	0	0	0	0	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Diarrhoea acute	52	17	12	2	0	1	0	0	1	0	1	1	0	1	3	1	3	3	4	2
Diarr. chronic*	65	9	39	2	1	0	0	0	0	0	0	0	0	1	3	2	2	3	1	2
Dysentery acute	41	8	18	3	0	1	1	0	0	0	0	0	1	0	1	2	2	3	0	1
Dys. chronic*	145	5	77	6	0	0	0	0	0	2	2	1	5	8	9	11	10	5	4	0
Childbirth	18	0	0	0	0	3	6	2	1	3	3	0	0	0	0	0	0	0	0	0
Jaundice	18	0	3	0	1	1	2	5	1	1	2	2	0	0	0	0	0	0	0	0
Other	170	83	20	6	1	5	5	3	2	5	2	3	4	5	5	7	8	4	1	1
G.I. tract	15	0	1	1	2	1	1	0	0	0	0	2	0	2	1	0	4	0	0	0
Respiratory	91	31	12	5	1	1	0	0	1	4	3	1	6	4	11	3	1	6	0	1
Heart disease	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Liver disease	4	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1
Venereal disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skin disease	29	13	8	1	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	1
E.N.T. disease	4	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Cholera (proven)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oedema (dropsy)	46	3	10	0	1	1	0	3	0	0	0	1	2	5	5	2	6	2	5	0
Rheumatism	29	1	1	0	0	0	0	1	1	1	0	0	1	1	6	5	5	3	4	0
Accident	10	1	3	1	0	1	0	0	0	0	0	0	0	1	0	0	2	0	0	1
Old age	58	0	0	0	0	0	0	0	0	0	0	0	0	6	9	14	15	9	5	
Fever (all forms)	86	28	15	8	5	3	0	2	2	1	0	1	1	3	3	2	4	4	3	1
Unknown	19	16	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Diabetes	3	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
Cancer	6	0	0	0	0	0	0	1	0	0	0	1	0	2	2	0	0	0	0	0

*Prolonged or recurrent illness during last two/three months.

(See Zimicki, S. et al., Cause of death reporting in Matlab, ICDDR,B Scientific Report No. 63, 1985.)

Table 3.14: Male Deaths by Cause, Age and Area, 1985

Cause	Age at death (years)															
	All ages		Under 1		1-4		5-14		15-44		45-64		65-84		85+	
	M	C	M	C	M	C	M	C	M	C	M	C	M	C	M	C
All causes	519	649	145	258	74	102	23	34	35	41	87	88	125	111	30	15
Measles	12	24	2	2	6	21	4	1	0	0	0	0	0	0	0	0
Tetanus	51	109	48	103	2	2	1	3	0	0	0	0	0	1	0	0
Drowning	20	28	0	0	14	17	5	8	0	0	0	3	1	0	0	0
Murder	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0
Suicide	2	4	0	0	0	0	1	0	1	1	0	2	0	1	0	0
Diarrhoea acute	23	26	13	13	5	3	1	1	0	1	1	1	3	6	0	1
Diarr. chronic*	16	14	3	2	2	5	0	1	1	0	2	0	5	5	3	1
Dysentery acute	14	17	3	6	2	5	0	0	0	1	2	2	6	3	1	0
Dys. chronic*	53	80	2	4	15	26	2	3	0	1	11	15	19	25	4	6
Childbirth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jaundice	9	14	0	2	4	0	0	3	2	6	3	3	0	0	0	0
Other	86	94	34	52	7	8	3	4	8	6	20	16	11	7	3	1
G.I. tract	20	17	0	0	0	0	1	2	7	2	6	7	6	5	0	1
Respiratory	49	79	10	29	3	6	0	0	5	5	12	16	17	23	2	0
Heart disease	3	1	0	0	0	0	0	0	0	0	2	0	1	1	0	0
Liver disease	2	3	0	0	1	0	0	0	0	1	1	2	0	0	0	0
Venereal disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skin disease	8	8	5	4	1	2	2	0	0	1	0	0	0	1	0	0
E.N.T. disease	3	1	0	0	0	0	0	1	0	0	0	0	2	0	1	0
Cholera (proven)	2	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0
Oedema (dropsy)	17	12	1	0	3	1	1	0	2	4	5	3	3	4	2	0
Rheumatism	19	9	0	0	0	0	0	1	1	1	7	3	9	3	2	1
Accident	8	7	0	2	0	0	0	2	3	1	4	1	1	1	0	0
Old age	41	21	0	1	0	0	0	0	0	0	3	2	28	14	10	4
Fever (all forms)	43	61	16	27	8	6	2	4	4	7	3	8	9	9	1	0
Unknown	10	14	7	11	0	0	0	0	1	1	1	1	1	1	0	0
Diabetes	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Cancer	8	2	0	0	0	0	0	0	0	0	4	2	3	0	1	0

*Prolonged or recurrent illness during last two/three months.

(See Zimicki, S. et al., Cause of death reporting in Matlab, ICDDR,B Scientific Report No. 63, 1985.)

M = MCH-FP area.

C = Comparison area.

Table 3.15: Female Deaths by Cause, Age and Area, 1985

Cause	Age at death (years)															
	All ages		Under 1		1-4		5-14		15-44		45-64		65-84		85+	
	M	C	M	C	M	C	M	C	M	C	M	C	M	C	M	C
All causes	478	697	146	218	107	199	22	42	43	61	60	62	91	104	9	11
Measles	17	40	4	7	11	28	2	5	0	0	0	0	0	0	0	0
Tetanus	45	101	44	90	1	4	0	3	0	3	0	1	0	0	0	0
Drowning	23	26	1	0	18	22	2	3	0	0	2	1	0	0	0	0
Murder	1	3	0	1	0	0	0	0	1	2	0	0	0	0	0	0
Suicide	4	5	0	0	0	0	0	0	4	5	0	0	0	0	0	0
Diarrhoea acute	20	32	7	10	4	8	0	2	1	2	3	2	5	6	0	2
Diarr. chronic*	30	35	3	6	18	21	1	2	0	0	2	2	5	3	1	1
Dysentery acute	20	21	4	4	8	10	0	3	0	2	2	0	6	1	0	1
Dys. chronic*	58	87	1	4	25	52	3	3	1	1	7	9	18	17	3	1
Childbirth	5	13	0	0	0	0	0	0	5	13	0	0	0	0	0	0
Jaundice	10	8	0	0	0	3	1	0	8	4	1	1	0	0	0	0
Other	86	84	41	42	8	12	4	3	13	9	10	7	10	10	0	1
G.I. tract	4	11	0	0	0	1	1	2	1	1	2	3	0	4	0	0
Respiratory	38	53	14	17	6	6	0	6	3	6	12	10	3	7	0	1
Heart disease	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Liver disease	2	2	0	0	1	0	0	0	0	0	0	1	0	1	1	0
Venereal disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skin disease	9	20	5	8	1	7	0	1	0	1	1	1	1	2	1	0
E.N.T. disease	2	2	1	0	0	1	1	0	0	0	0	0	0	0	0	0
Cholera (proven)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oedema (dropsy)	13	33	1	2	2	8	1	0	0	4	5	8	4	11	0	0
Rheumatism	17	12	0	1	0	1	0	0	1	2	3	4	13	4	0	0
Accident	7	3	1	0	2	1	1	0	1	0	1	0	1	1	0	1
Old age	25	33	0	0	0	0	0	0	0	0	3	3	19	28	3	2
Fever (all forms)	31	55	10	18	2	13	5	8	4	4	5	3	5	8	0	1
Unknown	8	11	8	8	0	1	0	1	0	1	0	0	0	0	0	0
Diabetes	2	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
Cancer	1	5	0	0	0	0	0	0	0	1	1	4	0	0	0	0

*Prolonged or recurrent illness during last two/three months.

(See Zimicki, S. et al., Cause of death reporting in Matlab, ICDDR,B Scientific Report No. 63, 1985.)

M = MCH-FP area.

C = Comparison area.

CHAPTER 4

FERTILITY

There were 8,183 reported pregnancies in 1985 in the Matlab DSS area, of which 7,325 resulted in live births and 858 resulted in miscarriages or stillbirths, yielding a ratio of 117 foetal losses per 1,000 live birth pregnancies (Table 4.1). Stillbirths are defined as foetal losses of seven months gestation or more; if the gestation period is less than seven months, the loss is designated as a miscarriage, either induced or spontaneous. The number of pregnancies in 1985 exceeded the number reported for 1984 and 1983 by 791 and 70 respectively. The reported foetal losses in 1985 were lower than 1984 by 55.

