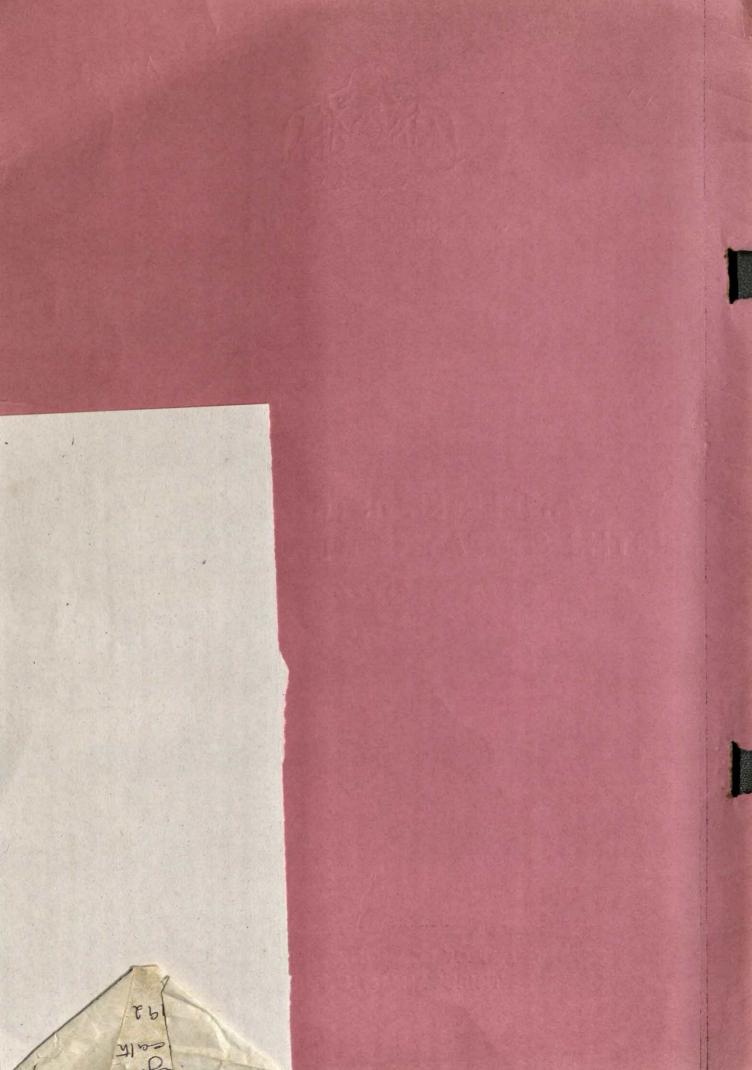
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GOVERNMENT OF KERALA

SAMPLE REGISTRATION OF BIRTHS & DEATHS IN KERALA (Rural) 1992



Report



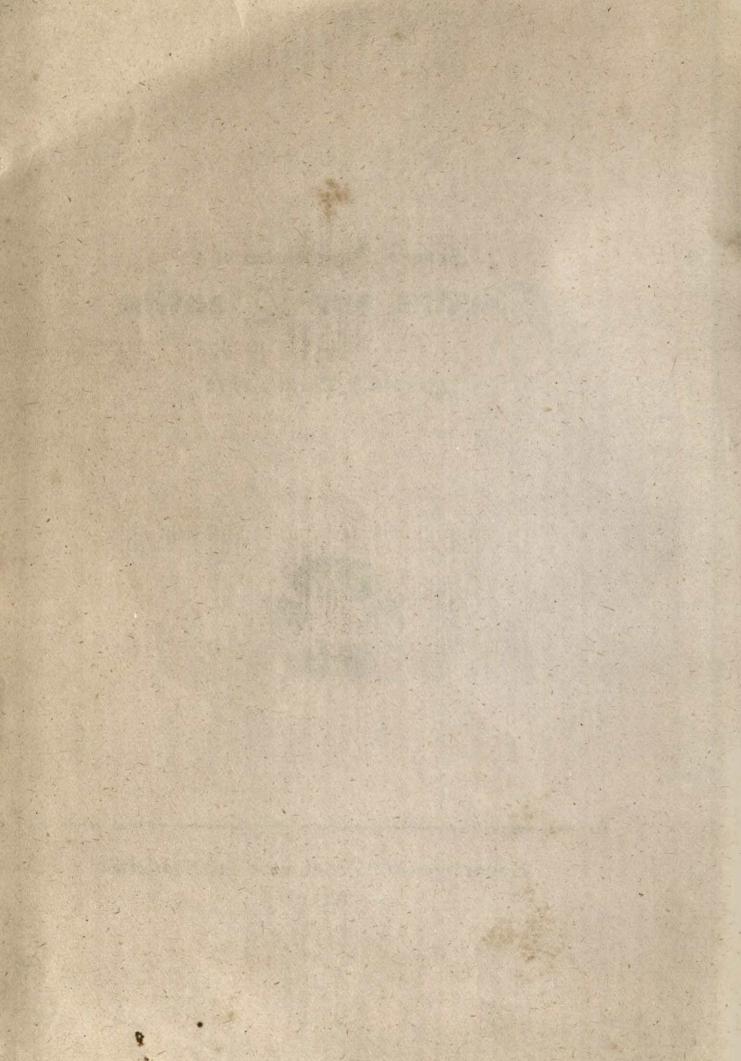
Sample Registration of

# Births and Deaths

in Kerala ( Rural ) 1992



Department of Economics and Statistics Kerala



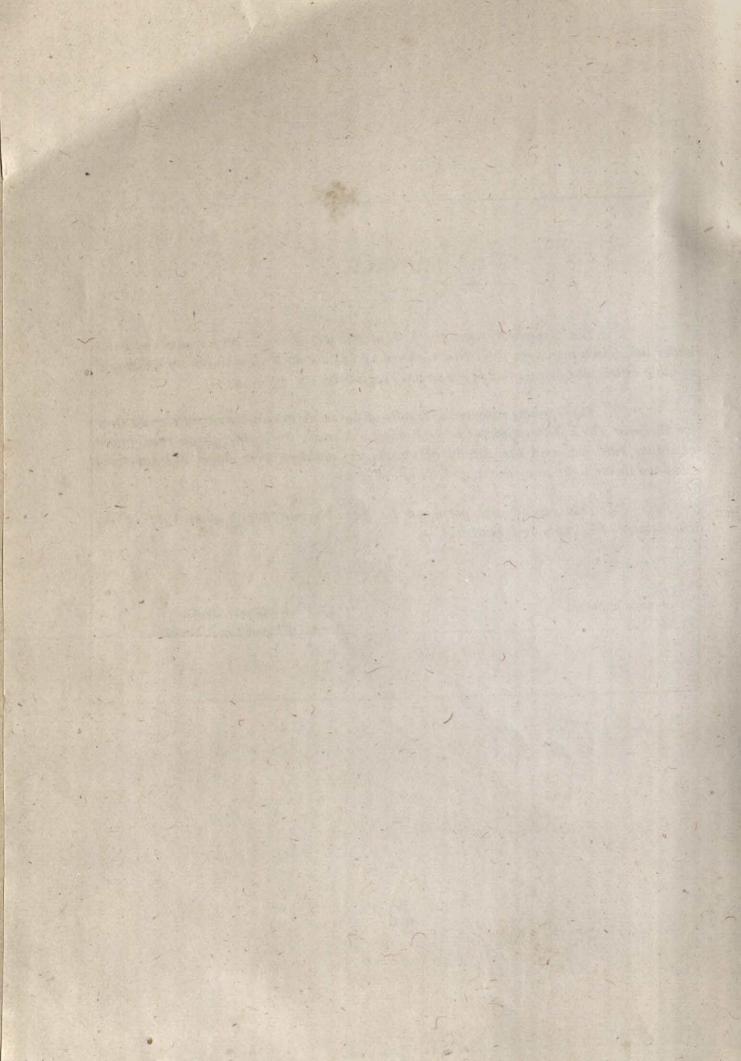
### PREFACE

The Sample Registration System was introduced in all the states of India under the directions of the Registrar General of India with a view to obtain quick and reliable estimates of vital rates in the country regularly.

This report presents the results of the study in rural areas of Kerala state for the year 1992. The estimates of vital rates viz crude birth rate, death rate, infant mortality rate etc. and the details of marriages, children ever born and surviving obtained through the study are included in this report.

This report was prepared by the Sample Registration Unit of the Directorate of Economics & Statistics.

Thiruvananthapuram 06..12..1996 U.Thomas Sleeba
Director of Economies & Statistics.



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## SAMPLE REGISTRATION OF BIRTHS AND DEATHS IN KERALA (RURAL) - 1992

#### CHAPTERI

#### INTRODUCTION

The Sample Registration System, as a dual record system provides reliable vital rates at the national and State level seperately for urban and rural areas. The insufficiencies in Civil Registration System have made the Sample Registration System as a unique technique for obtaining reliable vital rates. The Department of Economics & Statistics and the Census Department are the implementing agencies of the study in the rural and urban sectors respectively of the State as per the directions from the Registar General of India. This report is based on the findings of the operation of the Sample Registration System in the 150 samples selected in the rural sector for the year 1992.

The Sample Registration System was introduced in the State during the year 1964-'65 as a pilot project in 20 rural and 5 urban sample units. The full fledged scheme was introduced on a regular basis by extending the survey in 150 rural samples in the state on 1st July 1965. The sample originally selected were retained up to the year 1982. Out of the 150 rural samples, 75 samples were replaced in the year 1982 and the remaining 75 sample units by the year 1983. The stratified simple random method was used for the selection of rural sample units, the stratum being the Census village which were classified into 4 types according to population of 1981 Census such as below 500, 500-999, 1000-1999 and 2000 and above in the two regions of the stste namely northern region consisting of northern districts beyond Thrissur and southern regions consisting of the remaining districts from Thiruvananthapuram to Thrissur. The allocation of the samples in different state was in proportion to the population of each stratum to the total population. The number and population of the samples selected for the study and the total number and population of Census villages in each stratum are given in Table 38 appended to the report.

