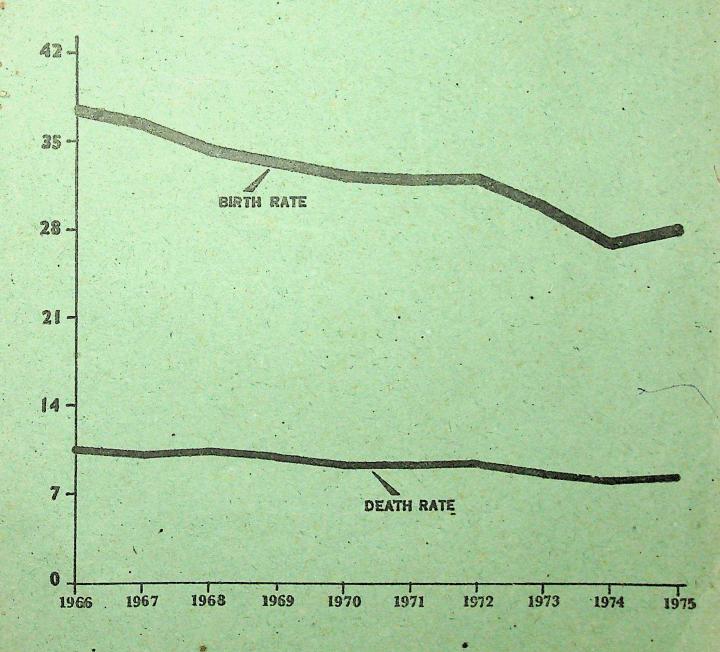
# SAMPLE REGISTRATION KERALA-RURAL



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### PREFACE

The Sample Registration Survey (SRS) with the objective of getting reliable information on vital rates and population during the intercensal years is being conducted in all the States based on the guide lines issued by the Registrar General of India. The Survey in Kerala is carried out separately for rural and urban sectors. The Survey in rural sector is being conducted by the Bureau of Economics and Statistics and in the urban sector by the Census Department. The Sample Registration Survey (SRS) was first conducted in the rural sector in Kerala during 1965-66 in 150 randomly selected villages.

This report contains the results of the survey for the year 1975. It is hoped that the findings of the survey will be useful for those dealing with Population Statistics.

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### CHAPTER-I

### Introduction

### 1.1. Genesis:

The role of reliable population data in economic and social planning need not be over emphasised. census constitutes the most important source of information relating to population. But it is taken in our country only once in ten years. Recourse has therefore to be made to other math ids for determining population growth during the intercensal years. The Givil Registration system, of course, provides information on population dynamics. But it is well known that the system is far from perfect. The Registrar Gen ral, India therefore launched the Sample Registration System with a view to obtaining reliable data on population and vital rates.

1.2. Objectives:

The Sample Registration Scheme is busically a Sample Survey designed to gather reliable data for estimate ing the birth and death rate; for the States and all In lia separately for the rural and urb in sectors; special studies tike the fertility pattern of ever-married women, evaluation of family welfare programme etc. are also occasionally aken up as part of the scheme.

### Commencement of the Scheme:

The scheme was first taken up in the State as a pilot study in rural areas during 1961-65. The full scale scheme in Ke ala began functioning with effect from 1-7-1965 in the rural sector and in the urban sector from 1970. The survey is being continued every year thereafter.

1.4. Implementing agency:

The scheme in the rural sector of the State is implemented by the Bureau of Economics and Statistics and in the Urb in Sector by the Director of Census Operations.

1.5. Sample design:

The survey in the rural sector is conducted in 150 v llages selected by stratified random sampling. The rural sector of the State was first divided into three natural regions (viz. Lowland, Midland and Highland) and the villages in each region were grouped into four population size classes, as follows:

Type A-Population less than 500

Type B-Population 500-999

do. 1000-1999 Type C-

do. 2000 and above

Thus 12 strata were formed. The number of villages to be surveyed under the scheme was fixed as 150. These 150 units were allocated among the 12 strata in proportion to the stratum population. The villages so allocated for each stratum were selected by simple random samp ing. The selected villages were surveyed in whole in the case of A, B & C type of villages Each D type village was divided into segments of population size 2000 or less and one such segment was selected at random as the sample unit representing the village. The 1961 ce isus population of these 150 units was 2 22 lashs and formed 1.55% of the total rural population. Details of the allocation of the 150 sample units among the 12 strata, and other particulars regarding the sample are shown in Table—I appended. Out of the 150 samples, 60 samples in which the population had increased very much and had become unwieldy for the survey were reduced in size with effect from 1-7-1970.

1.6. Base line survey:

As it was necessary to have a bench mark information on the demographic particulars of the population being studied, a b se-line survey was conducted in the 150 sample units as on 1-7-1935. This was done after ascertaining the boundaries of the selected units and preparation of notional maps. It was really a census so far as the sample area was concerned. The survey provided a list of the households and the composition of the usual residents in them. A complete list of houses/households was drawn up in Form-I (houselist) and details about the members of each household were recorded in Form 2 (household schedules).

### 1.7. Collection of data:

The bench mark information collected is up-dated at the end of every six months by noting the changes in members and other characteristics. Details of events (births and deaths) occurring in the sample area are collected regularly as and when they occur or whe i the information can be collected. The events are again listed at the end of every six months by an in ependent agency. The Information thus collected for each year constitutes 3 4 Compilation and Analysis of data: the primary data for preparing the various estimates.

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### CHAPTER II

### SCHEME OF WORK

### 2 1 Netting of events by Enumerators:

A part-time Enumerator has been appointed in each sample unit for netting the vital events. He is usually a local resident and mostly a local school teacher of the village. He enumerates the birth and death events occurring in the sample on a continuous basis. He collects the information with the help of informants fixed in different parts of the village. A list of pregnant women prepared during the half yearly survey is used as a guidance as to which all household should specially be visited to find out whether births have occurred or not. Deads of births and deaths occurred are entered in birth and death registers respectively every month and their extract are sent as monthly reports to the Director, Bureau of Economics and Statistics and the District Statistical Officer.

### 2.2 Half yearly survey by Supervisor:

Half yearly surveys are done in January and July of each year by a Departmental Officer known as Supervisor. The Supervisor visits every household and prepares a list of births and deaths in form 3/4 and notes the changes regarding members of the households as on 1st January/July of the year.

### 1.2.1 Overlapping survey:

Though the main object of the half yearly survey is to not events missed by the Enumerator during one pseceding half year, the Supervisor collects information regarding birth and deaths which occurred during the preceding two half years—thus it is main half-yearly survey for the immediately preceding ix months and everlapping survey for the six months previous to that, and for which period a half yearly survey had already been conducted. The object of the overlapping survey is to not events which would have been missed by both Enumerator and Supervisor.

### 2.3 Matching of events:

The results reported in the birth and death records by the Enumerator and those in form 3/4 by the supervisor are matched for one to one correspondence and the unmatched and partially matched events are picked out for further investigation to find correctness of the events.

