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VOL. VI PART 1B

VITAL STATISTICS WEST BENGAL 1941-1950



By A. MITRA

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and

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CONTENTS

PREFACE'

a a											F	AGE
Preliminary remarks	_											1
Errors in registration of vital statist	tics											. 3
Births · · · ·											•	4
Deaths				•								4
Deaths by age, sex and communities				•								4
Deaths classified by cause of death						•						5
Death rate from child birth												8
Health Services of West Bengal .				•								10
Food production												11
Roads						٠.			•		•	13
Protected water supply										•		14
Housing in crowded areas												16
Diet · · · ·				•								18
Middle class family budget enquiry, I	1945-4	l6 .						•				20
•												
		en a :	DI EC									
		TA	BLES									
1. Table 1. Actual number of bi- State of West Bengal during	g the	e deca	de 194	1-50			•		•	•	•	21
2. Tables 1.1—1.10. Actual number State of West Bengal, division	er of n and	birth	s and ct duri	death ng 194	s repo 1-50 .	rted •	for	each	sex •	in •	the	21-26
3. Table 2. Total births 1941-50 f												27
4. Table 3. Births rates—number on the population of 1941 for female and districts.	r the	year 1	1941-50	and e	each in	divid	lual :	year •	by m	ale •	and .	27
 Table 4. Births rates—number on the estimated population of by male and female, district 	n 30th	ı June	of eacl	n year	nd of th 1941-50	and	for e	each y	on ca ear s	lcul speci	ated ially	28
6. Table 5. Female births reporte district 1941-50 and for each				d male		rep		annı	ıally	in e	each	28
7. Table 6. Total deaths 1941-50	-		-	· bv m				hv d	istric	te .	•	29
8. Table 7. Death rate—number of population of 1941 for 1941-50	f dea	ths per	one th	nousan	d of the	e sam	ne sex	k calc	ulate	d on		29
9. Table 8. Death rate—number of estimated population on 30th of the state of the s	f dea June	ths per of each	one tl	nousan 1941-50	d of the	e sam ale an	ne sez nd fer	k calc	ulate	d on listri	the	30
10. Table 9. Annual death rate be thousand of the same sex as year by male and female and	nd ag	e livin	g at t	he cen	sus of	(de 1941	aths) for	repoi 1941	rted -50,	per for	one each	30
11. Table 10. Female deaths per o	ne th		i male			all y i	in ea	ch di	strict	194	1-50	31
12. Table 11. Number of deaths a for males			orted i	or eac	h sex	at giv	ven a	age gr	oups	194	1-50	31
13. Table 12. Number of deaths at for females	nnual			or eac	h sex	at giv	ven a	age gi	oups	194	11-50	32
14. Table 13. Female deaths per 1941-50 and for each year	one 1	thousai	nd ma	le deat	ths an	nuall	y by	selec	ted	relig	gions	33
15. Table 14. Monthly average nur religions (Hindu and Muslim	mber	of fen	nal e d					d ma	le de	eath	s all	33
16. Tables 15.1—15.12. Annual desplague, dysentery, diarrhea, tuberculosis of lungs, suicide snake bites by sex 1941-50 a by male and female, district	aths in the second of the seco	from seric gro ld birth deaths	selected oup o h, mals s repor	d caus f fever aria, k ted, ye	es, i.e. rs, resp ala-aza	, cho irato r. tul	olera, ory d	isease dosis	s oti of lu	her Ings	than and 11-50	
17. Tables 16.1—16.12. Annual des 1941-50. Reported annual de the population of 1941 for (12 tables)	eath :	rate pe 50 and	er one	thousa	and of	the :	same	Sex	calcu	ılafe	d on male	

(ii)

18.	one th	FACE 1—17.12. Number of deaths reported from selected causes as stated above r r ousand deaths from all causes by sex for period 1941-50 and for each year le and female, district by district (12 tables)
		APPENDICES
1.	Appendix	A-A brief account of the history of Vital Statistics in West Bengal 52
2.	**	B-Extracts from the Report of a Pilot Survey held in the districts of Cankura, Nadia, 24-Parganas, Malda and Darjeeling in the year 1948 58
3.	••	C-The Bengal Births and Deaths Registration Act of 1873 62
4.	••	I-Milestones in the development of vital statistics in India and outside 64
5.	**	II-A calendar of registration of vital events from 1870 in Eengal 64
6.	,,	III—List of Notifiable Diseases
7 .	**	IV—Births and Deaths since 1879 in districts of West Bengal 67
8.	••	V—Good and bad registration areas by districts of West Bengal

PREFACE

'It is as reasonable to represent one kind of imprisonment by another, as it is to represent anything that really exists by that which exists not!'

—"Robinson Crusoe's Preface" to the third volume of Robinson Crusoe—Daniel Defoe (quoted by Albert Camus in The Plague).

At the instance of the Superintendent of Census Operations, West Bengal and Sikkim, the Assistant Director, Vital Statistics, to the Directorate of Health Services, West Bengal, compiled sixty tables of which eighteen were principal and fortytwo subsidiary. The tables devised on the subsidiary tables and statements printed in the 1931 and 1921 Reports for the Census of Bengal thus making comparisons possible over a period of forty years (1911-1950). The fortytwo supporting tables yield details hitherto inaccessible to any but departmental workers and crude absolute figures are given as much as possible, considering how misleading percentages and rates are liable to be of figures already suspect and often patently spurious.

One can quite pertinently ask, why, then, bother to publish figures that are incorrect, if not false, that underestimate several kinds of vital occurrences as much as several times the published figure? Are they intended for makebelief, whitewash or an apology?

It will not take the experienced eye more than a few minutes to discover how untrustworthy the crude figures are by themselves, and, indeed this little preface will not attempt to conceal the many defects and loopholes. Yet the tables are presented with two objects in view. Firstly, it seeks to focus public attention on the deplorable state of birth and death registration in our country. In 1933 L. S. Vaidyanathan observed in his Actuarial Report on the Census of India 1931 that "a study of the figures in the Table will show that Delhi. Assam and Bengal are almost in the vanguard of provinces that maintain inaccurate vital records as the increases in the population of the decade in these provinces traced through vital records are nearly 64, 61, and 57 per cent. respectively in defect of the increases revealed by the census enumeration." As will be presently stated the position, instead of improving, has deteriorated even by 1931 standards.

Not that registration of vital occurrences even in countries like Great Britain and the U. S. A. is perfect, but whereas in these and other countries a ceaseless effort goes on to perfect the machinery by legislation and propaganda, the primitive machinery in our country,

never sought to be improved, is breaking down for apathy and lack of administrative supervision. The importance and value of vital statistics for Public Health Departments, to medical science and to other social needs are increasingly realised. In an atmosphere thick with the fumes of planning the fact that Vital Statistics "define the problems and measure the results of publichealth work", and form the basis of all intelligent programmes is generally admitted, medical men and researchers deplore the present state and method of collection, while the uses of a birth or death certificate are becoming far too numerous even in the life of the common man. But the determination to improve registration is lacking. Very few of us even know that a birth or a death is compulsorily notifiable within eight days of its occurrence, that the law lays down penalties for failure to report, that this law is as old as 1873. This legislation has never had teeth in it. A pilot survey conducted in 1947-48 by the Assistant Director, Health Services, Vital Statistics, to the Directorate of Health Services, in certain parts of West Bengal recorded widespread apathy, even hostility on the part of physicians and midwives towards registration. The State Government now propose to introduce the compulsory issue of birth certificates to all school-going children in Primary and Secondary Schools and thereby popularise birth and death registration. They also propose to fasten the responsibility of reporting births and deaths on physicians and midwives through the Rural Health Centres, but until the importance of registration is driven home to the minds of the common people through long years of steady propaganda, physicians and midwives made legally liable, the chances of the idea catching on are small. The U.S. Department of Commerce through the U.S.A. Census Bureau issues to every physician a Physician's Handbook on Birth and Death Registration which describes the duties of physicians and midwives on the filling of certificates of birth and death, the method of their preparation, the importance of registration, the system of registration, and an International List of causes of Death for ready reference and as if to interest and invite the physician to take pride in his work as a contribution to the Nation, it publishes as an appendix C eight tables and four charts summarising and

^{&#}x27;Census of India, Vol. I; Part I India Report, p. 111.

showing the trends of vital occurrences in the U. S. A. First prepared in 1910 it was revised and published in 1939 and given to every practitioner. A similar booklet, and an imperative mood in the law's grammar respecting them, may induce physicians and midwives to take more active interest.

In the second place, the tables, while they are their own apology and although the crude figures they record must be largely fictitious, yet present a picture consistent within their framework, a logic of reality in spite of the figures being unreal. It will be seen that underregistrations are fairly uniform and do not take sudden leaps and bounds from year to year, and the texture of reporting of vital occurrences by causes of death has the virtue of an even tension. In the majority of the tables few distinct trends are noticeable—this corresponds to general and expert experience—and insofar as they are so, they yield clues to the real state. This achieves the second object, that the tables exhibit ratios, tensions and relations that correspond to reality, while the data are unreal—and therefore do not deserve to be summarily dismissed. They give food for thought.

Population—West Bengal's population in the 1951 Census (1 March) stands at 24,810,308. The population in 1941 (1 March) for the same area was 21,837,295. There has been thus an apparent increase of 2,973,013 persons or 13 6 per cent. in population over the decade. But in the following discussion, figures of Cooch Behar not having been included in the tables, the population of Cooch Behar is excluded upon which the population of West Bengal stood at 24,139,150 on 1 March 1951 and 21,196,453 on 1 March 1941, showing an apparent increase of 2,942,697 or 13 9 per cent. in population over the decade. This however does not take into account the immigra-

tion of refugees into West Bengal from Pakistan and the steady migration into Calcutta and other districts from other Indian States and foreign countries. Displaced persons from Pakistan numbered 2,117,896 inclusive of Cooch Behar and without that district 1,999,154 on 1 March and although clear instructions were issued to enumerators not to show as displaced infants and children born to displaced parents after their immigration, it is by no means certain that these instructions were strictly observed. Figures of immigration into West Bengal during the decade cannot be set off against total increase so readily. because immigration in the census is judged by return of place of birth and not by date of entry into the State. Thus the figures of immigration that will be eventually published in the Census tables will include those that were counted as migrants in past censuses and only detailed but faulty investigation by age groups may yield a partial clue to the figures of migration between 1941 and 1950. Natural increase is therefore very difficult to assess and Statement 1 merely gives in absolute figures the excess of registration of births over deaths by sex and district. But it is pertinent to try to assess the natural increase by the exclusion of displaced persons which yields 2,942,697 less 1,999,154 or 943,543 for West Bengal excluding Cooch Behar, or an increase at the rate of 4.51 per cent, for the decade or an annual rate of increase of 46 per cent. The excess of births over deaths numbered 362,105.

Errors in registration of vital events—When this figure is compared with the actual increase of population over the decade it reveals a defect of about 88 per cent. in the registration of births and deaths. The findings for each district in Statement 1 will show a similar degree of defect and a very similar ratio. If, however, the total of displaced persons is considered the defect in

STATEMENT 1
Vital Statistics 1941-51

Districts	Census 1941	Census 1951	Variation 1941-61 according to consus Excess(+) and deficiency ()	Births 1941-60	Deaths 1941-50	Excess of birth over death(+) deficiency(-) during inter- census period	Difference excess (+) deficit (—) of column over column 7	Column 8 in percentage to solumn 6
1	2	3	4	5	6	7	8	y
Buriwas	1,890,732	2,191,667	+300,935	421,749	372,214	+ 49,535	+251,400	*4
Birtitum	1,046,317	1.060,849	+ 15,572	277,689	247,396	- 9,707	+ 28,279	154
Manhura	1,279,840	1,319,259	+ 29,619	315,624	268,935	+ 46,679	- 17,070	₽ ن
Midnapur	3,190,647	3,359,022	+168,375	771,046	649,H76	+ 121,170	+ 47,205	24
Houghly	1.377,729	1,554,320	+176,591	300,003	233,206	→ 75,657	+ 1111,934	67
Howrah	1.490,304	1.611.373	+121,049	244,837	257,270	- 12,433	+133,502	110
24-Parranas	3,669,490	4.604,309	+ 939.819	668,128	572,090	₩ 96,038	+ 843,751	9 41
Calcutta	2,108,891	2,54*,677	+439,780	344,718	427,269	- 82,651	+ 522,337	110
Natio .	e-01, 104-9	1,144,924	+ 304,621	226,391	237,648	— 11,257	+315,578	104
Mureludahad	1,640,530	1,715,759	♣ 75,229	4_9,599	393,734	+ 30,565	+ 41,464	وا د
West innapper	583,4~4	720,578	+ 137,0mg	148,989	140,165	→ 8,824	+ 125,263	114
Jalieuguri	845,70%	V14.5.18	+ 66,536	231,953	215,569	+ 16,364	+ 52,472	74
Darpeoung	\$76,369	445,264	+ 65,591	105,825	98,050	+ 7,775	+ 61,114	×y
Maida	M44, 113	937,550	+ 93,265	165,574	140,437	+ 25,136	+ 65,129	7.5
Total for West Bengal (c.	x- <u> </u>	24,139,130	+ 2,942,697	4,660,904	4,290,8+9	+ 462,100	+ 2,500,592	8.9

^{&#}x27;Physician's Handbook on Birth and Death Registration: U. S. Department of Commerce, Bureau of the Census 1939. Priced 15 cents but available without charge from the Bureau of the Census, upon request.

registration reduces to 62 per cent. and Statement 2 gives Statement 1 corrected for the numbers of displaced persons for every district and for the State. This defect would no doubt reduce further if an accurate assessment of migrants were possible but even then the defect in registration does not compare unfavourably with that of the previous decade (1931-40) which was 62.3 per cent. Considering that a great many of the primary reporters—the village watchman. —deserted owing to their meagre pay or recruited in the World War II or removed by famine in 1943, not replaced until after several years, reasons sufficient to cause a grievous breakdown were it not that the law held a great deal of fear and sanctity for this class of people, the defect in registration cannot be regarded as unusual.

STATEMENT 2 Errors in Registration of Vital Statistics (without Displaced Population) 1941-51

Districts	Census 1941	Census - 1951	Difference in population	Displaced population	Natural increase in population	Births 1941-50	Deaths 1941-50	Difference	Col. (6) minus Col. (9)	Col. 10 in percentage to Col. 6
1	2	3	4	5	. 6	7	8	9	' ìo	11
Burdwan Birbhum Bankura Midnapur Hooghly Howrah 24-Parganas Calcutta Nadia Murshidabad West Dinajpur Jalpaiguri Darjeeling	1,890,732 1,048,317 1,289,640 3,190,647 1,377,729 1,490,304 3,669,490 2,108,891 840,303 1,640,530 583,484 845,702 376,869	2,191,667 1,066,889 1,319,259 3,359,022 1,554,320 1,611,37 4,609,309 2,548,677 1,144,924 1,715,759 720,573 914,533 445,260	+ 168,375 + 176,591 + 121,069 + 939,819 + 432,786 + 504,621 + 75,229 + 137,089 + 68,839 + 68,891	96,105 11,783 9,294 33,579 51,153 61,096 527,262 433,228 426,907 58,729 1,15,510 98,572 15,738	+ 204,830 + 6,789 + 20,325 + 134,796 + 125,438 + 59,973 + 412,557 + 6,558 - 122,286 + 14,500 + 21,579 - 29,736 + 53,153	421,749 277,689 315,624 771,046 308,863 244,837 668,128 344,718 226,391 429,599 148,989 231,953 105,825	872,214 287,396 268,876 1233,206 257,270 572,090 427,269 237,648 398,734 140,165 215 589 98,050	+ 49,535 - 9,707 + 46,689 + 121,170 + 75,657 - 12,433 - 82,551 - 11,257 + 30,865 + 8,824 + 16,364 + 7,775	+ 155,295 + 16,496 - 26,364 + 13,626 + 49,781 + 72,406 + 316,519 + 89,109 - 111,029 - 14,365 + 12,755 - 46,100 + 45,378	243 130 10 40 121 77 1,359 91 87 59 155 85
Maida	844,315 21,196,453	937,583 24,139,150	+ 93,265 + 2,942,697	1,999,154	+ 33,067	165,573 4,660,984	140,437	+ 25,136	+ 7,931 + 581,438	62

TOTAL for West Bengal 21,196,453 24,139,150 +2,942,697 1,999,154 (excluding Cooch Behar)

Applying the average rate of increase over the decade, and excluding the displaced population, the annual increase in population comes to 94,354 or 45 per mille. The decade had no dearth of Malthusian checks, of which more presently. The ardent Malthusian will be delighted at the poor rate of growth to the curbing of which war, famine, pestilence, civil commotion and rioting and chopping off of the country lent generous hands. Table 3 shows the total births by male and female, district by district, year by year, as well as the decennial average for the whole of West Bengal, while Table 7 correspondingly shows the total deaths. The devastating sweep of the famine will be evident from a comparison of the two tables. Only two districts, Hooghly and West Dinajpur, showed a small excess of births over deaths in 1943, and Darjeeling showed a small excess in respect of female births. All other districts went down heavily under the sickle of death, whereas none of them, except Calcutta, where a trend of depopulation seems to be chronic up to the end of 1948, showed signs of a decreasing population up to 1942. Between 1881 and 1890 there was a bad famine and the Census Report for 1891 had occasion to observe how it took from three to four years to restore the vitality of the worst affected tracts1. A similar period was taken after 1943. Births touched the lowest mark in almost all districts in 1944 the year immediately after the famine, while

deaths over births continued in Burdwan, Bankura, Midnapur, 24-Parganas and Malda in 1943 and 1944; in Howrah, Nadia, Murshidabad, Jalpaiguri and Darjeeling through 1943, 1944 and 1945. In Calcutta excess of deaths over births chimed in with this trend and swelled the figures inordinately. Birbhum took the longest time to recover; excess of deaths over births continued till the end of 1947, to recover slightly in 1948 and 1949, to relapse again in 1950. Table 1 gives the births and deaths annually reported for the State of West Bengal for 1941-50 and confirms the above conclusions. The year 1950 was a year of bad health and epidemics and in Birbhum, Nadia and West Dinajpur deaths exceeded births. Births gained their peak in 1946,—life asserting itself over death—to taper off to normal proportions towards 1950, and figures of birth rates at the end of the decade as well as of death rates may nourish hopes of a small falling rate in both. But how far this seemingly reducing birth and death rates are real cannot be assessed with certitude, because on all showing there may have been a further fall in efficiency of registration since 1946. The average number of female births per 1,000 male births was 926.2 for 1941-50 and that for deaths was 918.5, and while the figures from year to year have fluctuated and show no definite regular trend it is a matter of concern that female deaths per 1,000 male deaths touched their peak in 1949 (955.6) for the decade. while figures for 1944-50 have been much higher than those for 1941-43 (Table 1).

they touched the highest in 1946. The excess of Census of India, 1891. Report Volume, p. 62.

Births—The distribution of births by sex, year and district during 1941-50 is shown in Table 3 while the birth rates are shown in Tables 4, 5 and 6. About 466 thousands of births per year were the normal experience for the State, 242 thousands being males and 224 thousands females, thus yielding a birth rate of 24.0 per mille on an average in the middle of each year, of which 12.3 per mille were males and 11·7 were females. There were more males born than females and the rate, 926.2 female births per 1,000 male births, for 1941-50 represents more or less the rate for the individual intermediate years. The birth rate starting at 25.5 in 1941 touched its lowest in 1944 at 17.9 as a result of the Famine, climbed again to 24.7 in 1946 to fall off steadily to reach 20.7 per mille in 1950. Before 1943 a birth rate of over 30 per mille of population was recorded by the districts of Birbhum (34.2 in 1941 and 34.8 in 1942), Nadia (32.6 in 1941 and 33.8 in 1942), Murshidabad (34.5 in 1941 and 33.0 in 1942), Jalpaiguri (30.7 in 1941 and 30.9 in 1942) and Darjeeling (30.1 in 1941), and a birth rate below 20 per mille was noticed only in the districts of Howrah (19.7 in 1941 and 15.7 in 1942), Calcutta (13.9 in 1941 and 9.4 in 1942) and Malda (17.9 in 1941 and 14.0 in 1942). The birth rate immediately after the Famine (1944) was lower than that in 1941 in almost all districts, and the proportionate fall in the birth rate was maximum in the district of Murshidabad (17.9) to be followed by Nadia (19.3), Birbhum (20.6), Darjeeling (20.5) and Jalpaiguri (21.2). Thus the districts where birth rates were the highest in 1941-42 showed the greatest relative fall in birth rate in 1944, decidedly a greater rate of fall than those districts which showed a smaller birth rate in 1941-42. Calcutta has been showing a steadily climbing birth rate since 1943, one reason for it possibly being greater efficiency in registration.

Deaths—Deaths by year, district and sex and averages for the decade are given in Tables 7. 8 and 9. About 429 thousand deaths per year were the normal experience for the State, 224 thousand being males and 205 thousand females, thus yielding a death rate of 20.3 per mille on an average in the middle of each year. The average specific death rate for males for 1941-50 was 194 per mille and for females 21.2 per mille. The specific death rate (number of deaths per 1,000 of the same sex) for females was found to be greater than that for males for every year of the decade in the districts of Burdwan, Hooghly (except in 1943), Howrah (except in 1943), 24-Parganas (except in 1943), Calcutta, Nadia (except in 1941, 1942 and 1945). Jalpaiguri and Darjeeling. The exceptions for 1943 in Hooghly, Howrah and 24-Parganas may well have been due to defective registration of female deaths in the Famine year. The remaining districts do not show any noticeable preponderance of male deaths per 1,000 males over female deaths per 1,000 females, but just a narrow often doubtful margin. The preponderance of female deaths per mille females over male deaths per mille males has been less than 2 in most districts and years but in Calcutta was as much as 20 2 in 1950, 18 6 in 1943, 18 in 1943, 16·1 in 1944, 15·4 in 1949, 14·4 in 1947, 12·1 in 1945, 11·5 in 1941, 11·1 in 1946, 5·5 in 1942 and 14·3 as the annual average for the decade (calculated on the estimated population at the middle of each year). This is 86 per cent, more than the specific death rate for males in Calcutta and the reason should be investigated.

The maximum deaths were registered in Burdwan, Hooghly, Howrah, Calcutta, Malda, West Dinajpur and Jalpaiguri in 1944, the year following the famine. It is possible that deaths in these districts had been greater in 1943, and went unregistered. Of these, none except Burdwan and West Dinajpur was a surplus ricegrowing district. Deaths touched their maximum in 1943 in the other districts (Birbhum. Bankura, Midnapur, 24-Parganas, Nadia, and Murshidabad) all of which were either surplus or self-sufficient in food-grains in normal times. Before 1943, death rates above 25 per mille were recorded in the districts of Nadia and Darjeeling. a death rate above 20 but below 25 per mille in Birbhum, Bankura, Murshidabad and Jalpaiguri, a rate below 20 in the remaining districts, the lowest being Malda. In 1943 all districts showed very high death rates, Nadia recording the maximum, followed by Birbhum and Murshidabad where the death rate was around 30 per mille. The rise in death rates between 1941 and 1943 was maximum in the Nadia district and next in Murshidabad where, it is pertinent to note, birth rates were the highest before 1943. Following the trend for birth rates, it may be observed that those districts in which the death rate was high in 1941-42 showed a proportionately greater rise in its rate in 1943 than other districts where the death rate was comparatively low before 1943.

Deaths by age and sex and communities— These are given in Tables 8-15. The force of mortality was found to be greater among females than among males, although the actual number of male deaths was more than female deaths. This apparent contradiction may be due to two causes: the preponderance of males over females in the State and the steady immigration of a large male population. The greater mortality among females must be a big factor in the steady decline of the female population of the State, where the gap between the number of males and females has been steadily widening since 1901. The ratio of female deaths to 1,000 male deaths was an annual average of 918.5 for the decade, but as has already been noted, female deaths per 1,000 male deaths have been greater in the years 1944-50 than in 1941-43. The greater mortality among females than among males,—a circumstance contrary to the expectations of a civilised country—is itself a grave enough reflexion on the state of its public health and the fact that it has been worse in the past three years than previously probably indicates how inadequate existing medical and public health measures have been to cope with a sudden influx of over 2.1 million refugees.

It may be mentioned in passing that in 1948 female deaths exceeded male deaths only in Burdwan, Calcutta, Nadia, Jalpaiguri, West Dinajpur and Darjeeling. But in 1944 female deaths exceeded male deaths in these other districts as well as in those of 1943: Birbhum, Hooghly, Howrah and 24-Parganas. In Hooghly, Howrah and Calcutta undernourishment and unemployment may have removed many women who were residents as well as those who had gathered from other districts.

The specific rate of female deaths during the decade was higher than that of male deaths in the age groups of 1-5, 5-10, 15-40 and 60 and above, while the specific death rate for males were higher than that for females in the age groups 0-1, 10-15 and 40-60 years. This more or less corresponds to a universal trend but the differences are far more acute than in western countries and absolute figures, even as they are, are depressing. The reasons for the higher specific mortality among females in the agegroups 1-5, 5-10, and 15-40, and 60 and above, not only as an annual average for the decade but for each year, may be found in the comparative neglect to which female children below 10 and women above 60 years of age are subject, greater risks attendant on women in the reproductive stage 15-40. Women enjoy a lower specific mortality than men only in the age groups 10-15 and 40-60, in the former because nature endows them with greater sturdiness in that period as is universally observed; in the latter because they have gone through the reproductive stage and are left in relative peace and comfort. Also because the hazards of life are greater for males in the age group 40-60 which are increased by the fate of the vast majority of males at these ages finding themselves the only breadwinners of their families and therefore bearing all the attendant strain and anxiety. Thus, these two groups do not indicate any exceptional social attention or medical aid, and the overall picture contributes to a steady decline of females.

The specific death rates according to ages show the normal U shaped curve. The bottom of

the U is at the age group 10-15 years, the death rate for infants between 0 and 1 being 172-1 for males and 156-0 for females, the death rate for the age groups of 60 years and above being 84-6 for males and 94-4 for females. Table 9 will show that infants and children up to 5 years of age fell the easiest victims to the 1943 famine, and next came persons aged above 30 years. Persons between the ages of 5 and 30 years suffered least and fought the Famine best.

Tables 10-12 illustrate and confirm the above remarks in detail. The districts of Howrah, 24-Parganas and Calcutta where the hazards of life for males are greater than those for females showed a greater number of male deaths than females, although the picture for specific mortality rates for males and females are necessarily different. The reproduction age takes a heavy toll of women, 1,246 female deaths for every 1,000 male deaths in age group 15-20, and 1,296 female deaths per 1,000 male deaths in the age group 20-30. The proportion of female deaths to 1,000 male deaths was an annual average of 918.5 for the decade, but as will be evident from this discussion this average conceals a number of gaping wounds which cry out for vigorous social and public health measures. The difference between male and female deaths greatly widened in 1943, the famine year, which can be partly explained by the defect in registration of female deaths at this period. But this difference narrowed down in later years. In Birbhum female deaths per 1,000 male deaths exceeded 1,000 in 1944 (1,035·2), 1945 (1,028·1), 1946 (1,012·9) and 1949 (1.015.7), and the same happened in Midnapur in 1948 (1,000-8) and 1949 (1,017-0) and it occurred also in Nadia in 1949 (1,017.0).

Tables 13 and 14 will show that female deaths per 1,000 male deaths are lowest among Christians (851.6 for the decade) and highest among Hindus (922.5) and intermediate for Muslims (896.3). An appreciable seasonal variation in the monthly averages of female deaths per 1,000 male deaths for all religions during the decade is noticeable in Table 15, the highest rate being touched in November and the lowest in June. In November, disease and confinement strike jointly their hardest while in June the comparative slackness of disease and paucity of confinements lower the rates. The female death rate per 1,000 male deaths for Hindus reaches its peak in November (970.4) while that for Muslims touches 9799; the trough is reached in June, Hindus standing at 894.6 and Muslims at 841.5.

Deaths classified by causes of death—This is where, next to overall defective registration of births and deaths, we find registration most at fault. Whereas even in 1939 the Bureau of the

Census of the U.S. A. claimed that "about ninetenths of all births and an even higher proportion of deaths which occur yearly in the United States are attended by physicians", it would not perhaps be an exaggeration to assert that about nine-tenths of all births and an even higher proportion of deaths in our country are not attended by qualified or unqualified midwives or physicians. Consequently causes of still birth (or an accurate record of it), death of infants at birth, maternal and infant mortality have never been properly investigated in our land except for small samples, and diseases causing death at ages over one year go improperly or fancifully recorded. It will presently be seen that in those districts where medical attention is more easily procurable deaths due to "Fever" have showed a steady decline. Causes of death are left to the fancy of the illiterate village watchman. Even in rural or town hospitals the clinical and therapeutic standards are such as would put under doubt quite a proportion of the declared causes of death. Against such a background it

is pleasant to note the even texture of the figures for each district over the decade; they even display trends. And be it noted that the figures are all crude figures and no effort has been made to graduate them.

Tables 15 series exhibit deaths due to different causes. The average number of annual deaths by sex due to each major cause during the decade together with their rates and proportion to total deaths is shown in Statement 3.

It will appear that about 54 per cent. of total deaths is claimed by Fever, a term which, frankly, means lack of diagnosis and perhaps treatment. 9.1 per cent. goes under respiratory diseases other than T. B. of the lungs, 6.7 per cent. under dysentery and diarrhoea, 4 per cent. under cholera, 2 per cent. under smallpox, 1.7 per cent. under pulmonary tuberculosis, and under 1 per cent. for other diseases. The magnitude of the problem for the State is thus obvious. The annual death rate by principal causes is given in Statements 3 and 4.

STATEMENT 3

Average number of Annual Deaths by Sex due to several causes with their Rates and Proportion to Total Deaths 1941-50

										Drates-		Ra	173	Prop	ORTION	TOTAL
									Male /		Female	Male	Female	Male	Female	
Cholers .								9,034	8,855	•8	1.0	40-8	43-0	41.0		
Fevers excludi	ne 1	Calari	s and	Kala	-alar					66,843	59,676	6-8	6-1	298-8	290.0	294-3
Small-pox										4,252	4,267	-4	•4	19.0	20.7	19-8
Plague .		-	Ċ		-					. 7	2	-001	•0002	.03	•01	•0≨
Dysentery and	Dia	rrbon	a and	enter	ic gra	un of	fever			14,756	13,956	1.8	1-4	65-8	67.8	66.8
Respiratory di					_			•		19,115	12,523	1.7	1.8	85· 3	8-08	78.6
Buicide .							•	•	•	552	539	•05	•1	2.5	2.6	2.5
Child birth	•	•	•	:	•	•	•	•	•	••	8,891	••	•8		16.5	7.9
Malaria .	:	•	•	•	·	·	•	·	·	51,923	50,747	4.5	5-2	231.7	246-6	235.0
Kala-asat	•	•	•	•	•	•	•	•	·	1,383	958	•1	•1	6.2	4.7	5-4
T. B. of lungs	•	•	•	•	•	•	•	•		•	2,621	•4	•3	21.5	12.7	17-3
Snake bites		•	:	•	•	:	:	•	•	4,826 87 3	771	•1	•1	3.9	8.7	3-8
•									-					774-5	769-1	771.8

STATEMENT 4

Decennial Death Rates per 1,000 Population in West Bengal 1941-50

Years										Cholera	Pevers	Small-poz	Dysentery, Diarrhoea and Enteric Group of Fevers	Majaria	Kala-azar	T. B. of Lungs
1941					_				•	•7	9-2	•4	1-2	4.0	•04	•35
1942		_		•	•			•	•	-6	8-5	-05	1.1	4.0	-07	•31
1943	•									2.7	15-8	•1	1.9	7.8	•09	•32
1944		-				•	•		-	1.0	16-3	1-1	1.7	7.9	-09	-85
1945	•	•		-	:					-4	11.7	1.2	1.2	5.9	-12	-23
1946	•	•		_				•		-5	10-6	•2	1.2	4-8	-15	-24
1947	_	•		-	•					-5	9-6	•1	1.8	3.9	-14	•36
1948		•	•				_			-6	9-1	-4	1.8	3.6	•14	-28
1242	-			•						-6	8-7	-1	1.3	3-6	-12	-37
1950	•		,	•	•	•	•	·	•	-6	7-7	-	1:8	3 ·7	-09	•34

Except for two understandably big leaps (in 1943, the famine year, and 1944, the aftermath) cholera has remained almost parallel to the base at the mean rate of 6 per mille. So has smallpox at 2 with two big leaps in 1944 and 1945 (the years following the famine) and two smaller leaps in 1948 and 1950 (the years of heavy influx of displaced persons). So have dysentery and diarrhoea remained steady at the mean rate of 1.3 (except for 1.9 in 1943 and 1.7 in 1944) and Kala-azar at the mean rate of .14 per mille. Malaria shows a slight decline from 1942 with peaks in 1943-46. T. B. of the lungs shows an upward trend during the decade.

districts of Howrah, 24-Parganas, The Calcutta, and Nadia recorded an average annual rate of deaths due to cholera of about 1 per mille, while Burdwan, Birbhum, Bankura, Midnapur, Hooghly, Murshidabad, Malda and West Dinajpur showed rates ranging between .5 and 1 per mille. Jalpaiguri showed a mean rate below 5 per mille and Darjeeling, the lowest mean rate of 1 per mille during the decade. The low rate in Jalpaiguri may be ascribed largely to the improved and protected watersupply in the majority of tea gardens which cover the district, and that in Darjeeling to a similar reason and the temperate climate. Nowhere else do the rates show the beneficent action of preventive inoculation or improved water-supply.