#### 1.2. Staff engaged in the Survey

The registration of all births and deaths occured in each sample was carried out by 150 part-time enumerators appointed for the purpose and the details were reported to this office in each month. The half yearly surveys in these 150 selected samples were conducted by 16 statistical assistants/computors deputed from the census department. The additional District Officers of their department in each district supervised the field work and conducted the reverification of the unmatched and partially matched events. At the state Head Quarters one Regional Officer, one research Assistant, one computer from census department and a compiler attended the Sample Registration work

#### 1.3 Field work

A base line survey was conducted at the outset in all the 150 sample units to identify and find the resident population. The births and deaths occuring in these units for the resident population were registered by the part-time enumerators on a regular basis through informants and house visits and the details reported to the district office and state Head Quarters for each month. The Computer Supervisor/Statistical Assistants conducted the half yearly survey for updating the population and collected the details of births and deaths occured in each sample. These two sets of data collected independently by the enumerator and the supervisor were matched at the district head quarters to identify the unmatched and partially matched events. The additional district officer in the district offices conducted re-verification of these unmatched and partially matched events and then finalised the results an I forwarded to the State Head Quarters. These results were subjected to further scrutiny in the State head Quarter and one copy of each of the birth, death and population statement containing the details were forwarded to the Registrar General of India for computation of vital rates.

#### 1.4 Overlapping Survey

The supervisors while conducting the half yearly survey, collected the details of births and deaths occured during the previous half year also to find out the missed events if any which the enumerators as well as the Supervisors had failed to record. Thus 128 births and 16 deaths were detected during the year as the events for the extended reference period.

#### 1.5 Intensive Enquiry

An intensive enquiry in all the households of the samples was conducted in 28 units identified as deficient (19 units identified by the Registar General of India and 9 units by the Directorate) by the Additional District Officers of this department for the year. Through this enquiry, one extra birth was detected for the year 1992.

#### CHAPTER II

### 2.1 Population and its Growth

The rural population of Kerala was estimated as 2,31,55,934 on 1-7-1992 and as 2,33,31,390 on 1-1-1993 recording a decrease of 0.11% during the second half of 1992 as against 0.26% recorded for the corresponding period of 1991. When analysing region wise, the northern region recorded 4.9% increase and suthern region recorded 0.5% decrease in the second half of 1992. The corresponding variation in the previous year was 0.4% decrease in northern region and 0.1% decrease in the southern region. The mid year population showed 0.03% decrease over that of the previous year. There was an increase of 1% in the population for 1990 and 1991.

## 2.2 Sex ratio and Percentage Distribusion of Population by Age-Group

The sex ratio and percentage distribusion of population for different age group for the years 1981,1991 and 1992 are presented in Table 5. The sex ratio is seen increased from 1057 in 1991 to 1067 in 1992. In the southern region the sex ratio was 1060 which is lower than the northern region where the ratio was 1077. The children below the age of 14 comes 29.6 % of the rural population during 1992 were as in the previous year the corresponding percentage was 30.

## 2.3 Religion wise Population (Mid year)

The population when classified according to 3 major religions showed that 57.2 % was Hindus, 21.6 % was Muslims and 21.2 % was Christians. The corresponding figures for the previous years were 57.4, 21.1, 21.5. The estimated religion wise population is given in Table 6.

#### CHAPTER III

### 3.1 Measures of Fertility

The number of live births per 1000 mid-year population is defined as the crude birth rate. This is the common measure of fertility. The births to the usual residents of the area were only taken into account for the calculation of vital rates.

The crude birth rate of Kerala (rural) was estimated as 17.56 which was less by 0.81 percent than the previous year. When comparing the birth rates of northern and southern regions, the birth rate of northern region was higher than that of south by 3.39 percent. The birth rate of north was estimated as 19.51 and that of south as 16.12. In 1991 these rates were 20.62 and 16.69 respectively for north and south regions. The birth rate among rural population of Kerala and India for the years 1983 to 1992 are given below in table A1. The birth rate showed decreasing trend continuously. The birth rate for the year 1992 was lower by 0.8 % than the previous year. The region wise figure showed 1.1 % and 0.6 % decrease over the previous year for north and south.

Table A1 re Crude birth rate for Kerala (rural) and India (rural) for the year 1983 to 1992

OF SCHOOLSES		Kerala(rural)	and the time property	Amount and A
Year	Northern region	Southern	Total	India(rural).
1983	29.3	19.5	23.5	35.3
1984	28.5	20.3	23.7	35.3
	27.2	20.4	23.2	31.3
1985	27.0	19.4	22.6	31.2
1986	24.6	19.2	21.5	33.7
1987	23.2	17.6	19.9	33.1
1988	22.7	18.4	20.2	32.2
1989	22.0	17.9	19.6	31.7
1990		1 16.7	18.4	30.9
1991	20.6	, 16.1	17.6	30.9

## 3.2 Birth rates of neighbouring States

The estimated birth rates for the rural area and the combined estimate for rural and urban areas of Kerala and its neighbouring states and all India for the year 1991 are given in table A2

Table A2 Birth rates of neighbouring states and all India for 1992

Rural	Rural and Urban Combined
25.1	24.5
	26.3
	20.7
	17.7
	29.2
	25.1 27.4 21.1 17.6 30.9

Source - Registrar General of India

Comparing the birth rates in rural areas, Kerala recorded the lowest birth rate (17 6) where as the highest birth rate is recorded in Karnadaka (27.4). The birth rate in all these states showed a decreasing trend. But when taken the whole of India (rural), the birth rate remains the same as in the previous year (30.9).

#### 3.3 Birth rates by religion

The birth rates among the three major religions in the state viz Hindu, Muslim and Christian in rural areas of the state for the year 1992 seperately estimated for northern and southern regions are given in table 19 appended.

When compared to the previous year the birth rate among Hindus and Christians showed a decreasing trend where as 0.1 % increase was noted in the birth rate among Muslims. The estimated birth rates were 15.5, 25.7 and 14.8 for Hindus, Muslims and Christians respectively. The corresponding rates for 1991 were 16.4, 25.6 and 16.6. As before the birth rate was highest in the Muslim community (25.7) which forms 21.6 % of total rural population. The Hindus consisted 57.2 % and the Christian consisted 21.2 % of the total population. When analysing region-wise the birth rate among Muslims was highest in both southern (24.7) and northern (26.2) regions. The lowest birth rate was recorded among Christians, 14.7 in the southern and 15.2 in the northern regions. The estimated number of religion-wise and region-wise births and deaths are given in table 20 appended.

#### 3.4 Distribution of Sample Villages under different rates

The distribution of sample villages by crude birth rate for the years 1990, 1991 and 1992 is presented in Table 17 appended. The birth rate for the state (17.6) found place in the group for which the birth rate is between 16 and less than 20 as in the previous years while analysing sample wise birth rate 32 (52.5%) samples of northern region and 76 (85.4%) samples of southern region had birth rate below 20. The highest birth rate 32.8 % and the lowest birth rate 6.9 % were recorded in one sample each on the northern region. As before, the birth rates in the rural samples of northern region were comparatively higher than those of southern region. It was seen that 9 sample units in the southern region and 6 sample units in the northern region had birth rates below 12 %. The birth rate among northern samples ranged from 7 to 33 where as in the southern region it ranged from 8 to 29.

#### 3.5 Age Specific fertility rate

Age-Specific fertility rate can be defined as the number of live birth in an year to 1000 women of a specific age-group. Age-specific fertility rates for the year 1992 are given separately for two regions in table 9 appended. With a view of comparison the age-specific fertility rates for the last 10 years are furnished below in table A3.

Table A3	
Age-Specific fertility rate in Kerala (rural) for the year	1984 to 1992

	1984	1985	1986	1987	1988	1989	1990	1991	1992
Age-Group		33.7	36.7	31.3	28.1	26.8	26.4	25.2	22.4
15-19	34.5	Mr. Barrier	166.1	171.6	153.1	156.3	151.9	141.6	145.9
20-24	179.2	177.0	147.1	140.0	128.2	134.9	€ 134.2	125.2	114.5
25-29	168.0	155.4	67.5	55.1	57.2	54.1	50.1	47.5	43
30-34	74.6	73.0		24.4	24.1	19.9	14.7	15.1	12.:
35-39	35.8	29.6	27.4	7.2	6.3	6.6	5.8	4.7	2.
40-44	14.1	14.2	11.2		3.0	1.9	1.0	0.5	0.
45-49	4.0	1.8	2.9	2.1	3.0	1.7	1.00	Same No.	

## 3.6 Age Specific marital fertility rate

Age specific marital fertility rate can be defined as the number of live births in an year to 1000 married women of specific age-group. Table 9 appended gives the age specific marital fertility rate for the year 1992. The age group of 20-24 recorded the highest marital fertility rate (274.9). In the previous year also the same age group recorded the highest marital fertility rate (272.1).

## 3.7 Number of surviving children and children ever born in different age group

The religion wise number of ever born and surviving children to currently married women in different age group from 15-19 to 45-49 is given in table 10 and table 11 appended. Table 12 given the distribution of currently married women observed in sample according to age of mother and age of last child. It was observed that 7 % of the mothers came under the age group 15-19 and 93 % of these mothers had atleast one child surviving. In the previous year the corresponding percentages were 7 and 91 respectively. In the age group of 20-49 at least one percent of mothers have 7 children or more alive. When distributed religion wise 50.6 % mothers were Hindus 31.8 % mothers were Muslims and 17.6 % mothers were Christian in the age group 15-49.

### 3.8 General Fertility rate (G.F.R)

The number of live births in an year to 1000 women in the reproductive age group 15-49 is defined as the General Fertility Rate. The General Fertility Rate for the two regions seperately for the year 1991 and 1992 are given below

Degions 1991	1992
Regions 1991	70.0
Northern Region 52.0	55.6
Southern Region · 57.8 State 64.8	61.6

## G.F.R for the years 1983 to 1992 are shown below

275				the test of the			1 4000	Liona	1001	1002
Vann	1083	1984	1985	1986	1987	1988	1989	1990	1991	1116
1 Call	1703	1701		21.0	77.4	715	722	60 8	648	61.6
GFR	871	1 87.5	84.4	0.18	11.4	11.3	12.2	02.0		

### 3.9 Total Fertility Rate (T.F.R)

Total fertility rate denotes the average number of children that whould be born to a women during her life period; if she was to pass through the child bearing years conforming the age specific fertility rates of the year. The total fertility rate for the two regions for 1991 and 1992 are given below.