Seasonality of births, shown in Table 4.2 and Figure 4.1, had the same pattern in 1985 as in previous years, with a larger number of births in October, November, and December. Table 4.8 presents the 1985 age-specific fertility rates. Fertility reached its peak at ages 25-29. The general fertility rate was 162 per thousand women aged 15-49. All fertility rates were higher in 1985 than in 1984 in both areas; these fertility indices were lower in the MCH-FP area than in the Comparison area (Table 4.9).

Figure 4.1: Number of Births and Deaths by Month, 1985

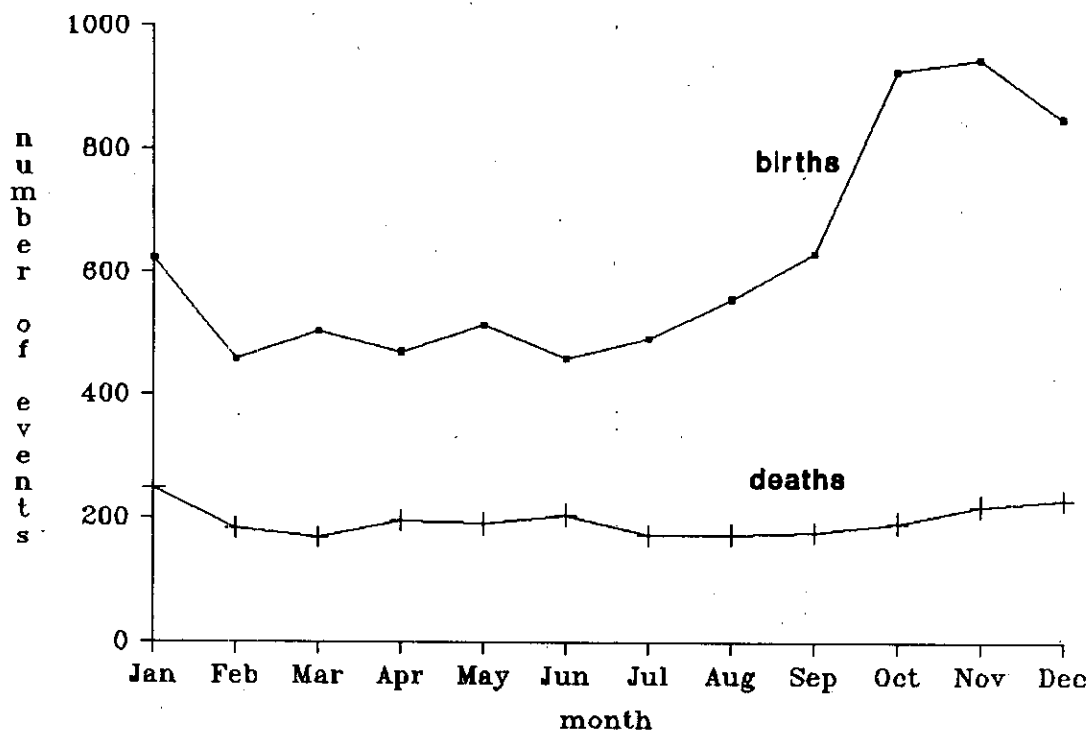


Table 4.1: Number and Rates of Pregnancy Outcomes by Type and Area, 1985

Type of pregnancy outcome	Both areas		MCH-FP area		Comparison area	
	Number	Rate	Number	Rate	Number	Rate
Total pregnancies*	8183	179.3	3658	154.6	4525	205.8
Live birth pregnancies	7325	895.1	3342	913.6	3983	880.2
Fetal wastage pregnancies**	858	104.9	316	86.4	542	119.8
Early (miscarriages)	613	74.9	211	57.7	402	88.8
Late (still-births)	245	29.9	105	28.7	140	30.9
Twin birth pregnancies		89	32	57		
Live birth pregnancies		85	30	55		
Two live births		80	27	53		
One live birth		5	3	2		
Still-birth pregnancies		4	2	2		
Miscarriage pregnancies		0	0	0		

*Rate per 1000 women of age 15-49 years.

**Ratio per 1000 total pregnancies.

Table 4.2: Pregnancy Outcomes by Month, 1985

Months	Pregnancy outcome					No. of live born			M/F Ratio
	All	Miscarriage		Still-birth	Live* birth	Both sexes	Males	Females	
		Induced	Spon.						
All months	8183	154	459	245	7325	7405	3768	3637	1.0360
January	678	8	39	17	614	623	323	300	1.0766
February	505	9	27	17	452	457	243	214	1.1355
March	576	17	47	16	496	503	257	246	1.0447
April	559	18	57	18	466	469	260	209	1.2440
May	611	25	59	15	512	514	243	271	0.8966
June	538	18	50	18	452	457	222	235	0.9446
July	553	17	40	15	481	491	263	228	1.1535
August	612	10	33	17	552	556	282	274	1.0291
September	688	12	32	24	620	629	322	307	1.0488
October	959	7	16	25	911	922	468	454	1.0308
November	992	2	31	28	931	940	482	458	1.0524
December	912	11	28	35	838	844	403	441	0.9138

*For multiple pregnancy, the outcome is recorded as live birth if at least one of the issue is live born.

Table 4.3: Number of Mothers who had Live Birth by Age and Number of Previous Pregnancies, 1985

Age (years)	Total	Number of previous pregnancies*											Mean
		0	1	2	3	4	5	6	7	8	9	10	
All ages	7405	1425	1414	1124	911	727	586	447	285	199	137	150	2.9
Under 15	5	2	3	0	0	0	0	0	0	0	0	0	0.6
15-19	1013	716	239	47	6	2	3	0	0	0	0	0	0.4
20-24	2580	639	970	624	258	67	14	7	0	1	0	0	1.3
25-29	1848	59	188	391	509	394	192	82	24	7	2	0	3.1
30-34	1003	4	10	48	113	205	266	188	98	47	17	7	5.0
35-39	648	3	3	10	23	53	87	140	120	84	68	57	6.6
40-44	268	2	1	2	2	3	23	29	38	55	44	69	7.9
45+	40	0	0	2	0	3	1	1	5	5	6	17	8.2

*Present birth excluded.

Table 4.4: Number of Mothers who had Live Births by Age and Number of Surviving Children, 1985

Age (years)	Total	Number of surviving children*											Mean
		0	1	2	3	4	5	6	7	8	9	10	
All ages	7405	1916	1625	1296	938	710	464	267	110	60	13	6	2.1
Under 15	5	3	2	0	0	0	0	0	0	0	0	0	0.4
15-19	1013	821	172	15	3	2	0	0	0	0	0	0	0.2
20-24	2580	950	1073	468	78	10	0	1	0	0	0	0	0.9
25-29	1848	121	332	628	503	210	48	6	0	0	0	0	2.3
30-34	1003	12	34	141	267	294	190	51	12	2	0	0	3.6
35-39	648	7	8	36	78	155	162	125	43	31	3	0	4.7
40-44	268	2	2	7	8	34	57	81	45	22	6	4	5.7
45+	40	0	2	1	1	5	7	3	10	5	4	2	6.2

*Present birth excluded.

Table 4.5: Number of Mothers who had Still Births by Age and Number of Previous Pregnancies, 1985

Age (years)	Total	Number of previous pregnancies*										
		0	1	2	3	4	5	6	7	8	9	10+
All ages	252	62	29	32	19	26	19	14	15	14	12	10
Under 15	0	0	0	0	0	0	0	0	0	0	0	0
15-19	35	30	4	1	0	0	0	0	0	0	0	0
20-24	79	27	22	17	8	2	2	1	0	0	0	0
25-29	56	5	3	12	10	15	5	4	2	0	0	0
30-34	26	0	0	2	1	6	7	5	1	3	1	0
35-39	36	0	0	0	0	2	3	3	9	7	8	4
40-44	17	0	0	0	0	1	2	0	3	3	3	5
45+	3	0	0	0	0	0	0	1	0	1	0	1

*Present still birth excluded.

Table 4.6: Number of Mothers who had Spontaneous Miscarriage by Age and Number of Previous Pregnancies, 1985

Age (years)	Total	Number of previous pregnancies*										
		0	1	2	3	4	5	6	7	8	9	10+
All ages	459	81	71	61	58	35	39	30	25	21	10	28
Under 15	75	48	19	4	1	3	0	0	0	0	0	0
15-19	132	28	43	38	19	3	1	0	0	0	0	0
20-24	101	4	9	18	31	23	14	2	0	0	0	0
25-29	50	0	0	0	5	6	15	12	7	3	1	1
30-34	0	0	0	0	0	0	0	0	0	0	0	0
35-39	54	0	0	1	1	0	7	14	7	13	3	8
40-44	41	1	0	0	0	0	1	2	11	3	5	18
45+	6	0	0	0	1	0	1	0	0	2	1	1

*Present miscarriage excluded.