Very similar is the picture presented by small-pox. It reached peaks in 1944 and 1945 and again in 1950 for the State as a whole while individual districts suffered in no fixed pattern. Calcutta and Howrah showed the maximum death rate from smallpox (where however public health staff per capita are the largest), while Jalpaiguri, Darjeeling and Malda recorded the minimum. Dysentery and diarrhoea were prevalent in all districts together with respiratory diseases. There is no marked trend of decline and therefore no sign that the scourge is under control.

The worst districts for Fever were Birbhum, Nadia and Murshidabad while Hooghly, Howrah, 24-Parganas and Calcutta were better off. It should be noted that Birbhum, Nadia and Murshidabad constitute the central portion of the State where medical and public health conditions are poor. This may account for a large number of deaths having been returned as Fever, By contrast there is a larger proportion of qualified and unqualified medical practice in Hooghly, Howrah, 24-Parganas and Calcutta—which are predominantly urban;—mention of the causes of death is naturally more specific in these districts thus extricating a large number of deaths from the anonymity of Fever.

The decline in Malaria may be ascribed in a large measure to the intense drive of mepacrine,

atabrine, paludrine and quinine that followed the 1943 famine and continued unabated till last year. Mention also must be made of the antimosquito campaign conducted by the American, British and Indian Armies during World War II which made large tracts of the country pleasantly habitable and set up new standards of cleanliness and public health (for instance, Raja-bhatkhawa and the Duars of Jalpaiguri, Salbani and Khargpur in Midnapur, Ramporehat in Birbhum, Dhubulia and Ranaghat in Nadia, Panagarh in Burdwan and a number of places in 24-Parganas). The D.D.T. spraying conducted by the State in 1950 produced notable results and there is a new hope everywhere that Malaria is not inevitable. Malaria was worst in Birbhum, Nadia and Murshidabad, where the annual death rate was more than 9 per mille. Calcutta showed the lowest rate.

There is a very small but steady and noticeable decline in deaths from Respiratory Diseases other than T. B. of the Lungs in all districts except Malda and West Dinajpur, where they are surprisingly enough on the increase. This decline may be due to defective registration or to the increased efficiency of dispensariès and the large number of free beds in A. G., F. R. E., and general hospitals and to a more general use of sulpha drugs and penicillin among physicians. No marked trend is noticeable in suicides as only Howrah and 24-Parganas show large figures. Calcutta, by reason of her being a city, ought to show a larger number of suicides but they are probably masked by other declarations. Deaths from snake-bite are almost uniform over the State on the basis of number of persons per square mile and were at a level of 1 per mille, not by any means a small figure. Deaths from snake-bite were lowest in Howrah, Calcutta, Jalpaiguri and Darjeeling.

Happily, plague was confined only to Calcutta and Howrah; in Calcutta it flared up in 1949 but was quickly brought under control, and public health measures were very efficient in this direction.

Kala-azar was conspicuously low in Birbhum, Bankura, Midnapur and Howrah. West Dinajpur was notorious while Darjeeling was bad. Deaths from T. B. of the Lungs were highest in Calcutta, the minimum and maximum deaths per 1,000 deaths from all causes, being 47·2 (1943) and 82·8 (1942) for males respectively, and 50·5 (1943) and 103·6 (1942) for females respectively, the annual averages standing at 58·6 for males and 65·4 per mille deaths for females. Next in death from T. B. of the Lungs comes Darjeeling with annual averages of 53·2 for males and 51·6 per mille deaths for females, while the minimum and maximum for males were 42·0 (1946)

and 702 (1949) and those for females were 43:1 (1941) and 65:2 (1949). In other districts the intensity varied from 1 to 6 per mille during the decade.

A point to note about deaths from Kala-azar and T. B. of the Lungs is the very noticeably consistent small figures of female deaths from these causes in comparison to male deaths. This can only be explained by the comparatively poor diagnosis of these diseases amongst females than males. That this is so is amply supported by figures of deaths from these two causes in Calcutta, where because facilities of treatment for males and females are almost even, the rate of deaths from T. B. of the lungs of females per 1,000 deaths from all causes exceeds that of males and that for Kala-azar for females is within 1 per mille of that for males. By contrast, deaths from these two causes are recorded at much lower figures for females than for males in Darjeeling, and there is a wide margin between male and female deaths from these two causes in all other districts.

Death rate from child birth—Death rate from child-birth per 1,000 female death from all causes during the decade presents a depressing picture. For the State figures were highest in 1948 and 1949. In Burdwan the figure mounted steadily from 8.5 (1944) to 22.8 (1948) to fall to 16.4 in 1950, in Birbhum from 53 (1944) to 156 in 1948 to 81 in 1950; in Bankura from 75 (1944) to 17.0 (1946) to fall to 11.9 in 1950; in Midnapur from 89 (1943) to 22.8 (1946) to fall to 19.4 in 1950; in Hooghly from 14.2 (1945) to 24.2 (1948) and 181 in 1950; in Howrah it varied between 99 and 13.8 between 1943 and 1949 and stood at 63 in 1950. In 24-Parganas the figure was 81 in 1944 and steadily climbed to 193 in 1949 and dropped to 14.8 in 1950. In Calcutta it climbed from 16 in 1943 to 176 in 1949 and fell to 121 in 1950. In Nadia it rose from 4.2 (1943) to 23.1 (1948) and dropped to 13.8 in 1950, in Murshidabad from 36 in 1943 to 165 in 1948 and 122 in 1950; in Malda from 104 in 1944 to 229 in 1949 and 13-7 in 1950; in West Dinajpur from 22-9 in 1944 to 45.5 in 1949 to 29.1 in 1950; in Jalpaiguri from 295 in 1944 to 732 in 1942 to 562 in 1950; in Darjeeling from 18.5 in 1943 to 33.6 in 1949 to 16 2 in 1950. The steep rise from 1943-44 to 1949 may have been due to improved registration while it is not clear to which cause the fall in 1950 is to be ascribed. The average annual infantile mortality for the decade, it may be recalled, was 1721 for males and 1560 for females.

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In 1950 W. M. Frazer published 'A History of English Public Health 1834-1939' and the following information has been extracted from

book. Says Frazer "The population his (England & Wales) was given at the Census of 1921 as 37,885,242. In the period of a hundred years, therefore, the population of England and Wales had increased from 12 million to more than three times that number. Such an increase could only have been achieved in the exceptional economic and industrial circumstances of this country in the nineteenth century with markets throughout the world clamouring for manufactured goods, for which food and raw materials were received in return. The birth rate was, however, falling rapidly mainly in the ranks of the middle and upper classes and, except amongst the very poor, the Victorian family of ten or a dozen children was seldom seen. In the period 1871-75 the birth rate had reached the peak figure of 35.5, and it began to fall rather rapidly after 1890, at a time when the general standard of living in the community as a whole had reached its highest point. By the guinquennium 1916-20, which included some of the war years, this figure had dropped to 201. There is little doubt that the rapid decline of the birth rate after 1890 was due very largely to the spread of the knowledge of contraceptive methods amongst people in the higher income groups, and there was an increasing tendency as the years went by for these methods to be adopted by the better-off skilled workers. But the use of contraceptives must be regarded as only the means by which, largely, the birth rate was reduced, and the desire for smaller families, a social phenomenon of great consequence in the twentieth century, can be traced to a number of causes, including the emancipation of women and the general demand for more luxury and more comfortable conditions of living. The birth rate rose again in 1920 and 1921 as a result of the demobilisation of the armed forces, but later in the decade the tendency towards a decline in the annual number of births reasserted itself, and in the period 1926-30 the rate had dropped to 16.7.

"The declining birth rate was, however, masked by an almost equal reduction in the death rate, which in the period 1916-20 had declined to the figure of 14.4. Until the end of the nineteenth century the infantile mortality rate had remained obstinately at or near 150 but after 1900 a highly welcome decline took place. In the period 1901-05 this figure had dropped to 138, in 1911-15 to 110, and in the quinquennium 1916-20 to 90. The reduction of the infantile mortality rate to the latter figure meant that, as compared with the nineteenth century, the lives of 60 infants, out of each 1,000 born, were being saved each year, and this was a substantial offset to a declining birth rate.

(Pp. 354-5.)

"So ended the last of the cholera outbreaks in this country (1893). No outbreaks of cholera occurred in this country between the years 1866 and 1893. For that occurring in 1831-2 there are no mortality statistics available. In the epidemic of 1848-9 there were 54,398 deaths, in 1853-4, 24,516 deaths, in 1866, 14,378 deaths and in 1893, 135." (P. 168.)

"This epidemic (smallpox, 1870-3), which occurred throughout England from the end of 1870 to the close of the second quarter in 1873, was part of a world-diffused pandemic. From the last quarter of 1870 to the end of the first quarter in 1873 when the outbreak terminated, the number of deaths from smallpox in England was 44,079 out of which 10,287 were contributed by London. In the London Smallpox and Vaccination Hospital the case-mortality rates for the years 1870 and 1871 were, respectively, 66.2 and 77 per cent. in unvaccinated persons; and, in the two years combined, the rate amongst the vaccinated was 15 per cent. Dr. Seaton, who compiled this report for the Local Government Board, emphasizes that, in spite of the severity of the smallpox outbreak of 1870-3, the country had been saved from something very much worse by the system of vaccination which had been in force for 30 years; and he observes that the mortality of this epidemic, alarming as it had been, had not approached what was the usual annual smallpox mortality of the Kingdom at the time when vaccination was unknown. 'The average annual smallpox death rate of the metropolis in the pre-vaccine period was from 400 to 500 per hundred thousand of population; the mean annual death rate of this epidemic was 148, having in 1871 been 243 and in 1872, 54.' (Pp. 169-70.) The total notifications of smallpox in London from the beginning of the epidemic (November 1901) to the end of March, 1902, amounted to over 6,000. (In Liverpool) the outbreak lasted until December, 1903, and caused much suffering, during the course of which 2,278 persons were found to be suffering from the disease. (Pp. 289-90.) What was noteworthy about this epidemic was that it had died down completely by the end of 1906, and had scarcely left a trace behind it. From the end of 1906 up to the present day, the amount of severe smallpox (Variola Major) in any period has been very small, and such outbreaks as have occurred were mainly due to imported cases which had escaped through the net of the Port sanitary authorities. (P. 370.)

"The more important of the facts about the transmission of plague were established by the Indian Plague Commission. As a prophylactic, Haffkine's vaccine has been used in areas subject to plague epidemics with some success. Plague was last seen in epidemic form in this country in 1665-6... Careful precautions are taken at the ports to destroy rats on ships by fumigation. (Pp. 269-70.)

"By the second decade of the twentieth century the main infectious diseases which had so much affected the mortality rates during the previous hundred years had been almost, if not entirely, stamped out. Apart from occasional imported cases, typhus, cholera and relapsing fever had disappeared with the abolition of the conditions which favoured their spread, and the enteric group of diseases was decidedly less troublesome than before. In 1911 13,852 cases of these diseases were notified, in 1914 8,778, and in 1916 5,564. (P. 364.)

"The value of publicity and of directing attention to the exact cause of maternal deaths, instead of to generalities, was shown in what has come to be known as the "Rochdale experiment" which was begun in 1931. For the preceding ten years, Rochdale had the unenviable distinction of having the highest Maternal Mortality rate in the country. Dr. Andrew Topping who became Medical Officer of Health in 1930 established the fact that the great majority of deaths were due to absence of adequate antenatal care and to unnecessary interference in labour on the part of doctors, and not occult rickets, 'women working in the mills', smokeladen atmosphere, etc., which had been advanced as causes. Frank exposure of the real causes by public lectures and in the local press, extension and improvement of antenatal and domiciliary midwifery services, together with cooperation from general practitioners, brought the rate down to well below average within 18 months and it has remained at a comparatively low level since then. (P. 418.)

"Another favourable factor was the mortality rate from tuberculosis (all forms) which, in the period 1916-20, had fallen to 1.4 per thousand of the population." (P. 355.)

"Is it the pig that makes the stye or the stye the pig?"

—Report of the Royal Commission on the Housing of the Working classes, 1885 (quoted by W. M. Frazer in A History of English Public Health).

Health Services of West Bengal-A casual observer or even a critic of the Health Services of West Bengal will admit the considerable achievements of the Department of Public Health since 1947 in the reorganisation of health services, improvement of rural water supply, inoculations and vaccination, the increase in the number of mobile medical units, sanitary and health staff, improved supply of medicines to itinerant health visitors, dispensaries and hospitals. A bold step has been taken in the building up of rural health centres, in unions and thanas, in the rapid expansion of hospital beds throughout West Bengal, in an improved supply of women health visitors and midwives. The major hospitals in Calcutta and district towns have received beneficent attention and not a few of them have been enlarged and more fully staffed. The Government recently has created a number of new municipalities thus bringing their population within the ambit of municipal amenities.

All this ought to have reflected a substantial improvement of vital statistics figures were it not for the serious problems of sanitation and public health created by a sudden influx of 2·12 million displaced persons from East Bengal the majority of whom had to be huddled into makeshift camps of canvas and bamboo. The effect has also been masked by the general conditions of living which show no signs of improvement, but rather of deterioration. This section will briefly deal with the background of the Vital Statistics discussed above and will make the question, quoted above, which a Royal Commission in England put to itself in 1885, appear fraught with the deepest of meaning.

In 1842 Edwin Chadwick submitted his Report of an Enquiry into the Sanitary Condition of the Labouring Population of Great Britain and made the following observations (pp. 369-71 of the Synoptical Volume quoted by W. M. Frazer in A History of English Public Health pp. 18-19) which apply with particular force and poignancy to present conditions in our country and put the finger on our malady. These points had of course been made earlier by Malthus, but whereas Malthus's dissertation was wholly gloomy, Chadwick's language betrays great determination to alter the state of affairs that he had found the country in:

"That the various forms of epidemic, endemic and other disease caused, or aggravated, or propagated chiefly amongst the labouring classes by atmospheric impurities produced by decomposing animal and vegetable substances by damp and filth and close and overcrowded dwellings prevail amongst the population in every part of the Kingdom, whether dwelling in separate houses, in rural villages, in small towns, in the larger towns—as they have been found to prevail in the lowest districts of the metropolis.

"That such disease, wherever its attacks are frequent, is always found in connexion with the physical circumstances above specified, and that where those circumstances are removed by drainage, proper cleansing, better ventilation and other means of diminishing atmospheric impurity, the frequency and intensity of such disease is abated; and where the removal of the noxious agencies appears to be complete, such disease almost entirely disappears".

"That the formation of all habits of cleanliness is obstructed by defective supplies of water".

"That the annual loss of life from filth and bad ventilation is greater than the loss from death or wounds in any wars in which the country has been engaged in modern times".

"That the ravages of epidemics and other diseases do not diminish but tend to increase the pressure of population".

"That in the districts where the mortality is the greatest the births are not only sufficient to replace the numbers removed by death, but to add to the population".

"That the younger population, bred under noxious physical agencies, is inferior in physical organisation and general health to a population preserved from the presence of such agencies".

"That these adverse circumstances tend to produce an adult population shortlived, improvident, reckless, and intemperate, and with habitual avidity for sensual gratifications".

"That the primary and most important measures and, at the same time, the most practicable, and within the recognised province of public administration, are drainage, the removal of all refuse of habitations, streets and roads and the improvement of the supplies of water".

"That the expense of public drainage, of supplies of water laid on in houses, and of means of improved cleansing would be a pecuniary gain, by diminishing the existing charges attendant on sickness and premature mortality". With these observations as a background a series of official statistics will be quoted, with the minimum of comment, to illustrate the state of (a) food-production, (b) roads, (c) protected water-supply, (d) housing in crowded areas and (e) diet of the majority of our population. The statistics quoted are all of recent compilation and official and are intended to place the tasks of the Government in the Department of Public Health in a correct perspective. The presenta-

tion of statistics will be fragmentary yet sufficient to indicate the magnitude of the task.

(a) Food Production

Statement 5 below is quoted from page 11 of Prospectus for Agriculture in West Bengal (Government of West Bengal 1949) and gives the geographical distribution of principal crops and Statement 6 from page 12 of the same pamphlet.

STATEMENT 5
Geographical Distribution of Principal Crops
(Area in 1,000 acres)

Name of District	t				,								Paddy	Pulses	Oilseed	Sugar-cane
24-Parganas													1,445	114	8	2
Nadia						•			•	•	•		530	174	13	7
Murshidabad				•		•		•	•		•	•	785	280	13	12
Midnapur .				•				•			•	•	1,854	98	12	4
Bankura .						•		•			•		688	12	34	2
Howrah .					•								206	36	••	ī
Burdwan .								•			•		1,023	47	2	9
Birbhum .					•	٠.			•	•	•		735	49	$ar{2}$	8
Hooghly .											•		467	30	ī	3
Malda													487	45	25	. 2
West Dinajpur									•				611	16	34	. 2 2
Jalpaiguri .							_						426	7	34	$ar{f 2}$
Darjeeling .	•	•	•		•					•	•	•	63	••	3	
										Тота			9.320	908	150	54
												_	.,		200	
Name of Distric	t												Wheat	Potato	Jute	Other vegetable
	t												Wheat	Potato	Jute	Other vegetable
24-Parganas		•		•	•		•	•	•	•	•	•	Wheat		Jute 35	Other vegetable
24-Parganas Nadia		•		•	•				:		:	:	Wheat	Potato 5 1	Jute 35 26	Other vegetable
24-Parganas Nadia . Murshidabad		•		•	:		· •	· •	:	:	:	•	Wheat 9 42	Potato 5 1 6	Jute 35 26 33	Other vegetable 82 140 83
24-Parganas Nadia Murshidabad Midnapur'		:	:	:	:				:	•	:		Wheat 9 42 2	Potato 5 1 6 10	Jute 35 26 33 9	Other vegetable 82 140 83 102
24-Parganas Nadia . Murshidabad Midnapur' . Bankura .	•	•	•	:	· · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		:		:		Wheat 9 42 2 11	Potato 5 1 6 10 3	Jute 35 26 33 9	82 140 83 102 49
24-Parganas Nadia . Murshidabad Midnapur' . Bankura . Howrah .		•		:	•	:	:		:		:		Wheat 9 42 2 11	Potato 5 1 6 10 3 6	Jute 35 26 33 9	82 140 83 102 49 12
24-Parganas Nadia . Murshidabad Midnapur' . Bankura . Howrah Burdwan .		•	•	:	•		<i>:</i>		:	:	:		Wheat 9 42 2 11	Potato 5 1 6 10 3 6 15	Jute 35 26 33 9	82 140 83 102 49 12 37
24-Parganas Nadis . Murshidabad Midnapur' . Bankura . Howrah . Burdwan .	•	:		•	•	:	:		:		:		Wheat 9 42 2 11 7 11	Potato 5 1 6 10 3 6 15 5	Jute 35 26 33 9	82 140 83 102 49 12 37
24-Parganas Nadia . Murshidabad Midnapur' . Bankura . Howrah . Burdwan . Birbhum .	•	•	•	•	•	:	<i>:</i>	•	:		:	•	Wheat 9 42 2 11 7 11	Potato 5 1 6 10 3 6 15 5 29	Jute 35 26 33 9 4 5	82 140 83 102 49 12 37 13
24-Parganas Nadia . Murshidabad Midnapur' . Bankura . Howrah . Burdwan . Birbhum . Hooghly .	•	•	•	•	•	:	<i>:</i>	•	:		:	•	Wheat 9 42 2 11 7 11 11	Potato 5 1 6 10 3 6 15 5 29	Jute 35 26 33 9 4 5 28 23	82 140 83 102 49 12 37 13 22 180
24-Parganas Nadia Murshidabad Midnapur' . Bankura . Howrah . Burdwan . Birbhum . Hooghly . Malda West Dinajpur		•	•	•	· · · · · · · · · · · · · · · · · · ·		<i>:</i>		:		:		Wheat 9 42 2 11 7 11 1 1 1	Potato 5 1 6 10 3 6 15 5 11 5 29 1 3	Jute 35 26 33 9 4 5 28 23	82 140 83 102 49 12 37 13 22 180
24-Parganas Nadia . Murshidabad Midnapur' . Bankura . Howrah . Burdwan . Birbhum . Hooghly . Malda . West Dinajpur Jalpaiguri .			•	•	•	:	<i>:</i>		:		:		Wheat 9 42 2 11 7 11 1 11 2	Potato 5 1 6 10 3 6 15 5 29 1 3 6	Jute 35 26 33 9 4 5 28 23 16 23	82 140 83 102 49 12 37 13 22 180 29 16
24-Parganas Nudia . Murshidabad Midnapur' . Bankura . Howrah . Burdwan . Birbhum . Hooghly . Malda .		•	•	•	•		<i>:</i>		:		:		Wheat 9 42 2 11 7 11 1 1 1	Potato 5 1 6 10 3 6 15 5 11 5 29 1 3	Jute 35 26 33 9 4 5 28 23	82 140 83 102 49 12 37 13 22 180

STATEMENT 6

Comparative yields of Rice, Wheat and Sugar-cane per acre in different countries and provinces.

Countries a	and Pro	ovir	ices			Yields per acre (in lb., 1924-33)	Countries and Provinces	Yields per acre (in ib., 1924-33)
Italy					Rice	2,903	Europe Whea	t 1,146
Japan				٠.	**	2,276	Canada	€72 846
Egypt					**	· 2,153	Argentina , , , , , , , , , , , , , , , , , , ,	780 714
United	States	of	Ame	erica	**	1,469	India Bihar and Orissa	636
Siam			•		,,	943	United Provinces	882 786
India					-	728	Punjab West Bengal	738 738
West E	Bengal		•		79	998	Sind Central Provinces	593 444

STATEMENT 6-concld.

Provinces			Yields per acre (in lb.)	Provinces		Yields per ocre (in lb.)
Central Provinces Bihar. Oriess	•	Sugarrane (raw sugar)	3,394 2,280 4,352	Bombay Punjab (Undivided) West Bengal	. Sugarcane (raw sugar)	5,782 1,918 4,223

Statements 7 and 8 quoted from page 20 of the same pamphlet giver (a) a Comparative Table of held by a Family in districts of West Bengal.

STATEMENT 7 Comparative Table of Farming Units

Province			•				Number of acres per cultivator	Countr y									Average size of holdings (in acres)
Bombay		•					12.2	England ar	nd '	Wales							62-00
Punjab (undivided)		•	•	•			9.2	Germany		***************************************	:	•	•	•	•	•	21.50
Madras	•	•	•	•	•		4.9	France		:	-	•	•	•	•	•	20.25
Bihar and Oriesa .		•	•	•			3-1	Denmark		-	•	•	•	•	•	•	40-00
Bongal (undivided)		•	•				3.1	Belgium		-	•	•	•	•	•	•	14.50
Assam							3.0	U. S. A.	-	-	•	•	•	•	•	•	148-00
Central Provinces .					•		8.5	Holland	Ī	•	•	•	•	•	•	•	
	-	-	-	•	•	•		110111111	•	•	•	•	•	•	•	•	26.00

From Economics of Indian Agriculture-Narayanswamy and Narashiman.

STATEMENT 8 Distribution of acreage held by a family

										Average area held		1	PBR CBNT, OF F	AMILIES WIT	8	
District										per family (in acres)	Less than 2 acres	28 acres	8—4 acres	4—8 acres	5—10 acres	Above 10 acres
Bankura		_	_	_		_		_		8-17	53-7	8.9	7-8	4.5	14.8	10.8
Birtibum	-	•	-	•	-	-	-	•	:	4.64	15-1	10.1	7.4	8.5	19-2	N.5
Burdwan.	:	•	•	•	- :	- :	•		•	5-63	28.6	10.9	8.9	10.8	26.6	12.4
Irinaipus *	•	•	:		•	:	•	-	:	6.38	24.2	8.9	11.1	10-2	28.8	15:0
Houghly .	•	•	_	_	_	:	•		-	8.74	32.4	13.1	13.0	10.9	18.8	10.2
Howrah .	•	•	•	•	•	•	•	•	•	3.53	53.2	14.8	5.1	4.5	17.6	5:4
Jaipaiguri *	•	•	•	•	•	•	•	•	•	8-76	5.3	6.0				
Makia .	•	•	•	•	•	•	•	•	•	3-84	54.2	7·8	10.9	16-4	33.2	20.4
	•	•	•	•	•	•	•	•	•				8.4	6.9	15.9	6.8
Midnapur	•	•	•	•	•	•	•	•	•	4.23	38-2	16.1	10· 9	10-5	17.6	6.7
Murshidabad	•	•	•	•	•	•	•	•	•	4-30	38.8	10-1	9.8	7.5	16.9	7.7
Nadia .					•		•			4.83	16.8	9-6	10-8	10-1	20.8	11.8
24-Parganas	•	•	•	•	•	•	•	•	•	4-33	56-5	10-7	8-6	4.7	10.9	7.2

• Figures for pre-Partition districts.
From the Report of Land Revenue Commission, 1940, Volume II, pages 114-5.

Statement 9, quoted from page 14 of the same different categories of livestock in various parts pamphlet, gives the comparative efficiency of of the world.

STATEMENT 9 Comparative efficiency of different categories of livestock in various parts of the world

										4	APPROXIMATI	e annual mile	TIELD.	APPROXIMATE	ANNUAL EGG
											IN LBS. PE	R READ OF ANT	MAL	PRODUCTION	PER BIRD
											Cow	Buffalo	Goat	Fowl	Duck
Amam .						•					170*	430*	80\$	41†	39†
Bihar .	•		•	•	•	•	•	•	•	· }	440*	1,770• {	340§	60†	130†
Orises . Central Prov	· ·	•	•	•	•	•	•	•	•	. ,	500●	700	200§ 110§	50† 48†	127† 80†
United Prov		•	:	:	:	:	:	:	:	•	800*	1,000*	125	70†	100†
Punjab .	•	•	•		•	•		•			1,400*	2,160*	440§	55 †	50†
Sind .	•	•	•	•	•	:	•	•	•	•	1,000* 500*	1,500* 885*	235§ 115§	55† 60†	40† 150†
Bombay. West Bengal	•	•	•	•	•		•	•	•	•	420	_ 960	80	36	75
Burma .	•	:	:	:	:	:	·	:			3815	488§	600§	40†	180†
Denmark	•	•	•	•		•	•	•	•	•	7,005\$	••	••	120† 115:6†	••
Relgium . England and	W-L	_ •	•	•	•	•	•	•	•	•	6,889 \$ 5,576 \$	••	••	120†	••
New Zealand		• :	:	:	•	:		:	:	:	5,1184	••	••		••
Japan .	•	•	•	•					•	•	8,8674	••	••	129-6†	••
•															

^{*}Report on the Development of Cattle and Dairy Industries of India by R. C. Wright (page 174).

†Report on the marketing of eggs in India and Burma (pages 6-7 and page 27) (realished by Government of India, 1958).

§ Report on the marketing of milk in India and Burma (published by Government of India, 1941).

Statement 10, quoted from page 15 of the same pamphlet, gives the fish position in West Bengal. Fish is the only considerable animal protein, as will be presently seen, consumed by West Bengal.

STATEMENT 10

Fish Position in West Bengal

Requirement of fish in West 32,000 maunds daily. Average production of fresh fish 2,000 maunds daily.

in West Bengal. Production of dry fish

10,000 mds. annually. (=50,000 maunds of fresh fish).

* Requirement at Calcutta

6,800 maunds daily.

Figures furnished by the Fisheries Section of the Directorate of Agriculture, West Bengal.

Supply at Calcutta market-From within the Province From other parts of the Indian Dominion. From Eastern Pakistan .

555 maunds daily. 295 maunds daily.

1,650 maunds daily. 2,500 maunds daily.

(b) Roads

Total supply

Roads wield their influence in a thousand different ways. For our purpose, they help to distribute food and other consumer goods throughout the land and reach out sanitary and medical help wherever it is needed or wherever an epidemic breaks out.

We are badly handicapped for roads. Statement 11, taken from page 16 of the same pamphlet, gives a picture of Road Communication in West Bengal (1939-40).

STATEMENT 11

Road Communication in West Bengal (1939-40)

	District											•		Metalled roads in miles*	Unmetalled roads in miles*	Total	Length of metalled roads per 100 square miles
1	24-Parganas													366.3	5,154.0	5,520·3	6.7
2	Nadiat	•												122-5	6.446.3	6,568.8	4.2
3	Murshidabad													73 ·6	4,515.7	4.589.3	3.6
4	Burdwan													525.0	3,831.3	4,356.3	19.4
5	Birbhum													296.8	3.237.0	3.533.8	17.0
6	Bankura													508.9	2,371.5	2.880.4	19.2
7	Midnapur													622-4	2,000.0	2.622-4	11.8
8	Hooghly					•								181-2	2,365.8	2,547.0	15.0
9	Howrah													173.8	1.973.5	2,147.3	31·1
10	Jalpaiguri †		•											373.5	1,183.9	1.557.4	12.2
11	Darjeeling													260.3	438.8	699-1	21.7
12	Malda †												-	39.7	1,433.5	1,474.2	2.0
13	Dinajpur †						-				•	·		54.3	4,251.7	4.306.0	1.4
14		·					·	-	•		•		:	•••		1,000	100
15		•	•	•	•	•	•	•	•	•	•.	. •	•	••	::	••	200

•From the statement of the Communications and Works Department for the year 1939-40. †Figures relate to pre-Partition districts. §From "A Plan of Economic Development for India (Bombay Plan)" published in 1944.

Problems of West Bengal (Government of West Bengal 1950) gives the Mileage of Existing Roads,

Statement 12, taken from page 12 of Road surfaced and unsurfaced in the Different States of India.

STATEMENT 12

Mileage of Existing Roads, surfaced and unsurfaced, in the different States in India*

State						Area in square miles	Population in thousands	Total mileage	Road mileage per 1,000 of population	Road mileage por sq. mile of area
West Bengal (including Cooch Behar)						••	21.862	12,154	0.56	0-41
Madras (including States merged) .			•		•	127,610	49,825	38,540	0.77	0-30
Bombay (including Baroda and Kolhapur)	•	•	•			122,732	29,114	27,765	0.95	0.23
U. P				•	. •	106,247	55,021	31,986	0.58	0.30
Bihar				•	•	69,745	36,340	31,496	0.67	0.45
C. P. and Berar (including States merged)	•	•	-	•	•	130,451	20,648	12,427	0.60	0-10
East Punjab (including States merged)	•	•	•	•	•	37,447	12,698	10,636	0-84	0.28
Assam	•	•	•	•	•	50,210	7,404	10,975	1 -4 8	0-22
Orissa (including States merged) .	•	•	•.	•	···•	60,507	13,975	10,789	0-77	0.18

^{*}Source: Basic Road Statistics of India-Ministry of Transport, Government of India,

On the basis of 2 oz. per day per adult unit of the total population of 25.0 million for the Province and 50 million for Calcutta.

It will be seen from the above table that West Bengal, with her mean density of population nearly three times that of India as a whole, has only 0.56 mile of roads per 1,000 of her population. This is the lowest of the States in India and compares unfavourably with the figure for India as a whole (0.75). West Bengal, however, compares a little favourably with the other States in the length of such road mileage per square mile of area, which is nearly 0.41 to the square mile for West Bengal as against 0.19 for India as a whole. Only Bihar has a higher distribution with 0.45.

It is unnecessary to hold forth on the many handicaps from which a land is liable to suffer that is not endowed with good roads, and on bad roads (and consequently improper and insufficient drainage) public health measures or improvements become one of the first casualties.

(c) Protected Water-supply

Statement 13 in two parts A and B gives the state of protected water-supply in the country. This does not give the whole or correct picture because tube-wells frequently go out of repair and as will be presently discussed in the section below even where there is an appearance of a good protected supply, on tap, large settlements go without the benefit of it and it is the sum of experience of the writer who has been to all towns in West Bengal, that in none of them, not excluding the cities, is

the supply complete and universal to all persons within the limits of the town and a goodly fraction never enjoy protected water even for drinking. There is also a general prejudice in favour of collecting drinking water from ponds as well as flowing rivers (most of which reduce to stagnant pools in summer) even when protected water is to be had on tap, a prejudice which dies hard especially in those towns which bank the sacred river Bhagirathi (Hooghly). This prejudice, ordinarily unobserved, is particularly noticeable when a cholera epidemic is about in a town blessed with filtered water supply and a district officer nearly exhausts all the prohibitory arrows in his quiver to fight it but which refuses to take defeat. Protected water supply is practically non-existent in non-urban areas in spite of the many thousands of tube-wells sunk by the Government and local bodies for the simple reason that the tube-well head and mouth are not free from contamination. Out of a total of 62 millions of urban population in the State only 46 millions live in localities where a system of protected water-supply exists and if Calcutta were to be taken as a criterion it would not be a wide guess to say that only about 3.5 millions really enjoy a restricted (and not plentiful) supply of protected water throughout the year. This supply however goes mainly for drinking and bathing, while washing of clothes, crockery and utensils.—fruitful vehicles of contamination and contagion—are still washed in unprotected water.