Region	Year 1991	Year 1992
	2.09	1.96
Northern Region'	1.58	1.52
Southern Region	1.79	1.71
State	1.77	

The total fertility rate of Kerala showed a decreasing trend for the period from 1983 to 1992. The rates are given below

				Market Land	Nie Cale Sail		1	1	Linot	11002
Vann	11083	1084	1985	1986	1987	1988	1989	1990	1991	1772
Year	1703	1701	1	22	22	20	2.0	1.9	1.8	1.7
T.F.R	2.6	2.6	2.4	2.3	2.4	2.0	2.0			

## 3.10 Gross Re-production Rate (G.R.R)

Gross re-production rate is defined as the average number of female children that whould be born to a women during her life time; if she was to pass through her child bearing years conforming to the age-specific fertility rate of the year. The Gross Re-production rate of Kerala for the years 1983 to 1992 are given below.

				Maria Paris	PART TO SERVE TO	WENE YOU		Bur Crassian Co.	Lunt	11002
Year G.R.R	1092	11094	11085	1986	1987	1988	1989	1990	1991	1972
Year	1983	1709	1707	1		10	0.053	0.92	0.92	0.82
GRR	1.2	1.3	1.2	1.1	1.1	1.0	0.75	0.72	1	The same of the sa

## 3.11 Net Re-production rate (N.R.R)

Net re-production rate is the average number of female children that whould be born to a women during her life time conforming to the age-group by corresponding proportion of survivers as per life table for female (Lx/lx) and then repeating the process as in the Gross production rate. Net re-production rate for the years 1983 to 1992 are given below.

		9 3 5 7	DESCRIPTION OF				1 1000	1 1000	1001	1 1992
Year	1083	1984	1985	1986	1987	1988	1989	1330	1371	1772
Year N.R.R	1705	1.04	1.20	1.00	1.05	1.00	0.95	0.91	0.91	0.81
N.R.R	1.15	1.26	1.20	1.07	1.05	1		Section 2		

## 3.12 Still Birth Rate (S.B.R)

Still Birth Rate is the number of still births to 1000 births (both live births and still births). The still birth rate was estimated as 10.3 for the year as against 9.9 for the previous year. Still birth rates for Northern and Southern regionswere estimated as 15.8 and 5.3 respectively. The still birth rate was 0.4% higher than that of the previous year.

The percentage distribution of births by agr of mother and order of birth of child is given in table 3.13 Order of birth by age of mother 16 appended. The first and second order births forms 81% of the total births and third order birth comes to 12.4%. The corresponding precentages for the previous years were 82.8 and 9.9 respectively. The percentage of birth under seventh order and above was the same as in the previous year ie 1%.

3.14 Birth by type of medical attention received The percentage distribution of of births by type of medical attention received at the time of delivery for the years 1983 to 1992 are given below in table no. A4.

(Prcentage distribution of births by type of medical attention received for the period from 1983 to 1992)

Year	Institutional	Trained Professional	Untrained professional	Non Professional	Not Stated
	2	3	13.1	1.9	0.2
1983	68.9	16.1	13.6	3.7	0.2
1984	73.3	9.2	12.8	2.2	0.1
1985	76.5	8.2	9.7	3.7	0.1
1986	80.2	6.3	9.2	0.6	0.2
1987	82.5	7.7	7.9	2.0	$-\frac{0.2}{0.1}$
1988	83.1	6.8	6.8	1.5	0.3
1989	86.0	5.6	5.6		0.1
1990	89.1	3.6	4.9	1.2	0.
1991	91.1	2.7	3.2	0.4	0.
1992	94.5	1.8		ar 1992 as against	91.1 %

About 94.5 % of births took place in medical institutions in the year 1992 as against 91.1 % in the previous year which showed that the number of people utilising the institutional facilities provided for maternal and child health increasing every year. The distribution of number of births by various medical attention received is given in table 15 appended. The facilities in the medical institutions were utilised by 97.2 % of the people of southern region where as in the northern region the percentage of the users were 91.7. The corresponding percentage in the previous year were 99.1 and 82.7. The services of the untrained personal were availed by 3.2 percent of the people which is higher than those who availed the services of trained personal (1.9). The corresonding figures for the previous year were 4.9 and 2.7 respectively.

The number of male children born to 1000 female children is defined as the sex-ratio at birth. The 3.15 Sex-ratio at birth sex ratio at birth for the years 1983 to 1992 are given below.

year	1983	1984-	1985	1986	1987	99.3	111.3	109.3	96.5	10
Sex ratio at birth	THE SECOND	Alt Table	Total S	1000	100 500	R. B.	08.2 and 1	09.5 tesp	ectively	s aga

Sex ratio at birth in northern regions and southern regions were 108.2 and 109.5 respectively as again 103.4 and 90.6 in the previous year.

Sample Registration of Births and Deaths in Kerala (Rural) 1992

#### 3.16 Child Women Ratio (C.W.R)

of Child Women Ratio is defined as the estimated numbers of children in the age group (9-1) years 1.8 per 1000 women in the reproductive age group (15-19).

The rate of marriages and re-maining of partiages partiages of marriages according to age ans sex are firled in table 34 (chick the males (59.3) was in the age group 20-24 and that for males (59.3) was in the age group 25-29. In the previous year the corresponding rates well daying ages 1.01168(despectably) gitally and warrabilities.

which were higher than the	mend by T.	WELL 35.5	1 55-05 Bin	m (1-21-m	Payer Percent	eli ese unios	not grionin	eougiment
eat 1-05 491983 age \$984i 20-14e	# D85m 10	1986 sets	01987 ste	1988	1989	1000	699d mes	992 mg
With the man off were New York	and the same	018000750 1 1	0 100 1/5	ilo3dfor	0 368	vd 68255	10/13 52av	0c346bm
.W.K. 460 370	377	70000	Office and a	TODORY THOUSE	second male a	2 707 E	maniana ma	Carolina Comment

3.17 Comparison of Vital rates under sample registration system

Registration System

Civil Registration System is the statutory system of recording the degrils of all births and deaths occuring in the state. While comparing the vital rates obtained under these two systems it is seen that the birth rate obtained through Civil Registration Systemis lower than that obtained from Sample Registration system. The reason may be that a considerable number of births and deaths are left unregistered under Civil registration System. The birth rates and still birth rates arrived from the data collected through sample Registration System and Civil Registration System for the year 1983 to 1992 are given in table A5. The vital rates calculated from the data on Civil Registration system showed that the rates were very high in irban area compared to rural area of the state. As in the past a good number of resident population in rural area are seen registered in orban areas of the state under Civil Registration System.

TABLE A5

<u>Vital Rates under Civil Registration System and Sample Registration System in Kerala(Rural) for the years</u>

<u>from 1983 to 1992</u>

Year	Birth R	ate	Still Birt	h Rate
T Cit	Civil Registration	Registration	Civil Regiatrition	Sample Registration
1983	14.3	23.5	* 3.9	13.5
1984	13.8	23.7	4.9	10.5
1985	14.7	23.2	3.9	13.3
1986	13.5	22.6	2.9	14.0
/1987	13.2	21.5	2.9	11.1
1988	13.0	19.9	21	11.7
1989	12.6	20.2	3.1	10.6
1990	11.6	19.6	4.5	. 8.6
1991	10.8	18.4	3.7	6.2
1992	9.6	17.6	3.0	10.3

A Control of Charles Superire partition the perfect program of

## 3.18 Rate of marriage per 1000 population and percentage distribution according to age and sex

The rate of marriages and re-marriages per 1000 population and percentage distribution of marriages according to age ans sex are given in Table 34 appended. The highest rate of first marriage (63.7) in the case of female was in the age group 20-24 and that for males (59.3) was in the age group 25-29. In the previous year the corresponding rates were 59.3 and 58.9 in the respective age groups. The rates of marriages among females in the age group 15-19 and 20-24 were 32.2 and 63.7 which were higher than the previous year by 0.6 and 4.4 respectively. among males also the rates of marriages in the age groups 20-14 and 25-29 were increased by 2.1 and 0.4 respectively. Out of the total marriages 1.8% marriages were remarriages as against 2.6% for the previous year. The mean age of marriage for men was 27.9 and for women was 22.6. The corresponding figures for the previous year were 27.8 and 22.3 respectively.

#### CHAPTER 4

## MORTALITY MEASURES

#### 4.1 Crude death rate

The number of deaths per 1000 mid year population is taken as the crude death rate. The death occurred to the usual resident population were considered for calculating the death rate as for the birth rate. The crude death rate for the year in kerala (rural) was 6.3 as against 6.2 in the previous year. The death rate in Northern Region was 5.6 and that for southern Region was 6.7. The crude death rate for Kerala (rural) and all India(rural) for the year 1983 to 1992 are given in Table B1 below.

TABLE BI
Crude death rates in Kerala Rural and all India Rural for the year 1983 to 1992

	I Madam Danion	Southern Region	Combined	All India
Year	Northern Region	6.2	-6.6	13.1
1983	7.2		6.1	13.8
1984	6.9	6.0	6.6	13.0
1985	6.8	6.1	6.0	12.2
1986	6.0	6.1	6.1	12.0
1987	6.1	6.1	6.3	12.0
1988	6.2	6.3	6.1	11.1
1989	6.0	6.1	6.0	10.5
1990	5.7	6.2	6.2	10.6
1991	5.8	6.5		10.9
1992	5.6	6.7	6.3	

## 4.2 Death Rates of neighbouring states

The death rates in rural area and rural and urban combined provisionally for the year 1992 by the Registrar General of India in respect of the neighbouring states and all India are given below in Table B2

TABLE B2

Death rates of neighbouring states and All India

X I I I I I I I I I I I I I I I I I I I	Rural	Rural and Urban combined
State	10.1	9.2
Andhra Pradesh		8.5
Karnataka	9.4	8.4
Tamil Nadu	9.2	63
Kerala	6.3	10.1
All India	10.9	18318/18/19/19/20

Comparing the death rates in rural areas of the neighbouring states Andhra Pradesh recorded the highest death rate(10.1) while Kerala recorded the lowest death rate(6.3) for the year.