Table 4.7: Number of Mothers who had Induced Miscarriage by Age and Number of Previous Pregnancies, 1985

Age (years)	Total	Number of previous pregnancies*										
		0	1	2	3	4	5	6	7	8	9	10+
All ages	155	24	15	11	12	19	15	20	12	2	12	13
Under 15	0	0	0	0	0	0	0	0	0	0	0	0
15-19	11	10	1	0	0	0	0	0	0	0	0	0
20-24	42	13	13	8	6	2	0	0	0	0	0	0
25-29	25	1	1	3	4	9	4	1	2	0	0	0
30-34	32	0	0	0	1	5	8	10	4	0	4	0
35-39	22	0	0	0	1	3	1	4	5	0	4	4
40-44	19	0	0	0	0	0	2	3	1	1	4	8
45+	4	0	0	0	0	0	0	2	0	1	0	1

*Present miscarriage excluded.

Table 4.8: Age-specific Fertility Rates and Indices, 1985

Age (years)	Number of live births	Number of women	ASFR (per 1000)
All ages	7405	45646	162.2
15-19*	1018	11026	92.3
20-24	2580	9923	260.0
25-29	1848	6685	276.4
30-34	1003	4891	205.1
35-39	648	4458	145.4
40-44	268	4783	56.0
45-49**	40	3880	10.3
Total Fertility Rate (TFR)			5228
General Fertility Rate (GFR)			162
Gross Reproduction Rate (GRR)			2568
Net Reproduction Rate (NRR)			2016

*Births to others under age 15 were included in this group.

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

Table 4.9: Age-specific Fertility Rates and Indices
by Area, 1985

Age (years)	MCH-FP area		Comparison area	
	Number of live births	ASFR (per 1000)	Number of live births	ASFR (per 1000)
All ages	3369	142.4	4036	183.6
15-19*	474	83.2	544	102.0
20-24	1221	231.9	1359	291.8
25-29	841	249.9	1007	303.4
30-34	444	173.8	559	239.2
35-39	276	119.6	372	172.9
40-44	96	38.4	172	75.3
45-49**	17	8.6	23	12.1
	TFR = 4527		TFR = 5984	
	GFR = 142		GFR = 184	
	GRR = 2260		GRR = 2899	
	NRR = 1862		NRR = 2179	

*Births to others under age 15 were included in this group.

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

Table 4.10 Age-specific Fertility Rates and Indices
for MCH-FP Area by Block, 1985

Age (years)	Block A		Block B	
	Number of live births	ASFR (per 1000)	Number of live births	ASFR (per 1000)
All ages	971	155.7	878	146.1
15-19*	123	80.4	131	91.0
20-24	373	257.1	304	231.2
25-29	257	283.0	186	225.2
30-34	125	199.4	132	197.3
35-39	56	86.4	87	140.1
40-44	30	47.2	33	53.4
45-49**	7	16.0	5	9.6
	TFR = 4848		TFR = 4739	
	GFR = 156		GFR = 146	
	GRR = 2471		GRR = 2291	

*Births to others under age 15 were included in this group.
**Births to mothers age 50 and above were included in this group.

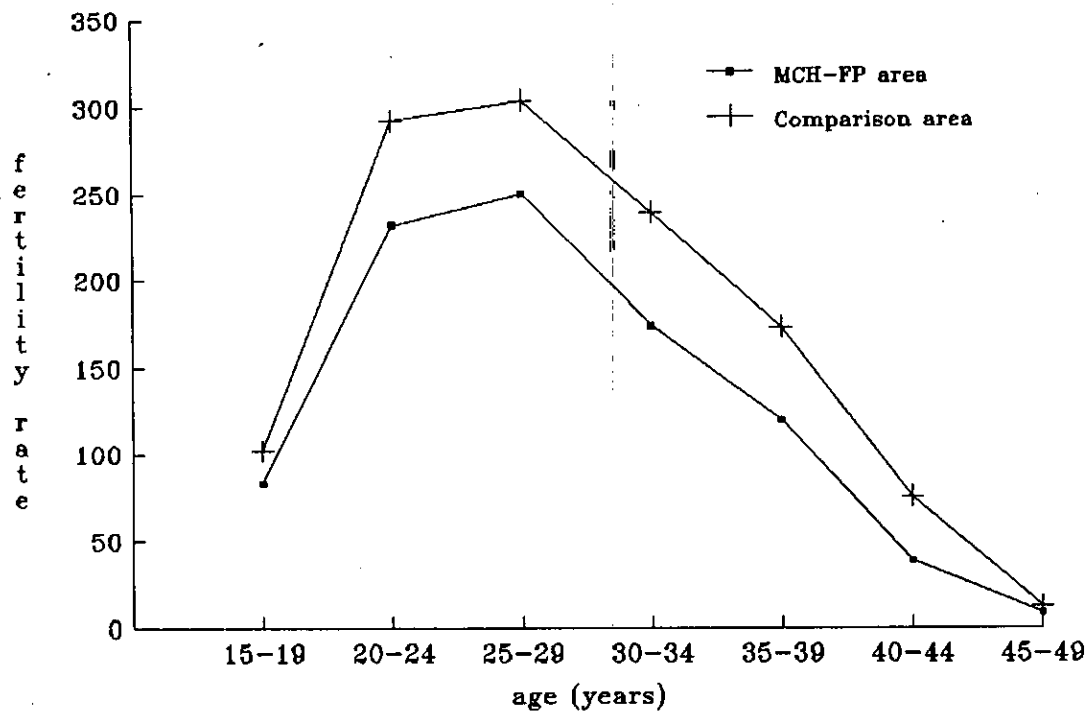
Table 4.10 (contd.): Age-specific Fertility Rates and Indices for MCH-FP Area by Block, 1985

Age (years)	Block C		Block D	
	Number of live births	ASFR (per 1000)	Number of live births	ASFR (per 1000)
All ages	852	136.2	668	129.5
15-19*	119	79.3	101	82.4
20-24	297	216.9	247	218.4
25-29	230	254.4	168	230.8
30-34	110	154.7	77	140.8
35-39	70	125.4	63	131.3
40-44	24	34.7	9	16.2
45-49**	2	3.8	3	6.1
	TFR =	4347	TFR =	4129
	GFR =	136	GFR =	129
	GRR =	2173	GRR =	2071

*Births to others under age 15 were included in this group.

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

Figure 4.2: Age-specific Fertility Rates by Area, 1985



CHAPTER 5

MARRIAGE AND DIVORCE

In 1985, 3,046 marriages were registered, in which 2,321 men and 2,585 women were married for the first time (Tables 5.1 and 5.2). Of all the registered marriages, 42 percent of the men were married at the age of 25-29 years and 58 percent of the women were married at the age of 15-19 years. The median age at first marriage for both men and women increased than that was reported in previous years.

The distribution of marriages and divorces by month (Table 5.6 and Figure 5.1) shows a similar seasonal pattern to that observed in 1984; the number of marriages ranged from 155 in April to 386 in March, and number of divorces ranged from 27 in November to 44 in March.

Table 5.1: Groom's Age at Marriage by Previous Marital Status, 1985

Age (years)	Previous marital status									
	All grooms		Single		Married		Widowed		Divorced	
	No.	Percent	No.	Percent	No.	Percent	No.	Percent	No.	Percent
All ages	3046	100.0%	2321	100.0%	174	100.0%	130	100.0%	421	100.0%
10-14	2	0.1%	2	0.1%	0	0.0%	0	0.0%	0	0.0%
15-19	110	3.6%	105	4.5%	1	0.6%	0	0.0%	4	1.0%
20-24	895	29.4%	769	33.1%	20	11.5%	13	10.0%	93	22.1%
25-29	1284	42.2%	1032	44.5%	50	28.7%	23	17.7%	179	42.5%
30-34	337	11.1%	230	9.9%	27	15.5%	18	13.8%	62	14.7%
35-39	103	3.4%	25	1.1%	30	17.2%	16	12.3%	32	7.6%
40-44	48	1.6%	5	0.2%	18	10.3%	14	10.8%	11	2.6%
45-49	20	0.7%	2	0.1%	7	4.0%	8	6.2%	3	0.7%
50-54	17	0.6%	0	0.0%	4	2.3%	7	5.4%	6	1.4%
55-59	11	0.4%	0	0.0%	4	2.3%	5	3.8%	2	0.5%
60-64	2	0.1%	0	0.0%	0	0.0%	1	0.8%	1	0.2%
65+	12	0.4%	1	0.0%	0	0.0%	7	5.4%	4	1.0%
Unknown	205	6.7%	150	6.5%	13	7.5%	18	13.8%	24	5.7%
Median age*	25.8		25.5		30.8		35.3		27.2	
Mean age*	27.1		25.7		32.9		37.9		29.1	
Standard dev.*	6.3		3.9		8.5		12.8		7.7	

*Mean, median, and standard deviation were calculated from ungrouped data.