STATEMENT 13
Part A
Protected Water Supply in urban localities in West Bengal in 1945 and 1949
(other than Calcutta City)

										1945			1949	_
Sorial No.	Name of Mu	lcipa	lity				Area served (sq. miles)	Designed capacity of works	Approximate population served	Average daily supply in gallons	Average daily supply per-head of population in gallona	Approximate population acreed	Average daily supply in gallons	Average daily supply per-head of population in gallons
1	1							4	5	•	7	8	9 .	10
1	Burdwas.	•		•	•		8-30	708,080	50,000	856,110	7-05	72,908	446,498	4-20
3	Renigraj.	•	•	•	•	•	1-85	gallons daily, 150,000 gallons in	22,839	158,393	6-94	22,839	200,349	8.77
8	Armed .	•	, •	•	•	•	4-04	12 hours, 264,000 gallons in 12 hours.	48,006	e 08,80 0	8-50	48,006	408,000	8-50
1	Kalna Suri	:	:	:	:	:	9-85 3-15	••	10,000 12,000	40,000 77,051	4-00 6-42 5-44	15,000 20,000 46,617	60,000 100,456 236,800	4-00 5-02 5-06
•	Beakure Midnepur	•	•	•	•	•	8-60 4-00	192,000 gallons daily. 850,000 gallons	46,617 43,171	253,691 618,612	12:01	60,000	457,548	7-61
•	Hooghly-Chir		٠.	•	•	•	5-00	in 10 hours, 775,800 gallons	49,061	660,813	13-46	49,081	460,813	13-46
•	Resoberia Rhedroswar	•	•	•	•	•	3·10 1·90	delly.	12,000 25,673	149,224 339,561	12·44 13·23	20,000 27,678	149,79 2 449,918	9-49 16-96
iĭ	Champdany	•	•	•	•	•	1-45	••		413,249	12-46	81,438	414,808	12-02
ü	Seramour	•	•	•	•	•	1-27	612.000	31,833 55,349	343,726	9.82	80,000	474,000	P-48
+4		•	•	•	•	•	171	gallone in 16 hours.	50,319	era, 140	V-0.	سرب	2. 3,000	3 12
18	('tterpere		_	_	_		0-00		13,610	127,697	9-38	20,000	183,072	6-66
iš	Howard .	_	•	•	•	:	10-10	••	879,298	4,149,161	10-94	379,292	4,137,095	10-01
iš	Garden Resal	h čla s	rog	<u> </u>	•	•		-		4,200,200	•••	125 (H)O	\$10,000	4-06
iě	Tollyganj	_ ,, ,			•	•	₽i•	••	92,000	240,309	7-51	87,000	235,652	7-86
		•	•	•	•	•	· · ·	••		# 4-A-20			- , -	

STATEMENT 13—concld.

Part A

										1945		•	1949	
Serial No.	Name of Mu	nicipali	ty				Area served (sq. miles	Designed capacity of works	Approximate population served	e Average daily supply in gallons	Average daily supply per-head of population in gallons		Average daily supply in gallons	Average daily supply per-head of population in gallons
1	2						. 8	4	. 5	6	7	8	9	10
17	South Subarbs						3.70	••	25,200	51,222	2.03	40.000	42,700	1.07
18	South Dum D			•	-	:	5.98	• • • • • • • • • • • • • • • • • • • •	,		•••	62,200		
19	North Dum D		- :		:	:	7-00	••	•••	•••	•••	960		••
20	Dum Dum	- :				:	0.90	••	•••	•••	•••	11,713	•••	••
21	Baranagar-Ka	marhat	4				8.50	• • •	100,000	693,422	6.93	200,000	1,006,410	5.08
22	Bhatpara		_				5.00	••	150,000	1.077,154	7.18	160,000	1,149,279	7-18
28	Titagarh						1.50		57,416	1,942,160	33-83	57,416	1,907,820	83-26
24	Barrackpore						4.50	••	•••	· • • •	••	86,444		••
25	Barrackpore C	antonn	ent .					••			••	13,021	••	
26	Garulia .						1.50	••	20,000	193,200	9.66	30,000	177,978	
27	Halisahar						5.50	••	••		,	85,438	• • •	•••
28	Naihati .						1.68	• •	42,163	282,137	6.69	42,163	248,767	5.90
29	Kanchrapara	Railway	7 Colo	DУ			2.00	••	••		••	80,000	••	••
80	Krishnagar			. `			7•50	••	82,000	407,621	12.74	80,000	500,000	0.25
81	Nabadwip						1.50	• •	30,583	28,854	0.78	80,000	56,000	0.70
82	Berhampur			•			6.60	612,000	40,604	353,872	8-67	70,000	875,802	5.87
	_ · · ·							gallons daily.						
88	Englishbazar			•	•	•	1.50	112,000 gallons in	15,666	65,789	4.20	20,000	65,819	8-27
								8 hours (can run 16 hours).						:
84	Jalpaiguri						3.06	112,000	27,000	158.854	5.88	28,000	156,627	5.59
	·	•			-			gallons per		•		•		
								day in 8 hours						
								(can run						
								16 hours).						
85	Darjeeling		, ,				4.85	Depends on	25,873	796,082	30.77	25,873	746,877	28-87
30					-	•		ráin fall.		,		_ ,		20 0.
36	Kurseong		•	•	•	•	2.00	Depends on rain fall.	14,000	150,000	10-71	14,000	150,000	10-71
87	Kalimpong			•	•	•	10.00	•••	15,784	279,846	17.72	17,000	265,750	15-6
												2,104,469	16,182,217	

Part B Rural Water Supply in West Bengal in 1950

Name of Die	trict							•			• .		No. of Ring wells	No	OF TUBE	WELLS
										•		٠	and masonry wells	New-Sunk	Re-Sunk	Repaired
1													2	3	4	5
Burdwan												_	••	29	112	4,936
Birbhum										-		-	20 M.W.	23	23	1,402
Bankura									-	i			4 R.C.C.	7	4	480
Midnapur					-	-					-		2 M.W.	169	73	6,076
Hooghly			•				-	-			-	-	••	7	70	3,450
Horwah				•	•	•			-			-	••	23	40	4,524
24-Parganas									-	-	-		7 M.W.	63	35	9,239
Nadia .									-	-	-	•	• • • • • • • • • • • • • • • • • • • •	38	32	2,736
	-					•	•	•	. •	•	•	•		•••		2,. 57
																(Jet washing system)
Murshidabad	l .	•		•	•	•			•	•			••	51	25	8,625
Malda .				•	•	•							••	17	••	717
West Dinajp	ur .	•	•	•	•			•	•				••	30	32	1,241
Jalpaiguri		•	•	•	•	•	•	•		•			11	31	4	280
Darjeeling	• •	•	•	•	•	•	•	•	•	•	•	•	••	••	,••	••
								T	OTAL,	1950	•	•	44	488	450	43,763
From 1946-4	7 to 195	50.	•		•	•	•	•	•	•	• .		138	2,063	3,011	135,291
																- <u>-</u>

(d) Housing in crowded areas

Notwithstanding the lack of drainage, sewerage, ventilation in mudhouses, and planning in villages, the comparative absence of congestion in the rural areas make them still healthier places to live in than noxious and crowded urban areas. It is not however suggested that rural areas are less unhealthy, only that they are less noxious and foul of atmosphere than urban areas. This is perhaps a reason why in spite of all fruitful conditions of every kind of epidemic prevailing, the toll taken by epidemics, though appalling by civilised standards, is not really so in the primitive setting by which its extent ought to be assessed. The sun, personal cleanliness and hygiene among the people, and the universal habit of bathing must account for a great many lives that are claimed from disease and death while Improvement in public measures must also come for its due share of praise.

The strength of a chain lies in its weakest link and the efficiency of public health measures must be judged from the condition that obtains in very crowded areas.

In 1949 the State Statistical Bureau published a 'Report on a Sample Enquiry into the Living conditions in the Bustees of Calcutta and Howrah 1948-49 (Government of West Bengal, 1949)'. This report is full of meat in its analysis as well as tables and gives a very thorough idea of how about 1 in every 3 persons lives in Calcutta and Howrah (1 million in 3 million). As for nonbustee areas most rooms in Calcutta—except what are known as the European localities—are an average size of 10 feet by 12 or less and about 11 feet high, where kitchens, baths and lavatories are to be shared with other families. In the census of 1951, 710,579 living rooms were counted in the Municipal area of Calcutta consisting of 32 Wards, and the population in this area was 2.548 million. To each living room therefore there are 3.5 persons and it should be remembered that a living room varies from one in which a man can barely lie down and stand up to that in the mansions of the very rich.

The mansions of the very rich usually contain few people and therefore this arithmetical average masks the real congestion. It will not be hazardous to surmise that the average number of persons per living room throughout the cities of Calcutta and Howrah, taking the best with the worst, will be about the same as that found in bustee areas, with this difference that other circumstances of ventilation, sanitation, water supply and amenities are superior in non-bustee areas. The following extract from page 13 of the Report gives a horrifying summary of the results of the Inquiry.

"About 11-3 per cent, of the total bustees of Calcutta and 12 per cent, of those of Howrah have been surveyed. Only 12 per cent, of the resident families in the bustees of Calcutta are lessees and the rest are tenants; 24.6 per cent. of the total lessees do not live in the bustee. At Howrah the respective percentages are 12-3 and 11.5. The majority of the tenements are oneroomed, the percentage for Calcutta being 93.3 and that for Howrah 97.6. Only 31.2 per cent. of the lessees at Calcutta bustees have registered documents in support of their claims, the figure for Howrah is slightly higher, being 40. No case of eviction of lessees was found at Howrah but the lessees at Calcutta are not so fortunate, 3 per cent. have been already evicted and slightly more than 5 per cent. have been threatened with eviction notices, etc. Among the tenants of the bustees of Calcutta 32 per cent, are non-Bengalees while 16.6 per cent. come from East Bengal. But at Howrah 80.2 per cent. of the tenants of the bustees are non-Bengalees and only 1.2 per cent. hail from East Bengal. On an average, a lessee of a Calcutta bustee enjoys 62.5 per cent. and a tenant enjoys 26.6 per cent. more floor space than those of a Howrah bustee. The average monthly income of a lessee of Calcutta is more than double that of a lessee of Howrah and the average income of a tenant of Calcutta is nearly one and a half times as much as that of a tenant of Howrah; 75 per cent. of the huts of the bustees of Calcutta have pucca floor whereas the figure for Howrah is only 36.6 per cent. Pucca walled huts have been found in the bustees, the percentages for Calcutta and Howrah being 28 and 9, respectively. Thatched roof was found in only 3 per cent. cases both at Calcutta and at Howrah. As regards ventilation it appears that the bustees of Howrah are better off then those of Calcutta as is apparent from the percentage of badly ventilated huts, which is 24 for Calcutta and 6 for Howrah. Arrangement for water supply is bad in both the cases; 61.7 per cent. of the huts of Calcutta bustees and 836 per cent. of those of Howrah have no arrangement for supply of water; 15 per cent. of the huts have kitchen both at Calcutta and at Howrah, but the percentage for huts having no arrangements for cooking is 4 at Calcutta while the corresponding percentage for Howrah is 10. Drainage is equally unsatisfactory at the two places, the percentage of bad drainage for Calcutta bustees is 42 while that for Howrah is 34: 17.3 per cent. of the huts of the busiees of Calcutta and 15.5 per cent. of those of Howrah have no latrines."

The following from page 14 of the Report gives the distribution of the number of rooms occupied by lessees and tenants at Calcutta and Howrah.

"It will be seen from the table that at Calcutta, a tenant family occupies on an average 1.10 rooms only, 92.3 per cent. of them occupying only a single room, whereas a lessee family lives in 2.73 rooms on an average, nearly 75 per cent. of them occupying more than two rooms. As a hut contains on an average 7:16 rooms, it is evident that the hut owner lets out the balance of 5:43 rooms which are occupied by a 5 tenant family. A bustee at Calcutta has, on an average, 6.38 huts having 52.12 rooms where 35.3 tenant families and 48 lessee families live. At Howrah a tenant family occupies 1.03 rooms on an average, 97.6 per cent. of them living in a single room. A lessee family on the other hand lives in 243 rooms on an average, 705 per cent. of them occupying more than 2 rooms. As a hut contains 8.73 rooms on average, the hut owner lets out the balance of 6.30 rooms which are rented out to 6 tenant families.

A bustee at Howrah has 5.58 huts having 48.75 rooms on an average where 35.4 tenant families and 5.1 lessee families live."

The state of water supply in the bustees is analysed at pp. 18-19 of the report as:—

"The deplorable condition of the water-supply in the bustees will be at once evident. Out of 3,179 huts in the bustees of Calcutta, only 1,216 huts have some arrangement of water-supply, possessing 1,246 taps, 106 wells and 15 tube-wells among them. There are some very bad cases; 157 huts out of 159 in ward no. 18, 123 out of 135 in ward no. 21 and 264 out of 342 in ward no. 25 have no arrangement whatsoever for the supply of water. The more fortunately situated huts are in ward nos. 5, 8, 9, 11 and 23, where 42 out of 58 huts, 35 out of 46, 42 out of 59, 24 out of 26, and 13 out of 20 huts have some arrangement for the supply of water. It will be found that all of these bustees are small in comparison with most of the remaining ones."

"The condition at Howrah can be realised from the fact that in only 11 out of the 67 huts, there is some arrangement for water-supply."

"On an average 61.7 per cent, of the huts in the bustees of Calcutta have no arrangement for any water-supply; 54.6 per cent, of the bustee dwellers live in such huts. Dwellers who are more fortunate in having water-supply are served at the rate of 25.6 persons per tap. The difference among the wards is very pronounced; the proportion of huts having no water-supply varying from 7.7 per cent, in ward no. 11 to 98.7 per cent, in ward no. 18.

Thus it is found that out of about 8.20 lakhs of people living in the bustees of Calcutta, as

many as 4.48 lakhs have to depend on street hydrants or ponds for their water-supply. At Howrah the corresponding figures are 15.7 thousands and 10.5 thousands, respectively."

Analysis of the percentage distribution of huts by nature of place of cooking is thus made:

"Separate kitchen is provided in only 15.5 per cent, of the huts in the bustees of Calcutta. In 70.0 per cent, of the huts cooking is done in some sort of verandah and in 10.4 per cent. of the huts it is done in the bed room. In 4.1 per cent. of the huts no cooking is done. The percentage of huts having a separate kitchen exceeds 30 in ward 31 only, 25 in wards 23*, 29 and 32 and is less than 5 in wards 8, 13* and 14. No separate kitchens were found in the sampled bustees in ward nos. 7*, 10* and 15*. Cooking is done in the verandah in more than 70 per cent. of the huts in wards 1, 3, 5, 14, 18, 20, 22, 25, 26, 27, 28, 29 and 30. In 25 per cent. of the huts in ward 23* there is no arrangement for cooking. In ward 15, the percentage is 22.7 and in ward 9, the percentage is 20.7.

"In the bustees of Howrah cooking is done in a separate kitchen in 14.9 per cent. of the huts, in verandah in 47.0 per cent. huts, in the bed room in 27.6 per cent. of the huts. In the remaining 10.5 per cent. huts there is no arrangement for any place for cooking. Thus, it will be found that whereas in 85.5 per cent. of the huts in the bustee of Calcutta, cooking is done either in a kitchen or in the verandah, the corresponding figure for Howrah is 61.9 only. The percentage of huts in Howrah where cooking is done in the bedroom is three times that at Calcutta and the percentage of huts at Howrah having no arrangement for cooking is two and half times as much as that at Calcutta."

Analysis of huts with or without latrines is made as follows:

"In the bustees of Calcutta 14.7 per cent. of the huts are without any latrines and 10.1 per cent. of the bustee dwellers live in these huts. Three types of latrines were found, viz., the "service" type, the "septic tank" type and "flushed" latrines connected with the Corporation's sewer system. The respective percentages are 63.5, 3.7 and 32.8, respectively. The service type is more common in wards 18, 19, 21, 24, 25, 28, 29, 30, 31 and 32, the septic tank type in ward No. 9 and the flushed type in the remaining wards. The percentage of huts not having any latrine varies from 50.7 per cent. in ward No. 6 to nil in wards 7* and 14 and the percentage of people living in these huts ranges from 40.8 in ward no. 6 to nil in wards 7* and 14. On an average a latrine is used by 23.0 persons, the number

The percentage is subject to a large sampling error due to the small size of the sample.

ranging from 11·1 in ward no. 31 to 45·2 in ward no. 5.

At Howrah, 13.4 per cent. of the huts have no latrines where only 5.7 per cent. of the bustee dwellers live. Only the "service" type of latrine was found in the sample, each of which was used by 21.1 persons on an average."

Comment is superfluous.

(e) Diet

In 1899 B. Seebohm Rowntree made a social survey of his native City of York the results of which he set down in his book Poverty. W. M. Frazer in his A History of Public Health (p. 194) observes that Rowntree places the "Poverty Line" at the minimum necessary expenditure for the maintenance of merely physical health, and he calculates this amount on the basis of outgoings in respect of food, house rent (including rates), and household sundries (such as clothing, light, fuel, etc.). On the costs then (1899) ruling in York, the minimum necessary expenditure for a man, wife and two children, for example, was 18s. 10d. per week.

'In 1935 Rowntree decided to repeat this investigation in order to ascertain what changes had taken place in the industrial and social lives of the pepole of York during the 36 years which had elapsed since the original inquiry. The results of the second survey were published by Rowntree in the year 1941 under the title of Poverty and Progress. In The Human Needs of Labour (1937) Rowntree, after a careful study of all the factors,

came to the conclusion that the "poverty line" could be fixed at the Standard of living attainable by a man, wife and three children (at 1936 prices and after paying rent) on a wage of 43s, 6d, a week. "Primary poverty", a term used in both the 1899 and 1936 surveys, is represented by the minimum sum on which physical efficiency could be maintained, which is, of course, much lower than that denoting the poverty line. In the 1899 investigation that sum was 17s. 8d. inclusive of rent, while in the later survey, with changes in the value of money, the corresponding figure was 30s. 6d. for urban families of five. As regards the proportion of the working-class population living under conditions of primary poverty, the figure of 15.46 per cent. in 1899 had fallen to 6.8 per cent. at the time of the second survey' (W. M. Frazer Ibid pp. 437-8).

In March 1946 at the instance of the Establishment Department of the Government of Bengal the Provincial Statistical Bureau conducted a small inquiry into the living conditions of the Bengali middle class "Bhadralok" and menials and submitted in 1947 a departmental report for official use only. Admittedly a very limited inquiry, it produced a series of tables which have both general and particular values as the following statements, borrowed from it, will reveal.

Statement 14, incorporated in this report, incorporating the results of the Calcutta Diet Survey of 1945, gives the per capita monthly consumption in quantity by expenditure level.

STATEMENT 14

Calcutta Diet Survey, 1945

Per Capita Monthly (Consumption an	nd Quantity	by	Expenditure	Level
----------------------	----------------	-------------	----	-------------	-------

Nu	enditure lev aber of fami rage size of	lies	7								0-50 66 2-73	51-100 348 4·24	101-150 361 5-80
	Items									Units	Quantity	Quantity	Quantity
1	Rice									Seer	8 629	8.555	8:585
2	Atta .	•	•	•	•	•	•	•	•	97	3.673	3.031	3.042
3	Chira and	muri	•	•	•	•	•	•	•	•	0.095	0.119	0-183
4	Breed	•	•	•	•	•	•	•	•	90	0.012	0.057	0.093
5	Pulses	•	•	•	•	•	•	•			1.536	1.355	1 328
6	Fish .	•	•		•	•	•	•	•		0.402	0.221	0.805
7	Mest .	•	•		•						0.025	0.170	0.205
8	Eggs .				•	•	•		•	Number	0.054	0-298	0.493
9	Milk .	•	•		•		•	•	•	Seer .	0.751	1.515	2 ·0 48
10	Other mil		lucts	•	•	•				**	••	••	
11	Virgitable	ghee			•				•		0.023	0.029	0.067
13	Edible oi	ľ.								-	0.622	0.612	0.853
13	Potato	•								••	1·466	1 532	1.872
14	Other veg	rtabk	•							• •	••		••
15	Salt .	•								Seer	0.530	0-485	0-488
16	Spines .	•							•	• •	••	••	••
17	Sugar									Seer	0-753	0-890	0-923
18	Gur .										0 -116	0-129	0-193
19	Tre .			•		•			•	Pound	0.104	0-134	0-143
20	Other refi		re b						•	••	• •	••	••
21	Total for	d.	•				-			••	••	••	• •
22	Coal .	•				•			•	Maund	0.456	0-450	0-424

Statement 15 makes a comparison of Food expenditure levels in Bengal with that in other Value (Calories) in the average diet of different countries.

STATEMENT 15

Comparison of Food Value (in Calories) with other countries

Serial No.	Foodstuff	(Dir	alanced diet rector of Public Health, West Bengal)	U. S. A.	Mexico	Germany	Gre at Britsin	Poland	Turkey (Istambul)	Calcutta expendi- ture level Rs. 201- 250	Outside Calcutta salary level Ra. 0-150 (per capita)	Outside Calcutta salary level Rs. 0-150 (per equivalent adult male)	Balanced diet, Dr. Akroyd
1	2		3	4	5 1	6	7	. 8	9	10	11	12	. 13
1 2 3 4 5	Bread Cake, Biscuit, etc. Flour Cereals (Rice, etc.) Pulses Meat Fish		412 1,010 303 57 56	666.8 286.5 161.0 354.9 23.0	1,177·2 208·9 268·3 2·5	1,109·8 141·0 63·2 191·4 17·8	1,039-4 339-8 258-7	1.746·3 285·5 101·6 246·8 12·6	2,312·4 114·4 103·5 99·0 16·7	35.0 817.0 939.0 141.0 12.0 31.0	163·0 1,290·0 127·0 12·0 86·0	211.0 1,679.8 165.0 16.0 47.0	1,470-0 294-0 132-0•
8 9 10 11 12 13 14 15 16 17 18	Animal fat Vegetable fat Vegetable oil Milk Milk producta Eggs Potato Vegetables Onion Rugar Gur Fruits	•	7 407 185 50 44 46 120 112 24	77.5 111-1 212-0 24-1 116-6 224-2 42-8 422-5	12·9 224·0 18·6 89·8 29·3 27·1 317·8	18-1 31-0 196-0 14-2 29-7 433-8 20-0	194·6 27·3 93·9 297·4	10·8 146·7 8·2 22·1 533·0 81·1 240·8	201.5 40.9 13.3 28.8 87.2 49.8	211·0 61·0 4·9 63·0 	11-0 173-0 58-0 5-0 85-0 6-0 93-0 29-0	16·0 227·0 75·0 44·0 7·0 122·0 88·0	528·2 144 0 81·5
	TOTAL	. –	2,833	2,722-4	2,325-9	2,479-6	2,7 68 -8	3,284-0	3,201.5	1,969-9	2,038-0	2,654.0	2,549.7

[•] If milk is absent from the diet, this should be included. The total in this column omits the figure for meat and fish.

Statement 16 makes a comparison of various diets in Bengal with Bengal Jail Diets (quantities). 'It will be seen that the diet of the Bengali middle class is not only comparatively deficient in calories, it is much inferior in other food values

to the diets of divisions I and II prisoners of both classes A and B. The deficiency is well marked in vegetable proteins (pulses), edible oils, sugar and fish.

BENGAL

STATEMENT 16

Comparison of Various Diets with Jail Diets (Quantities)

		Balanced		JAIL	DÍÉT		Calcutta		CALGUTTA BVRL 0-150
Serial No.	Foodstuff	diet for adult male (Director of Public Health,	Division 1	TAD XI	Divisio	r III	expenditure level 201-250	per capils	Per equivalent adult male
		West Bengal)	A	В	Class I	Class II			
1	2	3	4	5	6	7	8	. 9	10
1 2 3 4 5	Rice Wheat Pulses Leafy vegetables Non-leafy vegetables Fruits	. 5-09 . 2-00 . 1-50 . 2-00 . 2-25 . 1-50	8-00 2-00 2-00 4-00	\$-00 8-00 1-90 2-50	12-00 2-50 4-00	10-00 2-50 4-00	4-65 1-71 0-70	6-39 -8-79 0-68	8-31 1-93 0-82
7 8 9 10 11 12 13 44 15	Potatoes Onion Milk Milk products Sugar Gur Edible oil Ghee	. 0-75 . 5-00 . 0-50 . 0-50 . 0-75 . 0-25	2-00 1-00 £-00 1-00 0-25 0-50	2.0 1-00 1-00 0-25	.0-30	0-80	1-08 1-64 0-52 0-14 0-39	0-60 0-16 1-67 0-89 0-13 0-82 0-05	0.78 0.21 2.04 0.51 0.17 0.42 0.07
16 17	Meat	. 1-00 • 50 • 0-50	2.00	5.00		••	0·55 0·11 ••04	0-65 0-11 0-05	0-84 0-14 0-07

Statement 17 shows the mean per by expenditure level at 1945-45 capita monthly consumption (in rupees) prices.

STATEMENT 17

MIDDLE CLASS FAMILY BUDGET ENQUIRY, 1945-46

Mean per Capita Monthly Consumption (in Rupees) by expenditure level

(All centres combined)

	:	1				*		4	8	•	7		•
Expenditure level						1-60	61-100	101-150	151-200	201-250	251-300	3 01 —3 50	\$51and above
Average size of family Number of families Number of persons	:	:	:	:	:	2-76 41 118	4-70 216 1,016	6·15 243 1,495	7·58 204 1,547	8-46 134 1,133	9·02 101 902	9-88 58 573	11-62 89 1,034
Food Clothing Feel and light Housing Misositaneous	:	:	•	:		9·59 0·83 1·48 0·17 2·48	9·95 1·85 1·66 0·57 3·20	11.65 1.85 2.09 0.76 4.86	12-54 2-19 2-15 0-85 5-16	14·10 2·51 2·29 0·94 6·51	14-90 8-23 12-49 0-86 8-23	16-00 3-41 2-78 1-07 9-71	17 78 8-76 2-65 0-98 15-10
				TOTAL	. ·	14-55	16-73	20.71	22.89	26.85	29.77	32.97	40:11

These statements will make Rowntree's "Primary Poverty" at 30s. 6d. a week for a family of five at 1936 prices appear unattainable princely comfort for the vast majority of our populace in the forties of this century.

Finally, nutrition experts have never ceased to inveigh against the cussedness of the Bengali and the Indian who make no improvements in their diet. It is often overlooked that there is no room to turn, that any effort at improvement of the diet,—which astonishingly enough is the most that can be made of the sum of economic, social, climacteric and ecological conditions—costs money, which is simply not there, and that whenever the income increases the diet at once improves in quality and quantity. Observes the departmental report in its summary of observations:

"An examination (of this table) will indicate that—

(i) Total expenditure per capita increases as salary increases. The increase is appreciable between the lowest income class (0-35) and the next higher class (36—75) indicating a distinct change in the standard of living. This is as could be expected because salary level (0—35) mostly represents the inferior staff. The 'bhadralok' really commences his career from Rs. 35 upward. The increase between the income class (36—75) and the next higher class (76—150), however, is only moderate, which indicates that the standards of living of these two classes are comparable.

"(ii) Expenditure on all groups of items such as food, fuel, rent, etc., increases as salary increases except in intoxicants, in which there is a gradual decrease. The expenditure on clothings, tobaccos and utensils increases from (0-35) to

(36—75) class and then decreases. The data are so consistent that there is hardly any room for doubt. It is probably due to the fact that on the average the (36—75) class represent younger men than the (76—150) class and that the younger people spend more on clothing and tobacco. Growing family at this age would also account for more utensils.

"(iii) The increase in the expenditure on food is not much between any two levels. But there is a definite change in the pattern of consumption. Expenditure on cereals decreases with income, that on the others such as pulses, vegetables, fish, meat, milk, etc., increases. The increase in the last three is appreciable.

"(iv) Expenditure on education and miscellaneous items (including medical expenses) increases very appreciably from level to level.

"The above would generally indicate that the lower income groups do not get enough essential food and that their income falls short of their educational and medical needs. Any added income is readily spent on such essential foodstuff as milk, fish, meat, etc., and more readily on education and medicine. The diminishing expenditure on cereals with rise in income would indicate that the higher consumption of cereals at lower levels is not a matter of choice.

"It has been shown that expenditure on food and other items increases with income and that quantities consumed also increase. It may be noted, however, that as in expenditure so also in quantities of cereals consumed there is a decrease with increase of income. It will be seen that with the rise in income cereals are dropped to be replaced by more milk, fish, meat, etc., that is to say, with rise in income the actual diet gradually approaches the ideal balanced diet."