### 2.4 Reverification of unmatched events:

The unmatched events (detected by the Supervisor and missed by the Enumerator, and vice-versa and the discrepant items in the partially matched events are then revertised by enquiry at the spot by senior officers at District level and an unduplicated list af orrect events is prepared. The final results are forwarded to the Head Office. After scrutiny a copy of the consolidated results are sent to the Registrar General of India.

### CHAPTER III

### 3.1 Enumerators:

Enumerators in all the 150 sample were in position. They recorded the births and deaths in the respective registe's and submitted monthly extracts in form 10 to the District Statistical Officers and State Head-quarters.

### 3.2 Supervisor's work:

The half yearly surveys were done by the Computors/ Assistant Compiler's deputed from the Census Department. They were given training in July 1975 and January 1976 before the commencement of the 20th and 21st Half-yearly Surveys. Some event were netted through the 22nd Half yearly Survey conducted in July 1976-sin e it was an overlappin survey for the second half of 1975. As for the first half of 1975 the overlapping survey was conducted through the 21st Half-yearly survey for which the main period was the second half of 1975.

### .3 Supervision:

The field work of the Enumerators and Supervisors was inspected by the District Statistical Officers, Regional Officer (S.R.) and Deputy Director. The inspection at the District level was conducted mostly along with reverincation of unmatched events at the end of the half-yearly surveys.

### 3.4 Compilation and Analysis of data:

The monthly reports received from the Enumerators, and the reports received from the District Statistical Officers after the half yearly surveys were (after proper scrutiny) compiled and enalysed at the Head office of the Bureau of Economics and Statistics and the results based on the same are presented in this report.

### CHAPTER-IV

### MARRIAGES AND POPULATION DISTRIBUTION

### 4.1. Mumber of marriages and age at marriage (1975):

Age specific marriage rates and percentage distribution of marriages of the sample population calculated for the year 1975 are given below. The median age at marriage in the case of first marriages is 26.4 for males and 21.1 for females.

Age	Age specific marrie	age rate (per 1000)	Percentage distribution of marriages during 1975			
	Males	Females	Males	Females		
15—19	2 0	43.8	2.5	39.2		
20-24	32.3	59.5	33.7	48 5		
25-29	60.5	19 3	48.9	11.8		
3 <b>0—3</b> 4	19.9	2.5	11.7	1.1		
35 - 39	4.7	1.0	2.6	0.4		
10-4	1.1		0.6	••		
<b>5-4</b> 9	••	• •	**	• •		
All (15—49)	19.1	25.3	100.00	100.00		

### 4.2. Age distribution and sex ratio of population (1975):

The percentage distribution of population by age and sex ratio (number of males per 1000 females) for the year 1975 in the different age groups are given below:

Age group		Percentage of population			
0—1		2.4		104 0	
1-4		9.7		104.6	
5-9		12.7		102 0	
10-14		12.4		103.7	
15-19	*.	- 11.7		98 0	
20 - 24		10.2		90 0	
25-29		7 8		91.6	
39-34		5 7		90 3	
<b>3</b> 5- <b>-</b> 39		5 7 5 5		91.5	
40-44		4.9		88.8	
45-49		4.6		100 6	
50-54		3 6		104 3	
<b>5</b> 5—59		2.9		100.1	
60-64		2.1		99.8	
65—69		1 6		96 4	
70 +		2.2		8+.9	
All	¥	100.0		97.5	

In age groups upto 14 and the age groups between 45 and 59, the males predominate and in all other age groups the females predominate in number. It is also noted that 37.2% of the population is below the age of 15 and males predominate in number. The precentage of old persons (of age 55 and above) comes to 8.8. The corresponding figures for the last 4 years are given below:

-	% of children (0—14 years)	% of old people $(55 + )$	
1972	39.5	8.5	
1973	39.2	8.6	
1974	38.1	8.6	
1975	37 <b>2</b>	8.8	

### CHAPTER V

### RESULTS OF THE SURVEY

### 5.1. Birth and death rates:

The following table shows the estimated birth and death rates and the resulting natural growth rate of population since the year 1966.

Tear	Birth Rate		Death Rate	11 8	1	Natural growth Ra (%)
1966	37.38	· · · · · · · · · · · · · · · · · · ·	10.45			2.69
1967	36.30		10.13			2 62
1968	34.33		10 38			2 40
1969	33 30		9 80			2 35
1970	32.26		9.23	×	100	2.30
1971	31.88		9.23			2 27
1972	32.09		9.39			2 27
1973	29.91		8.67			2 12
1974	26.96		8 00			1.90
1975	28.17		8.48			1.97

The crude birth rate and death rate for the year 1975 are 28 17 and 8.48 per 1000 respectively. The above rates relate to the usual resident population. The birth rate and death rate during the year 1975 show an increase from the previous year contrary to the declining trend experienced during the past so many years except 1972. The year 1973 and 1974 witnessed the greater fall in both birth and death rates which (in the absence of other reason) might be due to missing of events caused by the dislocation of field work and changing of field staff. Hence this significant increase in both the birth and death rates during the year 1975 might be due to the success in spoting out of events by reason of much vigilance and sincerity in work on the part of the field staff.

### 5.2 Birth and death rates for natural regions:

The birth and death rates for the natural regions of the State for 1975 are given below together with those for the previous four years.

A study of birth and death rates by natural regions reveals certain poculiar features. The high land region differs much from the other two regions in both birth and death rates. The birth rate is highest in the highland region, lowest in the lowland region and midway between these two in the mid land region. The death rate is also highest in the highland region. It is observed that this pattern is consistant for all the years.

ie j		В	irth Rate	3			Ĺ	Death Rate		
Region	1971	1972	1973	1974	1975	1971	1972	1973	1974	1975
Lowland Midland Highland STATE	31.36 31.95 32.40 31.88	30.51 32.36 33.38 32.09	27.77 29.99 32.97 29.91	25.59 26.95 29.25 26.96	25.94 27.93 32.78 28.17	8.53 9.22 10.35 9.23	8.18 9.46 10.99 9.39	8.84 8.48 9.26 8.67	8.10 7.67 9.56 8 00	8.47 8.35 9.08 8.48

### 5.3 Birth and death rates of the individual sample units:

The birth and death rates for the individual sample units are calculated directly from the number of births and deaths and mid-year population observed in the units whereas the birth rate and death rates for the State/Regions referred to in the foregoing sections have been obtained by the unbiased method of estimation explained in Chapter VI. The rates thus obtained give rise to the following frequency distributions.

Birth rate	No. of Units	Death rate	No. of Uni	
Less than 16	5	Less than 3	3	
16-20	18	3—5	18	
20-24	17	5—7	30	
24—28	36	5—7 7—9	40	
2832	30	9—11	33	
3236	17	11—13	10	
3640	16	13—15	7	
40-44	10.	15—17	5	
14+	1	17 +	4	
All	150	All	150	

In 44% of the sample units the birth rate is between 24 and 32 and the largest number of vi lages (24%) have birth rate between 24 and 28.

In 68.67% of the units the death rate falls between 5 and 11 and the largest number of units (26.66%) have death rate between 7 and 9.