### 4.3 Death rate among different religious groups

The death rates among the three major religions viz Hindu, Muslim and Christian are given in Table 19 appended. The lowest death rate (4.5) was recorded among the Christians of Northern region and the highest death rate (7.0) was recorded among the Christian of Southern region for the rural area of the State. The corresponding rates for thr previous year were 3.9 and 7.1 respectively. When the State as a whole is concerned (rural) the highest death rate was recorded among Christians(6.6) and the lowest among Muslims(5.5). When compared with the rates of previous year the death rates among Hindus (6.4) and Christians(6.6) were not changed whereas the death rates among Muslims changed from 5.2 to 5.5 in the current year.

#### 4.4 Age specific death rate

Age specific death rate is the number of deaths in a specific age-group among 1000 persons of that age group in an year. The age -specific death rates for different age groups according to region and sex are given in Table 24 appended. The age group 70 and above denotes the highest death rate (86.4) and the lowest rate (0.6) in the age group 10-14. In the previous year these rates were 89.4 and 0.3 respectively. Between the two regions the death rate in the age -group 70 and above was comparatively high in Northern region (99.2) than the Southern region (81.0) in the current year as in the previous year. The corresponding rates for 1991 were 99.1 and 89.4 respectively. Similarly the death rate among males in the same age group (99.5) was higher than that of females (75.9). In the previous year these rates were 100.5 and 80.3 respectively. When compared with the current year's death rates in the age group of 70 and above, the death rate of males was decreased from 100.5 to 99.5 and that of females the death rate decreased from 80.3 to 75.9. The death rate among children below one year was 16.3 as against 16.6 in the previous year. The death rates in the above age group among males and females were 21.1 and 11.5 in the current year and 20.7 and 12.1 in the previous year respectively

#### 4.5 Infant Mortality Rate

The infant mortality rate is defined as the estimated number of deaths of children below one year of age out of 1000 live births in an year. The estimated number of infant deaths and infant mortality rates in kerala (rural) according to sex and region are given in Table 28 appended. The infant mortality rates of Kerala for the year 1983 to 1992 are given below.

1983	1/1984	1985	1986	1987	1988	1989	1990 -	1991	1992
				27.0					

The infant mortality rate in Northern and Southern regions were 18.3 and 15.8 respectively against 20.3 and 13.3 in the previous year showing a decrease of 2.0 in the North and an increase of 2.5 in the south.

#### 4.6 Neo natal mortality rate

Neo natal mortality rates is defined as the estimated number of deaths of infants below 28 days of age per 1000 live births in an year. Neo natal mortality rate was calculated as 12.8 as against 10.0 in the last year.

#### 4.7 Peri-natal mortality rate

Peri-natal mortality rate is defined as the estimated number of deaths of infants below 7 days of age per 1000 live births in an year. The peri-natal mortality rate was calculated as 10.2 where as in the previous year the corresponding rate was 7.2. The peri-natal neo-natal and infant mortality rates according to sex and region are given in Table B3 below.

Peri-natal, Neo-natal and infant mortality Rate -1992

		45 15 10 120		M	lortality rate					
Region	PER LUNIO	Peri-natal			Neo-Natal			Infant Mortality Rate		
	M	/ F	Total	M	F	Total	M .	F	Total	
19878	2	3	4	5	6	7	8	9	- 10	
dorthern	12.1	6.4	9.3	16.3	10.4	13.5	22.3	14.1	18.3	
Southern	14.0	7.6	10.9	15.5	8.5	12.2	20.2	11.0	15.8	
State	13.1	7.0	10.2	15.9	9.4	12.8	21.2	12.5	17.0	

## 4.8 Distribution of samples according to death rate of each sample

Table 27 appended gives the distribution of samples according to death rates for 1992 and for the previous two years. During the year under report 47 units of northern region (77.0%) and 51 units of louthern region (57.3%) recorded death rate below 7 whereas in the previous year the corresponding rates were 70.5% and 59.5%. When both the regions are combined 65.3% sample units recorded death rate pelow 7. The highest birth rate (14.1) was recorded in one sample in the Northern region The lowest death rate was reported one sample in the Southern region(2.1).

#### 1.9 Medical attention received before death

The percentage distribution of deaths according to medical attention received before death during the years 1983 to 1992 is given in table 134 given below.

Percentage distribution of deaths according to type of medical attention received for the year 1983 to 1992

Year	Institutional	Qualified Medi- cal Practitioner	Unqualified Med- ical Practitioner	None
	2	3		5
1983	46	26	13	15
1984	46	2.4	8 3	22
1985	49	23	11	17
1986	49	27	6	18
1987	47	28	7	18
1988	42	32	7	19
1989	43	31	6	20
1990	47	36	7	10
1991	45	35	5	15
1992	5.1	29	4	13

It can be seen that about 87% of the prsons were received some kind of attention before death in the current year. The corresponding percentage for the previous year was 85.

## 4.10 Comparison of mortality rates under civil registration system and Sample registration system for the years from 1983 to 1991

Year	Deat	li Rate	Death Rate Infant Mortality Rate			
	Civil Registration	Sample Registration	Civil Registration	Sample Registration		
1983	3.6	6.6	11.3	38.9		
1984	3.6	6.4	9.1	30.1		
1985	4.0	6.6	9.1	33.0		
1986	3.9	6.0	8.0	28.6		
TART	e p	61	12	270		
1988	4.1	16.3 4	7.3	29.9		
1989	4.2	6.1	8.2	23.3		
1990	4.1	6.0	8.1	17.1		
1991	4.3	6.2	7.5	16.6		
1992	4.5	6.3	5.2	17.0		

As in the previous years the vital rates in the death rate and infant mortality rate, estimated under Civil Registration system are seen less than that of the rates arrived through Sample Registration system. The low Mortality rate under Civil Registration system may be due to the fact that a considerable number of births and deaths of the resident population inrural area are registered in urban area where they seek better medical attention.

### 4.11 Expectation of life based on age specific death rates for the last three years

Expectation of life in different age group is calculated in the life tables. Table no. 36,37,38 appended to this report. The life tables are prepared sex-wise and population wise seperately based on age specific death rates for the years 1990,1991 and 1992. The expectation of life at birth for males, females and for both sex together were calculated as 67.9,74.8 and 71.2 as against 68 1,74.7 and 71.3 respectively in the previous year. Expetation of life of females is seen always higher than that of males. The difference in expectation of life between male and female was 6.9 in the current year and 6.6 in the previous year. The expectation of life calculated for the last 10 years are given in Table B6 below.

Table B6 '
Expectation of life based on age specific death rates for the years 1983 to 1992

Age specific death rates for the years	Males	Lemales	Males and Females
1981,1982,1983	66.0	71.8	68.8
1982,1983,1984	66.5	73.4	69.7
1983,1984,1985	65.7	72.5	68.9
1984,1985,1986	66.9	72.8	69.7
1985,1986,1987	67.1	73.1	70.1
1986,1987,1988	67.0	73.5	70.2
1987,1988,1989	67.6	73.9	70.6
1988,1989,1990	67.9	74.7	71.1
1989,1990,1991	68.1	7.1.7	71.3
1990,1991,1992	67.9	7.1 8	, 71.2

## Method adopted for calculation of life tables

## mx = Total age specific death rates for the last three years 3 x 1000

q<sub>0</sub> = D1 + D2 where D1 is the number of deaths of children born during 1991 and died
B1 B2 in 1992. D2 is that of the children born and died in 1992. B1 and B2
denote the total number of births occurred during 1991 and 1992
respectively.

 $q_x = \frac{2 \times (Cx \times mx)}{2 + (Cx \times mx)}$  where C is the class interval  $Let l_0 - be 1,00,000$   $l_x = l_0 - d_0$ 

 $d_{x} = I_{x} \times q_{x}$ Let d70 =  $I_{70}$   $L_{0} = f \times I_{0} + (I-f) I_{1}$ 

x l<sub>0</sub> + (l-f) l<sub>1</sub> where f ... D1 +D2

 $L_{x} = \frac{|x + |x + 1|}{2} \times C$ 

L<sub>70</sub> = d<sub>20</sub> m<sub>70</sub> Let L70 be T70

 $T(70-1) = T_{70} + L(70-1)$ Expectation of life  $E_a = T_a$ 

See Sing

- Midyear estimated population, births, deaths and vital rates 1992

			pulation bir	th and death	1	- Littreman had	Vital	rates	5/28 - 18
Stratum	Populatio	Births	Deaths	Still	Infant	Birth	Death	Still	Infant
	n in	S. C. C. C.		births	death	rate	rate	birth	- death
		Thursday Mills		- 111/16				rate	rate
	2	3	4	5	6	7	8	9	10
IA	34972	504	353	0	0	14.41	10.09	0.00	0.00
_ B	196428	4122	1560	111	222	20.98	7.9.1	26.22	53.86
C .	942005	18239	5724	291	194	19.36	6.08	15.70	10.64
D .	8790228	171483	48315	£2722	3147	19.51	5.50	15.63	18.35
Northern	9963633	194348	55952	3124	3563	19.51	5.62	15.82	18.33
region									10.33
IIA	106733	1460	365	0	0	13 69	3.42	0.00	0.00
-B	337131	4420	1360	0	0	13 11	4.03	0.00	0.00
С	1455843	23712	11127	36.1	27.1	16 29	7.61	15 12	-
D	11492594	186285	77231	785	3138	16 21	6.72		11.56
Southern	13392301	215877	90086	1149	3412	16.12	6.73	4.20	16.85
region					3112	10.12	0.73	5.29	15.81
State	23355934	410225	146038	4273	6975	17.56	6.25	10 31	17.00

Table 2 - Sample Population and Estimated Population for each Stratum 1992

Stratum		ation in samples stratum	Observed population for each stratum			
	As on 1-7-92	As on 1-1-93	As on 1-7-92	As on 1-1-93		
I I	2	3	4	5		
11	69.1	681	34972	34468		
В	1763	1780	196428	198322		
C	9710	9675	942005	938610		
D	103340	103868	8790228	8835140		
Northern region	115507	116007	9963633	10006540		
II A	877	920	106733	111960		
B	1983	1977	337131	336111		
C.	15963	15831	1455843	1413804		
D	131839	131155	11492594	11.132969		
Southern region	150662	149883	13392301	13324850		
State	266169	265890		23331390		