TABLE 1
ACTUAL NUMBER OF BIRTHS AND DEATHS ANNUALLY REPORTED FOR EACH SEX DURING THE DECADE 1941-50

Vi Year									N	umber of birth		N	umber of deaths		Excess(+) or deficiency(-) of female	Excess(+) or deficiency() of female	Excess(+) or deficiency() of births over	Number of female births per 1,000	
									Both Sexon	Male	Female	Both Sexes	Male	Female	births over male births	deaths over	deaths, both	male births	per 1,000 male deaths
1					•				2.	8	4	8	6	7	8	9	10	11	11
									1						1	•	,		
Total 1	1941-	60				•			4,660,984	2,419,702	2,241,192	4,298,879	2,240,765	2,058,114	-178,600	-182,651	+ 802,105	926.2	91H-8
2060		٠				•			444,549	230,014	214,629	866,848	180,446	171,897	- 16,486	- 14,049	+ 87,700	932-7	854.8
1949									488,168	263,200	234,958	372,569	190,116	182,443	18,247	- 7,073	+110,694	927-9	ひっか・む
104N									453,564	235,710	217,864	865,276	198,401	186,877	— 17,856	- 11,524	+ 64,246	924-2	511.5
1947									427,755	222,184	205,571	867,166	201.002	186,103	- 10,613	- 14,959	40,590	020.2	025.6
2046								:	524,865	271,808	252,497	414,087	216,831	198,366	- 19,871	- 17,975	+ 109,678	02M-7	010-0
1945		:				:	•	•	467,866	238,610	218,840	448,600	233,812	216,288	- 19,676	18.024	+ 8.760	917-5	922-7
1944	:	•		·		•	•	•	877,876	196,160	IH1,210	677,876	800,429	276,946	- 14,944	- 23,483	-199,999	928-8	921.8
1948	:	:	•	•	•	•	•	•	440,014	\$2H,712	211.802	624,266	882,182	202,084	- 17,410	- 40,098	-184,262	023-0	H79-8
1042	-	•	•	•		•	•	•	600,078	263,103	243,475	847, HNG	182,313	165,573	- 10,02H	- 16,740	+ 168,602	925-4	904-2
1941	•	•	•	•	•	•	•	•					201,178	183,047	- 10,370	- 18,120	+ 167,000	930-9	909-9
****	•	•	•	•	•	•	•	•	841,240	240,325	200,965	884,220	EU1,1/8	199,041	- 10,070	- 10,120	T 101,000	620.A	A.A.A

TABLE 1.1

ACTUAL NUMBER OF BIRTHS AND DEATHS REPORTED FOR EACH SEX IN THE STATE, ADMINISTRATIVE DIVISION AND DISTRICT DURING 1941

				٠				•				Examss(+) or	Exames(+) or	Exames(+) or		Numbe r of
Locality						Nı	imber of births		Nu	unber of deat	lie .	deficioncy(-)	deficiency()	deficiency(-) of births over	female births	formale deaths
						Both Sexes	Malo	Fomale	Both Sexes	Male	Female	births over male births	deaths over	deaths, both	maie births	per 1,000 male deaths
1					•	8	8	4	8 .	6	7		9	10	11 -	14
WEST BENGAL STA	TE ·	•			•	841,980	2 80,825	260,955	884,290	801,178	188,047	-19,870	-18,126	+ 157,060	930∙€	908-8
Burdwan Division	•		•	•	•	870,526	189,615	180,911	188,947	95,498	88,451	— 8,704	7,045	+ 86,579	937.7	924-8
Aurdwan Birbhum Biankura Midnapur Hooghly Howrah	•	•	•	•	•	50,498 85,124 86,980 82,120 86,450 29,404	25,925 18,858 18,808 42,028 19,114 15,897	24,678 16,771 18,127 40,007 17,886 14,007	86,518 23,178 27,042 54,842 22,216 20,656	10,148 12,047 13,949 27,954 11,508 10,890	17,870 11,126 18,098 26,888 10,708 9,766	- 1,358 - 1,589 - 676 - 1,926 - 1,778 - 1,890	- 1,778 - 921 - 856 - 1,506 - 800 - 1,124	+ 13,980 + 11,961 + 9,886 + 27,778 + 14,234 + 8,748	947-8 962-8 964-0 954-2 906-8 909-7	907-1 928-8 988-6 944-0 980-8
Presidency Division	•	•	•	٠	•	270,754	140,710	180,044	200,978	105,677	94,596	-10,666	-11,081	+ 70,481	994-2	895.7
24-Parganas . Calcutta . Nadia . Murahidabad . Balda . West Dinajjur . Jaljaiguri . Darjeoling . Cooch Behar .			•	•		80,116 20,200 27,458 56,768 18,068 10,816 20,980 11,808	40,151 10,088 14,202 20,828 7,824 8,010 10,207 8,000	42,965 18,267 18,266 27,446 7,244 7,806 12,008 8,408	58,226 86,176 21,756 81,481 10,166 11,802 20,489 10,717	86,245 19,718 11,408 16,862 6,461 8,900 10,423 8,876	97,981 10,408 10,848 14,569 4,705 5,872 10,017 5,141 Not available	8,186 2,776 946 1,878 580 204 604 492	- 8,264 - 8,250 - 1,060 - 2,293 - 756 - 618 - 405 - 438	+ 80,890 - 6,866 + 8,702 + 86,387 + 4,902 + 4,464 + 8,401 + 891	981-0 826-9 933-4 936-0 928-9 974-8 984-8	925 1 835 1 907 1 864 0 861 6 896 8 961 1 927 0

TABLE 1.2
ACTUAL NUMBER OF BIRTHS AND DEATHS REPORTED FOR EACH SEX IN THE STATE, ADMINISTRATIVE DIVISION AND DISTRICT DURING 1942

Locality					1	Number of birth		Nu	mber of deaths	_	Excess(+) of deficiency(-)	Excess(+) or deficiency(-)	Excess(+) of deficiency(—) of births over	Number of female births per 1,000	Number of female deaths
Locality		٠			Both Sexes	Male	Female	Both Sexes	Male	Female	of female births over male births	of female deaths over male deaths	deaths, both	male birthe	per 1,000 male deaths
, 1					1	8	4	5	•	7	•	•	10	11	12
WEST BENGAL STATE	•	•		•	806,678	263,108	943,475	847,886	182,318	165,578	-19,628	16,740	+ 158,692	925-4	906-8
Berdwan Division .	•	•	•	•	259,897	184,039	125,858	171,848	88,206	83,137	— 8,181	- 5,069	+ 88,554	939-0	8-216
Burdwan Birbhum Hankura Midnapur Hooghly Howrah	:	:	•		52,345 37,098 38,816 71,786 86,324 28,628	27,041 18,672 19,790 36,901 19,250 12,885	25,804 18,426 19,026 84,885 17,074 11,148	84,801 22,840 25,881 60,685 21,159 17,027	17,861 11,574 12,987 25,766 11,069 8,999	16,440 11,266 12,444 24,869 10,090 8,028	- 1,737 - 246 - 764 - 2,016 - 2,176 - 1,242	- 1,421 - 808 - 498 - 897 - 979 - 971	+ 18,044 + 14,265 + 18,435 + 21,161 + 15,165 + 6,601	935-8 946-8 941-4 945-4 887-0 899-7	920-4 978-4 961-9 966-2 911-6 892-1
Precidency Division .				•	246,681	129,064	117,617	176,548	94,107	82,436	-11,447	-11,671	+ 70,188	911-4	876-0
24-Parganas Calcutta Nadia Murshidabad Malda West Dinajpur Jaljasguri Derjeeling Cooch Behar	•	•		•	81,184 19,687 80,106 55,116 12,119 18,828 28,789 10,808	42,569 11,859 15,666 28,370 6,810 7,008 12,264 5,688	88,565 8,478 14,440 26,746 5,809 6,819 11,445 5,275	49,898 24,594 21,882 83,333 6,808 10,853 19,902 10,278	26,444 14,478 11,844 17,418 8,859 5,847 10,211 5,476	28, 454 10, 121 10, 538 15, 920 2, 949 4, 966 9, 691 4, 797	- 4,004 - 2,881 - 1,226 - 1,024 - 501 - 184 - 769 - 258	- 2,990 - 4,862 - 806 - 1,498 - 410 - 421 - 520 - 679	+ 81,236 - 4,767 + 8,324 + 21,768 + 5,811 + 8,419 + 8,887 + 686	905-9 746-4 921-7 943-8 920-6 978-7 987-2 968-4	8MG·9 8MG·8 92M·9 914·8 877·9 921·8 940·1 876·0

TABLE 1.3
ACTUAL NUMBER OF BIRTHS AND DEATHS REPORTED FOR EACH SEX IN THE STATE, ADMINISTRATIVE DIVISION AND DISTRICT DURING 1943

Locality						N	umber of birth		Nu	mber of deaths		Excess(+) or deficiency(-) of female	Excess(+) or deficiency(—) of female	Excess(+) or deficiency(-) of births over	Number of female births per 1,000	
						Both Sexes	Male	Female	Both Sexes	Male	Temale	births over male births	deaths over	deaths, both	maie births	per 1,000 male deaths
1						2	8	4	5	6	7	•	•	10	11	12
WEST BENGAL STAT	TE		•			8440,014	228,712	211,302	624,266	832,182	292,084	-17,410	-40,098	- 184,258	923 ·9	879-8
Burdwan Division	•	•	•	•	•	242,106	125,323	116,783	815,035	168,021	147,014	- 8,540	21,007	- 92,929	931-9	875-0
Burdwan Birthum Bankurn Midnapur Honghly	:	:	:	:	:	42,328 83,221 33,808 74,319 32,840	21,837 16,989 17,358 88,500	20,491 16,238 16,429 85,819	47,467 40,489 40,170 124,736	24,842 20,612 20,883 67,247	22,625 19,877 19,287 57,422	- 1,346 - 757 - 968 - 2,681	- 2,217 - 735 - 1,596 - 9,755 - 2,124	- 5,139 - 7,265 - 6,862 - 50,420 + 5,344	934-4 955-4 944-8 939-4 913-1	910-8 964-3 923-6 864-9 856-6
Howrah	:	:	:	:	:	23,500	17,166 13,44 3	15,674 12,147	27,496 84,674	14,810 19,627	12,646 15,047	-1.492 -1.296	= 4,5m0	- 9,084	903·6	700.6
Presidency Division	•	•	•			197,908	103, 389	94,519	509,251	164,161	145,970	- 8,870	19,091	— 111,823	914-2	883·7
24-Parganas Calcutta Nacia Murshidabad Makia West Dinajpur Jalpaiguri Darjeaing Couch Mohar		:		:	:	63,901 20,658 23,041 86,741 9,046 14,959 19,642 9,668	83,854 11,394 11,946 18,956 4,775 7,571 9,986 4,907	80,047 9,264 11,095 17,765 4,273 7,418 9,666 4,781	91,213 52,268 84,840 65,078 11,317 12,456 26,864 11,258	51,879 27,709 19,706 83,181 5,891 6,542 18,933 4,670	89,834 24,559 19,134 31,942 5,426 5,916 12,871 5,858	- 8,407 - 2,130 - 851 - 1,171 - 502 - 153 - 130 - 126	-11,546 -8,150 - 672 -1,149 - 465 - 626 -1,002 - 463	27,312 — 81,610 — 15,799 — 20,312 — 2,269 — 2,331 — 6,902 — 1,570	847-5 841-3 924-8 934-2 84-9 9-3-4 947-0 974-3	775-3 866-3 971-0 964-1 921-1 944-3 923-8 917-9
Jalyaigun .	:	:	:	:	:	19,542	9,966	9,566	26,804	18,933 4,670	12,871	- 130	- 1,002	- 6,942	₩7·U	

TABLE 1.4
ACTUAL NUMBER OF BIRTHS AND DEATHS REPORTED FOR EACH SEX IN THE STATE, ADMINISTRATIVE DIVISION AND DISTRICT DURING 1944

Locality					1	Number of birt	ha	N	umber of deaths		Excess(+) or deficiency(—) of female	Excess(+) or deficiency() of female		emale births	Number of female
·					Both Sexes	Male	Female	Both Sexes	Male	Female	births over male births	deaths over male deaths	deaths, both sexes	per 1,000 male births	deaths per 1,000 male deaths
1					2	3	4	5	. 6	7	8	9	10	11	12
WEST BENGAL STATE					877,376	196,160	181,216	577,375 ·	300,429	276,946	-14,944	- 23,483	-199,999	923 8	921-8
Burdwan Division .	•	•	•		203,427	105,394	98,033	269,660	137,764	131,896	— 7,361	5,868	- 66,233	930-2	957· 4
Burdwan Birbhum Hankura Midnapur Hooghly Howrah	:	:	:	:	85,357 21,691 24,160 65,792 28,610 27,817	18,321 11,183 12,556 84,058 14,939 14,337	17,086 10,508 11,604 81,736 13,671 13,480	48,651 41,200 81,484 79,124 29,385 89,816	25,046 20,244 15,885 40,759 15,160 20,670	23,605 20,956 15,599 88,365 14,225 19,146	- 1,285 - 675 - 952 - 2,324 - 1,268 - 857	- 1,441 + 712 - 286 - 2,894 - 935 - 1,524	- 13,294 - 19,509 - 7,924 - 13,332 - 775 - 11,999	929-9 939-6 924-2 931-8 915-1 940-2	942.6 1,086.2 982.0 941.3 938.3 926.8
Presidency Division	•	•	•	•	173,949	90,786	83,183	307,715	162,665	145,050	7,583	17,615	133,766	916-5	891 8
24-Parganas . Calcutta . Nadia . Murahidabad . Malda . West Dinajpur . Jaipaiguri . Darjeeling . Cooch Behar .				•	51,648 21,981 16,740 29,128 16,162 14,591 16,116 7,648	27,152 11,689 8,783 15,051 8,449 7,588 8,276 8,878	24,491 10,242 8,007 14,072 7,718 7,053 7,840 8,765	84,418 52,845 80,768 56,916 25,351 18,574 27,315 11,528	45,236 29,602 15,851 28,826 13,334 9,656 14,147 6,013 Not a	89,182 23,248 14,917 28,090 12,017 8,918 13,168 5,516 vailable	- 2,661 - 1,447 - 726 - 979 - 736 - 485 - 436 - 118	- 979	- 80,914 14,028 27,793 9,189 8,983 11,199	876.2 916.9 935.0 912.9 935.7 947.8	866-2 785-2 941-1 974-5 901-2 923-6 930-8 917-2

TABLE 1.5
ACTUAL NUMBER OF BIRTHS AND DEATHS REPORTED FOR EACH SEX IN THE STATE, ADMINISTRATIVE DIVISION AND DISTRICT DURING 1945

	Torollin						, 1	Tumber of births	:	Nu	mber of deaths		Excess(+) or deficiency(—) of female	Excess(+) or deficiency(—) of female	Excess(+) or deficiency(—)		Number of female
	Locality		٠				Both Sexes	Male	Female	Both Sexes	Male	Female	births over male births	deaths over male deaths	of births over deaths, both sexes	per 1,000 male births	deaths per 1,000 male deaths
	, 1						2	8	4	5	6	7	8	9	. 10	11	12
١	west bengal state		•	•	•		457,856	238,516	218,840	448,600	233,312	215,288	-19,676	18,024	+ 8,756	917·5	922-7
	Burdwan Division	•	•	•	•	•.	235,807	122,384	112,923	204,590	104,165	100,425	- 9,461	- 8,740	+80,717	922.7	964-1
	Burdwan Birbhum Bankura Midnapur Hooghly Howrah	•	•	:	:	:	86,797 24,626 81,168 85,249 28,892 26,580	20,176 12,664 16,084 44,815 15,155 18,990	18,621 11,962 15,079 40,934 18,737 12,590	86,885 29,947 26,918 57,561 25,971 28,813	18,678 14,766 18,540 29,078 13,096 15,012	17,712 15,181 12,378 28,483 12,875 13,801	- 1,565 - 702 - 1,005 - 8,881 - 1,418 - 1,400	- 961 + 415 - 1,167 - 695 - 221 - 1,211	+ 2,412 - 5,821 + 5,250 +27,688 + 2,921 - 2,238	922-9 944-6 937-5 923-7- 906-4 899-9	950-4 1,028-1 918-8 979-5 983-1 919-8
	Presidency Division		•	٠.	•	•	222,049	116,182	105,917	244,010	129,147	114,863	-10,215	14,284	· 21,9 61	912-0	889-4
44	24-Parganas Calcutta Nadta Murshidabad Maida West Dinajpur Jalpakuri Darjeeling Cooch Behar						68,918 27,728 23,834 44,426 20,228 13,043 18,675	88,781 14,616 12,570 22,999 10,620 6,809 9,485 5,302	80,187 18,112 11,264 21,427 9,608 6,284 9,090	57,778 41,878 24,751 48,617 19,536 10,306 24,207 10,988	80,800 23,824 12,860 24,930 10,468 8,578 12,515 5,672	27,478 18,054 11,891 23,687 9,068 7,727 11,692 5,266 available	- 1,504 1,806 1,572 1,012 575 895	- 2,822 - 5,770 - 9243 - 1,243 - 1,400 - 861 - 823 - 406	+ 6,14014,150 917 4,191 + 692 8,262 5,632 641	894·9 897·1 896·1 931·7 904·7 916·6 958·4 942·1	906-9- 767-8 824-7 950-1 966-8 900-8 934-2 928-4

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TABLE 1.6

ACTUAL NUMBER OF BIRTHS AND DEATHS REPORTED FOR EACH SEX IN THE STATE, ADMINISTRATIVE DIVISION AND DISTRICT DURING 1946

-						Sumber of birth	14		umber of death	•	Excess(+) or deficiency(-) of female	Exercis(+) or deficiency(—) of female	Excess(+) or desciency(-) of births over		Number of frmais deating
Locality					Both Sexes	Male	Female	Both Sexes	Malo	Female	births over male births	draths over	deaths, both	male births	per 1,000 male deaths
1						\$	4	6	6	7	•	•	10	11	12
WEST BENGAL STATE	•				824,365	271 868	252,497	414,887	216,331	198,356	-19,871	17.875	+109,678	928:7	918-9
Burdwas Division .					869,805	189,854	130,451	190,501	98, 189	92,013	8,908	- 6,477	+ 79,804	936-1	934 8
Burdwan	•	•	:	:	48,848 80,406 85,430 90,265 85,086 26,775	25,446 15,466 19,841 46,332 18,180 14,089	23,897 14,940 15,589 43,933 16,906 12,686	85,619 81,761 23,234 53,279 22,199 24,509	18,5×1 15,779 12,357 27,216 11,645 12,911	16,938 15,982 10,877 26,063 10,554 11,598	- 2,049 - 526 - 1,252 - 2,399 - 1,274 - 1,408	- 1,648 + 203 - 1,480 - 1,168 - 1,091 - 1,818	+ 13,524 1,355 + 15,196 + 86,986 + 12,887 + 2,266	919-5 966-0 936-9 94n-8 929-9 900-4	911-6 3,013-9 880-3 957-6 906-3 898-3
Procidency Division .	•				264,660	132,514	122,046	224,186	117,842	106,344	-10,468	-11,498	+ 80,874	921 0	902:4
24-Pargamas ('alcutta Nadia Nadia	•			:	74,574 83,411 25,838 47,584 19,924 17,698 25,101 10,480	80,800 17,456 13,170 24,512 10,529 9,122 13,035 6,892	85,274 15,957 12,668 23,022 9,395 8,576 12,066 5,088	46,840 86,187 24,831 46,791 19,256 16,378 23,420 9,035	25,649 20,249 12,619 23,626 10,117 8,715 12,243 4,624	22,691 16,888 12,212 23,165 9,189 7,661 11,177 4,411	- 4,026 - 1,497 - 502 - 1,490 - 1,184 - 546 - 969 - 804	- 2,958 - 4,861 - 407 - 461 - 978 - 1,064 - 218	+ 26,284 - 2,726 + 1,007 + 748 + 668 + 1,822 + 1,681 + 1,445	897-6 914-2 961-9 930-9 892-8 940-1 925-7 943-6	884-7 784-6 967-7 989-8 903-8 879-1 912-9 953-9

TABLE 1.7
ACTUAL NUMBER OF BIRTHS AND DEATHS REPORTED FOR EACH SEX IN THE STATE, ADMINISTRATIVE DIVISION AND DISTRICT DURING 1947

Tourittee						Sumber of birth		Nu	mber of deaths	•	Excess(+) or deficiency(-)	Excess(+) or deficiency(-)	Excens(+) or deficiency()	Number of female birth per 1,000	Number of a female deaths
I.ocality					Both Sexes	Maje	Female	Both Sexes	Male	Female	of female births over male births	of female deaths over male deaths	of births over deaths, both sexes	naie birtha	per 1,000 male deaths
1					2	8	4	Б	6	7	8	•	10	11	12
WEST BENGAL STATE					427,755	222,184	905,571	387,16b	201,062	186,103	-16,618	-14,959	+ 40,590	925 2	925 6
Burdwan Division .					216,054	111,839	104,215	193,910	99,102	94,808	- 7,624	4,294	+ 22,144	931 8	966 7
Burdwan Birthum Barkura Mkinapur Honghly Mowrah	:	:	:	:	40,416 22,257 29,471 71,924 30,039 21,547	21,151 11,364 15,071 87,254 15,794 11,175	19,665 10,893 14,490 84,640 14,245 10,372	\$5,614 26,903 26,542 57,634 22,904 24,313	18,480 13,612 13,495 28,989 11,980 12,586	17,134 13,291 13,047 28,665 10,944 14,727	- 1,486 - 471 - 671 - 2,644 - 1,549 - 803	- 1,846 - 821 - 448 - 304 - 1,016 - 859	+ 5,202 - 4,646 + 2,929 + 14,290 + 7,135 - 2,766	029-7 958-6 955-6 929-1 901-9 928-1	927-8 976-4 996-8 959-5 915-1 931-7
Procidency Division .					211,701	110,845	101,356	193,255	101,960	91,295	- 8,989	-10,669	+ 18,446	918 \$	894 4
24-Parganas Calcutta Nadia Biurshidabad Maida West Dinajpur Jaipateuri Parjeeling Cooch Behar	•		•	•	59,138 53,244 21,194 54,950 13,528 13,516 24,355 11,461	\$1,309 17,204 11,077 16,188 7,114 7,115 12,477 6,661	27,824 16,000 10,117 16,742 6,414 6,701 11,908 5,600	45,176 41,135 19,834 83,874 11,203 14,782 15,740 5,531	23,736 22,358 10,113 17,699 6,091 7,771 9,776 4,416	21,440 18,777 9,721 16,175 5,112 6,991 8,964 4,115 Vallable s	- 8,4%5 - 1,204 - 960 - 1,396 - 7(6) - 414 - 569 - 201	- 2,296 - 8,581 - 892 - 1,524 - 979 - 786 - 812 - 801	+13,957	8887 930-0 913-3 923-2 901-6 941-8 954-4 955-6	903-8 839-8 901-8 913-9 839-8 899-6 914-9 931-8

TABLE 1.8

ACTUAL NUMBER OF BIRTHS AND DEATHS REPORTED FOR EACH SEX IN THE STATE, ADMINISTRATIVE DIVISION AND DISTRICT DURING 1948

					1	Tumber of birth	18	Nu	ımber of deaths		Excess(+) or deficiency()	Excess(+) or deficiency(-)	deficiency(—)	female births	Number of female	
Locality					Both Sexes	Male	Female	Both Sexes	Male	Female	of female births over male births	of female deaths over male deaths	of births over deaths, both sexes	per 1,000 male birtas	deaths per 1,000 male deatha	
1					2	8	. 4	5	6	7	8	9 (10	11	12	
		•														
WEST BENGAL STATE		•	•	•	453,564	255,710	217,854	885,278	198,401	186,877	17,856	-11,524	+ 68,286	924-8	941-9	
Burdwan Division .		•	•	•	214,555	111,140	103,415	188,424	95,193	93,231	— 7,725	1,962	+26,131	930-5	979-4	
Burdwon	•		•	•	87,171	19,808	17,868	84,844	17,538	17,806	- 1,485	— 2 32	+ 2,327	925.7	986-8	
Birbhum	•	•	•	•	26,247	18,802	12,945	22,997	11,581	11,466	- 857	- 65	+ 8,250	978-2	994-4	
Bankura	•	•	•		27,480	14,202	18,278	24,529	1 () 12,551	11,978	- 924	— 573	+ 2,951	934-9	954.8	20
Midnapur	•	•	•	•	76,521	89,593	86,928	59,273	29,625	29,648	- 2,665	+ 23	+ 17,248	932.7	1,000-8	1
Hooghly				•	26,564	18,937	12,627	22,284	11,823	10,961	- 1,310	- 362	+ 4,280	906-0	968.0	
Howrah	•	•			20,572	10,803	9,769	24,497	12,625	11,872	- 1,034	— 753	— 8,925	904-8	940-4	
									•							
Presidency Division .	•	•	•	•	289,009	124,570	114,439	198,854	103,208	93,646	10,131	9,562	+ 42,655	918-7	907:4	
24-Parganas	•	•	•	•	61,868	82,654	29,214	49,105	25,625	23,480	- 8,440	-2,145	+12,763	894.7	916-8	
Calcutta	•	•	•	•	40,842	21,222	19,120	48,178	25,767	22,411	- 2,102	-8,356	 7,836	901.0	869-8	
Nadia	•	•	•	•	21,795	11,897	10,398	19,032	9,615	9,417	— 999	- 198	+ 2,768	912-8	979-4	
Murshidabad	•	• ·	•	•	42,026	21,644	20,382	28,546	14,704	13,842	1,262	- 862	+18,480	941-7	941-4	
Malda	,		•	•	20,379	10,728	9,656	12,181	6,661	5,520	- 1,067	-1,141	+ 8,198	900-5	828-7	
West Dinajpur .	•	•	•	•	14,884	7,484	6,950	12,883	6,986	5,897	- 484	-1,089	+ 1,501	984-9	844-1	
Jalpaiguri .	•		•	•	26,897	18,720	18,177	18,167	9,381	8,786	— 543	595	+ 8,780	960-4	936-9	
Darjeeling		•	•		11,318	5,776	5,542	8,762	4,469	4,293	284	— 176	+ 2,556	969-5	960°C	
Cooch Beliar									3	ot available						

Library and

TABLE 1.9

ACTUAL NUMBER OF BIRTIIS AND DEATHS REPORTED FOR EACH SEX IN THE STATE, ADMINISTRATIVE DIVISION AND DISTRICT DURING 1949

•							X	mber of birth		Ku	mber of deaths	1	Excess(+) or deficiency() of frmale	Exces(+) or deficiency(—) of female	Excess(+) or deficiency(-)	female births	female
Locality					•	٠	Both Sezes	Male	Female	Both Sexes	Male	Female	births over male births	draths over male deaths	of births over deaths, both sexes		deaths per 1,000 male deaths
1		ı						8	4,	5 .	6	7		•	10	11	12
WEST BENGAL STAT	TE.				•	• .	488,153	253,200	234,953	872,559	190,116	182,443	-18,247	-7,678	+ 115,694	927*9	909-6
Berdwan Division	•		•	·	•	•	224,505	116,649	107,856	183,026	92,111	90,915	— 8,793	-1,196	+ 41,479	924.6	967 0
Burdwan Birbhum Bankura Midnapur Hooghly Howrah	:	:				•	40,115 26,588 29,945 78,866 27,804 21,687	20,761 18,672 16,697 40,573 14,570 11,476	19,864 12,916 14,848 87,798 18,234 10,211	82,520 24,680 28,156 59,949 20,645 22,076	16,458 12,244 11,779 29,722 10,560 11,858	16,067 12,436 11,877 80,227 10,085 10,728	- 1,407 - 756 - 1,249 - 2,780 - 1,886 - 1,265	- 886 + 192 - 402 + 505 - 475 - 630	+ 7,595 + 1,908 + 6,789 + 18,417 + 7,159	939-2 944-7 919-9 931-5 908-8 889-8	976 5 1,015 7 985 9 1,017 0 955 0 944 2
Presidency Division	•	•	•		•	•	263,648	136,551	127,097	189,533	88,005	91,528	- 9,054	-6,477	+ 74,115	930-8	933.9
24-Parganas . Calentia . Nadia . Murshidabad . Malda . West Dinajpur Jaipaiguri . Darjeeling . Cooch Behar		•	•			• • • • • • • • •	64,172 57,515 20,790 43,840 21,097 17,708 27,008 11,598	83,564 29,707 10,767 22,665 11,132 9,085 13,725 6,866	80,608 27,808 10,008 21,015 9,965 6,623 13,368 6,707	47,458 41,862 19,147 28,566 12,664 13,874 18,201 8,266	24,708 22,523 9,498 14,346 6,648 6,906 9,171 4,215 Not 8	22,750 19,839 9,654 14,220 6,016 6,468 9,030 4,051	- 2,966 1,899 784 1,650 1,167 462 357 179	-1,953 -8,184 + 161 - 126 - 632 - 438 - 141 - 164	+ 16,719 + 16,863 + 1,643 + 15,114 + 8,433 + 4,334 + 8,892 + 3,327	911-9 936-1 927-8 927-8 945-8 949-1 974-0 969-6	920-9 858-6 1,017-0 991-9 994-9 678-8 984-6 961-1

TABLE 1.10

ACTUAL NUMBER OF BIRTHS AND DEATHS REPORTED FOR EACH SEX IN THE STATE, ADMINISTRATIVE DIVISION AND DISTRICT DURING 1950

									· -						
Lucality					N	mber of birth	•	N	umber of death	·	Excess(+) or deficiency() of female	Excess(+) or deficiency() of female	Rxcess(+) or deficiency(-) of births over	Number of female births	Number of female deaths
					Both Sexes	Male	Female	Both Sexes	Male	Female	births over male births	deaths over maje deaths	deaths, both sexes	minle births	per 1,000 mule deaths
1	٠	•	•	• •	2	8	4	5	6	. 7	8	9	10	11	12
WEST BENGAL STATE					444,543	230,614	214,529	856,843	185,446	171,397	15,425	-14,049	+ 87,700	932-7	924.8
Burdwan Division .	į.				203,626	106,086	97,540	168,461	86,463	81,998	- 8,546	- 4,485	+ 25,165	919-4	948-4
Burdwan					35,479	18 37 7	17,102	30,395	15,790	14,605	- 1,275	1,155	+ 5,064	930-6	925-0
Birbhum					20,431	10,499	0.932	23,406	11,869	11,537	- B67	- 832	- 2,975	946-0	972.0
Bankura					25,421	13.187	12,234	21,484	11,258	10,231	- 953	- 1,022	+ 8,937	627.7	90912
Midnapur			•	•	74,704	88,733	85,971	53,340	27,154	26,186	 2 ,762	- 968	+21,364	924-7	964-4
Hooghly			•		26,254	13,864	12,390	18,947	9,998	8,949	1,474	- 1,049	+ 7,307	A48-7	895-1
Howrah	•	•	•	•	21,837	11,426	9,911	20,889	10,899	10,490	- 1,515	+ 91	+ 448	867-4	1,008-8
Presidency Division .	•	•	•	•	840,917	123,928	116,989	188,382	98,989	89,399	6,939	— 9,584	+ 52,535	944-0	803.8
24-Parkabas	•				58,669	31,161	27,508	40,483	21,483	19,050	-3,653	- 2,313	+ 18,156	\$F2-8	8n# 8
Calcutta			•		60,502	81,242	29,560	52.196	27,850	24,846	-1/62	-2.614	+ 8,606	946 2	SHIM-4
Nadia					15,595	7,206	8,389	16,867	8,641	8,166	+1,153	- 475	- 1,212	911-3	945-0
Murshidabad		•	•	•	89,205	19,261	19,944	25,587	18,406	12,161	+ 643	-1,225	+13,618	1,085-5	BIA-6
Makia	•				18,020	9,698	8,822	12,455	6,514	5,641	-1,876	-1,173	+ 6,565	854-1	P27 9
West Dinajpur .	•				13,122	6,856	6,266	13,718	7,246	6,472	- 610	- 774	- 695	918·9	料5/3/2
Jahrahuri	•	٠	•		24,275	12,695	11,5#0	18,394	9,492	8,902	-1,116	- 590	+ 8,8+1	912.2	637-6
Darjeeling		•	•	•	11,229	5,809	5,420	8,742	4,601	4,141	'889	- 460	4 2,467	983-0	9000
Cooch Behar				_	-	•	•	• -	Not	avallable					

27

TABLE 2
TOTAL BIRTHS 1941-50

	194	1—19 50 ′	16	941	1	942	. 1	1943		1944		1945		1946		1947		1948	1	949	19	50
District	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Femal	e Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1	2	8	4	5	6	7	8	9,	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Burdwan Birbhum Bankura Midnapur Hooghly Howrah 24-Parganas Oalcutta Nadia Murshidabad Maida West Dinajpur Jaipaiguri Darjeeling Ooooh Behar	128,621 851,445 181,920	153,105 872,734 146,894 116,816	25,925 18,353 18,903 42,023 19,114 15,397 46,151 16,033 14,202 29,323 7,824 8,010 13,267 5,900	24,578 16,771 18,127 40,097 17,336 14,007 42,965 13,257 13,256 27,445 7,806 12,663 5,408	27,041 18,672 19,790 84,901 19,250 12,356 42,569 11,359 15,668 28,370 6,310 7,003 12,254 5,533	18,426 19,026 84,885 17,074 11,143 88,565 8,478	21,837 16,988 17,388 88,500 17,166 13,443 33,854 11,394 11,948 18,956 4,775 7,571 9,986 4,907	20,491 16,232 16,420 35,819 15,674 12,147 30,047 9,264 11,095 17,785 4,273 7,418 9,856 4,781	14,939	17,036 10,508 11,604 31,734 13,671 13,480 24,491 10,242 18,007 14,072 7,713 7,053 7,840 8,765	16,084 44,315 15,155 13,990 33,731 14,616 12,570 22,999 10,620 6,809 9,485 5,302	15,079 40,934 13,737 12,590 30,187 13,112 11,264 21,427 9,608 6,234	25,446 15,466 19,841 46,332 18,189 39,300 17,454 13,170 24,512 10,529 9,122 13,035 5,392	23,397 14,940 18,589 43,933 16,906 35,274 15,957 12,668 23,022 9,395 8,576 12,066 5,088	21,151 11,364 15,071 37,284 15,794 11,175 31,309 17,204 11,077 18,188 7,114 7,115 2,477 5,861	34,640 14,245 10,372 27,824 16,000 10,117	19,303 13,302 14,202 39,593 13,937 10,803 22,654 21,222 11,397 21,644 10,723 7,434 13,720 5,776	17,868 12,945 13,278 36,928 12,627 9,769 29,214 19,120 10,398 20,382 9,656 6,950 13,177 5,542	20,761 13,672 15,597 40,573 14,570 11,476 33,564 29,707 10,787 22,665 11,132 1,085 13,725 5,886	19,354 12,916 14,348 37,793 13,234 10,211 30,608 27,808 10,003 21,015 9,965 9,965 13,368 5,707	18,377 10,499 13,187 38,733 13,864 11,426 31,161 31,242 7,206 19,261 9,698 6,856 12,695 5,809	17,102 9,932 12,234 35,971 12,890 9,911 27,508 29,560 8,389 19,944 8,322 6,266 11,580 5,420

TOTAL . 2,419,792 2,241,192 280,825 280,955 283,108 243,475 228,712 211,802 196,160 181,216 238,516 218,840 271,868 252,497 222,184 205,571 235,710 217,854 253,200 234,953 230,014 214,529

TABLE 3
BIRTH RATES (NUMBER OF BIRTHS PER 1,000 OF TOTAL POPULATION)
A—Calculated on the population at the census of 1941