5. 4 Comparison of vital rates obtained from Sample Registration and Civil Registration

Year	$B^{i}$	rth rate			Death rat	e	
1 607	S. R.	C. R.	C. R. as	S. R.	C. R.	C. R. as % of S R.	
1966	37 38	22.52	60.2	10 45	5 38	51.5	
1967	<b>3</b> 3.30	20.69	57.0	10.13	4 86	48.0	
1968	34.33	20.89	60.8	10.38	4.66	44.9	
1969 .	33.30	19.64	56 <b>0</b>	9 80	4.29	43.8	
1970	32.26	14.70	45.6	9 23	3.36	36.4	
1971	31 88	18 51	58.1	9.23	4.25	40.4	
1972	32.09	21.15	69.9	9.39	4.63	49.3	
1973	29.91	20 87	69.8	8 67	4.75	54.9	
1974	26.96	16.69	61.9	8 00	4.36	54.5	
1975	28.17	N.A.		8.48	N.A.	*	

A comparison between the vital rates obtained from the Civil Registration and Sample Registration is shown in the above table. The inadequacy of the Civil Registration system in obtaining the accurate vital rates is clear from the given Table.

### 5.5 Still birth:

The still birth rates which is an indicator of pregnancy wastage, for the year 1975 is estimated as 19 44 i.e. 1.16 higher than that for the previous year. The estimated rates for the last seven years are given as follows.

Year	1969	1970	1971	1972	1973	1974	1975
Still birth rate	23.06	25.63	17.21	27.25	25.01	18.28	19.44

### 5.6 Sex ratio at birth:

The sex ratio at birth (number of males for 100 females) for the last few years are given below:-

Year		Sex ratio at b rth
1971	8	107.9
1972		105.7
1973	8	110.2
197 ŧ		103.2
1975		1.8.0

### 5.7 Child women ratio:

This is a fertility index and is defined as the number of chi'dren in the age group of 0-4 years per 1000 women in the child bearing age of 15-49 years. This ratio for 1975 is 463. This is considerably low when compared to 479 for 1974, 511 for 1973, 520 for 1972 and 519 for 1971.

### 5.8 Fertility rate:

The fertility rate of women in the age group of 15-49 years has been calculated from the number of births that occurred during 1975 and the number of women in the relevant age groups. The age distribution of the female population and their fertility performance are used to estimate the various tertility rates such as general fertility rates, age specific fertility rates, total fertility rates etc.

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1. General fertility rate.—The general fertility rate during the year 1975 is 108.6 which is calculated as the average number of children born alive during the year per 1000 women in the reproductive age group of 15-49: The General Fertility Rate for 1975 is higher than the general fertility rate for 1974 which stood at 10+.0 but less than the other preceding years. The general fertility rate for rural Kerala for the last few years are given below:

Year	G.F.R.	Year	G.F.R.
1969	129.2	1973	117.1
1971	124.7	1974	101.0
1972	126.4	1975	108.6

Age specific fertility rate is the number of children born alive per 1000 women of a particular age-group-during an year.

### 2. Age specific fertility rate (1975)

Age of women		Fertility rate
1519		42.0
20-24		189.0
25—29		195.7
<b>3</b> 0—3 <b>4</b>	( . jugarania as projecti	134.8
<b>3</b> 5—39		95.0
40 44		29.9
45-49	and the second of the second of the second	5.5

3. The total fertility rate (TFR) for the year 1975 is calculated as 3.5 which is an estimate of the number of children that a woman would bear, if she lives through her reproductive period being exposed to the same set of age specific fertility rates prevalent during the year. The T.F.R. for some previous years are given below for comparison.

Year	1975	1974	1973	1972	1971	1969	1969
T.F.R.		o 18**.					All India
(Rural	3.5	3.3	3.8	4.2	4.1	4.3	5,10
Kerala)							

### 5.9. Order of birth of live born children:

The percentage distribution of births according to order of live births for the last 2 years is given in the Table below:

Order of birth	a .	% under each order		
Oraci of outil	1974	WI N	1975	
1 2 3 4 5 6 7 8 9 10 10 +	28.7 21.9 16.8 11.9 8.0 5.5 3.4 2.2 1.0 0.6		29.4 22.5 16.5 11.3 7.6 5.7 3.4 1.9 1.0 0.4 0.3	
Total	100.00		100 00	

It is observed that during the year 1974, 67.4% of the live births comes under 1st, 2nd and 3rd orders of births and 32 6 ", under the higher orders of birth while they constitute 68 4 and 31 6% respectively for 75, an increase in the first three orders a d a decline for the higher orders which may be due to the growing inclination and change of attitude of the common mass towards the family planning programmes year after year.

The enactment of the Government order for the lifting the minimum age of marriage may produce significan effects in the lowering of births in the State. In other words nearly 9% of the births which comes under the age group 15-19 can either be resuced or averted by that decision.

The percentage of births for each age group of mother for the year 1975 is as follows:

Age group				1	% Birth (19	75)
15—19					8 80	
2024					36 01	
25—29	,				28 20	
30-34					14.26	
35-39			-		9 55	
40-44			4.		2 75	
<b>45—4</b> 9		•			0.43	
	All		*		100.00	

### 5.10 Infant Mortality Rate (IMR)

The infant mortality rate for the year 1975 is estimated as 57.3 per 1000 live births. It is 1.4 higher that of the previous year. The IMRs of since 1966 are given below:

Year		1. M. R.
1966		68. <b>3</b>
1967		67 4
1968		64.0
1969		57 4
1970		52.6
1971		60.9
1972		66 0
1973		51,7
1974	*	55.9
1975		57.3

The region-wise analysis of the infant mortality rate exhibits a notice ble variation in the rate in such a way that the lowest rate is seen in low land region and the highest in the high land region and this pattern is discernible in previous years a so as may be seen from the region-wise table given below:

Region	1971	1972	1973	1974	1975
Lowland	34 4 61.3	55.3 61.2	46.6	30.7	45 8
Midland Highland	98.6	101.7	46 8 78.1	55.4 95.2	58 1 68 5

### 5.11 Age specific death rate (Table-8)

The age specific death rates of 5 year interval worked out for the year 1975 are given in the Table appended. During the year 1975 the annual death rate for males is higher than that of the temales, 9.18 for males and 7 90 for females.

The infant mortality rate (both sex combined) for the year 1975 is 57 26 which is much higher than for the previous year (50.78). Another important feature noticed is the continuous higher mortality rate of the tenales over smales in the age group of 1-4 since so many years. The lowest mortality rate is seen in the age group 10-14 and the highest in below one age group and 70 + age group.

### 5.12 Expectation of life (fable-14)

The life table constructed for 1975 based on the average of the age specific death rates for the years 1973. 1974 and 1975 is given in the appended Table-14. The peculiarity noticed in the life table is the longer expectation of life for f-males than for males in all ages. The expectation of life at bith for the year 1975 is 63.18 while it was 62.1 calculated for the previous year, the same at the age 70 is 9.43 for 1975 and 9.38 for 1974.