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Stratum	Obs	erved Populatio	on	Estin	nated Population		
Stratum	Male	Female	Total	Male	Female	Total	
3/10/1	2	3	4	5	6	7	
李宏切了	339	355	694	17083	17889	34972	
IA	March Street Company of the Street Company o	910	1763	95039	101389	196428	
В	853	5056	9710	451503	490502	9.12005	
C	4654	53581	103340	4232562	4557666	8790228	
D	49759	59902	115507	4796187	5167446	9963633	
Northern region	55605	Co. U.S. Co. Co. Co. Co. Co. Co. Co. Co. Co. Co	877	53306	53427	106733	
IIA	438	. 439	1983	162700	174431	337131	
В	957	1026	15963	705440	750403	1455843	
C.	7735	8228	131839	5579495	5913099	11492594	
4 845 C D	64006	- 67833	150662	6500941	6891360	1339230	
Southern region	73136	77526	Control of the Contro	11297128	12058806	2335593	
State	128741	137428	266169	1129/120	120,70000		

Table 3 - Stratum wise Population according to sex 1992

Table 4 - Midyear Sample Population and estimated population according to age and sex 1992

Stratum	Obse	rved Population		Estimated Population				
Stratum	Male	Female	Total	Male	Female	Total		
	2	3	4	5	6	7		
1	2453	2426	4879	214488	213471	427959		
0-1	10925	10498	21423	955897	919458	1875355		
1-4	13037	13034	26071	1142127	1140081	2282208		
5-9	13423	13072	26495	1176738	1146227	2322965		
10-14	13544	13738	27282	1185965	1203533	2389498		
15-19	12858	15371	28229	1128349	1348089	2476438		
20-24	11532	13373	24905	1013321	1171879	2185200		
25-29	The second secon	10736	21085	907655	942789	1850444		
30-34	10349	9032	17505	743063	791713	1534776		
35-39	8473	7465	14402	610850	656396	1267246		
40-44	6937	6229	11960	504334	546848	1051182		
45-49	5731	5366	10312	434686	472438	907124		
50-54	49.16	4988	9382	386627	438958	825585		
55-59	4394	4000	7486	307355	352155	659510		
60-64	3486	The second of the second of	6034	244759	286022	53078		
65-69	2785	3249	8719	3.10914	428749	76966		
70 &	3868	4851	0117					
above		127.120	266169	11297128	12058806	2335593		
Total	128741	137428	200107	11277120	my management of the	1200		

Table 5 - Sex ratio and Percentage distribution of Population by age group (Years 1981, 1991 and 1992)

Age	19	81	19	91	19	92
Group	Sex Ratio	% populatio	Sex Ratio	% populatio	Sex Ratio	% populatio
1	2	3	_ 4	5	6	7
0-4	978	10.8	967	10-0-	968	9.9
5-9	975	11.5	991	9.7	998	9.8
10-14	984	12.8	963	10.2	974	9.9
0-14	979	35.4	974	30.0	980.	29.0
15-19	1092	11.7	1002	10.4	1015	10.2
20-24	1094	10.1	1203	10.9	1195	10.0
25-29	1086	8.1	1105	9.3	1156	9.4
30-34	1008	6.0	1055	7.8	1039	7.9
35-39	1089	5.5	1050	6.4	1066	6.0
40-44	1022	4.4	1074	5.3	- 41075	.5.
45-49	1035	4.6	1051	4.3	1084	4.
50-54	996	4.4	1102	3.9	1087	3.9
55-59	992	2.9	- 1142	* 3.5	1135	3.:
60-64	1039	2.7	1083	2.8	1146	2.1
65-69	1123	2.1	‡ 1202	2.2	1169	2.:
70 & above	1159	2.8	1214	3.2	1258	3.
Total	1034	100.0	1057	100.0	1067	100.0

Table 6 - Religion wise sample population and estimated population for each stratum

Stratum	all the later	Observed	Population	COSTO MA SOU		Estimated Population				
	Hindu	Christian	Muslim	Total	Hindu	Christian	Muslim	Total		
1	2	3	4	5	6	7	8	9		
11	390	182	122	694	19653	9171	6148	3497		
В	1285	12	466	1763	143171	1337	51920	19642		
С	4787	439	4484	9710	464406	42589	435010	94200		
D	59627	8341	35372	103340	5071946	709496	3008786	879022		
Northern region	66089	8974	40444	115507	5699176	762593	3501864	996363		
IIA	118	747	12	877	14361	90912	1460	10673		
В	1131	852	0	1983	192282	144849	0	33713		
C	8083	6695	1185	15963	737179	610591	108073	145584		
D	77125	38426	16288	131839	6723097	3349649	1419848	1149259		
Southern region	86457	46720	17485	150662	7666919	4196001	1529381	1339230		
State	152546	55694	57959	266169	13366095	4958594	5031245	2335593		

Table 7 - Stratum wise Live Births observed in samples and estimated according to sex 1992

Stratum	Obse	rved in samp	oles	Estimated				
	Male	Female	Total	Male	Female	Total		
	2	3	4	5	6	7		
1/	- 4	6	10	202	302	504		
B	. 15	22	37	1671	2451	4122		
C	104	8.1	188	10090	8149	18239		
D	1047	969	2016	89059	82424	171483		
Northern region	1170	1081	2251	101022	93326	194348		
II A	4	8	12	487	973	1460		
B	13	13	26	2210	2210	4420		
C	137	123	260	12494	11218	23717		
D	1120	1017	2137	97632	88653	186283		
Southern region	1274	1161	2435	112823	103054	21587		
State	2444	2242	4686	213845	196380	41022		

Table 8 - Estimated no. of total women, married women and live birth in different reproductive age groups 1992

Region	1 9 9 9 9		Age	: Group (	of women	And Spile		
Tropics.	15-19	20-24	25-29	30-34	35-39	40-44	45-49	Total
	2	3	4.4	5	6	7	8	9
A.Estimated No. of	10 10 10 10 10 10 10 10 10 10 10 10 10 1							
Total Women	The State		50			260111	222161	2775087
1. Northern Region	569710	564062	472037	375780	312903	258434		
2. Southern region	633823	784027	699842	567009	478810	397962-	324687	3886160
3. State	1203533	1348089	1171879	942789	791713	656396	546848	6661247
B.Estimated No.of						1		
Married Women					7/		1/2750	1798743
1. Northern Region	96396	357665	384868	320132	266303	210620	162759	
2. Southern region	32438	358032	532124	490645.	423562	342157	266626	2445584
3. State	128834	715697	916992	810777	689865	552777	4,29385	4244327
C.Estimated No.of Live	12.113	126.14						
Births					7070	1362	220	194348
1. Northern Region	198-16	94941	52590	19520	5869		87	215877
2. Southern region	7057	101686	81598	21253	3760	. 436		
3. State	26903	196627	134188	40773	9629	1798	307	410225
State (Female Births)	12113	94808	64843	19383	4297	766	170	196380

Table 9 - Age specific fertility rate, age specific marital facility rate
G.F.R, T.F.R and G.R.R

Region	alar dro		Age Gr	oup of We	omen		STATE IN	
Kegion	15-19	20-24	25-29	30-34	35-39	40-44	45-49	
	2	3	4	5	6	7	8	
A.Age Specific fertility				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		28.18		
rate	34.84	168.32	111.41	51.95	18.76	5.27	0.99	
1. Northern Region		129.70	116.59	37.48	7.85	1.10	0.27	
2. Southern region	11.13	145.86	114.51	43.25	12.16	2.74	0.50	
State (All Births)	22.35	70.33	55.33	20.56	5.43	7421,17	0.3	
State (Female Births)  B.Age specific marital	10.00							
fertility rate	205.00	265.45	136.64	60.97	22.04	6.47	1.3	
1. Northern Region	205.88		153.34	43.32	8.88	1.27	0.3	
2. Southern region State (All birth)	217.55	284.01	146.33	50.29	13.96	3.25	0.7	

12 7 12 2 N L 1 1 N A L	Northern Region	Southern Region	State
OCD	70.03	55.55	61.58
G.F.R	1.96	1.52	1.71
T.F.R	1.70		0.82
G.R.R			AMERICA STATES

Table 10 - Distribution of currently married women observed according to age, religion and number of surviving children 1992.

				No	of survivin	g children			
Age Group	Religio	1	2	3	4	j.	6	7 & above	Total
I	2	3	4	5	6	7	8	9	10
	11	128	3	2	0	0	0	0	133
15-19	М	147	14	1	0	0	0	0	162
15-17	C	- 11	2	0	0	0	0	U	13
	11	762	375	50	5	- 0	0		1193
20-24	M	323	282	101	14	2	0	/ 0	722
20-24	C	237	81	14	1	0	0	0	333
	11	319	346	115	18	4	, 0	0	802
		60	116	113	56	17	5	4	371
25-29	M		147	46	3	0	0	0	356
	С	160			12	4	2	2	192
	11 -	48	81	43		LUBERT ATT	14	7	152
30-34	M	17	23	33	34	2.1		0	121
	C	16	61	41	1	1	1		Design Control
	H	20	9	4	6	3	1	3	46
35-39	M	8	- 2	6	6	6	5	15	48
	C	1.1.1	2	6	3	2	7 1	2	17
	1 811	-0	i	0	1	0	0	0	2
40-44	M	0	3		1		0	9	15
40-44	C	0	0	1	2		0	0	1
	111	0	0	0	0	0	O	0	
45-49	M	0	0	0	0	0	0	2	
43-49	C	0	0	0	0	0	0	2	
Total	2 2	. 2257	1548	577	163	6.5	29	47	468

Table 11- Distribution of currently married women observed according to age, religion and number of ever born children 1992.