Table 5.2: Bride's Age at Marriage by Previous Marital Status, 1985

Age (years)	Previous marital status							
	All brides		Single		Widowed		Divorced	
	No.	Percent	No.	Percent	No.	Percent	No.	Percent
All ages	3046	100.0%	2585	100.0%	50	100.0%	411	97.1%*
10-14	124	4.1%	122	4.7%	0	0.0%	2	0.5%
15-19	1754	57.6%	1630	63.1%	13	26.0%	111	27.0%
20-24	873	28.7%	676	26.2%	19	38.0%	178	43.3%
25-29	155	5.1%	63	2.4%	11	22.0%	81	19.7%
30-34	26	0.9%	6	0.2%	3	6.0%	17	4.1%
35-39	8	0.3%	3	0.1%	2	4.0%	3	0.7%
40-44	3	0.1%	0	0.0%	1	2.0%	2	0.5%
45-49	1	0.0%	0	0.0%	0	0.0%	1	0.2%
50-54	4	0.1%	0	0.0%	0	0.0%	4	1.0%
55-59	0	0.0%	0	0.0%	0	0.0%	0	0.0%
60-64	0	0.0%	0	0.0%	0	0.0%	0	0.0%
65+	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Unknown	98	3.2%	85	3.3%	1	2.0%	12	2.9%
Median age*	18.8		18.4		22.1		21.8	
Mean age*	19.4		18.8		23.7		22.9	
Standard dev.*	3.8		2.9		5.9		5.8	

*Mean, median, and standard deviation were calculated from ungrouped data.

Table 5.3: Marriage Rates by Age and Sex, 1985

Age at marriage (years)	Males		Females	
	Number	Rate*	Number	Rate*
10-14	2	0.2	124	10.5
15-19	110	9.9	1754	159.1
20-24	895	91.4	873	88.0
25-29	1284	184.9	155	23.2
30-34	337	72.1	26	5.3
35-39	103	28.0	8	1.8
40-44	48	13.1	3	0.6
45-49	20	5.4	1	0.1**
50-54	17	4.9	4	-
55-59	11	4.1	0	-
60-64	2	0.9	0	-
65+	12	3.4	0	-
Unknown	205	-	98	-

* Rates per 1000 population irrespective of previous marital status.

** Women age 45 and above were included in this group.

Table 5.4: Number of Marriages by Groom's and Bride's Age at Marriage, 1985

Groom's age (years)	Bride's age (years)										Unk
	All	< 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50+	
All ages	3046	124	1754	873	155	26	8	3	1	4	98
10-14	2	-	-	-	-	-	-	-	-	-	2
15-19	110	8	77	17	1	-	-	-	-	-	7
20-24	895	54	613	173	13	2	-	-	-	-	40
25-29	1284	41	779	401	23	4	1	-	-	-	35
30-34	337	7	121	161	41	1	-	-	-	-	6
35-39	103	2	27	34	30	8	-	-	-	-	2
40-44	48	-	10	17	15	2	1	1	-	-	2
45-49	20	-	-	4	9	4	1	-	-	-	2
50-54	17	1	2	4	7	2	-	1	-	-	-
55-59	11	-	1	6	2	-	-	1	1	-	-
60-64	2	-	-	-	-	-	-	-	-	1	1
65+	12	-	-	1	2	1	4	-	-	3	1
Unknown	205	11	124	55	12	2	1	-	-	-	-

Table 5.5: Number of Divorces by Partner's Age at Divorce, 1985

Male's age (years)	Female's age (years)										
	All	< 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50+	Unk
All ages	424	6	159	186	41	8	4	2	1	3	14
15-19	9	-	8	-	-	-	-	-	-	-	1
20-24	89	2	50	32	1	1	-	-	-	-	1
25-29	156	3	67	73	7	-	-	-	-	-	3
30-34	82	-	16	52	10	1	1	-	-	-	6
35-39	23	-	1	9	10	2	1	-	-	-	2
40-44	17	-	2	8	5	2	-	-	-	-	-
45-49	4	-	1	-	1	-	1	1	-	-	-
50-54	5	-	1	-	1	2	1	-	-	-	-
55-59	4	-	-	2	-	-	-	1	1	-	-
60-64	2	-	-	-	1	-	-	-	-	1	-
65+	2	-	-	-	-	-	-	-	-	2	-
Unknown	31	1	13	10	5	-	-	-	-	-	2

Table 5.6: Marriages and Divorces by Month, 1985

Month	Marriage		Divorce	
	Number	Percent	Number	Percent
All months	3046	100.0	424	100.0
January	186	6.1	42	9.9
February	346	11.4	42	9.9
March	386	12.7	44	10.4
April	155	5.1	30	7.1
May	278	9.1	37	8.7
June	248	8.1	41	9.7
July	259	8.5	29	6.8
August	213	7.0	34	8.0
September	257	8.4	33	7.8
October	249	8.2	33	7.8
November	220	7.2	27	6.4
December	249	8.2	32	7.5

Figure 5.1: Marriages and Divorces by Month, 1985

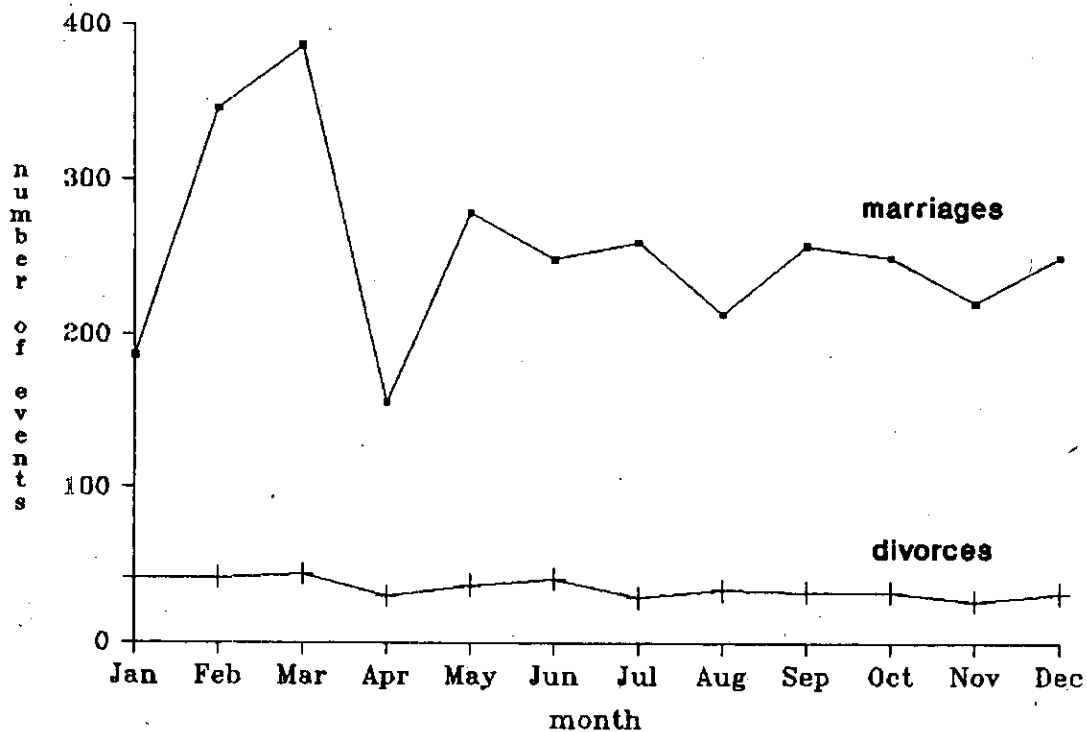


Table 5.7: Number of Divorces by Sex, Age, and Duration of Marriage, 1985

Age at divorce (yrs)	All durations		Duration of marriage (months)													
			Under 6		6-11		12-23		24-35		36-47		48-59		60+	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
All ages	424	424	72	71	64	64	97	97	67	67	31	30	27	27	66	68
<20	9	165	5	36	1	30	3	55	-	22	-	9	-	7	-	6
20	89	186	21	26	13	26	20	34	21	38	8	17	4	16	2	29
25	156	41	23	4	24	3	39	5	20	5	12	2	16	2	22	20
30	82	8	10	1	7	-	21	-	20	1	6	1	4	-	14	5
35	23	4	-	-	2	-	5	1	2	1	-	-	1	-	13	2
40	21	3	3	-	2	1	6	-	3	-	1	-	-	-	6	2
50+	9	2	3	-	1	-	-	-	1	-	1	-	1	-	2	2
Unknown	35	15	7	4	14	4	3	2	-	-	3	1	1	2	7	2

CHAPTER 6

MIGRATION

An "out-migrant" is defined as a person originally listed on a DSS census as a resident, or a person who became a resident after the census by birth or in-migration, who subsequently moved out of the surveillance (DSS) area permanently. Likewise, an "in-migrant" is an individual not recorded in the census who has permanently moved into the surveillance area. Those who stay in the area continuously for at least 6 months in a year or come home at least once a month to stay overnight are treated as permanent residents.