	1	941 — 1950	1 1	1941	٠٠.	1942		1948	1	1944	1	1945		1946		1947	;	1948		1949	1	950
District	· Ma	le Femal	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		Female	Male	Female	Male	Female	Male	Female	Male	Female
1	2	. 8	4	5	6	7 -	8 -	9 ·	10	11	12	13	14	15 -	16	17	18	19	20	21	22	23
•	Avera	ge						•	•	٠	,	•	• • •		•	· ·	. •					
Burdwan Birbhum Bankura Midnapur Hooghly Howrah 24-Paryanas Calcutta Nadia Murshidabad Malda West Dinajpur Jajpaiguri Darjeeling Cooch Behar	11-5 13-6 12-8 11-8 9-6 13-5 10-8 14-6	12.9 11.9 11.7 10.7 7.8 8.6 7.7 13.0 12.7 9.8 12.4	19-7 17-5 14-6 18-2 18-9 10-8 12-6 7-6 16-9 17-9 9-8 13-7 15-7	13.0 16.8 14.0 12.6 12.6 11.7 6.8 15.8 16.7 8.6 13.4	14.3 17.8 15.3 11.6 14.0 8.8 11.6 5.4 18.6 17.3 7.5 12.0 14.7	13-4 17-6 14-7 10-9 12-4 7-5 4-0 17-2 16-3 6-9 11-7 13-6 14-0	11.5 16.5 12.1 12.5 9.0 9.2 14.2 11.6 5.7 13.0	10·8 15·5 12·7 11·2 11·4 8·2 8·2 4·4 13·2 - 10·8 12·7 11·6 12·7	9.7 10.7 9.7 10.7 10.8 9.6 7.4 5.5 10.4 10.0 12.9 9.8	9·0 10·0 9·9 9·9 9·9 9·0 6·7 4·9 9·5 8·6 9·1 12·1 9·8	10-7 12-1 12-5 13-9 11-0 9-4 9-2 6-9 15-0 12-6 11-7 11-2 14-1 Not ave	9.8 11.4 11.7 12.8 10.0 8.4 8.2 13.4 13.1 10.7 10.7	13.5 14.8 14.5 14.5 13.2 9.5 10.7 15.0 12.5 15.4 14.8	12·4 14·3 14·4 13·8 12·3 8·5 9·6 15·1 14·7 14·8 13·5	11.2 10.8 11.7 11.5 7.5 8.5 13.2 11.1 8.4 12.2 15.6	10·4 10·4 11·2 10·8 10·3 7·0 7·6 12·0 10·2 17·6 11·5 14·1	10·2 12·7 11·0 12·4 10·1 7·2 8·9 10·1 13·6 13·2 12·7 12·7 12·7 12·8	9·5 12·3 10·8 11·6 9·2 6·6 8·0 9·1 12·4 11·4 11·4 11·4	11·0 13·0 12·1 12·7 10·6 7·7 9·1 14·1 12·8 13·8 13·2 15·6	10·2 12·3 11·1 11·8 9·6 6·9 8·4 13·2 11·9 12·8 14·8 15·2	9·7 10·0 10·2 12·1 10·1 7·7 8·5 14·8 11·7 11·5 11·8 15·0	9·0 9·5 9·5 11·8 9·0 6·7 7·5 14·0 10·0 12·2 9·9 10·7 13·7 14·4
TOTAL .	. 10-1	10-6	13-2	12.8	12-4	11.4	10-7	9.0	9.2	+ 8·5 ~	711.2	~ 10·3	12.8	11.9	10-4	9.7	11.1	10.2	11.9	11.0	10-8	10.1

TABLE 4
BIRTH RATES (NUMBER OF BIRTHS PER 1,000 OF TOTAL POPULATION)

B—Calculated on the estimated population on the 30th June of each year computed on the assumption that the population changed at a uniform rate from one census to the next

	• -	-1950	194	11	1	42	_ 19	48	1	944	1	945	1	946		1947	1	948	_ 1	040	1	950
District	Male	Feinale	Male	Female	Male	Fumale	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Mulo	Female	Malo	Female
1	2		4	5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	70	81	22	23
	Aver	rão																				
Burdwan .	. 11-4	10-6	13.7	13.0	14-1	13.2	11.3	10.6	9-6	8.9	10.6	9.8	13.8	12.2	11.0	10.2	10.0	9.8	10.8	10.0	9-5	8.8
Birbhum .	. 11-5	12.9	17-4	16.8	17.5	17.8	15.8	15.0	10.6	10.0	$12 \cdot 1$	11.5	14.8	14.3	11.0	10.5	12.8	12.5	13.1	12-4	10.1	9.6
Bankura ,	. 12.4	11.7	14.5	14.0	15-2	14.6	13.2	13.5	9.7	8.9	12.4	11.6	15-1	14.2	11.4	10.9	10.7	10.0	11.7	10.8	0.0	9 . 7
Midnapur .	. 12.8	11.5	12.5	12.5	11-4	10.8	11.9	11-1	10.7	10.0	13.9	12.9	14.4	13.6	11.5	10.7	12.1	11.8	12.4	11.5	11.8	10.9
Hooghly .	. 11-4	10.4	18-8	12.5	13-8	12.2	12.2	11-1	10.6	9.7	10.8	9.8	12.8	11.9	11.0	10.0	9-7	8.8	10-1	9.2	U-6	8 -6
Howrah .	. 8.7	7-8	10.8	9.4	8.8	7-4	8.0	8-1	9.7	9.1	9.5	8.5	9.5	8.6	7.5	7.0	7∙8	6.6	7.8	6.0	7.8	6.7
24-Parganas	. 9-5	8.5	12.5	11.7	11-4	10.8	9.0	8.0	7.4	6.6	9.2	8.2	10.6	9.5	8-4	7.6	8.8	7⋅8	9 ·0	8.2	8.8	7.8
Calcutta .	8.9	8.0	7.6	6.8	5.4	4.0	5.0	4.4	5.7	5.0	7.2	6.4	8.6	7.9	8.5	7.9	10.6	9.6	14.8	13.9	15-4	14-6
Nadia .	. 13-4	12.6	16.9	15.7	17-6	16.2	13.3	12.4	10.1	9.2	14.6	13.1	15-2	14.7	12.8	11.7	13.2	12.0	12.4	11.5	8.8	9.7
Murshidabad	. 13-5	11-4	17.8	16.7	17.0	16.0	11.2	10.6	9.3	8.6	14.2	13.2	15.1	14.2	11.2	10.8	13.3	12.5	13.8	12.8	11.6	12.0
Malda .	. 10-1	9.0	9-8	8.6	7-8	6.7	5.8	4.9	9.8	8.9	12.8	11.2	12.2	10.9	8-2	7.4	12.8	11-1	12.7	11.8	11.0	U-4
West Dinajpur	. 13-1	12.4	13.7	18.3	12.0	11.7	12.9	12.6	12.8	12.0	11.7	10.7	15.7	14.7	12.2	11.5	12.8	11.0	15.6	14.7	11.7	10.7
Jaipaiguri .	, 15.5	14.7	15.7	15.0	16.0	14.9	13.0	12.8	10.9	10.8	12.7	12.2	17.5	16.2	16-6	15.0	18-1	17-4	17.9	17-4	16-4	15.0
Darjeeling .	. 14-4	13.7	15.7	14-4	14.7	14.0	13.0	12.7	10.4	10.1	14.3	13.5	14.5	13.7	15.7	15.0	15.3	14.7	16.5	16.0	16.2	14-2
Couch Behar	•									Not	availab	le										
Total .	. 12-8	11.7	13-2	12.8	12.8	11:4	10.6	9.8	0.8	8.6	11.3	10-4	12.8	11.9	10.8	9.7	11.1	10.0	11.8	11.0	10.7	10.0

TABLE 5

FEMALE BIRTHS REPORTED PER 1,000 MALE BIRTHS REPORTED ANNUALLY IN EACH DISTRICT 1941-1950

Year	West Bengal	Burdwan	Birbhum	Bankura	Midnapur	Hooghly	Howrah	24- Parganas	Calcutta	Nadia	Murshi- dabad	Malda	West Dinajpur	Jaipai- gui	Durjeo- ling	Comb
A verage fu		911.6	953-3	0.0	011.3	0.14.0	9:)5:0	901-1	894-9	939-0	944-2	w. 111. 9		4:		•
1941-00 .	. 924.2		-	912-1	812.8	8.99-8						899-3	946 B	950·B	950-9	
1041 .	. 930.9	947-8	962.8	804.0	954.2	800.8	909-7	931.0	820-9	933-4	930-O	925.9	974-5	954-5	A19-Q	
1012 .	. 925-4	B32-R	986-8	961-4	945-4	887-0	899-7	902-9	746-4	921.7	912-8	920-6	973· 7	937.2	95314	Not
1943 .	. 923-9	¥33·4	¥35·4	944-3	930-4	913-1	903-6	847·S	891-3	024-8	933-2	H91-9	979-8	947-0	974-3	avail-
1044 .	923-8	929-9	939-6	924.2	931-8	915-1	940-2	902.0	876-2	916-9	935-0 _	912-9	935-7	947-8	970-9	al/le
1945 .	. 917·B	022-9	011-6	937-5	923.7	906-4	899.9	H94-9	897-1	896-1	931.7	904-7	915-6	955.4	942-1	
1046 .	. 924.7	919-5	966-0	936-9	944-2	929-9	900-4	837-6	914-2	961-9	939-2	A92-3	940-1	925.7	943-6	
1917 .	925-2	929-7	W38-6	955-5	929-1	901-9	923-1	853-7	930-0	913.3	923-2	901-6	941-8	954-4	955 d	
1945 .	. 024-8	925-7	973-2	934-9	932-7	906-0	904-3	894.7	901.0	912-3	941.7	9HHJ-5	934-9	960-4	959-5	
1949 .	. 927-9	932·2	944-7	919-9	931-5	908-8	849-8	911-9	936-1	927-8	927-2	895-2	949-1	974-0	969-6	
1950 .	. 934-7	930-6	819-0	927-7	928-7	893-7	867-4	882.8	946-2	911-8	1,035-5	858-1	913-9	912.2	933-0	

TABLE 6
TOTAL DEATHS 1941-50

1 6								Т	OTAI	DEA	THS	1941-	50									
NSO:	194	1-50	1	1941	. 1	942	1	943	.1	944	1	945	1	946	1	947	1	.948	1	1949	1	950
District	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Temale.
1	2	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Burdwan . Birbhum] . Bankura . Midnapur . Hooghly . Howrah . 24-Parganas Calcutta . Nadia . Murahidabad . Malda . West Dinajpur Jalpaiguri . Darjeeling .	192,412 144,278 188,629 183,440 121,129 185,072 804,750 233,568 121,650 204,948 74,844 73,777 111,291 50,932	198,701	12,047 18,949 27,954 11,508 10,890	17,870 11,126 18,098 26,888 10,708 9,766 27,981 16,468 10,348 14,569 4,705 5,372 10,017 5,141	17,861 11,574 12,937 25,766 11,069 8,999 26,444 14,473 11,844 17,418 8,859 5,387 10,211 5,476	16,440 11,266 12,444 24,869 10,090 8,028 23,454 10,121 10,538 15,920 2,949 4,966 9,691 4,797	24,842 20,612 20,883 67,247 14,810 19,627 51,879 27,709 19,706 83,131 5,891 6,542 18,933 5,870	22,625 19,877 19,287 57,492 12,686 15,047 89,834 24,559 19,184 25,426 5,916 12,871 5,388	25,046 20,244 15,885 40,759 15,160 20,670 45,236 29,602 15,851 28,826 18,384 9,656 14,147 6,018	20,956 15,599 88,365 14,225 19,146	18,678 14,766 13,540 29,078 15,096 15,012 80,300 23,824 12,860 24,930 10,468 8,578 12,515 5,672 Not av	17,712 15,181 12,373 28,483 12,875 13,801 27,478 18,054 11,891 23,681 9,068 7,727 11,692 5,266 allable	18,581 15,779 12,357 27,216 11,645 12,911 25,649 20,249 12,619 21,619 8,715 12,248 5,624	16,938 15,982 10,877 26,063 10,554 11,598 22,691 16,888 12,212 23,165 9,139 7,661 11,177 4,411	18,480 13,612 13,495 28,969 11,560 12,586 23,736 22,358 10,113 17,699 6,091 7,771 9,776 4,416	17,134 13,291 13,047 28,665 10,944 11,742 21,440 18,777 9,721 16,175 5,112 6,991 8,964 4,115	17,538 11,531 12,551 29,625 11,323 12,625 25,625 25,767 9,615 14,704 6,661 6,986 9,381 4,469	17,306 11,466 11,978 29,648 10,961 11,872 23,480 22,411 9,417 18,842 5,520 5,897 8,786 4,293	16.453 12,244 11,779 29,722 10,560 11,853 24,703 22,523 9,493 14,346 6,648 6,906 9,171 4,215	16,067 12,436 11,877 80,227 10,085 10,723 22,750 19,339 9,654 14,220 6,016 6,468 9,030 4,051	15,790 11,869 11,258 27,154 9,998 10,899 21,433 27,850 8,641 13,466 6,814 7,246 9,492 4,601	11.537 10.231 26.186 8,949 10.490 19.050 24,846 8,166 12,181 5,641 6,472

TOTAL . 2,240,765 2,058,114 201,178 183,047 182,818 165,573 832,182 292,084 800,429 276,946 233,312 215,288 216,331 198,356 201,062 186,103 198,401 186,877 190,116 182,443 185,446 171,397

TABLE 7

DEATH RATES (NUMBER OF DEATHS PER 1,000 OF THE SAME SEX)

A—Calculated on the population as the census of 1941

		194	1-50	1	941	1	942	1	943	1	944	1	945	1	946	19	947	1	948	1	949	1	950
District		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
. 1		2.	8	4	5	6 -	7	8	9	10	11	12	18	14	15	16	17	18 •	19	20	21	22	23
		A ver	age .	•								•								: '			
Burdwan Birbhum Bankura Midnapur Hooghly Howrah 26-Parganas Calcutta Nadia Murshidabad Maida West Dinajpur Jaipaiguri Darjeeling Cooch Behar	•	19-8 27-5 21-8 20-4 16-4 16-2 16-1 28-2 24-9 17-6 24-2 24-2 25-5	20-2 27-3 20-4 20-8 17-5 18-6 16-1 29-5 28-4 28-7 15-7 28-9 28-7 28-7	18-2 23-0 21-4 17-1 15-6 13-1 15-0 18-4 20-5 12-8 12-8 22-6 27-9	19·5 21·2 20·5 16·9 16·9 14·9 26·1 26·8 17·8 15·7 19·8 26·0 29·1	17-9 22-1 19-8 15-0 10-8 18-1 10-8 26-8 21-1 7-9 17-8 22-2 27-4	18·4 21·5 19·5 15·8 12·2 16·4 25·8 19·5 6·9 17·9 25·2	24-9 89-8 82-0 41-2 20-1 23-0 25-5 19-1 40-2 18-8 21-4 20-4	25·4 37·9 30·2 36·9 19·9 22·9 24·1 37·4 46·9 39·1 12·7 21·3 33·5	25·1 38·6 24·4 25·5 24·8 22·5 20·7 36·7 35·0 31·3 31·3 30·1	26-5 40-0 24-6 22-3 29-1 23-7 35-4 86-5 34-4 28-2 32-1 34-2	18-7 28.2 20-8 17-8 17-7 18-1 16-1 16-2 80-2 24-0 28-1 27-2 28-4 Not a	19-9 29-0 19-4 18-8 20-1 21-0 16-6 27-5 29-1 29-3 27-8 20-8 4-11able	18-6 30-1 19-0 16-7 15-5 12-7 14-0 28-7 23-8 28-6 23-1	18-9 80-5 17-1 16-5 17-7 18-7 24-2 29-9 28-4 21-5 27-5 25-0	18-5 26-0 20-7 17-8 16-2 15-1 11-8 15-4 23-4 21-5 14-8 25-2 22-1	19-2 25-4 20-5 18-4 17-1 17-8 12-9 28-8 23-8 12-0 25-1 23-8	17-6 22-0 19-3 18-2 15-3 16-2 12-7 17-8 17-8 15-6 22-9 20-4 22-4	19·4 21·9 18·8 19·0 17·2 18·1 14·2 84·1 23·1 17·0 13·0 21·2 22·2 24·8	16-5 28-8 18-1 18-2 14-3 13-6 12-8 15-6 22-0 17-4 15-6 22-1 19-9 21-1	18·0 23·7 17·8 19·4 15·8 16·3 29·5 23·6 17·4 14·1 23·8 23·8	15·8 22·6 17·8 16·6 18·5 10·6 18·8 20·0 16·8 20·2 23·7 20·6 23·7	16·4 22·0 16·0 16·8 14·0 11·5 87·8 20·0 14·9 18·5 23·3 23·5
TOTAL		19-5	21.2	17-5	18-9	15-9	17-1	28-9	80-1	26-1	28-5	20.3	22-2	18-8	20-4	17.5	19-2	17-8	19-2	16-8	18-8	16-1	17-7

TABLE 8

DEATH RATES (NUMBER OF DEATHS PER 1,000 OF THE SAME SEX) 1941-1950

B—Calculated on the estimated population on the 30th June of each year computed on the assumption that the population changed at a uniform rate from one census to the next

	1941	1-40	1	941	1	1942		1943		1944		1945	1	946		1947		1948		1949		1950
District	Male	Female.	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Fomalo	Male	Female
1	2	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	23	23
	¥461	age																				
Burdwan Birbhum Bankura Midnapur Hooghly Howrah 24-Parganas Calcutta Radia Murshidabad Maila West Dinajpur Jaipaiguri Darjeeling Cooch Beliar	19-0 27-4 20-9 20-8 16-0 16-0 16-6 27-1 23-8 17-3 24-0 26-6	19-9 27-8 20-1 17-1 18-6 15-9 27-6 23-7 15-2 23-9 29-7	19·1 22·9 21·3 17·1 15·6 18·1 15·0 18·6 20·4 12·8 19·8 22·6	19.4 21-1 20.4 16.9 16.7 14.8 16.8 25.1 25.8 11.2 19.2 26.0 29.2	17-7 21-7 19-6 16-8 10-7 12-9 10-0 24-7 24-7 7-7 17-5 24-5 27-4	18·2 21·2 19·8 16·6 12·1 13·9 15·5 24·6 19·1 6·8 18·0 27·6	24·4 88·2 81·4 40·6 23·3 25·0 19·2 42·6 13·4 21·1 33·4 29·4	24·9 36·9 29·6 36·3 19·4 23·5 37·8 44·1 38·0 12·6 21·8 36·5 30·4	24·9 88·4 24·2 25·1 20·1 24·9 85·3 85·3 85·1 80·7 81·2 34·4	26·2 39·8 24·8 21·7 20·2 23·5 37·6 84·5 27·9 81·4	18·6 28·2 20·6 17·8 17·4 18·2 16·1 17·0 28·0 30·6 24·2 28·0 30·9 Not a	19·7 29·1 19·8 18·4 19·7 21·1 16·5 29·4 21·2 30·2 vallable	18·4 30·1 18·5 16·8 16·7 14·5 28·2 28·9 23·4 30·8 23·5	18·8 30·7 16·8 16·5 16·0 17·7 13·5 26·6 29·3 28·2 21·2 27·8 32·7 25·3	18·2 26·1 20·2 17·4 16·0 16·2 11·7 16·0 22·6 14·1 26·4 24·1 22·3	18-9 26-7 19-9 18-1 16-5 17-9 12-7 80-4 23-3 20-0 11-9 26-1 23-4	17-2 22-1 18-8 17-8 14-7 16-8 12-6 18-6 18-6 21-5 17-9 16-0 22-8 22-9 22-4	19·0 22·2 14·3 16·5 16·5 13·9 46·6 22·5 17·1 12·4 25·3 24·2	16-1 23-4 17-5 17-5 18-7 18-7 12-1 16-2 21-18 15-1 22-9 22-1 21-0	17-6 24-0 17-8 18-9 16-2 18-4 81-6 23-1 17-4 18-7 22-8 25-7 22-7	15-4 22-8 16-7 16-19 12-9 12-6 10-4 19-6 19-1 16-1 15-4 23-5 22-7	16-0 22-3 16-6 16-8 18-4 16-1 11-2 89-8 14-8 12-8 24-1 24-9
TOTAL	19-4	21.2	17-5	18-8	15-7	18-2	28.5	29-6	26-2	28-6	20.4	22.3	18-9	20.4	17.5	19-1	17.2	19-2	16-4	18-6	16.0	17-4

Note.—The high rates for females in Calcutta in this table and elsewhere are due to the male population of Calcutta being greatly overweighted by young adults.

TABLE 9

ANNUAL DEATH RATES BY SEX AND AGE GROUPS 1941-1950

DEATHS REPORTED PER 1,000 OF THE SAME SEX AND AGE LIVING AT THE CENSUS OF 1941
(Note—Rates for the age group "under 1 year" are calculated on the number of births recorded that year)

Age last birth day	- 6	erage of ecade 941-50)	1	941	1	942	1	943	1	944	1:	945	1	946	11	947	16)48	16)49	19	50
																<u> </u>						
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Mule	Female	Male	Femalo	Male	Female.
1	2		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Allages .	. 19-5		17-5	18-9	15-9	17-1	28-9	30-1	26-1	28.5	20.3	22· 2	18-8	20.4	17.5	19:2	17:3	19.2	16-5	18-8	16.1	17-7
0-1 .	172-1		135-2	121.6	130-5	117.9	273·6 27·2	239.7	25%5 250	265.0	184.3	170-5	140.9	136.2	150-3	139 0	142.5	130-4	134.2	126-4	182 2	110-7
1-6 . 5-10 .	19-8		16-6 H-4	17·8 9·5	13·0 7·6	16·0 8·5	13.7	28·1 15·0	12.6	27·1 14·4	19·5 9·8	$\frac{21 \cdot 2}{11 \cdot 3}$	17·9 9·1	19·2 10·3	1#-9 7-6	15:7 8:8	18:9 7:6	20:2 8:8	17:5 6:9	1 < · 6 n ()	149	7.4
10-15	. 6.	-:=	6.4	4.2	5.7	5.5	10.4	9.7	9.6	9-4	7.5	6.3	6.9	6.7	5.9	5-H	5-H	5·H	5.3	5.6	6.1	5.4
16-20 .	H-4	11.6	7.6	10.2	6.9	9.2	12.4	16.1	11.4	15.6	8.9	12.2	8.2	11.1	7.5	10-1	7.3	10.5	6-6	10.6	6 9	10.0
20-30 .	100		9.2	12.6	8.3	11-5	15.1	20.2	13.9	19.5	10.9	16.2	9.9	13.8	9.2	12.8	8.9	12 4	5.3	12.5	h 2	10.9
30-40 .	18.3		12.2	13.9	11.0	12.4	20.0	21.9	15.4	21.1	14-8	16.6	13.2	15-1	10.9	10.6	11.5	14.0	10.8	133	10.0	121
40-60	20 7	19.9	13.8	17.6	16.9	15.8	30.7	27.7	28-2	26.8	22.0	20.0	20.3	19-2	16.6	15.7	1#-6	17.9	17-3	17.0	17.8	17:3 31:7
60-60 . 60 and above	. 84·6		31- 3 73-4	29 9 61 6	66-1	26.9 74.0	51-1 119-9	47·1 128·8	46.9 110.2	45·5 122· 2	34- 6 55-U	35- 5 97-1	33. 6 79.1	32- 5 88- 6	82 1 81 1	32-8 91-3	31- 5 77-1	32-5	30.6	81.6	81 1	31.7

TABLE 10
FEMALE DEATHS PER 1,000 MALE DEATHS IN EACH DISTRICT 1941-1950

Tone		•			West Bengaj	Burdwan	Birbhum	Bankura	Midnapur	Hooghly	Howish	24. Parganas	Calcutta	Nadia	Murshl- dabad	Malda	West Dinajpur	Jaipal- guri	Dar- jeeling	Cooch Behar
Avera	e fo	r 194	1-50	•	918-6	984-6	992.0	940-0	948-7	925 ⋅8	904-7	877-2	829-8	958-6	945-6	876-4	899-8	937-2	925-2	
1941		•		•	909-9	907-1	928-5	988-6	944-0	980-5	896-8	925-1	885-1	907-1	864-0	861-6	896-8	961-1	922-0	
1942					908-2	920-4	978-4	961-9	965-2	911-6	892-1	886-9	699-8	928-9	914-8	877-9	921-8	949-1	876-0	
1948		•		•	879-8	910-8	964-8	928-6	854-9	856-6	760-6	775-8	866-8	971-0	964-1	921-1	904-8	928-8	917-9	
1944					921-8	942-5	1,086-2	982.0	941-8	938-8	926-8	866-2	785-2	941-1	974-5	901-2	928-6	980-8	917-2	 .
1945	•.				922-7	950-4	1,028-1	918-8	979-5	983-1	919-8	906-9	757-8	924-7	960-1	966-8	900-8	984-2	928-4	Not avail-
1946	•			•	916-9	911-6	1,012.9	880-2	957-6	906-8	898-8	884-7	784-6	967-7	980-5	903-3	879-1	912-9	968-9	able
1947					925-6	927-2	976-4	966-8	989-6	915-1	981-7	908-8	839-8	961-2	918-9	839-8	899-6	916-9	981-8	
1948	•				041-0	986-8	994-4	954-8	1,000-8	968-0	940-4	916-8	869-8	979-4	941-4	828-7	8441	986-9	960-6	
1940	•				959-6	976-5	1,015-7	965-9	1,017-0	955-0	944-2	920-9	858-6	1,017.0	991-2	904-9	678-8	984-6	961-1	
1950					924-2	925-0	972-0	909-2	904-4	895-1	1,008-8	888-8	908-4	945-0	908-6	827-9	898-2	987-8	900-0	

TABLE 11
NUMBER OF DEATHS ANNUALLY REPORTED FOR EACH SEX BY AGE GROUPS 1941-1950
A—Males

Agé			•	1041	1942	1948	1944	1945	1946	1947	1948	1949	1960	1941-50	Male deaths per 1,000 female deaths, average 1941-50
1		•	•	8	8	4	8	0	7	9	•	10	11	12	18
1 All ages .	•	•	•	201,178	182,818	882,182	800,429	233,276	216,881	201,062	198,401	190,116	185,446	224,078	1,089
g 0-6 .	•		•	58,480	52,999	96,565	87,884	67,818	62,878	55,628	57,179	55,789	54,090	64,869	1,161
0-1 .	•	•	•	87,900	84,848	62,588	56,600	48,949	40,754	88,885	88,575	88,976	80,412	40,748	1,189
. Under 1 month	3	• •	•	20,754	18,809	84,271	80,994	24,066	22,817	16,797	18,144	18,468	14,954	21,957	1,281
1 to 6 months		•	•	12,007	10,881	19,826	17,981	18,928	12,909	11,184	10,490	10,781	10,188	18,002	1,121
6 to 12 months)	•	•	5,189	4,658	6,486	7,675	5,960	5,528	5,454	4,941	4,782	5,820	5,789	1,041
1 to 5 years		•	•	20,580	18,651	88,982	80,784	23,864	22,109	22,243	23,608	21,818	28,618	24,121	981
8 5-10 .	•	•	•	18,860	12,561	22,867	20,700	16,078	14,900	12,644	12,669	11,441	11,288	14,897	1,031
4 10-15 .		•	•	8,450	7,057	18,952	12,618	9,798	9,108	7,886	7,692	7,140	6,874	9,117	1,269
5 15-20 .	•	•	•	7,846	7,119	12,955	11,717	9,098.	8,480	7,716	7,555	6,846	7,180	8,640	502
6 20-80		•	•	19,071	17,288	81,491	28,481	22,115	20,496	19,051	18,607	17,262	17,198	21,105	771
7 80-40 .	•	•	•	21,505	19,490	85,510	82,116	24,986	23,186	21,164	20,405	19,145	17,710	28,512	1,185
\$ 40—50 ·	•	•	•	21,265	19,270	85,112	81,755	24,657	. , 22,888	22,222	21,248	19,791	19,760	23,796	1,478
9 40-60 .	•		•	19,816	11,658	82,720 1	20,502	22,678	21,290 :	20,514	20,140	11,588	19,881 ~ 1	22,448	1,351
10 60 & above				80,880	27,985	50,990	46,116	1 7 85,808	88,208	84,282	82,912	38,119	81.686	85,689	1.059

e

TABLE 12

NUMBER OF DEATHS ANNUALLY REPORTED FOR EACH SEX BY AGE GROUPS 1941-1950

B—Females

Ago	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50	Female deaths per 1,000 male deaths, average 1941-60
1		8	•	5	6	7	8	9	10	11	12	13
1 All agos	. 183,047	165,578	292,083	276,946	215,288	198,356	186,103	186,877	182,443	171,397	205,811	918
20-6	. 52,863	47,817	84,353	79,982	62,175	67,283	50,978	52,780	51,791	48,920	58,894	908
6-1	. 81,740	28,710	50,647	48,022	87,331	84,894	28,569	28,415	29,463	25,698	84,299	842
Under 1 month	. 16,184	14,639	25,825	24,486	19,035	17,541	13,128	14,007	14,764	11,735	17,135	780
1 to 6 months	. 10,703	9,681	17,078	16,193	12,688	11,594	10,077	9,440	9,836	8,841	11,603	892
6 to 12 months	4,853	4,390	7,744	7,843	5,708	5,259	5,364	4,968	4,863	6,122	6,561	961
1 to 5 years	. 21,123	19,107	33,706	81,960	24,844	22,889	22,409	24,865	22,328	23,222	24,595	1,020
8 6—10 • • • •	. 13,400	12,120	21,380	20,278	15,760	14,514	12,486	12,639	11,393	10,604	14,447	970
4 10-15	. 6,553	5,928	10,457	9,916	7,707	7,103	6,193	6,203	5,980	6,798	7,184	755
6 1520 • • • • •	9,500	8,593	15,160	14,373	11,173	10,299	9,375	9,678	10,018	9,328	10,770	1,246
6 20-30	24,546	22,203	89,168	87,138	28,870	26,610	24,811	24,989	24,256	21,001	27,359	1,296
190-40	• 18,598	16,822	29,676	28,138	21,873	20,145	18,754	18,846	17,884	16,396	20,713	801
8 40-50	• 14,260	12,898	22,753	21,574	16,771	16,459	15,183	14,585	13,853	14,167	16,147	67¥
9 60-60	• 14,332	12,965	22,870	21,665	16,857	15,525	15,743	15,494	15,275	15,363	16,611	740
10 60 & above	. 25,995	26,227	46,266	43,563	34.102	81.413	29 640	** ***	_			

TABLE 13
FEMALE DEATHS PER 1,000 MALE DEATHS ANNUALLY BY RELIGIONS 1941-1950

Annual av	erage											Hindu	Muslim	Christian	Aboriginals	Jains
1941-50		•		•	•	•	•	.•	•	•	•	922.5	896-9	851.6		
1941	•	•		•	•	•	•	•	•	•	• ,	924.3	934.6	892.9		
1942	•	•		•	•	•	•	. •	•	•	•	917-8	897-1	823.4		
1943	•	•		-•	•	•	•	•	•	•		876-1	799-8	813-1		
1944	•	•	•	•	•	•		•	, •	•	•	925.6	896-2	850·3	•	
1945		•		•	•	•	•	•	•	•	•	928.4	924.0	871-9	Not availa	ble
1946		•		•	•	•	•	•	•	•	•	912.0	931-2	928-8	•	
1947	•	•	•		•	•	•	•	•	•	•	929.8	906-8	898-1		
1948	•		•	•	•	•	•	•	. •		•	942.7	910-2	856-9		
1949	•	•	•	•	• :	•	•	•	•	•	•	959.3	970.4	835 ·3	•	
1950	•	•	•	•	•	•	•	•	•	•	•	936-3	869-2	911-9		

TABLE 14

MONTHLY AVERAGE NUMBER OF FEMALE DEATHS PER 1,000 MALE DEATHS,
ALL RELIGIONS, HINDU AND MUSLIM 1941-1950

Average of	each 1	month	(194	1-50)								All religions	Hindu	Muslim
January	•	•			•	,	•	•	.•	•	•	918-0	933.0	910-4
February	•	•	•	•	•		•	•	•	•	•	892-4	908-3	900-7
March .		•			•	•	•	•	•		•	877-6	906-0	856.0
April .	•	•		•	•	•	•			•		888.7	898-1	848-3
May .	•	•	•		•	•		•	•	•	• ,	886 -6	906-6	857-1
June .	•	•	•	•	•,			•	•	•	•	875-4	894-6	841.5
July .		•		•	•			•	·•	•		887-4	896-2	876-2
August	•	•	•	•	•			•			•	896-1	904-9	869-3
September	•	•	•	•		•	•		•	•	•	901-1	. 904•7	889-2
October	•	•	•	•	•	•		•	•	•	•	934-2	941-3	924-8
November	•		•	•		•		•		•	•	970-1	970-4	979 -9
December	•	•	•	•	•	•		•			•	957 -6	964-1	920-1

TABLE 15.1
ANNUAL DEATHS FROM "CHOLERA" BY SEX 1941-50

			Average f	or 1941-50	194	L	1	1942	19	43	19	944	19	45
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			9,034	8,855	8,178	7,435	5,870	5,557	24,862	29,368	10,207	9,921	4,533	• • • • •
Burdwan .			767	810	444	424	946	951	2.607	2,751	759	847	167	3,750
Hirbham .			4.23	426	627	581	299	259	1.993	2.053	496	552	39	49
Hankura .			4.20	469	322	312	452	441	2,235	2,426	312	344	69	202
Midnayur.			1,071	1,129	630	568	784	852	5,201	5,464	1,110	1,132	221	261
Hongaly .			874	391	269	271	343	328	914	1.014	401	394	2-3	252
Howrah .			1,056	1,091	1,021	871	777	692	2,264	2.372	1.458	1.518	1,221	1,102
24-Parganas			2,2=9	1,1*5	2,825	2,750	953	860	6.617	6,116	3,603	3,460	VIII)	717
Calcutta .			1,070	739	1,011	726	330	153	1,143	835	1,050	587	1,223	557
Nadia .			458	495	90	68	243	224	1,503	1.695	211	244	126	138
Murshidabad			564	- 617	670	661	563	629	2,495	2,802	313	360	ั้งเ	200
Maida .			199	215	92	71	52	48	415	475	147	306	115	24 84
West Dinajpur			156	142	35	24	29	45	532	460	109	ะเ	28	24
Jaipaiguri			136	129	102	67	72	53	865	830	64	63	23	22
Darjecling			21	13			27	22	78	45	24	17	16	10
Couch Beliat			-	_	_		_	_	-	_	==	==		- 10
			Male	1946 Female	Male	1947	remale.	Male 194	Female		1949	.	193	
			A MIC	E CITIE10	m 214		emare	Wite	r emale	Male	Fen	nale	Male	Female
West Bengal			4,896	4,878	5,270	5	.229	6,975	6,815	6,792	7.03	7.4	8,751	8,492
Burdwan .			236	210	381		436	651	710	540		io	873	929
Birbhum .			70	15	340		342	163	151	73		13	123	124
Hankura .			94	126	225		307	150	166	132	15		204	216
Midnapur.	•		199	256	518		562	583	652	901	94	16	547	257
Hooghly .			273	290	323		377	431	438	244	26	18	243	771
Howrah .			669	699	967		,076	1,050	1,022	635	71		854	1.826
24-Parganas			8×2	917	928		977	1,592	1,640	2,661	2,50	63	1.854	2,247
Calcutta .			498	243	975		560	1,464	1,014	761	72	21	1.959	799
Nadia .			625	677	240		275	383	465	362	41	12	724	263
Murshidabad			600	648	166		150	261	346	215	25	55	238	284
Maida .			536	542	25		27	170	152	15€	15		277	403
West Dinajpur			177	175	145		110	29	24	70		33	404	117
Jaipaiguri		•	22	11	24		27	36	35	34	4	16	109	21
Darjeeling			15	9	13		3	10	• •	6		4	14	
Cooch Behar			_	_	_		_			_	-	-		

TABLE 15.2

ANNUAL DEATHS FROM "FEVER" BY SEX 1941-50

Fever includes Malaria, Kala-azar, Blackwater fever, Measles, Relapsing fever, Cerebrospinal fever, Influenza, Enteric group of fevers, Typhus, and 'Other fevers', for some of which figures are given separately elsewhere but are included in the totals of this table.