Group	Religio								
Group	Control of the last of the las		2	3	4	n childre	6	7 & above	Total
	n				6	7	8	9	10
	2	3	4	5	0	0	0	0	133
	11	128	3	2		0	0	0	162
5-19	M	147	14	1	0	1 19 1 1 1	0	0	13
5-17	C	11	2	0	0	0	2107	1	1193
	11	771	366	50	5	0	0	0	722
	M	314	291	101	14	2	0		
20-24	market and the second	237	81	14	1	0	0	0	333
	C		345	117	18	4	0	0	802
A STATE	11	318		113	58	17	6	4	371
25-29	M	55	103	DED STORY	3	0	0	0	356
	C	157	162	49	A STATE OF THE STA	4	2	2	192
	11	48	81	43	12		14	7	153
20.24	M	17	22	3.4	34	2.1		0	12
30-34	C	16	63	39	1	1			4
	The Total Section	20		4	6	3	1	3	
-M					6	6	5	*	1
35-39	M	8			3	2	1	2	
To the same	C		B		20 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	0	0	MARKET N
	11	0	O I I I I I I I I I I I I I I I I I I I			1	0	9	
40-44	M	0			A CLASSICAL CONTRACTOR		(		The state of
	C	0	0		2			0 , 2	
9.6	11	0	0 0	0 0	THE CALL				
10	M	- 0		0 0	0	the second second			
45-49		of the same of the same of		0 0	0	0		0 (	1
7	С	2248			165	65	3	0 41	8 40

Table 12 - Distribution of currently married women observed in samples according to age of mother and children ever born 1992

		No, of Children ever born												
Age Group	1 00	2	3	4	5	6	7 & above	Total						
1	2	3	4	5	6	7	8	9						
15-19	286	19	3	0	0	0	0	308						
20-24	1322	738	165	20	2	0	1	2248						
25-29	530	610	279	79	. 21	6	4	1529						
30-34	81	166	116	47	29	17	9	465						
35-39	29	12	16	15	11	7	21	111						
40-44	0	4	2	4	2	0	9	21						
45-49	0	0	0	0	0	0	4	4						
Total	22482253	1549	581	165	65	30	48	4686						

Table 13 - Distribution of currently married women observed in sample according to age of mother and age of the last child 1992

Age of	are recall	my 7, 14		Ageo	f last ch	ild (in 1	nonths)			
mother	0-14	15-29	30-44	45-59	60-74	75-89	90-101	105-119	120-134	Total
121	2	3	4	5	6	7	8	9	10	11
15-19	291	15	2	0	0	0	0	0	0	308
20-24	1124	687	285	106	35	9	2	0	0	2248
25-29	475	411	295	181	99.	33	16	10-	9	1529
30-34	88	97	86	80	4.1	27	18	10	15	465
35-39	29	17	17	12	11	9	3	U	13	111
10-41	0	4	5	4	3	U	ī	0	4	21
45-49	0	0	U	0	2	2	U	Ü	. 0	1
Total	2007	1231	690	383	194	80	40	20	41	4680

Table 14 - Live Births observed in samples classified by month of occurance 1993

Stratum	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	T
1000	2	3	14	5	6	7	8	9	10	11	12	13	+
11	0	1	1	0	1	1	0	1	2	i	1	1	1-
В	6	3	4	1	2	2	5	4	21	1 0	1 1	i	+
C.	17	11	16	23	17	14	14	17	12	18	12	17	1
D	190	147	176	192	182	198	159	138	158	163	133	180	-
Norther n region	213	162	197	219	202	. 215	178	160	174	182	150	199	
II A	0	0	- 1	0	0	3	1	1	2		2	1	-
В	4	1	2	1.	3	2	3	i	2	i	1	5	-
C)	18	17	19	27	16	23	24	23	22	24	18	29	-
D	193	150	. 167	212	180	198	150	170	186	166	185	180	-
Souther n region	215	168	189	240	199	226	178	195	212	192	206	215	-
State	428	330	386	459	401	441	356	355	386	374	356	414	-

Table 15 - Live Births observed in samples by type of medical attention by delivery 1992

		<b>电影运用</b> 的图	Type of Med	lical attention		
Stratum	Institutional	Trained professional	Untrained professional	Non :	Not stated	Total
PER	2	3	4	5	6	7
۱۸	10	. 0	0	0	. 0	
B	35	Ō			0	
C	185	0	3	0	0	
D D	1834	48	118	16	0	
Northern region	2064	48	122	17	0	2
11 /	12	0	0	0	0	China Control
В	26	Ō	0	0	0	
C	260	Ō	0	0 0		
D	2068	39	27	0	0	
Southern region	2366	.39	27	0	3	2 2
State .	4430	87	149	17	3	

Table 16 - Percentage distribution of births by age of mother and order of birth of child 1992

	Order of birth												
Age Group	27 1 ·	2	3	4	5	6	7 & above	Total					
	2	3	4	5	6	7	- 8	9					
15-19	92.86	6.17	0.97	0.00	0.00	0.00	0.00	100.00					
20-24	59.03	32,61	7.34	0.89	0.09	0.00	0.01	100.00					
25-29	34.66	39.90	18.25	5.17	- 1.37	0.39	0.26	100.00					
30-34	17.41	35.70	24.95	10.11	6.24	3.66	1.93	100.00					
35-39	26.13	10.81	14.41	13.51	9.91	6.31	18.92	100.00					
40-44	0.00	19.05	9.52	19.05	9.52	0.00	42.86	100.00					
45-49	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00					
All ages	48.08	32.95	12.40	3.52	1.39	0.61	1.02	100.00					

Table 17 - Distribution of samples according to birth-rate 1992

Birth	Northern region		Southern region		State							
rate					- 1992		1 5 1991		1990-			
	No.	0,6	No.	%	No.	0,6	No. x		No.	%		
CONTRACT SAME	2	3	4	5	6	7.	8	9	10	11		
Less than 12	6	9.80	9	10.10	15	10.00	ii	7.40	5	3.30		
12 & less than 16	12	19.70	45	50.60	57	38.00	43	28.70	30	20.00		
16 & less than 20	. 14	23.00	22	24.70	36	24.00	47	31.30	55	36.70		
20 & less than 24	18	29.50	11	12.40	29	19.30	29	19.30	38	25.30		
24 & less than 28	9	14,80	1	1.10	10	6.70	9	6.00	14	9.30		
28 & less than 32	1	1.60	i	1.10	2	1.30	5	3.30	-4	2.70		
32 & less than 36	1	1.60	0	0.00	1	0.70	6	4.00	3	2.00		
36 & less than 40	0	0.00	0	0.00	0	0.00	0	0.00		0.70		
40 & less than 44	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00		
44 & above	0	0.00	0	0.00	0	0.00	0	0.00	()	0.00		
Total	61	100.0	89	100.0	150	1000	150	100.0	150	100.0		

Table 18 - Still Birth observed in samples and estimated according to sex and still birth rates 1992

Stratum		Birth obser	ved	Stil	births estin	ated	Esti, no. of live births &	Still
	Male	Female	Total	Male	Female	Total	still births	birth ra
1/1	2	3	4	5	6	7	8	
B	0	0	0	. 0	U	0	501	9
C	-1	0		111	0	111	4233	26.
D	16	1	3	194	97	291	18530	15.
Northern region	19	16	32	1361	1361	2722	174205	15.
IIA	0	0	36	1666	1458	3124	197472	15.
В	0	0	0	0	0	0.	1461	0.
C	2	2	0	0	0	0	4420	0.
D	. 5	4	9	182	182	364	24076	15.
Southern region	7	6	13	436	3.19	785	187070	4.3
State	26	23	49	2284	1989	4273	217027	5.3

Table 19 - Religion wise Birth rate and death rate 1992

Stratum		Birth rate	4 K 6 1	Death rate			
	Northern region	Southern region	State	Northern	Southern	State	
	2	3	1	5	regions		
Hindu	15.98	15.17	15.52	5.96	(71	7	
Muslim	26.19	24.68	25.73		6.74	6.41	
Christian	15.15	14.74		5.31	5.97	5.51	
Total	A THE PERSON OF		14.80	4.45	6.98	6.59	
Total	19.51	16.12	17.56	5.62	6.73	6.25	

Table 20 - Religion wise and Region wise estimated population, birth and death rates 1992 \$\infty\$

Region	Hindu	Muslim	Christian	Total
1	2	3	4	5
I.Estimated Population				
N.R	5699176	3501864	762593	9963633
S.R	7666919	1529381	4196001	13392301
State	13366095	5031245	4958594	23355934
II.Estimated Birth	VICE NAME OF			
N.R	91090	91701	11557	194348
S.R	116301	37739	61837	215877
State	207391	129440	73394	410225
III.Estimated Deaths			SENSONE SEZA	
N.R	33946	18610	3396	55952
S.R	51685	9125	29276	90086
State	85631	27735	32672	146038
IV.Birth rate		RIVER TO SERVICE		
N.R	15.98	26.19	15.15	19.51
S.R	15.17	24.68	14.74	16.12
State	15.52	25.73	14.80	17.56
V.Death rate				
N.R	5.96	5.31	4,45	5.62
S.R	6.74	5.97	6.98	6.73
State	6.41	5.51	6.59	6.25

Table 21 - Stratum wise Death observed in samples and estimated according to sex 1992

	Death	observed in san	nple	Estin	nated no.of dea	ths
Stratum	Male	Female	Total	Male	Temale	Total
	2	3	4	5	6	7
1 /	3	4	7	151	202	353
B	111	3	1.1	1226	334	1560
C	33	26	59	3202	2522	5724
D	328	240	568	27900	20415	48315
Northern region	375	273	618	32479	23473	55952
II V	3	0	3	365	O O	365
B	5	3	8	850	510	1360
C	72	50	122	6567	4560	11127
D	502	384	836	43760	33474	7723
Southern region	582	437	1019	51542	38544	90080
State	957	710	1667	8-1021	62017	146038

Table 22 - Distribution of death observed in samples according to age and sex 1992

Age	Nu	orthern Regi	on	So	uthern Regi	on		State	
Group	Male	Female	Total	Male	Female	Total	Male	Female	Total
	2	3	4	5	6	7	8	9	10
Below I	26	15	41	26	13	39	52	28	80
1-4	4	5	9	. 9	3	12	13	8	21
5-9	4	3	7	10	7	17	14	10	2.
10-14	5	3	8	3	6	9	8	9	17
. 15-19	3	5	8	7	7	14	10	12	22
20-24	7	12	19	- 11	8	19	18	20	38
25-29	4	5	. 9	- 9	8	17	13	13	20
30-34	12	5	17	10	- 7	17	22	12	3.
35-39	11	4	15	TO AST 14	- MIT 5	19	25	9	3.
40-44	12	9	21	19	9	28	31	18	.49
45-49	22	8	30	17	1.4	31	39	22	6
50-54	18	11	29	46	21	67	6.1	32	90
55-59	27	15	42	49	1.4	63	76	29	105
60-64	• 26	27	53	-49	21	70	75	48	123
65-69	52	27	79	60	43	103	112	70	182
70 & above	142	119	261	2.13	251	494	385	370	755
All	375	-273	6-18	582	437	1019	957	710	1667