There were 4,595 in-migrants and 8,093 out-migrants during 1985, yielding a net emigration rate of 18.2 per 1,000 population. The rate of out-migration in 1985 was virtually unchanged from 1984. The age-specific in- and out-migration rates are presented in Table 6.4 and Figure 6.1.

The highest male in- and out-migration rates, 40.7 and 66.0, respectively, were seen in the age groups 25-29 and 20-24. For females, the highest in- and out-migration rates were 87.2 and 108.7, respectively, both in the 15-19 age group; those rates are similar to those of 1984. The distribution of in- and out-migration by month shows a marked seasonal variation (Table 6.9 and Figure 6.2).

While the main cause of out-migration for males was economic ("for a better living"), marriage related movement was a dominant cause for female migration (Tables 6.5 through 6.8). A similar distribution of causes of migration for both males and females was also noted in previous years.

Table 6.1: In- and Out-migration by Age and Sex, 1985

Age (years)	In-migration			Out-migration		
	Both sexes	Male	Female	Both sexes	Male	Female
All ages	4595	1887	2708	8093	3739	4354
Under 5	735	378	357	1165	603	562
0	195	109	86	253	122	131
1	153	73	80	260	127	133
2	146	66	80	246	138	108
3	121	62	59	213	115	98
4	118	66	52	193	101	92
5 - 9	431	215	216	793	406	387
10-14	336	171	165	714	375	339
15-19	1098	136	962	1698	500	1198
20-24	733	215	518	1560	646	914
25-29	502	283	219	788	407	381
30-34	261	178	83	390	246	144
35-39	161	106	55	275	168	107
40-44	92	68	24	201	129	72
45-49	79	47	32	131	75	56
50-54	39	20	19	114	58	56
55-59	43	23	20	77	39	38
60-64	35	20	15	85	39	46
65+	50	27	23	102	48	54

Table 6.2: In-migration by Age, Sex, and Area, 1985

Age (years)	MCH-FP area			Comparison area		
	Both sexes	Male	Female	Both sexes	Male	Female
All ages	2414	960	1454	2181	927	1254
Under 5	381	186	195	354	192	162
0	105	55	50	90	54	36
1	82	39	43	71	34	37
2	75	32	43	71	34	37
3	63	30	33	58	32	26
4	54	28	26	64	38	26
5 - 9	230	114	116	201	101	100
10-14	188	86	102	148	85	63
15-19	590	74	516	508	62	446
20-24	371	98	273	362	117	245
25-29	268	147	121	234	136	98
30-34	138	93	45	123	85	38
35-39	90	60	30	71	46	25
40-44	45	34	11	47	34	13
45-49	37	27	10	42	20	22
50-54	20	11	9	19	9	10
55-59	22	12	10	21	11	10
60-64	15	10	5	20	10	10
65+	19	8	11	31	19	12

Table 6.3: Out-migration by Age, Sex, and Area, 1985

Age (years)	MCH-FP area			Comparison area		
	Both sexes	Male	Female	Both sexes	Male	Female
All ages	3509	1632	1877	4584	2107	2477
Under 5	446	234	212	719	369	350
0	90	39	51	163	83	80
1	92	47	45	168	80	88
2	102	62	40	144	76	68
3	75	42	33	138	73	65
4	87	44	43	106	57	49
5 - 9	287	136	151	506	270	236
10-14	285	155	130	429	220	209
15-19	786	247	539	912	253	659
20-24	808	338	470	752	308	444
25-29	345	189	156	443	218	225
30-34	177	120	57	213	126	87
35-39	114	70	44	161	98	63
40-44	76	47	29	125	82	43
45-49	50	32	18	81	43	38
50-54	41	28	13	73	30	43
55-59	32	13	19	45	26	19
60-64	22	8	14	63	31	32
65+	40	15	25	62	33	29

Table 6.4: Age and Sex-specific Migration Rates
by Direction, 1985

Age (years)	Both sexes		Males		Females	
	In	Out	In	Out	In	Out
Total	23.9	42.1	19.3	38.3	28.6	45.9
Under 5	25.0	39.7	24.7	39.6	25.3	39.8
0	32.0	41.6	35.7	39.9	28.3	43.2
1	25.7	43.6	23.8	41.4	27.7	46.0
2	24.3	40.9	20.8	43.6	28.1	37.9
3	21.3	37.4	21.1	39.2	21.4	35.5
4	21.1	34.5	21.8	33.4	20.2	35.7
5 - 9	16.4	30.2	15.6	29.4	17.4	31.1
10-14	13.6	28.9	13.2	29.0	14.0	28.8
15-19	49.5	76.5	12.2	44.8	87.2	108.7
20-24	37.2	79.1	22.0	66.0	52.2	92.1
25-29	36.8	57.8	40.7	58.6	32.6	57.0
30-34	27.3	40.8	38.1	52.6	17.0	29.4
35-39	19.8	33.8	28.8	45.6	12.3	24.0
40-44	10.9	23.8	18.5	35.1	5.0	15.1
45-49	10.5	17.3	12.8	20.4	8.2	14.4
50-54	5.6	16.5	5.8	16.8	5.5	16.3
55-59	8.4	15.0	8.5	8.3	14.4	15.7
60-64	8.4	20.4	9.1	7.6	17.8	23.3
65+	7.3	15.6	7.6	7.1	13.5	18.2

Table 6.5: Male Out-migration by Cause of Movement and Age, 1985

Cause of movement	Age (years)													All 65+ ages	
	<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		
1. Dependent	462	263	135	46	35	10	5	2	0	3	1	0	4	971	
-dependent	450	253	125	43	28	8	2	3	1	0	2	1	0	3	919
-join spouse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-join parents	10	7	8	2	0	0	0	0	0	0	0	0	0	0	27
-join relatives	1	2	2	1	7	2	3	2	1	0	1	0	0	1	23
-adopt	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
2. Independent	126	124	219	421	586	374	228	145	113	62	47	28	23	32	2528
2.1 Work	125	123	211	411	570	357	221	140	107	59	46	24	20	30	2444
-service	2	1	30	147	296	196	99	56	38	14	12	4	3	3	901
-work	0	1	19	27	8	7	0	3	0	2	1	1	0	0	69
-business	0	0	4	26	36	23	16	7	4	3	4	0	0	1	124
-better live	122	100	109	145	143	104	100	69	63	39	28	18	17	24	1081
-livelihood	1	0	3	8	17	14	5	3	2	0	1	1	0	2	57
-study	0	21	46	58	70	13	1	2	0	1	0	0	0	0	212
2.2 Marriage	1	0	2	1	1	3	0	1	1	0	0	0	0	0	10
-marriage	1	0	1	1	1	0	0	0	0	0	0	0	0	0	4
-divorce	0	0	0	0	0	2	0	1	0	0	0	0	0	0	3
-widowhood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-separation	0	0	1	0	0	1	0	0	1	0	0	0	0	0	3
2.3 Return	0	1	5	7	7	8	6	2	1	2	0	3	2	1	45
-after study	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
-after service	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-after work	0	0	0	1	2	0	1	0	0	0	0	0	0	0	4
-return home	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
-family member	0	1	5	5	2	7	5	2	1	2	0	3	2	1	36
2.4 Others	0	0	1	2	8	6	1	2	4	1	1	1	1	1	29
3. Change in resident	1	2	0	0	2	5	3	4	4	0	1	0	2	2	26
4. Treatment	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
5. Erosion	14	15	18	30	22	15	10	14	10	13	7	10	14	9	201
6. Family affairs	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
7. Not stated	0	1	2	2	1	2	0	0	0	0	0	0	0	0	8
All migrants	604	406	375	500	646	407	246	168	129	75	58	39	39	47	3739