			Avera 1941	sge for	1	941	19	42	1	943		1944	1	945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			120,149	111,381	99,810	95,607	93,187	89,655	172,652	155,338	175,291	168,430	124,829	121,554
Burdwan .			11,322	11,341	10,700	10.509	10,096	10,087	15,373	14,625	17,106	16,859	11,079	11,417
Birbhum .			11,099	11,402	7,819	7.673	8,040	8,183	15,193	14,933	16,963	17,961	11,852	12,606
Bankura .			8,278	8.3×6	7,975	8.053	7,234	7,701	12,450	11,808	10,322	10,711	7,677	7,532
Midnapur.			18,277	18.452	15,732	15,660	13,449	13,608	32,891	28,740	25,728	25,366	16,751	17,843
Hooghly .			4.702	4.794	4,483	4.679	4,478	4,448	6.196	5.762	6.592	6,630	4,910	5,317
Howrah .			3,309	3,057	2.000	1,940	1,899	1.607	5,204	3.822	5,496	5,177	3,476	3,454
24-Paryanas			13,338	11,966	11,951	11.623	11,352	10,599	22,409	17,083	22,105	19,290	13,474	12,583
Calcutta .			3,035	2,289	1.872	1,290	1,947	1,219	3,514	2,660	4,461	2,992	3,548	2,251
Nadia .			8.608	8,456	8,431	8.012	8,028	7,795	13,808	13,662	12,757	12,385	9,701	9,272
Murchidabad			15,081	14,495	11,302	10,001	12,136	11,230	25,681	24,781	24.278	24,116	18,152	17.595
Malda .			5,937	5.147	4,425	3,820	2,703	1.763	4,761	4,364	11,549	10,361	8.643	7,477
West Dinajpur		i	4,491	4,096	4.483	3.981	3,227	3,478	4,419	3,930	6,098	5,664	5,133	4,651
1 - la stauet			6,451	4,998	5,781	5.497	5,583	5,419	7.582	6,296	8,162	7,719	6,997	6.503
Darjeeling			2,819	2,508	8,216	2,869	8,015	2,518	3,171	2,872	8,679	3,199	3,436	8,078
Couch Behar	•	•			_				' -		_	· · ·	_	

		1	946	19	47	19	48	19	19	19	50
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal		113,955	109,875	103,137	101.379	96,774	96,139	92,091	94,099	84,869	81,722
Hardwan .		10,044	9,871	11,018	10,929	9,943	10,644	9,377	10,035	H,447	H, 4.349
Birtham .		12.4-5	13.027	10.541	10,807	8,817	9.038	9.613	10,095	9,640	9,695
Hanturs .		7,030	6.793	8,250	8,498	7,730	8,143	7.223	7,705	6,444	6,911
Midnerar		15,443	15,964	16.574	17.532	16.674	17,766	15,712	17.314	14,1+2	14,742
Hooghly .		4.323	4,345	4,508	4,579	4.146	4,470	3,909	4,171	3,470	3,537
Howrah .		3.4.5	3,125	3,151	3,157	3.259	3,297	3,105	3.196	2,072	1,441
24-Parganas		12,346	11,206	10,708	9,837	10,962	10,408	9,545	9,245	8,464	7,762
Calcutta .		3,141	2.246	3.021	2,673	3,324	2.038	2.793	2,220	2,725	2,369
Autio .		6,346	9,340	7,143	7,056	6.144	6.144	6,393	6.641	5,262	5.146
Murchidahad		16,014	13,476	13,101	12,103	10,610	10,251	10,425	10,579	9,113	8,414
Mails .		7,645	6,454	4.9-3	4.165	4,952	4.05%	4,881	4,499	4,832	4,101
IPQ[ankl tow W		5.152	4,579	4,5(4)	4,063	4,192	3,531	3,735	8,513	3,966	3,569
Jalpaisuri		5,A42	5,252	4,099	3,739	3,476	8,144	3,325	8,05	8,644	8,274
Derpering		2.578	2,303	2,462	2,212	2,452	2,272	2,014	1,564	2,165	1,501
Cooch behalf		_				_	-	_		·	-

TABLE 15.3

ANNUAL DEATHS FROM "SMALL-POX" BY SEX 1941-50

			Averag 1941	e for 1-50	. 19	41	_1	1942	1	943	19	44	_ 16	45
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal	_		4,252	4,267	4.875	4,411	513	510	1,187	1,074	9,534	9,664	11,908	12,066
Burdwan .			278	803	354	350	122	124	16	15	132	139	852	971
Birbhum .			104	103	56	72	82	71	27	34	122	128	399	420
Bankura .			151	139	43	48	5	7	_8	**	69	60	1,104	1,003
Midnapur.			162	156	95	69	4	.2	51	40	880	349	553	592
Hooghly .			267	285	248	245	13	13	22	25	458	509	1,137	1,267
Howrah .			714	735	541	504	93	103	124 144	124	2,502	2,690	2,076	2,134
24-Parganas			567	558	862	871	115	119 40	710	152 602	1,367	1,897	2,138	2,051
Calcutta .		•	1,561	1,535	2,486	2,059	61	40 S	40	89	8,751	8,675	2,116	2,064
Nadia .			108	114	80	66	2 5	15	13	13	275 108	270 97	138	162
Murshidabad		•	192	194	57	71 48	7	7.	3	13	108 54	50	1,035	1,061
Malda .	•	•	57	57	44	40	. 2	Š.	13	12	235	252	216 67	234
West Dinajpur		•	69	- 72	7	-	2	_	15	16	66	252 84	48	75
Jaipaiguri	٠	•	15	8 7	•2	••	_	š	16	1	15	10	\$4 34	13
Darjeeling	٠	•	18	1		·-· ·		-		<u> </u>	10	10	31	19
Cooch Behar	•	•		_	_							_	_	_
			1	946		1947		19	48		1949		19	50
		•	Male	Female	Male	Fe	male	Male	Female	Male	Fer	nale	Male	Female
West Bengal		_	2,450	2,521	1,53	6 1,	.590	3,961	3,948	634		810	5,918	6,277
Burdwan .	:	:	655	769	12	9 '	130	143	183	40		87	286	315
Birbhum .	:		213	186	2		23	46	42	4	•		63	51
Bankura .			105	83	1		11	63	77	5		8	105	96
Midnapur.		•	20	17	3		31	132	106	46		40	811	317
Hooghly .			117	96	4		28	125	140	81		23	476	502
Howrah .			220	231	11		83	524	493	.86		70	859	922
24-Parganas		·	168	178	.3		40	324	284	103		93	410	897
Calcutta .		•	59	65	93	ř 1	,041	2,438	2,457	287		91	2,766	. 8, 060
Nadia .	•	•	218	222	3		31	43 28	57 29	17		88	248	260
Murshidabad	٠	•	441	429		7	31	28 74	63	10		11	202	184
Malda .		•	52	65	12		123	15	17	2		8	101	91
West Dinajpur	•	•	175	177		3	2	10		••		• •	50	50
Jalpaiguri	٠	•	4 8	2 1		.9	9	2	••	ŝ		•;	. 8	.8
Darjeeling Cooch Behar	٠	•				. y —	-	_	<u></u>	•		6	88	24
			_	_	_	_			_					

TABLE 15.4

ANNUAL DEATHS FROM "DYSENTERY, DIARRHŒA AND ENTERIC GROUP OF FEVERS" BY SEX 1941-50

				age for 11-50	19	41	1	942	19	43	1	; 94 4	1	945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			4.755	13,956	13.279	12.042	12,305	10,929	20,340	20,727	18,933	17.107	12,668	11.000
Burdwan .			976	888	1,208	1,098	970	900	1,262	1,123	1,067	962	830	11,795
Birbbum .			293	255	467	440	507	447	565	496	375	820	172	721
Bankura .		-	714	683	1.068	983	789	785	1.163	948	905	924	541	. 131
Midnapar.	:		2.113	2,879	2.056	1.821	1.768	1.649	1,582	5,341	3,253	2.889		. 531
Hooghly			1.438	1.458	1,234	1,307	1,315	1,331	2,093	1,773	1,752		1,580	. 1,526
Howrah .		·	2,111	2,075	1,685	1,685	1,683	1,643	3,378	2,676		1,816	1,300	1,356
24-Parganas	•	·	2,209	1,937	2,060	1,859	1,932	1,699	4,573	3,581	3,270	3,278	2,088	2,122
Calcutta .	•	•	2,898	2,587	2,196	1,781	1,955	1,391	3,930	3,307	3,145	2,704	1,725	1,571
Nadia .	•	•	303	260	165	128	239	146	260	3,307 215	3,312	2,696	2,401	2,008
Murshidabad	•	•	373	840	219	185	834	320	345	215 289	321	217	254	230 .
Maida .	•	•	128	95	66	48	53	41	75		261	- 246	411	874
West Dinaipur	•	•	174	137	91	73	115	93	143	64	126	90	183	115
Jalpaiguri	•	•	592	610	349	286	213	167		107	136	86	128	104
	•	•	433	858	460	398	432	317	420	363	515	478	563	539
Darjeeling Cooch Behar	•	•	433	355	400	390	104	911	551	424	495	401	497	467
				1946		1947		1	948		1949		1:	950
			Male	Female) M	ale F	emale	Male	Female	Male	Fem	هاه	Male	Female
West Bengal			13.333	12,318	13.6	99 1	3,161	14,399	14.040	14,071	13,4	105	44.504	
Burdwan .			716	611		20	745	912	895	935			14,524	14,011
Birbhum .			128	142	9	20	166	164	150	147		66	1,049	965
Bankura .			459	421		28	606	57 7	605	545		11	187	148
Midnapur.		-	1.587	1.453	2,9		2,215	2.460	2.398	2,497		13	566	518
Hooghly .		- :	1,222	1.312	1.5	10	1.501	1.404	1,575			322	2,074	1,874
Rowrah .	-	-	1,989	2.016	2.1		2,234	1.899	1,984	1,406		88 6	1,142	1,168
24-Parganas		- 1	1.673	1,590	1,5	37	1,411	1,768		1,566	1,5		1,443	1,537
Caloutta	•	•	2,747	2,471	2,8	0.6	2,679	3,174	1,647	1,840			1,850	1,731
Nadia .	•	•	334	270		42	248	378	2,964	2,979	2,9		3,481	8,631
Murshidabad	•	•	587	637		17	278	399	859	407		48	433	443
Malda .	•	•	342	288		87	62	399 97	873	329		67	516	430
West Dinajpu		•	154	107		39 •	222		77	128		80	125	87
Jalpaiguri		•	1.008	657		98	222 518	147	_83	237		89	852	304
Dariceling	•	•						617	579	715	6	79	920	818
Cooch Behar	•	•	367	343		82	276	403	351	840		26	386	337

TABLE 15.5

ANNUAL DEATHS FROM "PLAGUE" BY SEX 1941-50

				are for 11-50	19)41	19	42	19	43	194	4	16	245
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Feman
West Bengal			7	2	1	1				••	2	1		1
Burdwan .				• •		••	• •	• •	• •	••			• •	:: 1
hirtinum .				• •	• •	••	• •	• •		• •			• • • • • • • • • • • • • • • • • • • •	•••
Bankura .			• •	• •		• •	• •	• •		• •	• •			
Midnapur .		•	• •	• •		• •	• •	• •	• •	••	• •			
Hooghly .			• •	••	• •	• •	• •	• •	••		• •			• • •
Howsen .	٠		••	••		• •	• •	••	• •	• •	• •			
24-Parzanas	•	•	• •	• •	• •	• •	• •	••	• •	• •	• •			
Calcutta .		•	7	2	1	1	• •	• •	• •	••	2	1		
Nadia .				• •	••	••	••	••	••	••	• •			
Murchidabad	•			••	••	••	••	• •		••			• •	• • •
Maida .			••	••	• •	••	••	••	••	• •				• • • • • • • • • • • • • • • • • • • •
West Dinajpur	•		••	••		• •	• •	• •	• •	••	••			• • • • • • • • • • • • • • • • • • • •
Jalpaiguri				• •	• •	••		• •	• •		• -			• • • • • • • • • • • • • • • • • • • •
Dargeeiing			••	• •	• •	••	• •	••		• •			• • •	
Conn h Bicliat			_		_	-	_	_		_	_	_		
				246		1947	_	194			V49	, ,	195	
			Male	Female	Mal	le Fem	ale	Male	Female	Male	Female	·)	iale	Female
West Bengal			3	••	6	1	l	14	4	45	12		3	
Burdwan .		•	• •	• •	• •				• •	1				• •
Burbhama.			• •	• •	• •		•	• •	••	• •				••
Hankura .	•	•	• •	• •			•	••	• •	• •				
Madnapuf.	•	•	••	••		•	•	1	• •	• •			• •	
Howeship .	•		• •	• •	• •		•	••	1	• •				
Howrah .	•	•	••	••	••		•	••	••	4	2			• •
24-Parganas	•	•	•:	• •	• • • • • • • • • • • • • • • • • • • •			::	•:	••	••			
(micutta .	•	•	3	• •	6		1	13	2	40	10		3	
Nadla	•		••	••			•	••	••	• •				
Murchidabad	•		• •	• •	• •	•	•	••	• • •	••			• •	
Malda .		•	• •	• •	• •		•		1	••	• •			
					• •						• •			• •
West Dimajpur	•	•	• •	••	• • •	•	•	• •		• • •			• •	••
Jaipaiguri	:	:	::	::	::	:		::	::	::			••	•••
		:					:							

TABLE 15.6

ANNUAL DEATHS FROM "RESPIRATORY DISEASES OTHER THAN T. B. OF LUNGS" BY SEX 1941-50

				age for 41-50	194	1	;	1942	11	043	19	44	1	945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal .			19,115	12,523	21,003	13.342	18,361	14,486	21,514	13,626	22,394	14,658	20,552	13,337
Burdwan .			1,423	813	2,025	1,218	1.513	847	1,443	807	1,458	940	1,315	707
Birbhum			397	248	721	463	569	409	545	853	400	260	364	213
Nankura .			958	554	1.181	705	1.000	608	1.027	641	1.023	659	1,044	5∋6
Midnapur			2.536	1.441	3,049	1.673	2.413	1.388	2,732	1.569	2,807	1.607	2,783	1,499
Hooghly .			1.748	1.023	1.969	1.176	1.874	1.084	2.062	1,213	2,256	1,374	1.942	1,146
Howrah			1.808	1.163	1.872	1.260	1.423	982	2.143	1,203	2,401	1.525	1.869	1.100
24-Parganas		-	2,156	1,439	2,738	1,505	2,471	4.327	2,830	1,385	2.823	1,530	2,317	1,271
Calcutta		-	3,706	2,578	3,558	2,395	2,717	1,777	4,037	2,794	4,370	2,933	8.949	2,489
Nadia		·	374	213	339	266	483	215	466	316	354	219	473	326
Mursbidabad		· ·	343	271	215	120	319	236	435	349	462	3×1	449	783
Mairia .		•	190	113	112	96	161	134	255	196	194	156	136	H1
West Dinapper			898	640	647	551	749	671	836	659	801	672	941	7×3
Jaipaiguri		•	2,200	1.629	2.131	1.520	2.111	1.413	2,496	1.736	2,633	2,011	2,537	1,876
Dericcing	•	:	388	358	446	394	450	395	407	405	412	391	433	383
Cooch behat	:	•	-	-		_				=			_	-
		•	•			2042		194	۰		1949		1950	
			119	116		1947	_	177				_	1930	
			Male	Female	Male	Fer	male	Male	Female	Male	Fema	le	Male	Female
West Bengal .			19.861	12,065	18.249	2 11.	856	17,235	11,211	16,465	10,49	8	15,619	10,148
Burdwan .			1,344	750	1,43		844	1,206	646	1,194	69	10	1,289	6+1
Birbhum			857	225	27		136	273	155	246	14	17	201	115
Bankura .			974	498	9		605	h61	471	761	41	17	664	3 = 3
Midnapuf .			2.795	1.5(0)	2,500		553	2.310	1,345	2,121	1.2.	:7	1.845	1.631
Hespity .			1.719	871	1.64		937	1,426	H7H	1,354	7.	v	1.227	720
H wrah .			1.751	1.100	1,79		159	1.6.3	1,139	1,550	1.00	:3	1.622	1.103
24-l'argauss			2.124	1.034	1.599		914	1.605	907	1,640	H	(4)	1.410	676
tal sitta .		-	3,524	2,519	3,500		560	3.645	2,742	3.377	2.4	13	3,719	2.744
Ned a .			414	211	329		176	329	138	276	11	Ħ	244	142
Murshidabad			426	214	311		152	243	115	241	11	H)	271	154
Maida .		-	190	106	13.		54	244	126	2.19	14	6	2 13	74
West Dinappur			1.197	835	99		641	(rd 3	642	943	67	**	MHB	670
Jakaiguri			2 345	1,446	2,110		464	2.032	1,527	1,999	1,50	4	1,583	1,2=0
Darpering	-	-	349	312	30		314	365	360	164	31		317	315
Couch Behar	•	·	_	-	-			-		-	-		_	_

TABLE 15.7

ANNUAL DEATHS FROM "SUICIDE" BY SEX, 1941-50

		Averag 194	ze for 1-50	19	41	19	42	19	43	19	44	19	45
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal Burdwan Birbhum Bankura Midnapur Hooghly Howrah 24-Parganas Calcutta Nadia Murshidabad Madda West Dinapur Jalpalguri		552 41 23 35 46 58 69 136 43 24 42 15	539 41 20 32 44 67 62 140 29 26 43 14	489 47 21 38 49 63 47 122 12 10 31 11	531 54 31 38 42 76 54 162 7 6 25 8	484 39 28 37 35 55 46 122 19 15 40 9	528 50 33 39 37 73 46 171 9 9 37 7 6	643 40 24 43 51 76 122 165 8 13 42 18	543 31 14 24 52 79 95 159 4 45 17	560 45 29 36 46 47 95 105 88 18 48 15 8	475 82 12 82 45 63 48 123 25 14 12 6	552 53 18 25 43 44 74 101 57 23 57 14	540 43 12 40 43 60 65 145 82 20 51
Darjeeling Cooch Behar	:	18		15		12	5	18		19	12	20	

			1	1946	19	947	1	948	1	949	:	966
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			578	598	507	490	557	559	592	595	555	534
Burdwan .		•	40	43 ·	38	30	35	37	48	51	25	48
Birbhum .			16	23	26	24	21	20	28	20	. 20	- 14
Bankura .		•	39	31	34	27	27	25	87	42	84	22
Midnapur,			35	49	45	38	50	52	59	49	42	82
Hooghly			48	67	67	54	72	65	59	72	61	68
Howrah .			70	85	57	54	55	55	48	44	74	77
24-Parganas			111	133	78	110	92	121	107	175	111	108
Calcutta .		•	49	22	45	43	65	51	69	46	68	52
Nadia			38	37	32	24	20	45	38	54	88	47
Murshidabad			38	5 6 .	38	50	58	44	80	42	88	47
Maida .			20	15	15	8	19	17	16	26	18	īġ
West Dinajpur			10	14	11	12	11 .	10	17	10	18	
Jalpaiguri			45	19	7	7	13	7	12	-6	10	6
Darjeeling			19	4	14	ģ	19	10	29	16	18	ž
Cooch Behar		- :	••	••								•
	-	•	• • •	3.	• •		••	••		••	••	• •

TABLE 15.8

ANNUAL DEATHS FROM "CHILD BIRTH", 1941-50

			Average for 1941-50	1941	1942	1943	1944	1945
West Bengal			3 ,39 1	3,755	8,335	2,934	2,875	3,237
Burdwan .			292	350	321	259	200	246
Birbhum .			157	195	220	162	112	142
Bankura .			170	239	210	178	117 .	140
Midnapur			565	685	557	509	435	534
Hooghly .			228	290	279	230	215	183
Howrah .			137	192	122	148	193	154
24-Parganas			379	518	416	832	318	892
Calcutta .			191	51	29	26	208	203
Nadia .			128	68	45	81	105	136
Murshidabad			160	. 98	146	115	152	189
Malda .			110	111	107	89	125	117
West Dinajpur	٠.	•	226	193	189	212	204	236
Jalpaiguri			537	638	554	480	389	444
Darjeeling			112	121	140	118	102	121
Cooch Behar		•	••	••	•••	••	••	***
			1946	1947		1948	1949	1950
West Bengal			3,781	3,081	•	3, 937	4,113	2,865
Burdwan .		•	812	291		839	366	289
Birbhum .		•	157	121		179	187	93
Bankura .		•	185	169		159	181	122
Midnapur .		•	593	5 3 6		671	620	- 507
Hooghly			218	203		265	238	162
HOWTER .		•	160	97		129	112	66
24-Parganas		•	878	304		415	439	282
Calcutta .		•	239	170		840	840	800
Nadia .		•	175 .	123		218	216	118.
Murshidabad		•	198	140		229	185	149
Malda		•	131	98		110	138	77
West Dinajpur		•	263	246		232	294	188
Jalpaiguri		•	679	473		547	661	500
Darreeling	•	•	103	110		104 .	186	67
Couch Behar	•	•	••	••		••	••	••
1 CENS	SUS							

TABLE 15.9

ANNUAL DEATHS FROM "MALARIA" BY SEX, 1941-50

			Average 1941-		194	1	194	12	194	3	1944	· !	1945	•
			Male	Temale.	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Proced			51.923	50,747	42,958	42,547	43,122	41,956	87,723	80,869	84,098	82,799	62,449	61,383
			5,570	6.033	6,441	6,712	6,012	6,297	10,304	10,006	12,014	11,974	6,548	6,933
Burbham .			6,713	6.971	3,823	3,879	3.526	3.910	10,539	10,740	12,843	13,706	8,917	9,383
Bankure .			2.379	3,025	2,550	3,033	2,570	2,993	5,650	5,963	3,972	4,310	2,375	2,479
Michagow .			8,146	8,384	6,967	7,469	6,409	6,801	20,128	18,089	13,085	13,207	7,742	8,331
Home if .		•	2,57\$	2,655	2,750	2,853	2,723	2,790	3,931	3,714	4,100	4,101	2,572	2,815
Howrsh .			1,2,2	1,196	332	318	408	346	1,857	1,332	2,182	2,058	1,462	1,411
24-Pergatos			3,944	3,607	2,727	2,824	3,060	3,063	7,632	6,237	7,303	6,727	4,006	3,987
Calrutta .		•	¥5 3	669	320	226	760	433	1,408	1,004	2,204	1,502	1,132	723
Nadia .		•	8,947	3,687	2,431	2,135	3,514	3,423	3,842	3,145	2,567	2,068	4,314	3,142
Marchidebad			8,094	7,801	7,451	6,933	6,434	6,201	12,983	11,736	14,593	14,514	14,123	13,724
Maida .			2,563	2,223	1,945	1,723	2,153	1,018	3,416	3,342	3,225	3,145	2,914	2,565
West [Hma PEF			1,5%	1,477	1.349	1,256	1,850	1,634	2,017	1,995	1,963	1,824	2,045	1,918
Jaipaizuri			2,102	1,075	2,143	2,054	1,956	1,873	2,345	2,141	2,148	2,055	2,689	2,644
Derjeeling			1,261	1,040	1,390	1,102	1,417	1,144	1,671	1,425	1,899	1,608	1,610	1,320
Cooch Behar	•	•	••	••	••	••	••	••	••	••	••	• •	••	•• ,
				1946		1947		16	48		1949		196	50
							 -					 -		
			Male	Female	Mal	le F	em ale	Male	Female	Male	Fe	male	Male	Female
West Bengal			52,053	50,286	41.4	178	1.061	38,247	38,329	37,866	39.	540	29,234	28,698
Burdwan	-		8,703	3,818	3.6	394	3,758	3,774	4.138	3,613	4.	086	2,552	2,604
Birthum .			7,572	7,846		380	5,904	4,151	4,207	5,217	5,	611	4,359	4.493
Benkura .			1,947	1,123		578	2,782	2,376	2,597	2,519		781	2,049	2.187
Midnardf .		•	6,071	6,586	5,9	992	6,532	6,026	6,598	5,162		907	3,879	4,320
Honghly .			1,977	2,041	2,:	237	2,218	2,111	2,356	2,014		206	1,316	1,424
Howrah .			1,524	1,347		316	1,305	1,471	1,517	1,528		595	836	729
24-Parganes			8,634	8,455	2,	565	2,400	2,924	2,717	2,809	2,	678	2,184	1,981
Caiculta .			825	597		792	608	792	658	726	-	479	568	461
hadia .			6,757	6,632		36 5	4,629	4,311	4,240	4,252		350	3,212	3.105
Murchidabed			7,753	7,683		334	5,131	4,286	4,186	4,606		804	3,280	3,099
Maida .		•	3,499	8,164		002	1,710	2,000	1,583	2,262	2,	205	2,184	1,820
West Dinajpur	•		2.498	2,334		406	1,332	1,306	1,157	768		691	674	625
Jaipaiguri		•	2,597	2,658		934	1,868	1,841	1,690	1,687		547	1,375	1,224
Darjeeling		•	1,196	1,002	1,6)83	884	878	685	703		600	766	626
Couch Behar	•	•		•••			••	••	••	••		••	••	•••

TABLE 15.10

ANNUAL DEATHS FROM "KALA-AZAR" BY SEX, 1941-50

			Averag 1941	e for		1941	1	942	1	948	1	944	1	945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			1,383	958	1,030	707	947	647	1,195	780	1,185	783	1,503	984
Burdwas .			86	61	47	80	37	33	50	24	89	25	46	30
birbbum .			8	7	8	5	8	9	8	4	3	-2	Š	ŭ
Hankura .			á	8	5	8	3	4	ă	8	5	8	2	5
Midnapur .			22	10	18	š	5	Ā	13	Š	13	š	12	7
Hooghly .			121	86	92	55	69	48	ĩŏ	ā	88	51	117	63
Howreh .			29	20	16	20	.7	- 4	47	41	28	17	27	12
14-Parganas			124	80	151	79	115	83	128	78	118	78	117	75
Calcutta .	-		155	108	95	48	65	31	96	65	149	90	176	95
Nadia .		•	69	50	72	62	53	81	75	54	62	46	83	63
Mursidabad	-	•	174	119	131	93	148	115	156	105	189	112	294	211
Malda .	-	•	88	67	71	63	64	41	93	74	69	43	92	63
West Dinajpu	• .	•	848	237	192	151	214	136	806	184	245	165	863	204
Jalpaiguri	•	•	67	51	88	27	45	29	61	36	51	89	70	
Darpeeling	•	•	99	68	99	58	133	79	149	91	181	107	99	68
Cooch Bener	•	•												90
COOKS 24244	•	•	••	••	••	••	••	••	••	••	••	••	••	••

				1946		1947		1948		1949	1	1950
			Male	Pemale	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			1,826	1,258	1,849	1,229	1,697	1,194	1.470	1,125	1,127	0.00
Burdwan .		-	92	81	127	88	151	118	159	7,720	109	877
Burchum .		-		•	10	0	17	16	17	15	109	85
Mankura .		Ĭ	i	•	14	٩	1,	10	- 12	10	11	9
Midnaper .	-		18				20		49		.0	2
Houghly	•	•	140		23	0	28		.44	. 84	48	24
Harren .	•	•		87	163	145	178	132	208	- 144	150	125
	•	•	21	12	85	22	27	11	55	87	27	20
24-Pargame	•	•	105	56	127	66	143	83	. 140	111	98	90
('airetta .	•	•	216	119	191	127	244	221	176	166	142	121
Naulia .	•		114	65	88	69	63	84	42	88	89	
Marabidabed			270	218	190	141	150	82	100	69	87	36
Maida .		-	112	85	105	57	93	48	71	52		63
West IHzajper			501	387	570						58	40
Inspecial	•	•				\$58	444	808	823	269	272	210
	•	•	100	68	123	. 83	84	68	68	58	82	34
lier)-ecing	•	•	108	78	91	63	78	62	62	80	58	25
Cours bets	•	•	••	••	••	••	••	•••	•••	•••		23

TABLE 15.11

ANNUAL DEATHS FROM "TUBERCULOSIS OF THE LUNGS" BY SEX, 1941-50

			Avera 194	ge for L-50	, 19	41	. 19	42	19	43	19	44	19	45
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Fem ale
West Bengal Burdwan .	•	:	4,826 411	2,621 108	5,032 457	2,957 131	4,378 430	2,356 117	4,488 369	2,342 107	4,772 374	2,546 112	4,585 347	2,366 78
Birbhum . Bankura .	•		155 · 301	39 69	235 325	.61 77	173 320	46 79	$\frac{134}{238}$	31 54	134 266	42 76	$\begin{array}{c} 159 \\ 320 \end{array}$	38 57
Midnapuz . Hooghly	٠.		312 397	88 114	384 377	86 128	289 327	77 881	<i>355</i> 355	117	40 6 329	ሚ 108	340 289	ገሏ 117
Howrah 24-Parganas	•	•	469 593	238 250	432 648	272 292	381 597	213 228	467 573	198 192	558 564	261 242	576 582	272 278
Calcutta . Nadia	÷	:	1,396 68	$\substack{1,267\\16}$	1,494 53	$\substack{1,5\overline{16}\\14}$	1,199 42	1,049 16	1,308 56	1,164 20	1,449 62	1,240 18	1,350 65	1,109 11
Murshidabad Malda	:	:	119 25	26	98 15	35 8	102 13	- 28	84 20	11	124, 26	19	152 23	29 9
West Dinajpur	:	:	43	14	39	14	28	17	43	11	47	13	36	16
Jalpaiguri Darjeeling	:	:	269 271	148 243	224 271_	101 222	$\substack{2,114\\263}$	87 264	228 262	118 246	174 259	90 245	120 246	46 232
Cooch Behar	•	•	••	••	••	••	• •	••		• ••	••	••	••	••

			·	1946	ma - 1	1947	1	948		1949	195	50
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal Burdwan	•	:	4,792 445	2,435 110	4,948 448	2,689 99	5,210 458	2,862 113	5,144 398	2,840 105	4,907 385	2,814 107
Birbhum .	:	:	171 .	38	128	29	154	42	150	33	116	33 :
Bankura . Midnapur .	•	:	303 . 385	· 53 65	312 396	54 64	297 425	80 109	299 472	78 91	333 480	$^{86}_{127}$
Hooghly . Howrah .	•		289 430	90 216	264 470	99 243	301 468	106 252	309 473	132 277	331 433	100 175
24-Parganas	:	:	609	264	590	267	615	252	633	239	519	248
Calcutta . Nadia .	:	:	$1,436 \\ 74$	1,173 17	1,496 78	1,348 22	1,494 82	1,402 23	$^{1,413}_{77}$	1,276 15	1,317 87	1,388 7
Murshidabad Malda		•	124 28	22	134 21	33	136 35	28	120 31	29	122 ` 40	2 <u>i</u>
West Dinajpur	:	:	53	16	34	16	41	11	65	16	46	12
Jalpaiguri Darjeeling	•	•	209 236	116 246	287 290	160 248	406 308	195 243	408 29 6	277 264	417 281	292 215
Cooch Behar		٠.	**	••			•••			•••	-0-	-10