### CHAPTER VI

### ESTIMATION PROCEDURE

### 6.1 Estimation Procedure

The rural sector of the State is divided into three natural regions and each region into four strata. The sample units of State are selected from the strata in proposition to their population size. The stratum estimates of births, deaths and a opulation are prepared by the unbiased method of estimation. Adding the estimates at the stratum level the estimates for the natural regions are obtained. The State level estimate is obtained by summing up the estimates for the natural regions. To obtain the variance and co-variance of the estimates at the natural region and State level from the variance and co-variance of the estimates at the stratum 1 vel, the procedure is the same

### 6.2 Adjustments for bifurcation of the sample units

Though the population of all the sample units selected in 1965 was less than 2000, it eventually increased and in 60 units exceeded the 2000 limit as on 1-7-1969. Consequently these 60 units were bifurcated and a portions retained for observation. The bifurcation took effect on 1-7-1970 and the events recorded for the second half, of 1970 onwards pertained to the retained portion of the bifurcated units. Therefore in t e case of these units, the data pertaining to the whole sample area (as selected on 1-7-1965) were obtained by inclating the data such as births, deaths and pollution actually observed in the retained portion of the units.

### 6.3 Notation and Formulae used

### (a) Notation:

N = Total number of units in the stratum

n = Number of units selected from the stratum

 $M = \frac{N}{n}$  = Raising factor for arriving at stratum estimates.

Pi = Mid-year population in the ith unit of the stratum

bi = Number of live births in the ith unit of the stratum

di = Number of deaths in the ith unit of the stratum

si = Number of still borths in the ith unit of the stratum

fi = Number of infant deaths in the ith unit of the stratum

 $P = M \Sigma Pi = Estimate of stratum population$ 

 $B = M \Sigma bi = Estimate of live births in the stratum$ 

 $D = M \Sigma di = Estimate$  of deaths in the stratum

 $S = M \Sigma si = Estimate of still births in the stratum$ 

 $I = M \Sigma fi = Estimate of infant deaths in the stratum$ 

 $\mathbf{r_1} = \frac{\mathbf{B}}{\mathbf{P}}$  x 1000 = Crude birth rate of the stratum

 $\mathbf{r_2} = \mathbf{D}$  **x** 1000 = Crude death rate of the stratum

 $r_8 = \frac{S \times 1000}{S + B}$  = Estimated still birth rate of the stratum

 $\mathbf{r_4} = \mathbf{I} \times 1000$  = Estimated infant death rate of the stratum

 $K = \frac{N(N-n)}{n(n-1)}$  = Expansion factor for arriving at variance and co-variance of stratum estimates

### (b) Variance:

Variance of 
$$P = V(P) = K \Sigma \begin{bmatrix} P_i - \sum P_i \\ n \end{bmatrix}^s$$

Variance of  $P = V(B) = K \Sigma \begin{bmatrix} b_i - \sum b_i \\ n \end{bmatrix}^s$ 

Variance of  $P = V(B) = K \Sigma \begin{bmatrix} d_i - \sum d_i \\ n \end{bmatrix}^s$ 

### (c) Co-variance:

Co-variance of P and B = Cov (P.B.) = 
$$K\Sigma$$
  $\begin{bmatrix} Pibi & -\frac{\Sigma Pi & \Sigma bi}{n} \end{bmatrix}$   
Co-variance of P and D = Cov (P.D.) =  $K\Sigma$   $\begin{bmatrix} Pidi & -\frac{\Sigma Pi & \Sigma di}{n} \end{bmatrix}$ 

### (d) Variance of birth and death rates:

Variance of birth rate = 
$$V(r1)$$
 =  $r1^s$   $\left[ \frac{V(P)}{r2} + \frac{V(B)}{B2} - \frac{2 \text{ Cov } (P.B)}{P. B.} \right]$   
Variance of death rate =  $V(.2)$  =  $r2^s$   $\left[ \frac{V(P)}{P2} + \frac{V(D)}{D2} - \frac{2 \text{ Cov } P.D}{P. D.} \right]$ 

(e) Co-e fficient of variation of birth and death rages:

### APPENDIX-I

### Tables Presented

l'able	I	·	Number of units and population in the Sample and the Universe
Table	II		Sample Population and estimated population
Table	III	_	Vital events observed and estimated
Table	IV		Estimated vital rates and their co-efficient of viation
Table	V	_	Sex-wise distribution of birth, death and population
Table	$\mathbf{VI}$	·	Age and Sex-wise distribution of sample population
Table	$\mathbf{v}\mathbf{I}\mathbf{I}$		Vital events according to month of occurrence
Table	VIII		Sexwise distribution of deaths and age specific death rate
Table	$\mathbf{I}\mathbf{X}$		Age specific fertility rate (all women)
Table	X	· —	Births and Deaths classified according to medical attention
Table	XI	_	No. of events detected by Enumerator and Supervisor
Table	XII	· . <del></del>	Births/Deaths detected through overlapping survey and intensive survey
Table	XIII		Number of marriages by age
Table	VIX	-	Expectation of life

### APPENDIX-II

### List of Forms Used

Form		1		List of households
Form		2		Household schedule
Form	<del></del>	3		List of births by Supervisor
Form		4	-	List of deaths by Supervisor
Form		5		List of births by Enumerator
Form	_	6	_	List of deaths by Enumerator
Form		7		List of pregnant women
Form		10	-	Monthly reports of births and deaths
Form		11		Abstract results of half yearly survey
Form		12	_	Age-wise distribution of population
Form		15	- ,	List of marriages

TABLE 1-Number of Units and 1951 Population in the universe and in the samples SAMPLE REGISTRATION (RURAL SAMPLES) KERALA-1978

			Universe	Į		Sample		×	Rais ng factor 101
Stratum/Natural Division/ State	al Division/	Numbe	Number of units (1961 C	Census)	Mumber of units	Population	%units	<i>fo%</i>	stratum
		Segment (N)	Census Villages	Population (1961)	Selected (n)	(1961)	(n/N)	Samole Population	u/N
(1)		(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)
	A	85	85	27545	-	494	1 18	0,7	85 00000
<b>—</b>	В	164	164	196496		639	19	2.0	164 00000
	Ö	319	349	512766	' IC	7659	44	1.49	69 80000
	Д	1718	609	2731775	29	43473	1.68	1.60	59.24137
	LOW LAND	2316	1207	3393582	36	52258	1,55	1.54	
	A	498	493	151292	· •	341	0.20	0.23	493.00000
Ħ	В	791	791	593342	9	5241	0.76	0.88	131.83333
	ပ	1178	1178	1722319	18	2,7057	1.53	1.57	65.44144
	Q	4066	1566	6213177	99	101026	1.62	1.61	61,60606
	MID LAND	6533	4033	8683130	16	133665	1.39	1.53	•
	Ą	. 77	77	20310	:	:	:	:	
III	<b>£</b>	69	69	51719		976	1.45	1.89	69.00000
	O	145	1+5	215301	ಣ	4950	2.07	2.29	48,33333
	Ω	1161	356	1897938	19	30145	1.64	1.61	61,10526
	HIGHLAND	1452	647	2185828	23	36071	1.58	1.67	• 3
	STATE	10301	5887	14267540	150	991994	1.46	ת מי	