Table 6.6: Female Out-migration by Cause of Movement and Age, 1985

Cause of movement	Age (years)													All ages	
	<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+
1. Dependent	439	278	138	155	191	109	47	28	25	13	14	17	15	13	1482
-dependent	421	272	123	83	87	49	29	19	19	10	8	12	8	7	1147
-join spouse	0	0	1	49	85	58	15	9	5	2	0	2	3	1	230
-join parents	8	4	8	17	15	1	3	0	0	0	0	0	0	0	56
-join relatives	2	0	6	6	4	1	0	0	1	1	6	3	4	5	39
-adopt	8	2	0	0	0	0	0	0	0	0	0	0	0	0	10
2. Independent	108	88	189	1010	694	244	80	70	32	29	25	19	25	34	2647
2.1 Work	104	85	146	309	346	193	71	65	32	27	23	18	25	33	1477
-service	0	0	5	47	63	19	9	3	0	2	0	0	0	0	148
-work	0	2	18	17	10	7	1	1	0	1	0	1	0	0	58
-business	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-better live	104	72	103	217	254	164	61	61	32	24	23	17	25	33	1190
-livelihood	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3
-study	0	11	19	27	18	3	0	0	0	0	0	0	0	0	78
2.2 Marriage	0	2	42	697	344	49	9	4	0	2	1	1	0	0	1151
-marriage	0	2	41	630	313	42	7	1	0	0	1	1	0	0	1038
-divorce	0	0	0	19	11	3	1	0	0	1	0	0	0	0	35
-widowhood	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
-separation	0	0	1	46	20	4	1	3	0	1	0	0	0	0	76
2.3 Return	4	1	0	3	3	1	0	0	0	0	0	0	0	1	13
-after study	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-after service	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-after work	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
-return home	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-family member	3	1	0	3	3	1	0	0	0	0	0	0	0	1	12
2.4 Others	0	0	1	1	1	1	0	1	0	0	1	0	0	0	6
3. Change in resident	1	3	2	0	4	1	0	0	0	0	1	0	1	0	13
4. Treatment	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
5. Erosion	14	17	9	31	23	27	17	9	15	14	16	2	5	7	206
6. Family affairs	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
7. Not stated	0	1	0	1	1	0	0	0	0	0	0	0	0	0	3
All migrants	562	387	339	1198	914	381	144	107	72	56	56	38	46	54	4354

Table 6.7: Male In-migration by Cause of Movement and Age, 1985

Cause of movement	Age (years)													All ages	
	<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+
1. Dependent	375	185	91	41	16	10	7	2	0	0	1	1	0	3	732
-dependent	362	179	91	37	7	3	1	1	0	0	0	1	0	2	684
-join spouse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-join parents	6	3	0	4	7	5	5	1	0	0	0	0	0	0	31
-join relatives	2	2	0	0	2	2	1	0	0	0	1	0	0	1	11
-adopt	5	1	0	0	0	0	0	0	0	0	0	0	0	0	6
2. Independent	3	30	78	84	182	250	155	93	60	41	18	21	17	18	1050
2.1 Work	3	25	62	55	101	138	87	56	40	29	10	9	8	11	634
-service	0	0	1	1	1	12	13	7	8	4	2	2	3	2	56
-work	0	0	0	1	0	1	1	1	0	0	0	0	0	0	4
-business	0	0	0	0	5	0	1	2	0	2	0	0	0	0	10
-better live	2	8	36	25	71	115	69	45	31	23	7	7	5	9	453
-livelihood	0	0	0	3	5	6	2	1	0	0	1	0	0	0	18
-study	1	17	25	25	19	4	1	0	1	0	0	0	0	0	93
2.2 Marriage	0	1	2	0	4	5	3	0	0	0	0	0	0	0	15
-marriage	0	0	0	0	4	4	3	0	0	0	0	0	0	0	11
-divorce	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
-widowhood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-separation	0	0	2	0	0	1	0	0	0	0	0	0	0	0	3
2.3 Return	0	4	14	29	76	106	64	37	20	12	8	12	9	5	396
-after study	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
-after service	0	1	2	10	12	30	13	8	4	4	3	5	3	2	97
-after work	0	0	1	0	1	4	2	3	0	1	0	0	0	0	12
-return home	0	0	0	0	0	1	1	1	0	0	0	0	0	0	3
-family member	0	3	10	19	62	71	48	25	16	7	5	7	6	3	282
2.4 Others	0	0	0	0	1	1	1	0	0	0	0	0	0	2	5
3. Change in resident	0	0	0	1	3	2	6	4	1	1	0	0	1	1	20
4. Treatment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Erosion	0	0	2	4	3	3	4	2	2	3	1	1	1	5	31
6. Family affairs	0	0	0	6	11	18	6	5	5	2	0	0	1	0	54
7. Not stated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
All migrants	378	215	171	136	215	283	178	106	68	47	20	23	20	27	1887

Table 6.8: Female In-migration by Cause of Movement and Age, 1985

Cause of movement	Age (years)														All ages
	<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+	
1. Dependent	351	200	98	93	145	93	37	31	9	17	6	9	1	6	1096
-dependent	334	195	91	57	95	71	32	24	7	15	5	8	0	3	937
-join spouse	0	0	0	20	33	10	4	5	2	1	1	0	1	1	78
-join parents	5	3	5	12	16	12	1	2	0	0	0	0	0	0	56
-join relatives	4	1	2	4	1	0	0	0	0	1	0	1	0	2	16
-adopt	8	1	0	0	0	0	0	0	0	0	0	0	0	0	9
2. Independent	6	15	66	864	366	117	41	22	13	11	12	6	12	16	1567
2.1 Work	6	14	47	117	143	67	32	14	10	7	11	5	9	9	491
-service	0	0	0	1	1	3	0	2	0	0	0	0	0	0	7
-work	0	0	3	3	1	0	0	0	0	0	0	0	0	0	7
-business	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-better live	6	7	31	100	140	64	32	12	10	7	11	5	9	11	445
-livelihood	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
-study	0	7	12	13	1	0	0	0	0	0	0	0	0	0	33
2.2 Marriage	0	0	11	728	214	45	6	3	2	1	1	0	0	0	1011
-marriage	0	0	9	656	144	25	0	2	0	1	0	0	0	0	837
-divorce	0	0	2	29	31	7	3	1	1	0	1	0	0	0	75
-widowhood	0	0	0	1	2	2	1	0	1	0	0	0	0	0	7
-separation	0	0	0	42	37	11	2	0	0	0	0	0	0	0	92
2.3 Return	0	1	8	19	9	5	2	5	1	3	0	1	3	5	62
-after study	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3
-after service	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
-after work	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
-return home	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
-family member	0	1	8	18	6	4	2	5	1	3	0	1	2	5	56
2.4 Others	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
3. Change in resident	0	0	0	0	0	3	1	0	0	0	0	1	0	0	5
4. Treatment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Erosion	0	1	1	3	4	3	4	2	0	4	1	4	1	1	29
6. Family affairs	0	0	0	0	3	3	0	0	2	0	0	0	1	0	9
7. Not stated	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
All migrants	357	216	165	962	518	219	83	55	24	32	19	20	15	23	2708

Table 6.9: In- and Out-migration by Sex and Month, 1985

Month	In-migration			Out-migration		
	Both sexes	Male	Female	Both sexes	Male	Female
January	615	271	344	1142	522	620
February	428	186	242	698	320	378
March	398	138	260	808	325	483
April	305	130	175	522	247	275
May	360	134	226	610	262	348
June	490	212	278	779	352	427
July	419	190	229	811	390	421
August	399	164	235	702	369	333
September	367	154	213	800	389	411
October	363	147	216	585	287	298
November	265	101	164	373	188	185
December	186	60	126	263	88	175
All months	4595	1887	2708	8093	3739	4354

Figure 6.1: Rate of In- and Out-migration by Sex and Age, 1985

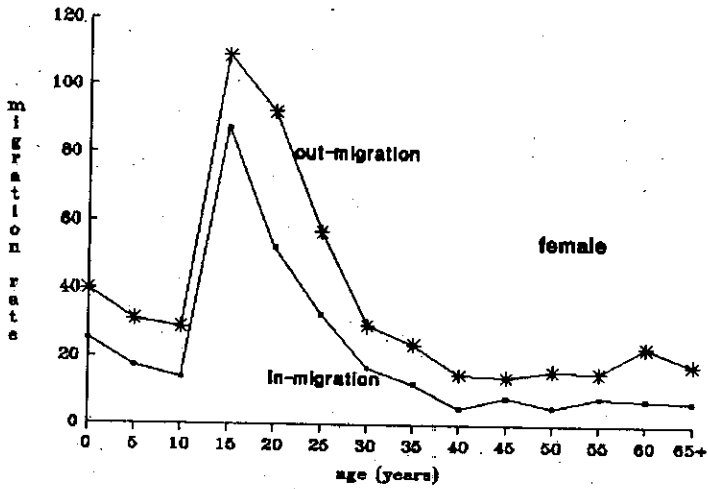
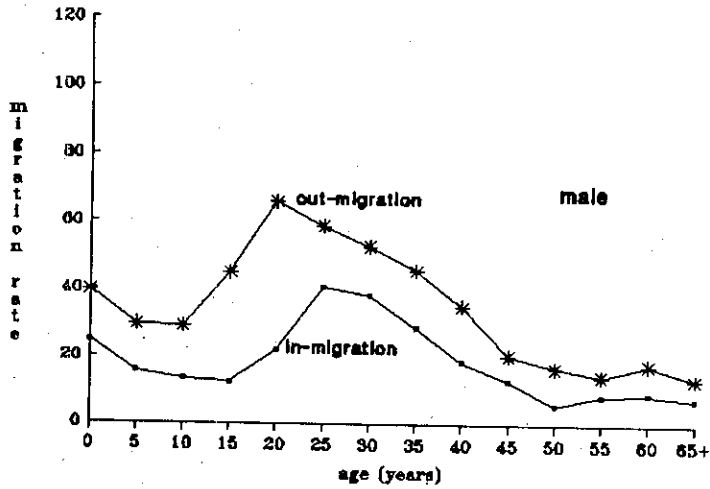