Table 23 - Distribution of estimated death according to age and sex 1992

Age	No	rthern Regi	ion	So	uthern Regi	on		State	
Group	Male	Female	Total	Male	l'emale*	Total	Male	Temale	Total
1	2	3 .	4	5	6	7	8	9	10
Below I	2249	1314	3563	2279	1133	3412	4528	2447	6975
1-4	340	437	777	783	262	1050	1128	699	1827
5-9	340	255	595	872	610	1482	1212	865	2077
10-14	425	255	680	265	527	792	690	782	1472
15-19	255	425	680	610	610	1220	865	1035	1900
20-24	622	952	1574	963	701	1664	1585	1653	3238
25-29	340	391	731	785	697	1482	1125	1088	2213
30-34	1021	425	1446	879	614	1493	1900	1039	2939
35-39	990	352	1342	1224	444	1668	2214	796	3010
40-44	1033	766	1799	1660	785	2445	2693	1551	4244
45-49	1919	673	2612	1486	1220	2706	3405	1913	5318
50-54	1520	948	2.168	4038	1834	5872	5558	2782	8340
55-59	2370	1288	3658	4454	1237	5691	6824	2525	93.49
60-64	2227	2347	4574	4339	1843	6182	6566	4190	10756
65-69	4519	2332	6851	5281	3761	90.12	9800	6093	15893

70 & above	12309	10293	22602	21619	22266	43885	33928	32559	66487
All	32479	23473	55952	51542	38544	90086	84021	-62017	146038

Table 24 - Age specific death rates based on estimated values 1992

Age Group	Northern	Southern	Total	Stat	le
	region	region -		Male	Female
. 1	2	3	4	* 5	6
Less than I	17.82	14.97	16.30	21.11	11.46
1-4	1.10	1.12	1,11	1.18	0.76
5-9	0.52	1.07	0.80	0 1.06	0.76
10-14	0.62	0.65	0.63	0.59	0.68
15-19	0.60	0.97	0.80	0.73	0.86
20-24	1.49	1.16	1.30	1.40	1.23
25-29	0.83	1.13	1.01	1.11	0.93
30-34	2.17	1.32	1.65	2.09	1.10
35-39	2.26	1.77	1.96	2.98	1.01
40-44	3.65	3.16	3.35	2 4.41	2.36
45-49	6.26	4.27	5.06	6.75	3.50
50-54	7.05	10.54	9.19	12.79	5.89
55-59	11.86	11.00	- 11.32	17.65	5.75
60-64	19.23	14.66	16.31	21.36	11.90
65-69	37.26	26.07	29.94	40.01	21,30
70 & above	99.16	81.01	86.38	99.52	+ 75.91
All V	5.62	#6.73	6.25	7.41	5.14

Table 25 - Death observed in samples classified by month of occurance 1992

Stratum	Jan	Feb	Mar	Apr	Ma	Jun	Jul	Aug	Sep	Oct	1/04	Dec	Tota
1	2	3	4	5	6	7	8	9	10	11	12	13	14
11	0	2	1	1	. 1	0		-0	0	0		U	7
В	2	3	0	0	0	4 1	2	2	0	0	1	3	14
C	4	6	5	3	6	5	1	6	1	3	6	7	59
D	48	48	34	30	43	45	43	. 79	4.5	55	34	61	568
Northern region	54	59	-10	3.1	50	51	50	87	49	58	42	7.1	648
II A	1	- 1	0	0	0	1	0	0	()	()	()	()	1203
13	1	0	2	0	0	0	U	2	1	()	2	()	1
C	18	5	6	10	10	7	7	11	9	1.1	11	,12	120
D	79	69	61	52	47	73	8.5	100	81	71	95	69	888
Southern region	99	75	72	62	57	81	92	113	9.1	8.5	108	81	1010
State	153	134	112	96	107	132	1.12	200	143	143	150	155	166

Table 26 - Death classified by type of medical attention 1992

A STATE OF THE STATE OF		Тур	e of medical atter	ntion	Si (Jahara Ki)
Stratum	Institutional	Qualified medical_ practisionor	Unqualified medical practisionor	No treatment	Total
	. 2	3	4	5	6
11	6	0	0		7
B	10	13	<b>#</b> 0		14
C	31	15	11	2	59
D	217	173	44	134	568
Northern region	264	191	55	138	648
IIA	0		0	2	3
B	5	3	0	0	8
C	86	20	0	14	120
D	539	266	12	71	888
Southern region	630	290	12	. 87	1019
State	894	481	67	225	1667

Table 27 - Distribution of samples according to death rate of each sample 1992

Death rate	North regi		South		199	)2	199	1	1990		
	No.	%	No.	96	No.	0,6	No.	0,0	No.	%	
	2	3	4	5	6	7	8	9	10	11	
ess than 1	0	0.00	0	0.00	0	0.00	2	1.30	0	0.00	
and less than 3	3	4.92	5	5.60	8	5.30	10	6.70	15	10.00	
and less than 5	21	34.40	17	19.10	38	25.30	36	24.00	37	24.70	
and less than 7	23	37.70	29	32.60	52	34.70	48	32.00	50	33.30	
and less than 9	11	18.00	24	27.00	35	23.30	36	24.00	32	21.30	
and less than 11	2	3.30	11	12.30	13	8.70	16	10.60	12	8.00	
and less than 13	0	0.00	3	3.40	3	2.00	1	0.70	2	1.30	
and less than 15		1.70	0	0.00	1	0.70	1	0.70	1	0.70	
and above	. 0	0.00	0	- 0.00	0	0.00	0	0.00		0.70	
tal	- 61	100.00	89	100.00	150	100.00	150	100.00	150	100.00	

Table 28 - Infant death observed and estimated according to sex and infant mortality rate 1992

Stratum	Infant	death ob	served	Infant	death est	imated	Estir	nated live l	oirth	Infant	mortali	ly rate
	Male	Fema	Total	Male	Fema	Total	Male	Fema	Total	Male	Fema	Total
	2	3	4.	5	6	7	8 -	9	10	11	12	13
IA	0	0	. 0	. 0	0	0	202	302	504	0.00	0.00	0.00
В	1	1	2	- 111	111	222	1671	2451	4122	66.43	45.29	53.86
C	1	1	2	97	97	194	10090	8149	18239	9.61	11.90	10.64
D	24	- 13	37	2041	1106	3147	89059	82424	171483	22.92	13.42	18.35
Norther n region	26	15	41	2249	1314	3563	101022	93326	194348	22.26	14.08	18.33
IIA	0	0	0	0	0	0	487	973	1460	0.00	0.00	0.00
В	0	0	0	0.	0	0	2210	2210	4420	0.00	0.00	0.00
C	3	0	3	274	0	274	12494	11218	23712	21.93		11.56
D	23	13	36	2005	1133	3138	97632	88653	186285	20.54	12.78	16.85
Souther n region	26	13	39	2279	1133	3412	112823	103054	215877	20.20	10.99	15.81
State	52	28	80	4528	2447	6975	213845	196380	410225	21.17	12.46	17.00

Table 29 - Number of infant deaths observed in samples of children born during the current year and previous year 1992

			- 100	Bor	n in l	1991			7				Borr	ı in 1	992			4
Stratum -	Le	ss that days	1.7	Le	ss that	and the same	Le	ss tha	n 1	Le	s that	17	Les	s than	28	1,0	ss that year	1 1
	-M	JF	T	M	F	T	M	F	T	M	F	1	M	F	1	M	F	T
1 4	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Al																		2- 0
В	HER		T.							1	0	ī	1	1	2	1	1	-2
С				100										1	1	İ	i	2
D							1	4	5	13	7	20	18	. 9	27	23	9	32
Northern region				100			1	4	. 5	14	7	21	19	11	30	25	11	_36
IIA						1			TA.	140								
В																		
C								100		2	0	2	2	0	2	3	0	3
D							T	1	2	16	.9	25	18	10	28	22	12	34
Southern	Ale 3					13.5	1	1	2	18	9	27	20	10	30	25	12	3
State		126	134				2	5	7	32	16	48	39	21	60	50	23	7:

Table 30 - Estimated no. of infant deaths for the year 1992 of children born during the current year and previous year

r	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	100	
+11		year	1.	10		000	194	2722	3158			1	274	2964	3238	9259	2000
		Less than I year	i.	181		E	- 76	766	974	7			0	1046	1046	0.00	
		Les	M	17		=	16	1956	2164				274	8161	2192	9555	2-2-
	92	skrj	1.1	16	100	222	97.4	72297	2616		1		182	2441	2623	\$239	
	Бот пп 1992	Less than 28 days	F	15		E	1 20	766	57.5		Delivate Property	W. 1925	0	872	872	1846	
9	BOI	Less	M	77		Ξ		1531	16-17				182	1569	1751	3393	
	19	ays	T	. 13				1701	1812				182	2180	2362	7/17	
		Less than 7 days	F	12		0		595	595				0	785	785	1380	-
		Less	M	H	37	E		1106	1217				182	1395	1577	2794	-
		уед	1.1	101				425	57.7					17.7	77.	1 665	1
	1	Less than I year	11	6.			AU.	340-	340			Will state of the		87	87	427	
-	-		N	8		11		85	85					87	\$7	17.	
1001		Less than 28 days	-	1,						1							1
1:		days	11.	9					773	1	1					-	1
Rom in		Less	- N	2						1	1					-	-
	1	201	1	-1		-				-	1			-		-	1
	1	davs	u.							-	-					-	-
	1	davs davs		-		100		70		-	-	-		_		-	-
	1		×.	01					1	-							
		Stratum			IΑ	3	C	D	Northern	HA	C	2	· ·	۵	Southern	State	

Table 31 - Estimated no. of perinatal, neonatal and infant death according to sex 1992

Stratum	Less than 7 days  Less than 7 days  Less than 7 days												
I II Total	M 2 1217 1577 2794	F 3 595 785 1380	T' 4 - 1812 - 2362 - 4174	16-12 1751 3393	s than 28 d F 6 97.1 872 1846	7 7 2616 2623 5239		ss than 1 ye F 9 1311 1133 2417	10 356: 3412 6975				