SAMPLE REGISTRATION (RURAL SAMPLES) KERALA—1975

TABLE 2—Sample population and estimated population

I-I-1976         I-I-1975         I-7-1975           (4)         (5)         (6)           (86         670         671           1095         1047         1073           79,3         10120         9903           47383         59623         59404           57137         71460         71051           421         437         432           6630         6630         6532           30281         36257         36395           109761         145037         144916         1           147093         188351         188325         1           1232         1229         1218         4732           4886         4688         4732         4688           29210         38175         46300         26506           35328         44092         46300         26506			Obse	Observed population in retained bortion			Sample Popul	Sample Population and Estimated Population—1975	ted Population-	-1975	
T-I-1975	Stratum			•		Cal	culated for whole	somple area	Estin	Estimated for the stratum	tum
1)	Region		1-1-1975		9/61-1-1	1-1-1975	1-7-1975	926I-I-I	1-1-1975	1-7-1975	1-1-1976
A 670 671 686 670 671  B 1047 1073 1095 1047 1073  C 7928 7838 79,3 10120 9903  D 47332 47415 47383 59623 59404  LOW LAND 56977 56997 57137 71460 71051  A 437 432 421 437 432  C 300,1 30135 30281 36257 36395  D 108661 109340 147093 147093 188351 188325 1  B 1229 1218 1232 1229 14783  C 4688 4732 44092 46300  STATE 937336 938390 939358  STATE 937336 938890 939358  A 6730 4688 4732  B 28630 64688 4732  B 3630 6500 6500 6530 6630  B 1229 1218 1232 1229 1218  C 4688 4732 44092 46300  STATE 937336 938890 939358	(1)		(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)
B         1047         1073         1095         1047         1073           C         7928         7838         79,3         10120         9903           D         47332         47415         47333         59623         59404           LOW LAND         56977         56997         57137         71460         71051           A         437         432         421         437         432           B         6620         6582         6630         6620         6582           C         30071         30135         30281         36257         36395           D         108661         109340         109761         145037         144916         1           MID LAND         145789         147039         147093         188351         188325         1           B         1229         1218         4732         4688         4732         46330         4732           C         4688         4732         4836         4688         4732         46300         46300           B         1229         1218         28653         28834         29210         38175         46300           STATE		¥	029	671	989	670	671	686	56950	57035	58310
C 7928 7838 79,3 10120 9903 D 47332 47415 47333 59623 59404  LOW LAND 56977 56997 57137 71460 71051  A 437 432 421 437 432 C 300,1 30135 30281 36257 36395 C 300,1 30135 109761 145037 144916 1.09340 1109761 145037 144916 1.09340  MID LAND 145789 147039 147093 188351 188351 188325 1.218 C 4688 4732 4836 4688 4732 D 28653 28834 29210 38175 46350  STATE 937336 938890 939358 30303 305576 30	H	В	1047	1073	1095	1047	1073	1095	171708	175972	179580
LOW LAND 56977 56997 57137 71460 71051  A 437 432 421 437 432 B 6629 6582 6630 6620 6532 C 30071 30185 30281 36257 36395 D 108661 109340 109761 145037 144916 11  MID LAND 145789 147039 147093 188351 188325 1  B 1229 1218 1232 1229 1218 C 4688 4732 4836 4688 4732 D 28653 28834 29210 38175 40350  STATE 937336 938890 939358 303003 305576		טב	7928	7838	79/3	10120	9903	10075	706376	691230	703235
A 437 432 421 437 432 432 6530 6620 6532 6532 6530 6620 6532 36395 3 30281 36257 36395 3 30281 36257 36395 3 30281 109340 109761 145037 144916 144916 147039 147093 188351 188355 18 1229 1218 4732 4688 4732 44692 46300 4 8TATE 937336 938990 939358 303303 305676 30				5,11,1	20071	23023	1061	23503	017777	5319173	3210004
A 437 432 421 437 432 B 6620 6532 6630 6620 6532 C 30071 30135 30281 36257 36395 3 D 108661 109340 109761 145037 144916 14 MID LAND 145789 147039 147093 188351 188325 18 C 4688 4732 4886 4688 4732 D 28653 28634 29210 38175 40350 4 STATE 937336 938990 939358 303903 305676 20			_	10800	2/13/	/1400	1001/	1221	446/182	4443412	4457989
B         6620         6582         6630         6620         6532           C         30071         30135         30281         36257         36395         3           D         108661         109340         109761         145037         144916         14           MID LAND 145789         147039         147093         188351         188325         18           C         4688         4732         4836         4688         4732           C         4688         4732         4636         4732           D         28653         28834         29210         38175         40350           HIGHLAND 34570         34784         35328         44092         46300         4           STATE 937336         938390         939358         30393         30393         305676         30		¥	437	432	421	437	432	421	217626	215136	209658
C 300.1 30135 30281 36257 36395 D 108661 109340 109761 145037 144916 MID LAND 145789 147039 147093 188351 188325 C 4688 4732 4836 4688 4732 D 28653 28834 29210 38175 40350 HIGHLAND 34570 34784 35328 44092 46300 STATE 937336 938890 939358	=	B	6620	6582	6630	6620	6532	6630	872737	867727	874055
MID LAND 145789 147039 147093 188351 144916 188325 188351 1229 1218 1232 1229 1218 4732 4836 4688 4732 4732 48053 28653 28634 29210 38175 40350 11GHLAND 34570 34784 35328 44092 46300 8TATE 937336 938990 939358 303903 305576 3		IJ,	300 I	30135	30281	36257	36395	36512	2372819	2381850	2389507
MID LAND 145789 147039 147093 188351 188325 18 B 1229 1218 1232 1229 1218 C 4688 4732 4886 4688 4732 D 28653 28834 29210 38175 40350 4 HIGHLAND 34570 34784 35328 44092 46300 4		a	109901	109340	109761	145037	144916	144812	8939553	8932095	8925685
B 1229 1218 1232 1229 1218 C 4688 4732 4886 4688 4732 D 28653 28634 29210 38175 40350 4 HIGHLAND 34570 34784 35328 44092 46300 4 STATE 937336 938990 939358 303003 305576 300				147039	147093	188351	188325	188375	12402735	12396808	12393905
G 4688 4732 4836 4688 4732 D 28653 28834 29210 38175 40350 HIGHLAND 34570 34784 35328 44092 46300 STATE 937336 938890 939358 303003 305576 3		B		1218	1232	1229	1218	1232	84801	84042	82008
28653 28834 29210 38175 40350 34570 34784 35328 44092 46300 937336 938890 930358 303003 305576 3	111	U,		4732	4836	4683	4732	4886	226587	228713	236157
34570 34784 35328 44092 46300 937336 938890 93958 303903 305676 3		<b>.</b>		28834	29210	38175	40350	40878	2332698	2465598	2497861
938890 939358 303003 305676		HIGHLAN		34784	35328	44092	46300	46906	2644081	2778353	2819026
2000		STAT	E 237336	238820	239558	303903	305676	306592	19513998	19618573	19675920