Figure 6.2: Number of In- and Out-migrants by Sex and Month, 1985

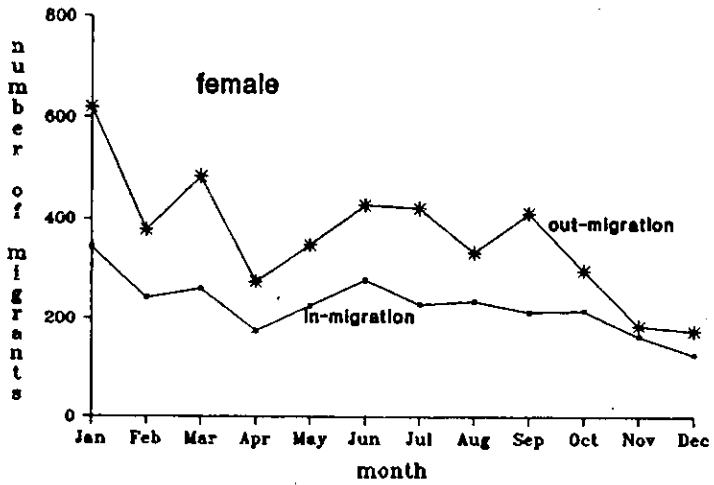
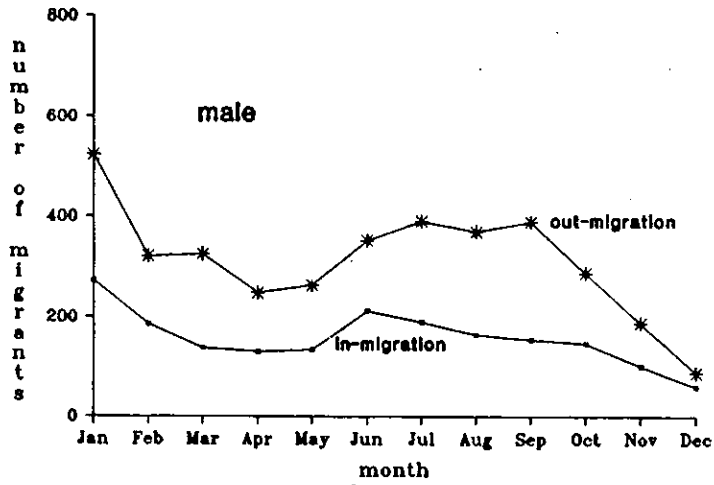


Table 6.10: In- and Out-migration by Sex and Major Categories of Reason for Migration, 1985

Reason for migration	In-migration				Out-migration			
	Male		Female		Male		Female	
	Number	%	Number	%	Number	%	Number	%
All	1887	100.0	2708	100.0	3739	100.0	4354	100.0
Dependent	732	38.8	1096	40.5	971	26.0	1482	34.0
Independent	1045	55.4	1566	57.8	2499	66.8	2641	60.7
-work	634	33.6	493	18.2	2444	65.4	1477	33.9
-marriage	15	0.8	1011	37.3	10	0.3	1151	26.4
-return home	396	21.0	62	2.3	45	1.2	13	0.3
Other*	110	5.8	46	1.7	269	7.2	231	5.3

*This category includes causes such as change in residence, treatment for diseases, river erosion, family affairs, to see the family, and some unstated causes related to independent movements.

Appendix A

Names and Codes of Villages in the DSS Area, 1985

Block	MCH-FP area				Comparison area			
	Village code	Village name	Village code	Village name	Village code	Village name	Village code	Village name
A	D	Charmukundi	V59	Doshpara	A	Uddamdi	V78	Soladana
	W	Kaladi	V60	Suvankardi	B	Charmasua	V79	Pitambordi
	V10	Dhakhirgaon	V61	Munsabdi	C	Sarderkandi	V80	Daribond
	V11	Nabakalash	V62	Shilmondi	F	Sepoykandi	V90	Narinda
	V31	Dighaldi	V72	Upadi	G	Thatalia	V95	Baluchar
	V32	Mobarakdi			J	Char Harigope	V96	Rampur
B	H	Lamchhari	V26	Narayanpur	U	Baispur	V97	Dhanagoda
	V12	Bhangerpar	V56	Palipara	V01	Kadamtali	V98	Santoshpur
	V13	Baburpara	V82	Dhanarpar	V02	Nilokhi	V99	Baluakandi
	V19	Lakshampur	V83	Padmapal	V03	Char Nilokhi	VB1	Taltoli
	V20	Dagorpur	V85	Bhanurpara	V04	Char Pathalia	VB2	Sree Rayerchar
	V21	Khadergaon	V87	Hurmaisha	V05	Gazipur	VB3	Rayerkandi
	V22	Beloti	VB12	Nagda	V06	Fatepur	VB4	Ramdaspur
	V23	Baluchar	VB13	Naogaon	V07	Nayakandi	VB5	Thakurpara
	V24	Machuakhal			V08	Goalbhar	VB6	Sarkerpara
					V09	Naburkandi	VB7	Mirpur
C	K	Shahpur	V40	Masunda	V14	Enayetnagar	VB8	Farazikandi
	L	Tatkhana	V41	Paton	V35	Durgapur	VB9	Ramanathgonj
	M	Char Nayergaon	V42	Adhara (South)	V36	Ludhua	VB10	South Rampur
	N	Aswinpur	V43	Kanachak	V37	Charputia	D28	Bazarkhola
	O	Nayergaon	V44	Panchdona	V38	Galimkha	D29	Kirtonkhola
	P	Titerkandi	V64	Kawadi	V45	Bakchar	D30	Banuakandi
	Q	Char Shibpur	V86	Adhara	V46	Silinda	D31	Harina Bazarkh
	V27	Panchghoria	V88	Datikara	V47	Tulatali	D32	Khalisha
	V28	Khidirpur	VB11	Mehron	V48	Gangkandi	D33	Nayanagar
	V30	Harion	D100	Barogaon	V49	Harina	D34	Saidkharkandi
	V39	Gobindapur	D101	Naojan		Bhabanipara	D35	Molla Kandi
D	R	Nandalalpur	V52	Nayakandi	V50	Bakharpur	D88	Sankibhanga
	S	Tatua	V54	Balakandi	V51	Induriakandi	D89	Sankibhanga
	T	Amuakanda	V55	Induria	V53	Chhoto Haldia		Namapara
	V15	Bhati Rasulpur	V57	Baluchar	V58	Mohishmari	D90	Zahirabaj
	V16	Binandapur	V63	Islamabad	V65	Nayachar	D91	North Joypur
	V17	Hatighata		(East)	V66	Thatalia	D92	West Joypur
	V18	Torkey	V67	Majlishpur	V68	Sobahan	D93	Maizkandi
	V25	Char Pathalia	V81	Sonaterkandi	V69	Naobangha	D94	Hazipur
	V29	Shibpur(South)	V84	Shanbajkandi	V70	South Joypur	D95	Tapaderpara
	V33	Shibpur(North)	V89	Islamabad	V71	Khamarpara	D96	Rampur
	V34	Satparia		(Middle)	V73	Sardardia	D97	Nayakandi
					V74	Ketundia	D98	Bara Haldia
					V75	Mukundia	D99	Mandertoli
					V76	Chosoi		

*Division by block applies only to the MCH-FP area.

Appendix B

Mid-year Population, Births, and Deaths by Village, 1985

Village code	Population	Live births	Deaths	Birth rate	Death rate
D	1476	52	13	35.2	8.8
W	2445	73	16	29.9	6.5
V10	1383	57	21	41.2	15.2
V11	1334	57	15	42.7	11.2
V31	8096	326	83	40.3	10.3
V32	2319	89	21	38.4	9.1
V59	864	27	12	31.3	13.9
V60	879	33	9	37.5	10.2
V61	651	25	6	38.4	9.2
V62	752	32	4	42.6	5.3
V72	5234	201	50	38.4	9.6
BLOCK A	25433	972	250	38.2	9.8
H	1180	32	14	27.1	11.9
V12	464	9	13	19.4	28.0
V13	724	27	1	37.3	1.4
V19	3087	87	28	28.2	9.1
V20	1005	38	14	37.8	13.9
V21	443	7	5	15.8	11.3
V22	579	17	11	29.4	19.0
V23	583	18	7	30.9	12.0
V24	2444	88	23	36.0	9.4
V26	2391	94	29	39.3	12.1
V56	1319	47	17	35.6	12.9
V82	1278	51	17	39.9	13.3
V83	469	23	8	49.0	17.1
V85	377	15	5	39.8	13.3
V87	538	17	9	31.6	16.7
VB12	3705	165	40	44.5	10.8
VB13	4196	143	34	34.1	8.1
BLOCK B	24782	878	275	35.4	11.1

(continued)

Appendix B (cont.)