TABLE 15.12

ANNUAL DEATHS FROM "SNAKE BITES" BY SEX, 1941-50

		Avera 194	age for		1941	1	1942	1	.943	1	944		1945
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal		873	771	963	796	863	761	748	631	850	767	820	776
Burdwan .		. 94	76	136	79	109	83	73	89	85	79	78	72
Birbhum .		37	38	44	30	52	47	87	42	37	48	31 .	46
Bankura .		58	59	71	75	64	65	57	56	59	57	46	48
Midnapur .		171	130	151	125	148	112	133	88	166	162	163	131
Hooghly .		74	66	101	93	55	73	84	71	57	63	73	63
Howrah .		34	26	37	18	35	28	27	18	38	29	34	22
24-Parganas		179	138	218	186	220	172	151	119	167	134	168	116
Calcutta .		10	3	••	••	4	1			11	3	10	3
Nadia .		49	52	51	36	33	45	49	38	54	43	41	56
Murshidabad		74	89	76	89	61	52	59	43	82	80	89	127
Malda .		39	40	34	33	81	38	26	12	42	27	39	38
West Dinajpur		. 32	39	21	19	29	30	34	39	38	34	28	41
Jalpaiguri *		19	13	18	9	20	13	15	ii	11 -	10	19	
Darjeeling		3	3	5	4	2	2	3	5	3	8	1	Ď
Cooch Behar			••							•	• • •		••

				1946		1947		1948		1949	<u> </u>	1950
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			906	882	913	778	955	762	882	794	830	765
Burdwan .			86	79	85	73	96	67	94	69	93	70
Birbhum .			27	80	30	18	38	38	41	42	37	41
Bankura .		•	60	67	62	61	57	56	50	55	56	53
Midnapur.			158	155	186	115	241	156	195	136	167	124
Hooghly .		•	72	80	82	63	74	42	71	54	70	62
Howrah .			43	30	42	30	28	29	25	31	27	28
24-Parganas			183	162	193	123	168	108	163	133	161	125
Calcutta .			15	3	7	8	15	2	24	7	10	5
Wadia .			61	48	58	81	45	63	54	55	48	52
₩ zrshidabad			98	114	71	104	90	94	54	93	83	90
Walds .			46	65	34	45	45	50	47	45	44	46 .
●et Dinajpur			85	44	39	43	33	43	35	49	30	45
alpaiguri			16	4	21	. 17	22	17	25	24	20	22
Derjeeling			6	ĩ	-3	2.	3	-6	4	-î	- 4	
woch Behar	٠	•	••	••	••	••	••	••	••	•-	• • •	•

TABLE 16.1

DEATH RATE FROM "CHOLERA" PER 1,000 OF EACH SEX CALCULATED ON THE POPULATION OF 1941 FOR 1941-50 AND FOR EACH INDIVIDUAL YEAR BY SEX, 1941-50

			A**	rage for H1-60	;	1941		1942	19	943	1	944	1	945	i
			Male.	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
West Bengal			•6	1-0	•7	-8	٠5	-6	2.5	8.0	-9	1.0	-4	-4	
Berdwan .		•	-8	••	٠5	•5	-9	1-1	2.6	3·1	-8	•9	•2	-2	
Birbhum .		•	-8	-8	1.2	1-1	-6	· <u>5</u>	3.8	8.9	-9	1.1	-1	•1	
Benkure .		•	••	• <u>7</u>	•5	-6	•7	•7	3.4	3.8	•5	٠5	-1	•3	1
Midnapur .		•	•7	•7	•4	-8	٠5	-3	3.2	1.7	•7	••	•1	•1	
Hooghiy .		•	.6	.6	4	·4 1·3	•5 •9	·5 1·1	1·2 2·7	1·6 3·6	.5	.6	- 4	_ <u>•4</u>	
Howrah .	•	•	1.8	1.7	1.8	1.8	·9	·5	3.4	3·0 3·7	1·8 1·8	2·3 2·1	1.5	1-7	
24-Parganne	•	•	1.1	1· 8 1·1	1.4	1.0	-5	•3	3· <u>4</u> •8	3·7 1·3	·7	*.1	•5	•4	
Calcutta .	•	•	·7 1·1	1.2	-2	1.1	·6	·5	3.5	4.2	.5	.6	-8	-9	
Nadia	•	•	1.7	8	-8	-8	•7	-8	8.0	3.4	-4	•4	·3 ·1	-3	
M urebidebed	•	•	:5	-5	-2	·ŝ	-1	•2	1.0	1.7	-8	1.1	.3	•1	
Maida	•	•	.6	.6	-1	·ĭ	-1	•2	1.7	1.7	•4	·ŝ	•1		
West Dinajpul	•	•		-8	-2	-2	.2	٠ĩ	î.9	2.2	·i	.2	•1	:1	
Jaipaiguri	•	•	·i	•1	••		٠ī	·î	1.4	8	•1	·1	•1	•1	
Darjesting	•	•	-	_	••	• • • • • • • • • • • • • • • • • • • •		• • •							
Cough Behal	•	•	••	••	••	••	••	••	••	••	••	••	••	••	
				1946	•	1947		19	48	:	1949		19	50	
			Male	Female	M	ale I	emale.	Male	Female	Male	Fe	male	Male	Female	
West Bengal	_	_	•4	٠.6		-6	٠.5	-6	.7	•6		-7	•8	.9	
Burdwan .	-	- :	-2	•2		•4	•5	•7	-8	•5		•7	٠9	1.0	
Birbhum .	- :		•1	•1		-6	•7	•3	•3	•1	-	·1	•2	2	
Bankurs .			•1	-2		-8	•5	•2	•3	·2 ·6		•2	•3	-8	à
Midnapur .		•	-1	•1		-8	•2	•4	•2			•8	•8	•4	Ť,
Hooghly .	•		•4	•5		•4	•6	•6	•7	•3		•4	•3	•4	3
Howrah		•	-8	1.1	1	· 2	1.6	1.3	1.6	.8		•2	-9	1.3	
24-Parganas	•	•	-4	•6		· <u>5</u>	•6	-8	1.0	1.3		·5	•9	1.1	
Calcutta .	٠		.8	4		•7	-9	1.0	1.5	٠5		·1	1.6	3.0	
Nadia .	•	•	1.4	1.7		.6	•7	•9	1-1	•8		·0	1.8	1.8	
Murshidabad	•	•	7	.8		.2	-2	•3	-4	·8 ·4		•8	•8	.3	
Malda .	•	•	1.8	1.8		·1 ·5	-1	•4	·4 ·1	•2		•4	·7 1·3	1.0	
West Dinajpu	. 1	•	•6	·6 •08		•05	4	•1		·z ·1		·2 ·1		1.5	
Jaipaiguri	•	•	-08				•1 •02	• 1	•1	.03		·1 ·02	-8	.8	
Derjeeling	•	•	•1	. •1		•1		•1	••				•1	-1	
Cooch Behar	٠	•	••	••		••	••	••	••	••		••	••	••	

TABLE 16.2

DEATH RATE FROM "FEVER" PER 1,000 OF EACH SEX CALCULATED ON THE POPULATION OF 1941 FOR 1941-50 AND FOR EACH INDIVIDUAL YEAR BY SEX, 1941-50

	٠			ge for 1-60	19	941	1	942	19	43	1	944	1	945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			10-5	11-5	8.7	9.8	8-1	9-2	15.0	16.0	15.8	17.3	10.9	12.5
Burdwan .			11.8	12.7	10.7	11.8	10· 1	11.3	15.4	16.4	17.1	18.9	11.1	12.8
Hirbhum .		•	21.2	21.8	14-9	14.6	15.3	15.6	29.0	28.5	32.3	84.8	22.6	24.1
Henkure .			12.7	18-1	12-2	12.6	11.1	12.1	19.1	18.5	15.8	16.8	11.8	11.8
Midnapur		- :	11.2	11.8	9.4	10.0	8.2	8.7	20.2	18.4	15.8	16.8	10.8	11.4
Hoognly			6.4	7.5	6-1	7.8	6.1	7.0	8-4	9.0	8-9	10.4	6.6	8.3
Howrah .			4-0	4.7	2.4	8.0	2.3	2.4	6.2	5.8	6.6	7.9	4.2	5.3
14-Parganas			6.6	7.2	5.9	7.0	5.6	6.4	11.1	10.3	11.0	11.7	6.7	7.6
Calcutta .	•	•	2.1	8.2	1.8	2.0	1.8	1.9	2.4	4.1	3.1	4.6	2.4	8.4
Nadia .	:		19-9	20.7	19-5	19.6	18.6	19.1	32.0	33.2	29.5	80.8	22.5	22.7
Murchidabed	•		18-8	17.8	18.7	12.3	14.7	13.8	31.2	80.4	29.4	29.5	22.0	21.6
Makia .	•	•	18.9	12.8	10-4	9.1	6.3	4.2	11.2	10.4	27.1	24.8	20.8	17.9
West Dinalput		•	14.7	14.7	14.7	14.3	10-6	12.5	14.5	14.1	20.0	20.4	16.8	16.7
Jalpaiguri	•	•	11-6	18.0	12.6	14.2	12·1	14·1	16.5	16.3	17.7	20.0	15.2	16.9
Deriveing	•	•	14-1	14-2	16·1	16.8	15-1	14.3	15.9	16.3	18-4	18.1	17.2	17.4
Couch Behar	:	:		•••	•••					•••	***		11.2	41-4
				1946		1947		19	948		1949		, ,	1950
			Male	Zomale	7	ale	Female	Male	Female	Male		male		·
				2 4000	_	eria .	кешате	wate	т сшаје	Male	r e	mate	Male	Femal
West Bengal			9-9	11.8	•	-0	10-4	8.4	9-9	8.0	c	.7	7-4	8-4
Burdwan .			10-1	11.1	11		12.8	10.0	11·9	9.4	11		8.5	9.6
Birthum .	-		23-8	24-9)· Ž	20.6	16.8	17.3	18.3		.8	18-4	18.5
Bankure .	-		10-8	10-7		2.7	13.8	11.9	12.8	11.1		·1	10.6	10.8
Midnapur .			9-5	10.2		j. ż	11.2	10.2	11.4	9.6		i∙i	8.6	9.4
Houghly .			6-9	6.8		ś∙ī	7.2	5.6	7.0	5.3		3-5	4.7	5.5
Howseh .			4-1	4.8		8-8	4.8	3.9	5.0	8.7		1.7	2.5	2.9
14-Parganas		:	6.1	6.8		5-8	5.9	5.4	6.3	4.8		-6	4·2	4.7
Calcutta .		- :	1.1	8.6		2-1	4.1	2.8	4.5	1.9		3.4	1.9	3.6
Sadia .		-	19-4	20-4		6.6	17.4	14.3	15.1	14.9		8·8	12.2	12·7
March Litaball	•	•	12.1				41.4	44.0	19.1	13.4	1.	0.0	17.2	12.7

Maide
Mest Dinajpur
Jaipaiguri
Liarjerling
Cooch Behar

TABLE 16.3

CDEATH RATE FROM "SMALL-POX" PER 1,000 OF EACH SEX CALCULATED ON THE POPULATION OF 1941 FOR 1941-50 AND FOR EACH INDIVIDUAL YEAR BY SEX, 1941-50

		Aver 194	age for	194	1	1	942	19	943	1	914	1	1945
·,		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female.
West Bengal Burdwan Birbhum Bankura Midnapur Hooghly Howrah 24-Parganas Calcutta Nadia Murshidabad Malda West Dinajpur Jalpaiguri Darjeeling Cooch Behar		·4 ·3 ·2 ·2 ·1 ·4 ·9 ·3 ·1 ·1 ·2 ·03 ·1 ·1	·4 ·3 ·2 ·2 ·1 ·4 1·1 ·3 2·3 ·3 ·2 ·1 ·3 ·0 2 ·04 ··	·4 ·1 ·1 ·3 ·6 ·4 1·7 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1	·5 ·4 ·1 ·04 ·4 ·8 ·5 8·1 ·1 ·1 ·03 ··	·04 -1 -2 -01 -002 -02 -1 -04 -005 -01 -02 -01 -004	·1 ·1 ·1 ·01 ·001 ·001 ·02 ·2 ·1 ·1 ·01 ·02 ·02 ·02 ·02 ·02 ·01 ·002 ·02 ·001	·1 ·01 ·1 ·004 ·03 ·03 ·1 ·1 ·1 ·02 ·01 ·04 ·03 ·03 ·05 ·1 ·05 ·1 ·06 ·07 ·08 ·08 ·08 ·09	-1 -02 -1 -03 -04 -2 -1 -9 -1 -02 -003 -04 -01	·8 ·1 ·2 ·1 ·2 ·6 3·0 ·7 2·6 ·1 ·1 ·8 ·1 ·03 ·.	1·0 •2 •1 •2 •1 •8 •7 •1 •9 •1	1.0 .9 .8 1.7 .3 1.5 2.5 1.1 1.5 .3 1.8 .5 .2	1-2 1-1 -8 1-6 -4 2-0 3-2 1-2 3-1 -4 1-3 -6 -3 -1 -1
•		:	1946		1947		19	48		1949		19	50
		Male	Female	Male	Fe	male	Male	Female	Male	Fer	male	Male	Female
West Bengal Burdwan Birbhum Bankura Midnapur Hooghly Howrah 24-Parganas Calcutta Nadia Murshidabad Malda West Dinajpur Jalpaiguri Darjeeling Cooch Behar		·2 ·7 ·4 ·2 ·01 ·2 ·3 ·1 ·04 ·5 ·1 ·04	·3 ·9 ·4 ·1 ·01 ·2 ·4 ·1 ·5 ·5 ·5 ·6 ·01 ·01	-1 -1 -1 -02 -02 -1 -1 -1 -03 -6 -1 -04 -01 -1		·2 ·1 ·04 ·02 ·02 ·04 ·1 ·02 ·1 ·04 ·1 ·04 ·02 ·1 ·04 ·1 ·04 ·1 ·04 ·1 ·1 ·04 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1	·3 ·1 ·1 ·1 ·2 ·6 ·2 1·7 ·1 ·03 ·2 ·05 ·01 ·1	·4 ·2 ·1 ·1 ·2 ·8 ·2 ·8 ·2 ·1 ·0 ·2 ·1 ·0 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1	·1 ·04 ·01 ·01 ·03 ·04 ·1 ·1 ·2 ·04 ·01 ·005 · ·02		04 005 03 04 1 1 1 1 1 01 01	.5 .3 .1 .2 .6 1.0 .2 1.9 .6 .2 .2 .2 .2	6 4 1 2 2 2 8 1 4 7 6 2 2 2 0 2 1

TABLE 16.4

DEATH RATE FROM "PLAGUE" PER 1,000 OF EACH SEX CALCULATED ON THE POPULATION OF 1941 FOR 1941-50 AND FOR EACH INDIVIDUAL YEAR BY SEX, 1941-50

			Average 1941		194	1	1	1942	19	43	19	44	1	1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			-001	-0002	-0001	-0001					.0002	-0001		
Burdwan .	•		• •	••		• •	• •					••	::	• • • • • • • • • • • • • • • • • • • •
Birbhum .	•	•	• •	••	• •	••	• •	• •					•••	•••
Bankura .	•	•	••	••	••	• •	• •	••	• •			••	•••	•••
Midnapur .	•	•	• •	••	••	• •	• •	••	• •		• •	••		••
Hooghly	•	•	• •	••	• •	••	• •	• •	••	••				•
Howrah	•	•	• •	••	• •	••	• •	••	- •	• •			• •	••
24-Parganas Calcutta	•	•	-005	:003	-001	***	••	••	••	••	••	• •	• •	
Nadia .	•	•				-002	••	• •	••	••	-001	•002		
Murshidabad	•	•	••	••	••	••	••	••	••	••	••	• •	• •	• •
Malda .	•	•	••	••	••	••	••	••	••	••	• •	• •		• •
West Dinajpur	•	•	••	••	••	••	••	••	••	••	••	• •	• •	
T 1 1		•	••	••	••	••	••	••	••	••	• •	• •	• •	• •
Darjeeling.	:	•	••	•••	••	••	••	••	••	••	••	••	••	• •
Cooch Behar	:	•	::	••	••	••	••	••	••	••	••	••		. ••
	-	-	•••		••	••	•••	••	••	••	••	••	• •	• •
			,	946		1947	7		948					
				~	_						1949		1	950
			Male	Female	M	ale	Female	Male	Female	Male	Fen	ale	Male	Female
West Bengal			-0003		-00	01	-0001	· 0 01	-0004	.004	-00	17	·0003	
Burdwan .	•	•	• •	••			• •	••	••	.001	•••	•		••
Birbhum .	•	•	• •	••			• •	• •	••	••			••	••
Bankura .	•	•	••	• •	••			••	• •	·			••	••
Midnapur . Hooghly .	•	•	••	••	••		•• ,	·001	••		•••			••
Hoogmy . Howrah .	•	•	• •	••	• •		• •	••	-002				••	•••
24-Parganas	•	•		••	••		• •	• •	••	.005	•00	3	••	. ::
Calcutta .	•	•	.002	••	-00		-002	• • •	**	••				••
Nadia .	•	•		••	-			- 01	•003	•03	-02	:	-902	••
Murshidabad	•	•	••	••	••		••	••	. ••	••	••		••	••
Maida .	:	•	•••	••	••		• •	••	•••	••	••		••	••
West Dinajpur	:	•	::	••	••		••	••	-002	••	••			••
Jalpaiguri .		•	::	••	•••		• •	••	••	••	••		••	• •
Darjeeling .			•	•	• • •		• •	••	• •	• •	• •		• •	••
Cooch Behar				•	• • • • • • • • • • • • • • • • • • • •			••	••	••	••		••	
•							• •	••	••	••	••		••	

TABLE 16.5

DEATH RATE FROM "DYSENTERY, DIARRHŒA AND ENTERIC GROUP OF FEVERS" PER 1,000 OF EACH SEX CALCULATED ON THE POPULATION OF 1941 BY SEX, 1941-50

			A ver	rage for 11-50	10	941		1942	:	1943		1944		1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Rengal			1-8	1-4	1.2	1.2	1-1	1-1	1.8	2.1	1.6	1.8	1.1	1.2
Rurdwan .			1-0	1-0	1-2	1.2	1.0	1.0	1.3	1.3	1.1	1.1	-8	-8
Birtibum .			-6	-6	-9	-8	1.0	-9	1.1	.9	•7	-6	-3	-3
hankurs			1-1	1.1	1.6	1.5	1.8	1.2	1.8	1.5	1.4	1-4	-8	-8
Mainaper .		•	1.8	1.5	1.3	1-2	1.1	1.1	1.0	8.4	2.0	1.9	1.0	1.0
Hooghly			1.9	2-3	1.7	2-0	1.8	2-1	2.8	2.8	2.4	2.8	1.8	2-1
Howrsh .		•	2.5	8-2	2-0	2-6	2.0	2.5	4-1	4-1	3.9	5.0	2.5	3.2
24-Parkanes			1-1	1.2	1-0	1.1	1.0	1.0	2.4	2.2	1.6	1.6	-9	٠9
Cairutta .			2-0	8· 9	1.5	2-6	1.3	2·1	2.7	5-0	2.4	4-1	1.7	3-1
Nadia .		•	•7	-6	-4	-3	-6	-4	-6	-5	•7	-5	•6	-6
Mizrehidabed		•	٠5	-4	18	-2	-4	-4	•4	-4	-8	•3	٠.6	•5
Maida .		•	-8	•2	. •2	-1	•1	·1	•2	-2	-3	-2	•4	•3
Wast Dina pur			-6	-5	-8	-3	•4	-3	•5	.4	•4	-3	-4	-4
Jaipaiguri .	•	•	1.8	1.8	.8	7	.5	. 4	.9	1.0	1.1	1.2	1.2	1.4
Darperling .		•	2.2	2-0	2.8	2.8	2.2	1.8	2.8	2-4	2.5	2.3	2.4	2.6
(outh Benaf		•	••	••	••	••	••	••	••	••	• •	• •	••	••
			1	1946		1947		194	8		1949		1:	950
			Male	Female	Male	Fer	nale	Male	Female	Male	Fema	ale	Male	Female
West Bengal			1.2	1.8	1.2	1	l -4	1.3	1.4	1.2	1.4	4	1.3	1.4
Burdwan .			-7	.7	-8		-8	•9	1.0	1.1	1.1	l	1.1	ī·ī
Birbhum	:		:3	-8	-4		-8	-3	•3	•4	- 1		-4	8
Bankura .	-		-7	•7	-8	1	.∙0	٠9	•9	-9	-{		-9	-8
Mainapur .	-		1.0	.9	1-4		-4	1.5	1.5	1.3	1.9		1.3	1.2
Houghly			1.7	2·1	2.0		·8	1.9	2∙5	1.5	1.8		1.5	1.8
Howrsh			2-4	3⋅1	2.6	8	3-4	2.8	8∙0	1.7	2.8		1.7	2.8
24-Pargapas			-8	1.0	-8		•9	•9	1.0	.9	1.0		•9	1.0
Calcutta			1.9	8-8	1.9	4	-1	2.2	4.5	2.4	, 5-(2.4	5-6
Nadia		•	-8	•7	-6		-8	•9	1.0	1.0	1.1		1.0	1.1
Murshidabad			-7	-8	-4		-8	•5	•5	-6	-1		-6	•5
Makia .			-8	•7	•2		·1	•2	-2	•3	• •	2	∙8	•2
West Dina pur			-6	-4	-8		-8	•5	-8	∙8	• 1		1.1	1.1
Jaipaiguri .			2.2	1.7	1.8		.8	1.8	1.5	1.6	1.6		2.0 -	2.1
Darjeeling .	í		1.9	1.9	1.9	1	l·6	2.0	2.0	1.7	1.4	5	1.9	1.9
Cooch Behar	•	•		••	••		••	••	••	••	•	•	••	••

TABLE 16.6

DEATH RATE FROM "RESPIRATORY DISEASES OTHER THAN T. B. OF THE LUNGS" PER 1,000 OF EACH SEX CALCULATED ON THE POPULATION OF 1941 FOR 1941-50 AND FOR EACH INDIVIDUAL YEAR BY SEX, 1941-50

				age for 11-50	1	941		1942	1	1948	19	44		1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			1.7	1.8	1.8	1.4	1.6	1-5	1.9	1-4	1.9	1.5	1.8	1.4
Burdwan .		•	1.4	•9	2.0	1.4	1.5	•9	1.4	-9	1.5	1.1	1.8	-8
Nirbhum .			-8	•6	1.4	٠9	1.1	-8	1.0	•7	٠8	•5	.7	•4
Bankura .			1.6	•9	1.8	1.1	1.5	1.0	1.6	1.0	1.6	1.0	1.6	.9
Midnapul .			1.6	•9	1.9	1-1	1.5	-9	1.7	1.0	1.7	1.0	1.7	1.0
Houghly			2.4	1.6	2.7	1.8	2.5	1.7	2.8	1.9	8-1	2.2	2.6	1.9
Howrah .			2.2	1.8	2-2	1.9	1.7	1.5	2.6	1.8	2.9	2.3	2.2	1.7
24-Parvanas	:		1.1	-9	1.4	.9	1.2	2.6	1.4	•8	1-4	-9	1.2	-8
Calcutta .	-		2.4	8-9	2.5	8.6	1.9	2.7	2.8	4.3	8.0	4.5	3.4	8.8
hadia .		·	-9	-5	-8	•7	1.1	-5	1.1	-8	-8	٠5	1.1	•5
Mumhidabad	:		-4	•8	٠Š	·i	-4	-8	-5	•4	-6	•5	~.5	1.1
Maida .	-		1-0	-8	-6	٠Ž	-8	-8	1.3	·5	1·0	-4	•7	<u>2</u>
West Dinalpur	•		2.0	2.4	2.1	2.0	2.6	2.4	2.7	2.4	2.6	2.4	8·i	2.8
Jalpaiguri .	-	- :	4.8	4.2	4.6	8.9	4.6	8.7	5.4	4.5	5.7	5.2	5.5	4.9
Despering .	•	•	1.0	2-0	2.2	2.2	2.4	2.2	2.0	2.8	ž·i	2.2	2.2	2.2
Cuoch Behar	•	:									·		-:-	-:-
• • • • • • • • • • • • • • • • • • • •				1946		1947		19-	48		1949		195	0
•			Male	Female	Ma	le P	'emale	Male	Female	Male	Fema	le I	Maile	Female
West Brazal	_		1.7	1.2	1-6		1.2	1.5	1.2	1.4	1.1		1-4	1.0
Burdwan .			1.8		ī.		^.ő	1 2	^. ~	1.2	1.ĝ		i ∙3	¹.š
Barbhum .			7	4			.8	- 5	-8	-5	.3		•4	-6
Bankura .	:	- :	1.5	ā	1.		1.0	1.8	•7	1.2	.6		1.0	ă
Midneyer .	- :		1.7	1·ŏ	1.		10	1.4	.0	1.8	ě		i.i	·ř
Houghly .	-		2.3	14	Ž.		1.5	1.9	1.4	1.8	1.2		î.7	1.i
Howrah .	-		2.1	1.7	2.		1.8	2.0	1.7	1.9	1.6		1.9	1.7
24-Paryanes		- :	ī.i	•	•		•.6	-8		-8	4.		.7	1.4
Calcutta .		•	ii	2-8	2.		4.4	8.2	4.2	2.8	3.8		2.6	4.3
Naile .	•	:	1-0	6	- 3		7.4	•.z •8	-8	2·8	.3		-6	•8
Murchilated			4.	-8			.2	.4	·1	·8	•1		•3	-2
Makin	:	•			3		·i	-6	.3	:	.3		·5	
West Imaipur	- :	•	1.0	3-0	8.		2.3	8·1	2.8	3.1	2.4		2.9	2.4
Jaipaiguri .	•	•	ī.j	4.8	4-(3·8	4-4	4.0	3·1 4·3	4.1		2·9 8·4	3-8
Derpeing .	•	•	1.7	1.8	1.		1.7	1.8	2.0	1.8	1.8		8·4 1·6	1.8
Lours Behar	:	:				_	_							
	•	•	••	••	•	•	••	••	••	••			••	••

TABLE 16.7

DEATH RATE FROM "SUICIDE" PER 1,000 OF EACH SEX CALCULATED ON THE POPULA-TION OF 1941 FOR 1941-50 AND FOR EACH INDIVIDUAL YEAR BY SEX, 1941-50

		Avera 194	ge for 1-50	194	11		1942	1	1943	1	944	. 1	945
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal Burdwan Birbhum Bankura Midnapur Hooghly Howran 24-Parganas Calcutta Nadis Murshidabad Malda West Dinajpur Jalpaiguri Darjeeling Cooch Behar		·05 ·04 ·1 ·03 ·1 ·1 ·03 ·1 ·1 ·03 ·1 ·03 ·1 ·03 ·1 ·1 ·03 ·1 ·1 ·03 ·1 ·1 ·03 ·1 ·1 ·03 ·1 ·1 ·03 ·1 ·1 ·03 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1	·1 ·05 ·04 ·1 ·03 ·1 ·1 ·04 ·1 ·03 ·04 ·02 ·04 ·.	·04 ·05 ·04 ·1 ·03 ·1 ·1 ·02 ·04 ·03 ·03 ·03 ·02 ·1	·1 ·1 ·1 ·03 ·1 ·1 ·1 ·01 ·03 ·02 ·03 ·02 ·03 ·02 ·03 ·02	.04 .04 .1 .1 .02 .1 .1 .03 .04 .03 .03 .03	·1 ·1 ·1 ·1 ·1 ·1 ·1 ·01 ·02 ·04 ·02 ·02 ·02 ·03 ··.	·1 ·04 ·05 ·1 ·03 ·1 ·1 ·01 ·03 ·1 ·02 ·03 ·1	·1 ·03 ·03 ·04 ·03 ·04 ·1 ·1 ·1 ·01 ·01 ·04 ·08 ·02 ·01 ·.	05 05 11 11 03 11 11 03 04 11 04 02 02	-05 -04 -02 -1 -03 -1 -1 -04 -03 -1 -04 -03 -1	05 03 04 03 11 11 04 11 03 03 02	·1 ·05 ·02 ·1 ·03 ·1 ·1 ·05 ·05 ·1 ·02 ·02 ·02
			1946	•	1947		1	948		1949	_		1950
		Male	Female	Mal	le Fer	nale	Male	Female	Male	Fems	ile	Male	Female
West Bengal		·05	•1 •05	•05 •04		1 03	-05 -04	•1 •04	·05	• <u>1</u>		-05. -03	·1 •05

						~		~		<u> </u>		~
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female.
West Bengal			.05	•1	-05	•1	-05	•1	-05	•1	- ∂5.	•1
Burdwan .			·0 4	∙05	•04	.03	·04	·0 4	·04	•1	•03	•05
Birbhun .			•03	•04	•05	·05	•04	·0 4	·1	•04	•1	•03
Bankura . •			·1	·05	•1	·0 4	·04	·0 4	·1 .	•1	•1	•03
Midnapur .			•02	•03	•03	.02	•03	•03	·0 4	•04	-03	.02
Hooghly .	-		·1	•1	·1	•1	·1	•1	•1	•1	•1	•1
Howrah .			·1′	•1	•1	•1	•1	·1	•1	•1	· i	٠ī
24-Parganas			·1	•1	-04	•1	•04	·1	•1	•1	·ī	•1
Calcutta .			·04	·03	-03	•1	·0 4	•1	•05	•1	05	·ī .
Nadia .			·1	•1	·1	•1	·0 4	·1	•1	•1	•1	•1
Murshidabad			·05	·1	-05	•1	•1	•1	·04	•1	•05	: 05
Malda .	-		.03	.02	·0 4	.02	•04	·04	·04	·Ī	·03	04
West Dinajpur			.03	·1	.03	·0 4	-03	·04	-06	·04	·04	.02
Jalpaiguri	-	·	•02	.02	.02	.02	.03	•02	•03	02	•02	•01
Darjeeling	:	÷	-1	.02	·1	•1	•1	·1	·1	·i ~	·i -	·03
Cooch Behar		•	••	••	••	••	••	••	••			

TABLE 16.8

DEATH RATE FROM "CHILD BIRTH" PER 1,000 OF FEMALE POPULATION AS PER CENSUS OF 1941, 1941-50

			Average for										
			. 1941-50	1941.	1942	1943	1944	1945	1946	1947	1948	1949	1950
						:-							
West Bengal			•3	. •3 .	•3 [·]	' :3	-3	•3	•3	•3	•3	-4	•2
Burdwan			· .3	4	-4	3	2	•3	•3	•3	•4	•4	2
Birbhum .	•		•3	.4	4	. •8	•2	•3	•3	•2	. •3	-4	•2
Bankura			` -3	-4	3	•3	•2	-2	•3	-8	- •2	•8	٠ ا
Midnapur	•		-4	•4	-4	•3	•3	•3	•4	•8	-4	•6	•3
Hooghly .			-4	•5	. •4	4	•3	•3	•3	•3	•4	•4	•3
Howrah .		•	•2	· •3	•2	• 2	•3	-2	•2	•1	2	-2	•1
24-Parganas	•	•	•2	-3	•3	-2	-2	-2	•2	- 9	•3	•8	•2
Calcutta .		•	-3	•1	-04	-04.	-8	•3	-4	•3	•5	•5	•5
Nadia .	•	•	•8	•2	-1	-2	•3	•3	•4	•3	-5	•5	•3
Mur shidab ad		•	·2	1	•2	•1	•2	-2	•2	[•2	-8	•2	•3
Malda .		•	•3	•3	•3	•2	•8	•8	•3	•2	•3	•3	-2
West Dinajpu	٠.		•8 '	.7	-7	-8	-7	-8	.9	•9	-8	1.1	٠7
Jalpaiguri		•	1.4	1.7	1.4	1.2	1.0	1.2	1.8	1.2	1.4	1.7	1.3
Darjeeling			-6	.7	•8	•6	•6	4	•6	-6	-6	-8	•4
Cooch Behar	•	-	• •	••	••	••	••	••	••	••	••	••	•