# SAMPLE REGISTRATION (RURAL SAMPLES) KERALA 1975

TABLE 3-Vital events observed in retained portion and calculated for whole sample area and estimated for stratum

				٠.													-						400	
		Infant	(13)	340	328	698	5276	498	1186	2356	16087	20127	138	296	5133	6238	31641				Infant death e per thousad	live births	(6)	153.85 74.07
Pri aratt	Estimated for stratum	Still	(12)	:		558	2335	:	132	1440	4746	6317	69	6	2139	· 2305	10957				Inf rate p	ļi		
estimated 101	Estimated	Deaths	(11)	935	1640	6071	37614	1494	6328	19371	76305	102408	828	2415	21997	25240	166352			;	Still birth rate	per thousand births	(8)	
		Births	(01)	2210	4428	18148	115247	6474	22147	62498	255174	346293	3036	10681	77358	91075	552615	rates				ş .		
מיווים שובש שווח		Infant	(6)	4	2	019	88	<b>-</b>	6	36	261	307	7	20	84	106	495	and infant death rates			Natural growth rate	<b>%</b> ,	(7)	2 24 1 58
207	Whole sample area	Still	(8)	. ;	• (	ဆင္က	88	•	-	22	77	100	-	2	35	38	176	13	20	ale	Co-esficient	of variation	(9)	: :0
	Whole so	Deaths .	(7)	=	0 5	480	597	က	48	296	1238	1585	12	20	360	422	2604	d still birth		Crude death rate				
		Births	(9)	26	27	1597	1840	13	168	955	4140	5276	44	221	1266	1531	8647	death rates and still			Per thousand	population	(5)	16.39 9.32 8.78
•		Infant deaths	(5)	40	× 0	55.0	99	(	<b>5</b> (	30	198 890	238	7 6	20	ဥ္	82	386			<b>9</b>	Co-efficient	of variation	(4)	: 01
	Retained portion	Still	(4)	:	• "	24	30	:•	Ç	Σ (	120	ζ-	٠ ،	N !	22	278	132	4-Estimated birth and		Crude birth rate				
	Retain	Deaths	(3)	Ξ.	2,5	391	482	20 6	54.0	240	929	1500	77	0.0	238	220	2038	TABLE 4—Es		د	Per thousand	population	(3)	38 75 25 16 26 25
	X **	Births	(2)	26	206 206	1219	1478	13	702	2120	4118	4.1	ָּבְּרָבָּרָ בּבְּרָבָרָ	171	1171	700	77/0	TAI		No. of	samples	in stratum	(2)	2 1 7
	Region			Y Y	Ö		VLAND	ď æ	ع د	) C	CNAL	2	ع ت	) C	HIGHT AND	Linear Fr	.					111 31	•	<b>∀</b> #U
	Stratum Region		Ξ	н			LOWI	E	;		MID		111	•	HICI	STATE				Stratum	Region		$\equiv$	н

Stratum	No. of	Crude b	Crude birth rate	Ċ	Crude death rate				
Region	samples in stratum	Per thousand population	Co-efficient of variation	Per thousand population	d Co-essicient of variation	Natural growth rate %	Still birth rate per thousand	Infant death rate per thousad live births	
(1)	. (2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	
∢.	-	38 75	•	16.39		2 24	5 0	152.85	
<b>м</b> і	-	25 16	•	9.32	) u	- 1	•	74.07	
D (	ഹ	26 25	10.5	8 78	68	1 75	99 83	48.46 48.46	
U D	29	25 71	4 3	8.23	4.2	1 75	19.27	15.38	
LOWLAND	36	25.94	3.9	8 47	4.3	1.75	19.86	45 78	
∢.	(	30 09	•	6.94		2.32	:	26 92	
9 C	۽ م ,	25.52	7.6	7.29	14.2	1.82	5.92	53.55	
ם כ	87	26 24	9.8	8.13	8.0	1.81	22 52	37.70	
TIME ATTEN	8 5	28.57	23 e 23 e	8.54	5.8	2.00	18.26	63.04	
ם אוטבטוניי. מ	<b>1</b> 6	27.93	2 8	8.35	4.6	1.96	17.91	58 12	
ם ב	<b>-</b> 0	36.12	::	9.85	•	2.63	22.22	45.45	
;	. o	40.70	7.47	10.56	14.4	3.61	9.00	90.53	
HIGHT AND	03	21.37	<b>4.</b> (	8.95	10.4	2.25	26.91	66.35	
STATE	150	97.78	7.0	9.08	8.6	2.37	24.68	68.49	
	>	/1.07	2.3	8.48	3.3	1.97	19.44	57.96	

SAMPLE REGISTRATION SCHEME (RURAL SAMPLES) KERALA 1975

TABLE 5—Sex-wise dirtribution of highly deaths of hi

			TABLE 3-3	J-Sex-wise dirtriba	ution of birt	ths, deaths	dirtribution of births, deaths and population				
Region	Sex	Obse	Observed in retained portic	2	Ü	Calculated for the whole Sample ares	whole	Ectim	Estimated for the region	<b>u</b> 07	
		Births	Deaths	Population 1-7-1975	Births	Deaths	Population 1-7-1975	Births	Deaths	Population 1-7.1975	
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	
LOWLAND	Male Female	748	263 219	27874 25123	932 908	326 271	34743	58257 56990	20252 17322	2175419	
MIDLAD	Male Fi male	2137	632 604	56997 72346	1840 2744	597 810	71051 92 <sup>.</sup> )36	1152+7	37614 53092	4443412	
	All	4113	1236	74193 147039	2532 5276	775 1585	95389 188325	165960 346293	50406 103498	62)0336	
HIGHLAND	Female	545	133	17455 17329	822 709	249 173	23251 23049	48839	14955	1394992	
STATE	Male Female	3511 3511 3951	320 1082 956	34784 117875	1531 44°8	422 1385	46300	91075 286129	25240 88339	2778353 9673883	
	, Alli	6762	2038	23882)	4149 8647	1219 <b>2</b> 604	154746 305676	266189 552615	7801 <b>3</b> 166352	9941690 1961857 <b>3</b>	
CA171 S7/1050/77	50,77							The second secon	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		

SMT. 57/1052/77

STAMPLE REGISTRATION SCHEME (RURAL SAMPLES) KERALA 1975

TABLE 6-Mid year population by sex and g; (Retained portion)