Mid-year Population, Births, and Deaths by Village, 1985

Village code	Population	Live births	Deaths	Birth rate	Death rate
K	874	27	7	30.9	8.0
L	430	14	4	32.6	9.3
M	142	4	1	28.2	7.0
N	1897	60	14	31.6	7.4
O	1203	38	16	31.6	13.3
P	1835	69	14	37.6	7.6
Q	337	15	6	44.5	17.8
V27	841	27	13	32.1	15.5
V28	1251	34	11	27.2	8.8
V30	502	14	5	27.9	10.0
V39	341	7	3	20.5	8.8
V40	693	17	6	24.5	8.7
V41	1286	66	17	51.3	13.2
V42	655	16	7	24.4	10.7
V43	834	26	5	31.2	6.0
V44	570	24	8	42.1	14.0
V64	4374	132	42	30.2	9.6
V86	723	32	8	44.3	11.1
V88	434	12	4	27.6	9.2
V811	2327	74	20	31.8	8.6
D100	3057	100	19	32.7	6.2
D101	1230	44	20	35.8	16.3
BLOCK C	25836	852	250	33.0	9.7
R	1287	47	17	36.5	13.2
S	1045	30	13	28.7	12.4
T	1457	47	11	32.3	7.5
V15	548	12	4	21.9	7.3
V16	707	25	7	35.4	9.9
V17	1019	33	14	32.4	13.7
V18	3359	123	40	36.6	11.9
V25	1256	24	9	19.1	7.2
V29	559	19	9	34.0	16.1
V33	605	13	6	21.5	9.9
V34	750	24	4	32.0	5.3
V52	247	9	1	36.4	4.0
V54	556	15	7	27.0	12.6
V55	514	16	6	31.1	11.7
V57	1051	36	10	34.3	9.5
V63	1984	54	15	27.2	7.6
V67	560	16	5	28.6	8.9
V81	522	21	7	40.2	13.4
V84	1972	68	26	34.5	13.2
V89	1258	37	11	29.4	8.7
BLOCK D	21256	669	222	31.5	10.4
MCH-FP AREA	97307	3371	997	34.6	10.2

(continued)

Appendix B (cont.)

Mid-year Population, Births, and Deaths by Village, 1985

Village code	Population	Live births	Deaths	Birth rate	Death rate
A	2402	111	42	46.2	17.5
B	1784	85	30	47.6	16.8
C	3243	151	61	46.6	18.8
F	1196	53	16	44.3	13.4
G	2248	95	30	42.3	13.3
J	403	13	4	32.3	9.9
U	7363	312	112	42.4	15.2
V01	710	25	6	35.2	8.5
V02	465	18	6	38.7	12.9
V03	622	22	4	35.4	6.4
V04	234	11	4	47.0	17.1
V05	3049	113	47	37.1	15.4
V06	2257	94	29	41.6	12.8
V07	384	17	9	44.3	23.4
V08	1141	47	13	41.2	11.4
V09	1038	45	11	43.4	10.6
V14	905	34	6	37.6	6.6
V35	3248	157	48	48.3	14.8
V36	4620	210	70	45.5	15.2
V37	385	15	6	39.0	15.6
V38	1505	51	17	33.9	11.3
V45	952	55	14	57.8	14.7
V46	328	16	3	48.8	9.1
V47	1715	54	21	31.5	12.2
V48	576	19	6	33.0	10.4
V49	1203	59	22	49.0	18.3
V50	768	25	7	32.6	9.1
V51	1404	56	17	39.9	12.1
V53	2980	112	45	37.6	15.1
V58	1232	65	19	52.8	15.4
V65	656	37	12	56.4	18.3
V66	883	35	17	39.6	19.3
V68	787	36	11	45.7	14.0
V69	1099	41	13	37.3	11.8
V70	670	28	9	41.8	13.4
V71	379	14	8	36.9	21.1
V73	726	27	7	37.2	9.6
V74	1194	56	20	46.9	16.8
V75	380	12	9	31.6	23.7
V76	1444	75	27	51.9	18.7
V78	238	14	1	58.8	4.2
V79	304	13	8	42.8	26.3

(continued)

Appendix B (cont.)

Mid-year Population, Births, and Deaths by Village, 1985

Village code	Population	Live births	Deaths	Birth rate	Death rate
V80	1015	49	14	48.3	13.8
V90	1066	42	11	39.4	10.3
V95	915	35	16	38.3	17.5
V96	514	22	5	42.8	9.7
V97	412	24	6	58.3	14.6
V98	202	6	1	29.7	5.0
V99	643	30	5	46.7	7.8
VB1	1051	33	18	31.4	17.1
VB2	883	36	10	40.8	11.3
VB3	2641	123	24	46.6	9.1
VB4	2529	103	31	40.7	12.3
VB5	733	21	8	28.6	10.9
VB6	373	20	9	53.6	24.1
VB7	185	9	4	48.6	21.6
VB8	986	40	12	40.6	12.2
VB9	77	1	0	13.0	0.0
VB10	1488	66	19	44.4	12.8
D28	1108	42	25	37.9	22.6
D29	166	8	6	48.2	36.1
D30	697	33	13	47.3	18.7
D31	1059	58	16	54.8	15.1
D32	581	30	5	51.6	8.6
D33	989	42	14	42.5	14.2
D34	1295	57	18	44.0	13.9
D35	666	24	4	36.0	6.0
D88	1962	68	28	34.7	14.3
D89	614	26	11	42.3	17.9
D90	2529	112	43	44.3	17.0
D91	712	22	4	30.9	5.6
D92	323	1	1	3.1	3.1
D93	756	35	17	46.3	22.5
D94	975	54	16	55.4	16.4
D95	342	14	3	40.9	8.8
D96	246	12	4	48.8	16.3
D97	644	24	4	37.3	6.2
D98	2672	100	32	37.4	12.0
D99	1913	88	22	46.0	11.5
COMPARISON AREA	95082	4038	1346	42.5	14.2

Note: Total population reported in this table is slightly higher than in earlier tables. Discrepancy in identification numbers for 114 individuals could be sorted out at this stage. Implication of this update on rates and ratios is indeed negligible.

Appendix C
Life Table Equations

$$1. \quad {}_nq_x = \frac{{}_n m_x}{\frac{1}{n} + {}_n m_x \left[\frac{1}{2} + \frac{n}{12} ({}_n m_x - \ln C) \right]}$$

$$2. \quad l_0 = 100,000$$

$$l_x = (1 - {}_nq_{x-1}) l_{x-n}$$

$$3. \quad L_0 = 0.276l_0 + 0.724l_1$$

$$L_1 = 0.410l_1 + 0.590l_2$$

$$L_i = \frac{1}{2} (l_i + l_{i+1}), \quad i = 2, 3, 4$$

$${}_nL_x = \frac{{}_n d_x}{{}_n m_x} \text{ for } 5 \leq x \leq 80$$

$${}_{\infty}L_{85} = \frac{l_{85}}{{}_{\infty}m_{85}} \text{ for the last age group } 85+$$

$$4. \quad e_x = \frac{T_x}{l_x} \text{ where } T_x = \sum_{y=x}^{\infty} L_y$$

Note: Greville's method, as suggested in Shryock, H.S., Seigel, J.S., and Associates, The Methods and Materials of Demography (revised), U.S. Dept. of Commerce, Bureau of the Census, 1975, Vol. II p.414 and pp. 444-5.

(ln C assumed to be 0.095; separation factors in Equation 3 correspond to an infant mortality rate of 100.)

Appendix D

STAFF OF THE DSS - 1985

Matlab Field Station

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Mr. A.F.M. Aminul Islam Khan
Mr. K.J.M. Mannan Pathan
Mr. A. Rashid Miah
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Mr. Md. Serajul Hoque
Mr. Md. Ismail

Recorders:

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Ms. Shahana Ahmed, HA

Health Assistants:

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Mr. Md. Mozammel Hoque
Mr. Md. Golam Hossain
Mr. Aftekharuzzaman
Mr. Mr. Nazir Ahmed
Mr. Mr. Md. Abul Kashem
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Mr. Mr. Md. Shahidur Rahman
Mr. Paresh Ch. Chakraborty
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