Table 32 - Births and deaths detected through overlapping survey and intensive enquiry classified according to place and type of birth and deaths 1992

ratum	Total	P	lace	Birth	ind	A REAL PROPERTY.		Di	eath .	747
I I A B	2	In 3	Out 4	Live Birth	Still Birth 6	Total 7	In 8	Out 9	-	Other deaths
C D hern region H A B	5 66 71 1		5 66 71 1	5 66 71		8 9		8 9	0	7 8
C D ern region State	6 59 66 137.		6 59 66 137	6 59 66 137		13		13		13

continuent at

Table 33 - Distribution of births and deaths recorded by enumerators and supervisors detected through overlapping survey and intensive enquiry 1992

		Births			Deaths	
Items	Northern region	Southern	State	Northern region	Southern region	State
	2	3	4	5	6	7
Common to enumerator & supervisor	-1800	2001	3801	592	917	1509
Registered by enumerator No.	1905	2132	4037	601	978	1579
%	84,60	87.60	86.20	92.70	96.00	94.70
Listed by supervisor No.	2152	2325	4477	632	992	1624
%	95.60	95.50	95.50	97.50	97.40	97.40
Total metted by enumerator & supervisors	. 2172	2377	4549	634	1010	. 1644
Detected by others	5	4	9	1	6	7
Overlapping survey	74	5.4	128	13	3	16
Intensive enquiry	0	Ō	T O	Ū Ū	0	0
Total	2251	2435	4686	648	1019	1667

Table 34 - Distribution of rate of marriage per thousand population and percentage distribution of marriage according to age and sex 1992

Age	R	ate of ma	rriage pe	r 1000 p	populatio	on	Percentage								
Group	- Ist ma	rriage	Remar	riage	All ma	arriage	Ist-mai	riage	Remar	riage	All marriage				
	- M	F	M	F	M	F	M	1	M	F	M	1			
	2	3	4	5	6	7	8	9	10	11	12	1.			
15-19	0.81	32.17	0.00	0.51	0.81	32.68	0.77	22.33	0.00	28.00	0.75	27			
20-24	23.80	63.69	0.00	0.26	23.80	63.95	21.50	49.47	0.00	16.00	20.95	49			
25-29	59.31	35.67	0.26	0.30	59.57	35.97	48 07	24.10	7.89	16.00	47.02	2/			
30-34	34.30	6.33	0.97	0.28	35.26	6.61	24.95	3.44	26.32	12.00	24.98				
35-39	7.08	1.11	0.71	0.55	7.79	1.66	4.22	0.51	15.79	20.00	4.52				
40-44	0.87	0.40	1.30	0.13	2.16	0.54	0.42	0.15	23.68	4.00	1.03				
45-49	0.17	0.00	1.74	0.16	1.92	0.16	0.07	0.00	26.32	4.00	0.75				
15-49	20.50	26.06	0.55	0.33	21.04	26.39	100.00	100.00	100.00	100.00	- 100.00	10			

Table 35 - Life tables of males based on age specific death rates for the years 1990, 1991 and 1992

Beginin g age (x)		12	0	-	5	01	15	20	1	3	30	35	07	45	50	55	99	65	01	2	
Expectatio n of life	(Ex)		67.92	68.45	1679	1009	15.55	30.60	00.00	40.04	41.25	36.65	32.11	27.76	23.56	19.85	16.48	13.18	01.01	6-0	
Year of life lived lived	and above x (Tx)	01	6661629	6694114	8304304	9880188	961655	9209981	010000	43//003	3902670	3432015	2966900	2509885	2064762	1 1639232	124114	171288	11100	2/8200	
Year of life lived	and x+n n(Lx)	6	97885	189810	811181	014407	00/70+ +	00010	011011	171993	470655	165115	457015	145123	125530	395118	156973	355905	2000	578360	
No. survivi to age x	100000 born alive	00	100000	10820	02100	101/6	90009	14406	6/606	98386	11976	93651	50500	11700	87638	82574	22732	21007	010/0	26195	
No. of death	Ą	1	2100	203	160	111	777	707	565	775	090	1256	1087	2772	2005	1012	2157	010	11177	26194	
Probab of a person	aged x dying before x+n	(xh)	001000	0.02133	0.00713	0.00454	0.00230	0.00479	0.00618	0.00812	001015	17:100	71.100	170.00	0.0500	005000	0.000	0.10909	0.16522	1.00000	-
Mean age specefic	death rate (nmx)		5	0.02150	0.00179	0.00091	0.00046	0.00006	0.00124	0.00163	10000	0.000	0.00.0	0.00434	0.000.0	0.01100	15:10:0	0.035	0.03602	-0.09716	
rate	1992		7	21.11	1.18	1.06	0.59	0.73	07.1		1.1.1	500	20:-		- 1	i	17.62	21.36	10.01	55'66	
Age specific death rate	1661		"	20.74	2.15	0.75	0.23	1.16	1.35	77	00.1	1.87	1.61	3.60	6.30	11.57	19.48	21.75	33.76	100.52	
Age sp	0661		2	22.04	2.05	0.93	0.56	1.00	800	2.0	6.15	2.15	3.52	5.02	5.65	11.35	16.79	25.43	24.77	11.16	
Agex	10 x+n			Below I	1	5-9	10-14	15.19	FL-0.		25-29	30-34	35-39	7077	55.49	50-54	\$5-59	10-09	45.60	70 &	above

Table 36 - Life table of females based on age specific death rates for the years 1990, 1991 and 1992

Beginin g age	8		12	0	-	5	-	151	20	25	, 30	35	07	57	50	33	09	65	70
Expectatio n of life	years (Ex)		11	74.76	74.68	71.06	66.23	. 61.38	09.95	51.88	47.13	42.46	37.75	33.12	28.65	24.31	20.05	16.09	12.58
Year of life lived lived	benveen x		10	7475889	7376899	6982821	6492121	6002611	5514566.	5028688	4545308	1064865	3587867	3115102	2648862	2192304	1748814	1324896	933451
Year of life	between x	n(Lx)	6	06686	394078	790700	189510	188045	485878	483380	180113	176998	172765	166240	156558	713190	423918	391445	933451
No. survivi to age x	out of 100000	born alive (lx)	S	100000	98776	98263	08017	97787	15116	02696	96432	95745	+505o	01052	11170	62106	87217	82350	3757
No. of death	¥		7	-1224	513	2:0	230	356	511	288	687	169	1002	1608	2265	2962	1367	\$122	74228
Probab of a person	aged x dying	before x+n (qx)	9	0.01224	0.00519	0.00250	0.00235	0.00364	0.00524	0.00504	0.00712	0.00722	0.01054	0.01710	0.02450	0.03285	0.05580	0.09863	1.00000
Mean age specefic	death rate (nmx)		5	0.01138	0.00130	0.00050	0.00047	0.00073	0.001057	0.00101	0.00143	- 0.00145	0.002121	0.00345	1 90:00:0	0.00668	0.01148	0.02075	0.07952
n rate	1992	80	-7	11.46	0.76	0.76	0.68	0.86	1.33	0.93	1.10	1.01	3.36	3.50	5.89	5.75	11.90	21.30	75.94
Age specific death rate	1661		3 .	12.13	1.03	0.31	0.45	0.78	0.88	1.08	1.76	2.25	01.88	3.17	5.08	1 18.9	12.54	22.21	80.30
Age st	0661		C.	10.54	2.12	1 55.0	0.29	0.56	1.05.1	1.02 \	1.44	1.10	2.13 (	3.68	3.92	7.48 1	06'6	18.73	\$2.33
Agex	to x+n		1 - 1	Below 1	7	5-9	10-14	15-19	20-24	25-29	30-34	35-39	1 77-07-	67-57	1 50-54	65-55	1 -9-09	69-59	70 & above

Table 37 - Life table of persons based on age specific death rates for the years 1990, 1991 and 1992

-	x) (x) (x)	2	21 22 17	0	11.40		65.12 10	58.27 . 15	53.51 20	48.80 25	44.10 30						77.04	18.24 60.	14.63 65	11.44
E E	en x (Ex) bove x)		105		1						4213173 4	3737553 3								744776
-		10	08451 717	-	1	-		1		1			1							
ivi Year of life	ъ д В	6									10 475620	8 471113	-				-			9///
f No. survivi	À	8	100000	7 98306	-							94708	93737	92254	99006					92029
a No. of death		7	7691   t	8   627				-				126   5	1483	2   2188	679:	5026		-		05050
Probab of a person	aged x dying before x+n (qx)	9	1 0.01694	0.00638	0.00334	0.00235	0.00424	895000	0.7000	20000	0.0001	0.01025	0.01582	0.02372	0.04051	0:05816	0.08107	070-10	000001	00000.1
Mean age specefic	death rate (nmx)	. 5	0.01642	0910000	0.00067	0.00047	0.00085	11000	0.1000	251000	57100.0	0.00-00	0.00319	0.00480	0.00827	Sol 20.0	0.01690	0.02776	0:2300	
eath rate	1992	4	16.30	1.11	0.80	0.63	0.80				20.1	1.90	3.35	5.06	61.6	11.32	16.31	29.94	86 38	
Age specific death rate	1661	3	1   16.55	8   1.60	9 0.53	3 0.34	8 0.97	2   1.09	51 138					1 4.70	8.16	1, 12.73	96.91	1 27.46	89.43	17
	0661			2.08	69.0	0.43	0.78	1.02	1.55	87.	300		3.51	7.64	7.46	11.80	工 17.45	1 25.89	86.36	
Agex	to x+n	-	Below I	7	6-5	10-14	15-19	20-24	25-29	30-34	15.70	1000	1707	77.77	50-54	55-59	19-09	69-59	70 €	above

Table 38 - Number of units and population in the universe and in samples

Stratum	Univ	erse	Sam	ples	Percentage	Raising
	No.of census villages	Population (1981) P	No.of units selected	Population (p)	of sample population	factor for stratum estimat (P/p)
1	2	3	4	5	6	7
IA	73	33158	2	658	1.98	50.39210
В	217	171582	, 2	1540	0.90	111.41688
C	519	773395	6	7972	1.03	97.01392
D	1265	7421252	51	87246	1.17	85.06123
Northern region	2074	8399387	61	97416	1.16	0,00000
II A	260	87991	2	723	0.82	121.70263
В	415	325570	3	1915	0.59	170.01044
C	894	1353880	10	14845	1.09	91.20108
D	2134	10515577	74	120631	1.15	87.17143
Southern region	3703	12283018	89	138114	1.12	0.00000
State	5777	20682405	150	235530	1.14	0.00000