1	A.;	(10)	5833	3146 .	3375	9524	3024	1445	9/9-	3605	3021	1723	1674	3523	7045	5062	3895	1243	850
				2	ž	22	22	72	<b>1</b>	13	13	=	10	ω			63		93
	Female	(6)	2860	11313	15036	14496	14155	12885	9746	7149	68v1	6214	5321	4171	3521	2533	1983	2761	150945
Siate	Male	(8)	2973	11833	15339	15028	13869	11560	8930	6556	6220	5515	5353	4352	3524	2529	1912	2482	117875
H.ghland	Female	(7)	441	1694	2117	2079	2071	1835	1402	1013	. 1026	906	774	604	443	362	232	322	17329
H.g.	Male	(9)	482	1705	2159	2176	2065	1712	1388	1017	896	839	817	669	510	361	258	568	17455
Mid and	Female	(5)	1779	6977	0413	9123	8756	7812	5034	4505	4102	37.6	3161	2477	2175	150	1210	1713	74193
W	Male	(4)	1834	7433	6708	9317	852/	1.07	53.13	4017	3503	35.9	5302	2589	2139	1547	1167	1566	72546
Lnuland	Female	(3)	637	2012	2000	26.96	0200	2230	0147	1679	16/0	1302	1300	000	828	011	140	07/	29123
$\Gamma_{\mathcal{M}}$	Male	(2)	657	3605	25.25	2000	9847	9190	1497	1300	1367	1924	1064	875	603	1021	40/	110	7/8/4
Age in Years			Below I Year	59	10-14	15—19	21-24	25-23	30-31	35-39	40-44	4549	50—54	55-50	60 64	40 69	50-52	+ 27	A I ages

2	
. 2	
4.00	
Section of the second	
Scaiffad!	
and deaths classified	
and	
7-Births	
TABLE	

	1 <b>4</b> 000		_						
	Dec.	(14)	Average	136	93		38	94 29	161
g*	Nov.	(13)		114	508		33 .	100 724	157
	061.	(12)	Marie wells of the beautiful	147	84 543		36	98 24	158
	Sepi.	(11)		116 330	87 533		49	114 31	194
occurrence	Aug.	(10)	THE REPORT OF THE PERSON OF TH	133	105 626	198	4. 8.	125 26	194
month of o	July	(6)	13000000000000000000000000000000000000	, 151 390	123 664		64	134 34	232
amg to m	June	(8)		115 364	95 574		33	98 35	171
led accor	May	(7)	THS	116 354	115 585	THE	36	88 24	148
urs ciassii	April	(9)	A. BIR	109 340	103 552	B. DEA	24	23.3	140
mur man	Marh	(5)		137	119		36	@ 3/ @ 16	149
	Feb.	(4)	u u	82 291	447		39	88	144
	Jan.	(3)		321	103 54 <b>6</b>	· ·	45.	34	150
	Total	(2)		1478	6762		482	320	2038
	, tion	(1)		Lowland fidland	State		Lowland	Highland Stores	otate:

SAMPLE REGISTRATION SCHEME (RURAL SAMPLES) KERALA 1735

	r	1	1	ſ																		
*			Female	(13)	69 04	11 21	18.11	1.5	34	1.71	3.08	1.12	2.79	2.50	4.32	7.67	12.21	. 16.98	40.85	95 26	7.90	1000000
×		State	Male	(12)	66 69	8.03	9.35	1.00	1.01	2.08	2.80	2.63	3.54	5.98	8.97	13.10	21.28	26.49	48.12	103.14	9.18	
. 13	th rate		All	E	66.18	9 63	2.11	1.15	1.18	1.88	2.94	1.84	3.15	4.35	6.65	10.44	16.75	21.73	44.42	98.99	8.53	
20	Age specific death rate	Highland	All	(10)	88.55	8.24	3.74	1.41	0.73	1.41	3.94	1.48	4.51	7.45	5.03	13.81	16.70	34.58	53.06	82.13	9.20	
	Age	Midland	All	(6)	65.87	10.05	1.69	1.08	1.39	2.03	2.93	4.88	3.14	3.66	7.74	10.86	15.59	18.67	42.91	95.46	8.41	
		Lowland	IIV	(8)	51.00	9.41	2.25	1.17	0.91	1.81	2.39	1.96	2.29	4.17	4.96	7.43	18.61	21.92	43.77	115.41	8.46	
			Female	(7)	180	128	. 58	19	19	22	30	œ	13	18	23	35	43	43	81	263	956	
		State	Male	. (9)	206	95	36	15	14	24	25	17	22	33	48	57	75	29	95	256	1082	
			All	(5)	386	223	64	34	33	46	55	. 25	4	51	71	S :	3 :	011	173	519	2038	•
8		High!and	411	(4)	82	28	16	9	<b>ω</b>	ა ;	<b>=</b> '		ກ ;	13	ဆ ှ	: :	9 1 2	25	26	5.	320	
	- 1	Midland	All	(3)	238	145	32	20	24			0.5	22	50	00.	22	50	3c .	102	313	1236	
	Number of deaths	Lowland	n		9	0	ပ္	<b>.</b>	٥-	_, -	7	10		7 0	<b>ງ</b> (	0 0	2.0	· .	o,	 	7	
The state of the s	Numb	Low	ПР	(2)	99		<b>a</b> `								٦.	<b>→</b> 0	00	Α.	4.	115	48	The state of the s
1		Age in years	<b>.</b>	(1)	7	1-4	6-5:	10-14	50-13	2024	1	20 04 Co	20-CC	*t04	15 CF	100 - 04 8 8 8 9 8	50 - 03	40-00	60-60	+ 9/	All	
		Age in year	) )	(1)	5.	1,	7.	101:	1 2 3		1	i	100	104	103	1 00 1 1 1	100	100		?		

TABLE 9-Number of births by age of mother/women by age/and age specific fertility rate. SAMPLE REGISTRATION SCHEME (RURAL SAMPLES) KERALA 1975

			Age of	Age of mother/women in years	in years				
REGION	15—19	20-24	25—29	50-34	35—39	4044	45-49	Total	Remarks
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(01)
			A-Numbe	-Number of Births by age of Mother	ge of Mother				501 800
Lowland Midland Highland State	125 366 104 595	549 1450 436 2435	443 1177 287 1907	198 588 178 964	129 396 121 646	33 116 37 186	20 8 829	1478 4113 1171 6762	:::
\ Female	292	1158	918	461	313	94	15	3251	•
		1	R-Number	Number of women in the age group	le age group				
Lowland Micland Highland State	3323 8756 207i 14155	35.38 7812 1835 12885	2410 5934 1402 9746`	1631 4505 1013 7149	1673 4102 1026 6801	1512 3795 936 6214	1386 3161 774 5321	15178 38066 9027 62271	::::
	30		C−A g	C-Age specific fertility rate	ity rate			T.F.R.	GFR
Lowland N'idland Highland All State	37.6 41.8 50.2 42.0	169.5 185.6 237.6 189.0	183 8 198 3 204 7 195.7	121.3 130.5 175.7 134.8	77.1 95.5 117.9 95.0	21.8 30.6 40.8 29.9	0 7 6 3 10 3 5.5	8. 8. <b>4.</b> 8. 4. 4.5. 4.5. 6.	97.4 108.0 129.6 108.6
(Female	20.6	80.0	94.2	64.5	46.0	15.1	2.8	1 67	52.2

105 331 11.6 562

85 214 37 336

192 442 95 729

160 249 62 411

> 320 2038

482 12:6

Low land Mid land High land State

None

Unrecognised Practitioner

Recognised Practitioner

Institutional

Total deaths

Region

 $\widehat{\Xi}$ 

(3)

(3)

(4)

3

(<u>6</u>

SAMPLE REGISTRATION SCHEME (RURAL SAMPLES) KERALA—1975 TABLF 10 A-

	,	Notes to N	7012116	(7)	6 15 21	
		Non-Professional		(9)	22 616 328 966	
ical Attendance		Untrained Professional	/	(6)	481 1461 413 2355 Medical Attendance	
Births Classified According to Medical Attendance	Type of attendance	Trained Professional	(4)	(±)	426 481 882 1461 167 413 1475 2355 hs Classified According To Medical Attendance Type of medical artendance	
Births Class	7000000000	In titutional	(8)	(-)	519 1148 248 1945 <b>Deaths</b>	
TABLF 10 A-		Total	(2)	1470	1478 4113 1171 6762 <b>TABLE 10 B</b> —	
		R.g.on	(E)	Low lard	Mid land land land State	

SMT. 37/1052/77

SAMPLE REGISTRATION SCHEME (RURAL SAMPLES) KERALA—1975

TABLE -11

Births and deaths netted by enumerators and supervisors and detected through overlapping and intensive surveys

1	1 3	78	I	1				ı .	Í			1	ì	1			
		Grana totat	(71)	482	236	320	.038					Total	(11)	31	83	20	134
	puv Si.	น์ (คำโรงช( รบระกรโกร้	91)	31	83	20	134					Other deaths	- 1		62		96
DEATHS	By Sr. alone	%	(15)	88 0	91 5	93 7	91.0		HS		Kind	Othe					
DEA		χο.	(14)	397	105.5	281	1733	sá	DEATHS			Infant deaths	(a)	. 8	_	റെ	•
	By Er alone	%	(13)	8.5 8	84.2	81 3	84.1	surve:		TANK THE PROPERTY OF PERSONS AND THE		Infant	(6)		21		oc C
	By	γο.	(12)	387	126	244	1602	and intensive surveys			Plare	Out	(8)	9	31	r. ć	75
	<b>4</b> ∃ 0,	nommo & bna		333	873	225	1431				1	$I_n$	(2)	25	52	35	76
	1 <u>3</u> (	Vetted by	(10)	451	1153	300	1904	rlapping				Still births	(9)				
	าย	101 puv19	) [6]	1478	4113	1171	6 6.3	1 over			p	Sti	2				
	puo 841	ddolrsaO wienslni	(8)	į.	234		401	through			Kind	Live bivths		80	4.	ණ	
	By Sr. a'one	%	(7)	91.4	95.2	94.3	2.4.3	nts detected through overlapping	*	*		Live	(5)	88	234	73 401	
	By	No.	(9)	1271	3691	1030	2996	events		i.							
	By Er. alone	%	(5)	81.8	84.15 1.3	80.0		Extra eve				Out	(+)	44	137	40 221	
	By E	No.	(4)	1137	3265	874					P ace						
BIRTHS		and Sr.	(3)	1018	3077	812		TABLE 12	BIRTHS			In	(3)	44 6	30	180	
	Netled by	3 2 3 2 2 2	(2)	0.81	3879	1092		L				Total	(2)	88 934	7.3	401	
				<b>7</b> 71 -		å å.											
	Region		Ξ	Low land	High land	State			**		Region			Low land Mid land	High land	State	
			- 1														

SAMPLE REGISTRATION SCHEME (RURAL SAMPLES) KERALA—1973

TALLE: 13... Number of marriages classified according to ag: 1975

						N <b>A</b> I	9			
	To archemistre, see 6 18			£	2.14				ıle	26 73 76 91 11
								1	Female	28.76 28.76 24.91 20.81 16.27 12.61 9.61
iages	Females	1	633	226 · 36	3	<b>*</b> 1726		(6)		
All marriages	Males	(9)	23 376	573	2. E.	15 1196	for 1973 74 2-3		Mate (3)	34.52 30.39 26.21 22.23 18.53 15.05 11.88 9.25
Birdin ed parachide (Birty ) Equal (Alberty) parachide and St. Birdin and St. Bir				ar ar			death rates	117	(2)	37.39 32.98 28.67 24.56 20.74 16.09 12.25 9.43
iage	Females	(5)	13	85 87 o	) (N 4	125	(Based on age specific death rates	Age	(1)	35 40 45 50 60 65
Remarriage	Males	(4)	: 8 8	25 19 19 19	. 9	68	1	A		
			1				Expectation of life in years.	Female	(4)	63.26 66.93 65.08 60.72 56.00 51.36 46.76
First man iage	Femalse	(3)	620 767	18	<b>-</b> :	1601	tation of li			
First m	Males	(2)	28 373 541	129	<b>'</b> :	1107	Ехрес	Male	(6)	60.51 63.70 61.58 57.57 52.82 48.04 43.46 38.95
-				*			14-			
							TABLE 14	ΠΨ	(2)	68.18 66.05 64.63 60.36 55.63 50.92 46.34 41.88
Age group		(1)	15—19 20—24 25—29	35—34	40-44	All		Age	(1)	0 1. 5 10 15. 20 20 25 30.

20

## SAMPLE REGISTRATION SCHEME (RURAL SAMPLES) KERALA—1975 TABLE 15— Birth rate, Death rate, etc. in the Districts

	No. of samples		18	Death rate		Still birth	Infant	
District	•	Rate per 1000 Population	C. V.	Rate per 1000 Population	c. v.	rate per 1000 births	mortality rate ner 1000 live births	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	7
rivandrum	9	26.31	5.32	7.67		29 6 00		-
Quilon	16	22.07	9.02	7.21	11.73	18.65	55.94	
Alleppey	12	24.39	7.91		7.48	17.39	36 52	1152
Kottayam	6	22.07	6.84	8.34	13.91	16.99	38.22	3
Idukki	6	39.21		8.81	11.35	10.36	62.18	
Ernakulam	13	22.33	16.70	9.58	14.51	28.41	99.43	
Trichur	16		5 42	7.33	7.64	13.13	43.76	1
Palghat	16	26.46	4 42	8.07	10.03	15.96	58.51	
Malappuram		34.27	7.00	13.C5	6.51	19 38	50.00 <del>.00</del>	
The same of the sa	17	<b>35.53</b>	6.95	10.13	8.98	23.13	87 80	
Kozhikode	21	28.52	5.26	7.59	10.28		68.28	
Cannanore	18	29.34	4.91	7.56		23.64	42.14	
	19	- portion	- Service Administra	7.30	9.39	22.36	45.73	

# BUREAU OF ECONOMICS AND STATISTICS KERALA, TRIVANDRUM

### List of Priced Publications

- 1. Statistical Hand Book of Kerala 1972 (Latest) and back issues
- 2. Basic Statistics relating to Kerala Economy 1956-57 to 1973-74
- 3. Administration report 1974-75 and back issues
- 4. Land Reforms Survey of Kerala 1968
- 5. The Third Decennial World Census of Agriculture 1970-71—Report for Kerala State Vol. I and II
- 6. Demographic Report of Kerala 1901-61 (with addendum for 1971)

Copies of the above Publications can be had from the Superintendent of Government Presses, Trivandrum.

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