TABLE 16.9

DEATH RATE FROM "MALARIA" PER 1,000 OF EACH SEX CALCULATED ON THE POPULA-TION OF 1941 FOR 1941-50 AND FOR EACH INDIVIDUAL YEAR BY SEX, 1941-50

				rage for	•-									. •
				41-50	19	*1		1942		1943	1	944	_	1945
			Male	Female	Male	Female	Male	Female	Male	Female .	Male	Female	Male	Female
Wed Jungal			4.5	5.2	3.7	4-4	3.8	4.3	7-6	8-3	7-3	8.5	5-4	6.3
Burdwan			5.9	6-8	6-5	7.6	6-0	7-1	10-3	11.2	12.0	13.4	6.7	7.8
Birthuin			12 8	13· 3	7.3	7-4	7.3	7.5	20-1	20-5	24.5	26.2	17.0	17.9
Bankura			4.4	4-7	4-4	4.8	3.9	4.7	8.7	9-3	6-1	6.8	3.6	8.9
Midnapur			5-0	5-4	4.3	4.8	3.9	4-4	12.3	11-6	8-0	8.5	4.7	6.3
Houghly .		•	3 ∙5	4.2	8-7	4.5	8.7	4-4	5.3	5-8	5.6	6-4	8.5	4-4
Howrah .			1.6	1.8	-4	٠5	∙5	•5	2.2	2.0	2.6	8.1	1.8	2-1
24-Parkanas			1-9	2.2	1.4	1.7	1.5	1.9	8-8	8.8	3.6	4.1	2.0	2.4
Calcutta .			∙7	1.0	-2	•3	∙5	.7	1.0	1.5	1.5	2.4	-8	ī.ī
Nacija .			9.2	9.0	5.6	5-2	8-1	8.4	8-9	7.7	5.9	5·1	10.0	7.7
Mursidabad			9.8	9-6	9-0	8-5	7.8	7.6	15.7	14-4	17.7	17.8	17.1	16.8
Maida .			6.0	5 3	4-6	4-1	5·1	2.4	8-0	8.0	7.6	7.5	6.8	6.1
West Dinajpur			5.2	5.3	4-4	4.5	6.1	5-9	6-6	7.2	6.4	6.6	6.7	6.9
Jalieiguri	:		4.6	5-1	4.7	5.3	4.2	4.9	5-1	5.6	4.7	5.8	5.8	6.8
Darreling	-		6.3	5-9	7:0	6.2	7.1	6.5	8-4	8-1	9.5	9.1	8.1	7.5
Couch Behar			••		••	••		•••	• • •	Ÿ	• • • • • • • • • • • • • • • • • • • •		0.1	1.8
				1946		1947	_				1949		19	50
			Male	Female	Male	Fem	ale	Male	Female	Male	Femi	rje	Male `	Female.
West Bengal			4.5	5.2	3.6		·2	3.3	3.9	8.3	4.		2.5	3.0
Burdwan .	•		3.7	4.3	8.7		.2	3.8	4.6	3.6	4.		2.6	2.9
Birthum .		•	14.4	15.0	11.2	11		7.9	8.0	9-9	10		8.8	8.6
Bankura		•	3.0	1.8	3.4		· 4	3.6	4-1	3.9	4.		3-1	3.4
Midnapur.			3.7	4.2	3.7		-2	3·7	4.2	3.2	3-		2.4	2.8
Hooghly .		•	26	3.2	3.0		·5	2.9	8.7	2.7	3.		1.8	2-2
How rah		•	18	2.1	1.6		·0	1.8	2.4	1.8	2.		1.0	1.1
24-Parganas			1.9	2.1	1.3		· 4	1.5	1.6	1.4	1.		1.1	1.2
Calcutta .			-6	.9	•5		.9	-5	1.0	٠5		7	•4	•7
Nadia .			15.6	16.2	10.8	11		10.0	10.4	9.8	10		7-4	7⋅6
Murshidabad			9.4	9.4	6.5		.3	5·2	5∙1	5∙6	5.		4.0	3⋅8
Malita .			8.2	7.6	4.7	`4		4.7	3.8	5.3	5.		5·1	4.3
West Dinajpur		•	8.2	8-4	4.6		.8	4.3	4.2	2.5	2.		2.2	2.2
Jaipaiguri			6.3	6.9	4.2		.9	4.0	4-4	3.7	4		8.0	8.2
Darjeeling			6.0	5.7	5.4	5	·0	4-4	8.9	3-5	8	· 4	8.8	8.5
Cooch Behar	•	•	••	••	••		••	••	••	••		•	••	••

TABLE 16.10

DEATH RATE FROM "KALA-AZAR" PER 1,000 OF EACH SEX CALCULATED ON THE POPULATION OF 1941 FOR 1941-50 AND FOR EACH INDIVIDUAL YEAR BY SEX, 1941-50

				age for 11-50	19	41		1942	_ 1	1943		1944	•	1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			-1	-1	•1	•1	•1	•1	•1	•1	•1	•1	•1	•1
Burdwan .			•1	-1	•05	-03	-04	-04	•1	•08	-04	•03	-05	.03
Birbhum .			·0 2	-01	•01	•01	•01	-02	·01	•01	-01	-004	•01	•002
Bankura .			.01	•005	·01	•01	•005	-01	•01	-005	-01	•005	•008	.003
Midnapur.			-01	-01	-01	•01	•008	-008	•01	•002	-01	-008	•01	-004
Hooghly-			•2	-1	•1	-1	•1	•1	•01	-01	•1	•1	•2	•1
Howrah .			•03	-03	•02	-08	.01	•01	•1	•1	-08	•03	-08	•02
24-Parganas			-1	•05	•1	-05	•1	. •1	•1	•05	•1	•05	•1	•05
Calcutta .			-1	•2	•1	••	-04	•05	•1	•1	•1	•1	•1	·1 ·2
Nadla .			•2 .	•1	•2	-2	·1 ·2	•1	·2 ·2	•1	•1	-2	•2	•2
Murshidabad		•	.2	•1	•2	•1	•2	•1	•2	•1	•2	•1	••	·8 ·2 ·7 ·2 ·5
Maida .			•2	·j	-2	٠2	•2	· <u>1</u>	•2	•2	•2	:1	.2	•2
West Dinajpus			1.1	•9	-6	٠5	•7	•5	1.0	•7	-8	-6	1.2	•7
Jalpaiguri			•1	-1	•1	•1	•1	٠i	· • <u>1</u>	•1	• <u>1</u>	•1	-2	•2
Darjeeling.	•	•	٠5	-4	٠5	-8	-7	•4	•7	-5	•7	•6	٠5	۰5
Cooch Behat	•	•	• •	••	••	••	••	• •	••	••	••	••	••	
														••
			1	.946		1947		194	8	1	949		198	50
			Male	Female	Male	Fer	nale	Male	Female	Male	Fem	ale	Male	Female
West Brngal			.2	-1	•2		·1	•1	•1	•1	•1	1	•1	-1
Burdwan .	:		•1	•1	•1		• ī	•2	•1	•2	•1		•1	•1
Birthum .	-	- :	.02	-004	-02	: .	-02	-03	-03	-08	-0		-02	-02
Bankura .		-	-01	-002	-01		-002	-01	-01	-01		05	•01	•008
Midnapur			-61	-01	•01		-001	-02	-003	-08	•0		-08	•02
Hooghly			.2	•1	•2		•2	.2	•2	•8	•2		- •2	•2
Howrah .			-03	-02	+04		·03	-03	-02	•1	•1		-03	-08
24-Parrabas			•1	·03	-1		-04	•1	•1	-1	•1		-06	•1
Calcutta .			•1	•2	-1	•	·2 ¯	•2	-8	-1	-8	i	•1	•2
Nadia .			•3	-2	-2		-2	•1	•1	•1	•1		•1	•1
Murshidabad			•4	•8	.2		-2	•2	•1	•1	.1		•1	• <u>1</u>
Maida .			.3	•2	•2		-1	•2	-1	.2	.1		-1	•1
West Dinajput			1.6	1.4	1.9		· 8	1.5	1.1	1.1	1.0	1	•9	•8
Jaipaiguri			•2	•2	.8		·2	•2	-2	•1	-2		•1	•1
Darjeeling.			-6	4	٠6	•	4	-4	-4	•8	-8		-4	•1
Couch Behar			••	••	••		• •	••	••	••	••		••	••

TABLE 16.11

DEATH RATE FROM "T. B. OF THE LUNGS" PER 1,000 OF EACH SEX CALCULATED ON THE POPULATION OF 1941 FOR 1941-50 AND FOR EACH INDIVIDUAL YEAR BY SEX, 1941-50

				age for 11-50	19	41	:	1942	19	43	1	1944	1	945
			Maie	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal Burdwan . Birbhum . Bankura .	:	:	•4 •4 •3 •5	•3 •1 •1 •1	•4 •5 •4 •5	·3 ·1 ·1 ·1	•4 •4 •3 •5	·2 ·1 ·1 ·1	·4 ·4 ·3 ·4	•2 •1 •1 •1	·4 ·4 ·8 ·4	·8 ·1 ·1 ·1	•4 •3 •8	.2 ·1 ·1 ·1
Midnapur . Hooghly Howrah . 24-Parganas	:		·2 ·4 ·6 ·3	·1 ·2 ·4 ·2	·2 ·5 ·5	•1 •2 •4 •2	•2 •4 •5 •3	•05 •2 •3 •1	.2 .6 .6 .	•04 •2 •8 •1	•2 •4 •7 •8	•05 •2 •4 • •1	·2 ·4 ·7 ·8	•05 •2 •4 •2
Calcutta . Nadia . Murshidabad Malda .	:		1.0 ·2 ·1 ·1	1.9 •02 •03 •02	1·0 ·1 ·1 ·04	2·3 •02 •04 •02	•8 •1 •1 •03	1.6 -02 -03 -01	·9 ·1 ·1 ·05	1·8 •03 •01 •02	1.0 ·1 ·2 ·1	1.9 -03 -02 -02	.9 .2 .2	1.7 -02 -04 -02
West Dinajpur Jalpaiguri Darjeeling. Cooch Behar	:		·1 ·6 1·4	·1 ·4 1·4	·1 ·5 1·4	·1 ·3 1·3	•1 •5 1·3	·1 ·2 1·5	·1 ·5 1·3	•04 •3 1•4	·2 ·4 1·8	•05 •2 1•4	·1 ·8 1·2	·1 ·1 1·8
			:	1946	-	1947		194	8		1949		19	50
			Male	Female	Kale	Fem	ale	Male	Female	Male	Fe	male	Male	Female
West Bengal Burdwan . Birbhum . Bankura .	:	:	•4 •4 •8 •5 •2	№2 •1 •1 •1 •04	•4 •4 •2 •5 •2		3 1 1 1 04	•5 •5 •3 •5	·8 ·1 ·1 ·1	•4 •4 •3 •5 •3		·3 ·1 ·1 ·1 ·1	•4 •4 •2 •5	·8 ·1 ·1
Midnapur . Hooghly Howrah . 24-Parganas Calcutta .	:	:	•4 •5 •3 1•0	·1 ·3 ·2 1·8	·4 ·6 ·3 1·0	2	2 4 •2 •1	•4 •6 •3 1•0	·1 ·2 ·4 ·2 2·1	4 6 3 10		·2 ·4 ·1 1·9	•4 •5 •3 •9	•1 •2 •8 •2 2•1
Nadia Murshidabad Malda West Dinajpur Jalpaiguri	:	:	•2 •2 •1 •2 •5	•04 •03 •02 •1 •3	·2 ·2 ·05 ·1 ·6	•	·1 ·04 ·02 ·1 ·4	·2 ·2 ·1 ·1 ·9	·1 ·04 ·02 ·04 ·5	·2 ·1 ·1 ·2 ·9		-04 -04 -02 -1	·2 ·1 ·1 ·2 ·9	•01 •08 •01 •04 •8
Darjeeling. Cooch Behar	:	:	1.2	1.4	1.5	1	·4	1.5	1.4	1.5	•	1.5	1.4	1.2

TABLE 16.12

DEATH RATE FROM "SNAKE BITES" PER 1,000 OF EACH SEX CALCULATED ON THE POPULATION OF 1941 FOR 1941-50 AND FOR EACH INDIVIDUAL YEAR BY SEX, 1941-50

		age for 41-50	19	41	1	942	- 1	943	19	44	. 1	1945
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal	•1	•1	•1	•1	. 1	•1	•1	•1	-1	-1	-1	•1
Burdwan Birbhum	·1 ·1	·1 ·1	·1 ·1	·1 ·1	· ·1 ·1	·1 ·1	·1 ·1	•2	·1	•1	•1	-1
Baukura	:1	. <u>1</u>	·1	•1	·i	·i	·1	·1 ·1	·1 ·1	·1 ·1	•1 •1	•1
Midnapur	٠î	٠î	٠î	٠î	·i	٠ī	·i	-1	-1	·i	1	·1 ·1
Hooghly	·1	•1	•1	•1	•1	•1	٠ĩ	٠ī	٠ī	٠ī	·i	4
Howrah	-04	-04	-04	-03	•04	• 04	•03	-03	-05	-04	-04	-03
24-Parganas	·1	•1	•1	•1	•1	•1	•1	•1	•1	•1	-1	4
Calcutta	-01	-005	i	ï	.003 •1	002	•:	•:	·01	-005	-01	-005
Murshidabad	·1 ·1	·1 ·1	·1	•1	·1	·1 ·1	·1 ·1	·1 ·1	·1	·1 ·1	•1	•1
Malda	·i	·i	·i	·i	٠i	·i	i	•03	•1	4	•1 •1	•2
West Dinajpur	٠î	٠ĩ	٠ī	٠ī	٠ī	·ī	·i	·ĭ	·i	·i	•1	·1 ·1
Jaipaiguri	·04	-03	-04	-02	-04	-03	-03	-03	-02	·03	-04	•02
Darjeeling	-02	-02	-03	-02	-01	.•01	.02	-03	-02	-02	-01	-03
Cooch Behar	••	••	••	••	••	••	••	••	••	••	••	••
		1946		1947	_	194	8		1949	_	19	50
	Male	Female	Male	Fen	nale	Male	Female	Male	Fema	le	Male	Female
West Bengal	·1	-1	-1		·1	·1	-1	.1	.1		1	-1
Burdwan	•1	•1	-1		.1	-1	-1	•1	-1		·1	·Ī
Birbhum	·1 ·1	·1 ·1	·1 ·1		-03 -1	·1 ·1	·Ī	·j	•1		-1	-1
Midnapur	4	-1	4		i .	4	·1 ·1	·1 ·1	·1 ·1		· <u>1</u>	·j
Hooghly	·i	·i	·i		·i	·i	•1	4	4		-1 -1	·1 ·1
Howrah	-05	•Ō 4	-Ō5		·04	-Ō3	-Õ4	-Ō8	-04	L	-03	-04
24-Parganas	•1	-1	-1		-1	·1	.1	-1	·i		·i	1
Calcutta	-01	-005	-00		-005	-01	-003	-02	-01	l	·01	-Õ1 ·
Nadia	-1	-1	.i		•2	·1 ·1	-2	•1	•1	•	•1	·1
Murshidabad	·1 ·1	·1 ·2	·1 ·1		·1 ·1	·1	·1 ·1	·1 ·1	·1 ·1		-1	-1
West Dinajpur	-1	-2	-1		•2	•1	.2	•1	·1 ·2		·1 ·1	:1
Jalpaiguri	•63	-01	-Ô5		-04	-Õ5	-04	•1	·z ·1		-04	-2 -1
Darjeeling	-03	-01	-02		-õi	-02	-03	-02	-01	L	-02	61
Cooch Behar	••	••	••		••	••	••	84	••		••	
1 CENSUS									•			77
												.7

TABLE 17.1

DEATH RATE FROM "CHOLERA" PER 1,000 DEATHS FROM ALL CAUSES BY SEX, 1941-50

		•		ngo for 11-60	1	941	1	942	1	.943		1944	:	1945
			Male	Female	Male	Temale	Male	Female	Male	Female	Male	Female	Male	Female
Want Broad	_		40-3	48-0	40-7	40-6	82-2	33-6	86-9	100-5	84-0	35-8	19-4	17-6
Bard Tab			39-9	46-1	25-8	24-4	63-0	57-8	104.9	122.9	31.5	35-9	8.9	11-4
Birbham	: .		29-2	29-8	52- 0	62.2	25-8	23-0	96.7	103-3	24.5	36.4	2.6	3.7
Beekers			39-3	26-6	23-1	23.8	84-9	85-4	107-0	125-8	19-6	22-1	5-1	16.3
Hidaoper .	-		22 ·1	3 6-7	27.2	21.5	80-4	84-8	77-3	95-0	27-2	20-5	7-6	9-2
Hooghiy			80-9	84-9	23-4	25.8	81-0	32-5	61-7	79-9	26.5	27.7	29-2	21.9
ioursh .	:		80-4	8-98	93-8	89-2	86-3	86.2	115-4	157- 6	72.0	79-3	81.3	79-8
4-Perganes	:		76-1	81.7	99-9	106-1	89-1	40-0	134.3	161.3	81.6	88.3	30.0	26-1
alcula	Ξ.		46-8	36.2	<i>6</i> 1·8	44-1	22-8	15-1	41.3	84-0	85-5	25.3	- 51-4	32.5
Fadio	Ι.	-	87-6	42.7	7.9	8.6	21.4	21.3	76.3	88-6	13.3	16.6	9-8	11.6
Marebidebad	٠.		27-6	\$1.8	89-7	45-4	82.8	89-5	76-3	87.7	10-8	12.8	3.5	9.4
Maide .			26-6	32-8	16-8	15-1	15.5	16.3	70-4	87-5	I1.0	25-5	11.0	10.8
West Dina pur	•	- :	21-1	21-4	6-8	4.5	5-4	9-1	81.8	77-8	11.3	10-2	3.8	3.1.
Jaipaiguri	٠.	-	12.2	12-4	9-8	8-7	7-1	5-6	62-1	64-5	4.5	4.9	2.0	2.0
Derjeeting.	• •	•	4.1	2.8	• • •		4-9	1-6	13.8	8-4	4.0	3.1	2.8	3.0
Dooch Bones	٠.	•				•	••		••	•••	•••	•••	• • •	
NOOTE DESIGN	•	. •		٠, ٠						, ,	•		•••	•••
	٠.		• •	1946	••	1947	• •	. 19	48	••	1949	•		950
			Male	Female	<u> </u>		Female	Male	Fomale	Male	Fei	nale	Male	Female
			٠ .	24-6	,	6-2	28-1	85.2	36-5	85.7		8.8		
West Bragal	• '	•	22·6 12·7	12-4		0.6	25.4	37.1	41.0	82-8		8·0	47-2 55-3	49.5
Burdwas .	•	•		4.7		5.0	25.7	14-1	13.2	6.0		5·8	10.4	63.6
Hirbhum .	•	٠.	4.4	11.6		6.7	23.5	12.0	13.5	11.2		3·3	18-1	10-7
Beature .	•	٠.	7-6	9.8		7.9	19-6	19.7	22.0	30.3		3.0		21.1
Midnapur.	•	•	7.8	27.5		7.0	84.4	38-1	40.6	23.1		3.0 6.6	20.7	20.9
Hooghly .	•	•	23.4			6.8	91.8	83·2	86.1	55.9			25.7	27-2
Howren .	•	•	61.6	60-8		9-1	45-6	62.1	69-8	107.7		1.2	27.1	81.4
24-Pargabes	•	•	34-4	40-4			29-8	56·8	45.2	33.8		.2•7 37•3	85.2	97.8
Calculla .	•	٠.	24-6	15.8		3.6							82.2	78-8
Nadia .		٠.	49-5	55-4		8.7	28-3	89-8	49.8	88.1		2.7	92.5	88.7
Murshidabed	•	•	25.4	28-0		9-4	9-3	10.6	25.0	15.0		7-9	19.6	19.5
Maida .	•	~·•	68-0	59-8		4.1	5.8	25.5	27-5	23-8	. 2	4.9	41.7	49-1
West Dinajpu	٠ 1	٠.	20.8	22.8		18.6	16.7	4.2	4.1	10.1		9-7	55.6	62.4
Jaipaiguri		٠.	1.8	1.0		2.5	8·0 .	8.8	4.0	8.7		5.1	12.3	12.2
Darjeeling.		٠.	2.7	2-0	•	2.9	•7	2.2	••	1.4	-	1.0	4-4	3-4
Cooch Benar				••	•	••	••	•• ,	• •	••		••	•• •	••

TABLE 17.2

DEATH RATE FROM "FEVER" PER 1,000 DEATHS FROM ALL CAUSES BY SEX, 1941-50

(Fever includes Malaria, Kala-azar, Blackwater fever, Measles, Relapsing fever, Cerebrospinal fever, Influenza, Enteric group of fevers, Typhus, and 'Other fevers' of some of which death rates are given separately elsewhere.)

			Avera 194	ge for 1-50	1	1941	1	942	10	043	194	4	1	945
· · ·		٠.	Male -	Fema le	Male	Female	Male	Female	Male	Female	Male · -	Female	Male	Female
Test Bengal			536	541	496	522	511	541	520	532	583	608	535	565
Bardwan .			8HB	681	569	605	438	467	619	646	683	715	598	645
Sirbhum .			769	797	649	690	695	726	737	751	837	857	808	830
lenkure .			507	644	572	615	559	619	596	612	650	687	567	609
idaarer .	-	-	548	863	650	593	52 2	547	489	500	631	661	576	626
iooghiy			888	428	890	437	405	441	418	454	435	466	875	418
lowrah	:	- :	245	250	184	199	211	200	265	254	266	271	232	250
4-Pareames	:		438	448	395	415	428	452	469	429	489	492	. 445	458
akaua .	•	•	130	118	94	78	135	120	127	108	151	129	149	125
Nadia .	•	:	700	729	739	774	708	740	701	714	805	830	754	780
Murshidebed	•		736	748	670	686	497	705	775	776	842	859	728	748
Mahla .	•	. •	793	785	810	769	805	597	808	804	866	862	826	825
Wood Dine Der	٠	•	609	617	748	741	599	700	675	664	631	635	869	602
Jejpejgeri	•	•	490	479	674	549	547	559	544	489	652	660	572	531
Incoming	•	•	464	- 532	676	558	551	525	540	538	612	580	605	684
Tries have no	•	•								•				
Coool Mehar	•	•	••	••	••	• • •	••	••	••	••	••	••	••	••
				1946										
		٠,				1947		194	8		1949	•		<u> </u>
* •		• ,	Male	Female	` `		Pemale .	Male 194	Female	Male	1949 Yema	lo .	Male 19	Femal
West Brogal	•	• ,	526	Female 554		ale _]	Female 545	Male 488	Female 514	484	Fema.	, .	Male 458	Femal
Nerdwan .		• ,	526 541	Female 554 5H3		ale]	Female 545 638	Male 488 569	Female 514 615	484 570	Fema. 516 625		Male 458 535	Femal 477 578
jurdwan . jurthum .		-	526 541 771	Female 554 5H3 815		ale]	Female 545	Male 488	Female 514	484 570 785	Fema. 516 625 815	٠	Male 458 - 535 811	Femal 477 578 840
Perdwas . Perthem . Penture .		•	526 541 791 500	Female 554 543 815 825		ale]	Female 545 638	Male 488 569	Female 514 615	484 570	Fema 516 625 815 677		Male 458 535 811 612	Femal 477 578 840 675
jerdwag . jerthem . jenkura . jednopur .		•	526 541 701 500 507	Female 554 543 815 825 618		ale]	Female 545 638 813	Male 488 569 765	Female 514 615 788	484 570 785	Fema 516 625 815 677 678		Male 458 535 811 612 522	Femal 477 578 840 675 503
jurdwan . jurthum . jurthum . judnepur . judnepur . judnepur .		•	526 541 701 560 567 371	Female 554 583 815 625 618 412		ale] 513 596 777 611	Female 545 636 813 651	Male 488 569 765 616	Female 514 615 788 680	484 570 785 613 529 871	Fema 516 625 815 677 678 414	÷	Male 458 535 811 612 522 347	Femal 477 578 840 675 563 395
Burdwan . Burthum . Bunhum . Midnapur . Houghly . Howeah .		•	\$26 \$41 7v1 \$40 \$47 \$71 \$45	Female 554 543 815 825 618		ale] 513 596 777 611 572	Female 545 636 813 651 612	Male 488 569 765 616 562	Female 514 615 788 680 599	484 570 785 613 529	Fema 516 625 815 677 678	÷	Male 458 535 811 612 522 347 199	Femal 477 578 840 675 563 395
jurdwan . jurthum . junkura . judnapur . Houghly . Hownh . 24-Parganes		•	526 541 7v1 500 567 371 265 442	Female 554 583 815 625 618 412		ale] 513 506 777 611 572 877	Female 545 638 813 651 612 418	Male 488 569 765 616 562 366 258	Female 514 615 788 680 599 408	484 570 785 613 529 871	Fema 516 625 815 677 678 414		Male 458 535 811 612 522 347	Femal 477 578 840 675 563 395 170 407
Nerdwan . Nerthem . Nenture . Nenture . Midnepur . Houghly . Howrah . 24-Parganes Calcutte .		•	526 541 701 500 567 371 265 442 155	Female 554 583 815 625 613 412 270		ale]	Female 545 638 813 651 612 418 269 460	Male 488 569 765 616 562 366 258 428	Female 514 615 788 680 599 408 278 443	484 570 785 613 529 871 273	Fema 516 625 813 677 678 414 296		Male 458 - 535 - 811 - 612 - 522 - 347 - 199 - 895 - 100	Femal 477 578 840 675 563 395 170 407
jterdwan , jterthwan , hankura , hidna pag , Houghly , Hownsh , 24-Parganes Calcutés , hadin .		•	\$26 \$41 791 \$60 \$67 \$71 \$63 443 155 642	Female 554 543 815 625 618 412 270 494 144		ale] 518 596 777 611 572 877 250	Female 545 638 813 651 612 418 269	Male 488 569 765 616 562 366 258	Famale 514 615 788 680 599 408 278	484 570 785 613 529 871 273 388	Fema. 516 625 815 677 678 414 299 407 118		Male 458 535 811 612 522 347 199 895 100 609	Femal 477 578 840 675 563 395 170 407 95
jterdwan . jterthwm . jterthwm . jterthwm . jterthwm . jterthwm pmg . jterthy . jterthwm . jterthw . jterthw . jterthwm . jterthw . jterthw . jterthw . jt		•	526 541 7V1 509 507 871 203 402 155 602 678	Fomale 554 583 815 625 613 412 270 494		ale] 513 596 777 811 572 877 250 451 135	545 638 613 651 612 418 269 460 142 729	Male 488 569 765 616 562 366 258 428 129	Female 514 615 788 680 599 408 278 443 131 656	484 570 785 613 529 871 273 388 124 678	Fema. 516 625 815 677 678 414 299 407		Male 458 - 535 - 811 - 612 - 522 - 347 - 199 - 895 - 100	Femal 477 578 840 675 563 395 170 407 95 635 601
Purdwan . Nr thum . Nr thum . Pinhum . Pinhum . Ridne pur . Houghly . Howsh . Se-Pargnant Calcutta . Natio . Murhdahad . Murhdahad .		•	\$26 \$41 791 \$60 \$67 \$71 \$63 443 155 642	Female 554 543 815 625 618 412 270 494 144		ale] 513 506 6777 611 672 877 250 451 135 706	545 638 813 651 612 418 269 460 142 729 748	Male 488 569 765 616 562 366 258 428 129 644 722	Female 514 615 788 680 599 408 278 443 131 656 740	484 570 785 613 529 871 273 388 124 673 727	Fema. 516 625 815 677 678 414 299 407 118		Male 458 535 811 612 522 347 199 895 100 609	Femal 477 578 840 675 563 395 170 407 95
Nurdwan , Nirthum , Nanhuru , Nidnapur , Houghly , Howtah , 24-Parganes Calcutte , Nadia , Murahdabad			526 541 7V1 509 507 871 203 402 155 602 678	Female 554 543 815 625 613 412 270 494 144 6-3		ale] 518 546 777 811 872 877 250 451 135 706 746 818	7emale 545 638 813 651 612 418 269 460 142 729 748 815	Male 488 569 765 616 562 586 428 428 429 644 722 743	Female 514 615 788 680 599 408 278 443 131 656 740 735	484 570 785 613 529 871 273 388 124 678 727	Fema. 516 625 815 677 578 414 299 407 111 667 744		Male 458 535 811 612 522 347 199 895 100 609	Femal 477 578 840 675 563 395 170 407 95 635 601
Nurdwan . Nirhhum . Nirhhum . Ninhum . Nidno puf . Houghly . Houghly . Houghly . Nota . Nata . Murhdahad			526 541 791 560 567 371 265 662 155 662 755	Female 554 553 815 625 613 412 270 404 643 645 750		Ale] 518 506 777 811 572 877 250 451 135 706 740 810 810 8579	Female 545 638 638 613 651 612 418 209 460 142 729 748 815 561	Male 488 569 765 616 562 366 258 428 129 644 722 743 640	Female 514 615 788 680 599 408 278 443 131 656 740 735 599	484 570 785 613 529 871 273 388 124 673 727 734	Fema. 516 625 815 677 677 414 296 467 116 667 744		Male 456 535 811 612 522 347 199 895 100 609 679 709	Femal 477 578 840 675 503 395 170 407 95 635 691
Nurdwan . Nirhhum . Nirhhum . Nidnapur . Midnapur . Houghly . Howsh . 26-Pargnass Calcutts . Nadin . Murshdabad . Madda . W out Linn.pu			526 541 791 500 567 871 265 672 155 662 678 756 501	Female 564 588 815 625 613 412 270 604 144 683		ale] 518 546 777 811 872 877 250 451 135 706 746 818	7emale 545 638 813 651 612 418 269 460 142 729 748 815	Male 488 569 765 616 562 586 428 428 429 644 722 743	Female 514 615 788 680 599 408 278 443 131 656 740 735	484 570 785 613 529 871 273 388 124 678 727	Fema. 516 625 815 677 578 414 299 407 111 667 744		Male 456 536 811 612 522 347 199 895 100 609 679 709 613	Femal 477 578 840 675 503 395 170 407 95 635 691 727 564

TABLE 17.3

DEATH RATE FROM "SMALL-POX"	PER 1 000 DEATHS FR	OM ALL CAUSES BY SEX	1941-50
DEATH KAIL FROM SMILLED-1 OZ	I DIC 1,000 DESTINE FIG		, . /

•	A v∈ 19-	rage for 41-50	194	1	· ·	1942	19	43	1	1944	:	1945
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal	19.0	20.7	24.2	24-1	2.8	8.1	3.6	8.7	81.7	84.9	61-0	56-0
Burdwan	14	17	18	20	7	7	6	6	, 5	. 6	46	57
Birbhum	7	.7	5.	6	7	6	1	٠ 2	6	6	27	28
Bankura	11	11	3	.4	0.3	0.6	· 0·1	` •• <u> </u>	4 -	4	71	81
Midnapur	5	.5	3	3	0.2	0.1	0.8	· 0·7	9	9	19	21
Hooghly	22	25	. 22	23	1	1	1	٠ 2	30	36	87	98
Howrah	53	60	50	52	. 10	13	6	8	120	140	· 138	155
24-Parganas	. 19	21	29	81	4	5	7	4	80	. 36	71	75
Calcutta	67	79	126	125	4	4	26	25	127	158	- 89	114
Nadia	9	10	5	6	0.2	. 0.3	2	· · 2	· 17	18	11	14
Murshidabad	9	10	. 3	. 5	0.3	1	4	4'	4	3	42	45
Maida	. 8	9	8	10	2	2	- 1	0.2	4	4	21	26
West Dinajpur	9	11	1	1	0.4	1	. 2	2	24	28	. 8	10
Jaipaiguri	1	1	• •	••	0.2	••.	. 1	1	5	3	- 8	1
Darjeeling	8	. 1	0.4		• • •	0.6	1	0.2	2	2		4
Cooch Behar	• •			••		• • •	• • •			••	• ••	• •
	٠ -								•	• • • • • • • • • • • • • • • • • • • •	•	
	•	1946	• •	1947		194	8 .		1949 · I		19	50
e e e	Male	Female	Male	Fe	male .	Male	Female	Male	Fen	nale	Male	Femalo
West Bengal	11-3	12.7	7.6		9-5	20.0	21.1	8.3		3-8111	· 31 ·9 ·	36-6
Burdwan	36	45	7		7	8	10	2		2	18 .	2
Birbhum	14	11	2		2 .	4	4	0.3	•		5	4
Bankura	7	6	•8		1.0	5	6	•4		•2	. 9 .	9
Midnapur	0.7	0.7	1		1	4	4	2	. 1	L	11	12
Hooghly	10	9.	3		3	11	13	. 3	• 2	2	· 48 ·	65
Howrah	17	20	9		7 .	46	42 .	- 8	. 7	7	83	. 88
24-Parganas	7	8	2		2	13	12	4	•	4	19	16
Calcutta	3 .	4	42		55	95 .	110	i 13 ·	1	j -	101 .	123
Nadia	17	18 .	3		3 .	4	6	2 .		3 .	· 28 ·	. 32
Murshidabad	19	19	1		2	2	2 .	1 .	100	L '	15	15
Malda	5	7	3.		1	11	11	0∙3)·5	15 '	16
West Dinajpur	20	23	16	1	lā ·.	2	3	,		•	7	8
Jalpaiguri	0.3	0.2	0.3		0.2	0.4			-		i	ĭ
Darjeeling	1 .	0.2	4		2	4	••	i	•••]	Ľ,	. g	ā
Cooch Behar .						-	• • •	_				_

TARLE 17.4

DEATH RATE FROM "PLAGUE" PER 1,000 DEATHS FROM ALL CAUSES BY SEX, 1941-50

				rage for 141-50	1	1941	1	1942	1	943	. 1	1944		1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal	•		•03	-01	•005	-005					•01	-004	••	_
Burdwan .	•	•	• •	••				• •		••				••
Birbhum .	•	•		••				•••			••		••	••
Bankura .	•			••		••			••	••	•••	•	**	. ••
Midnapur.	•					. • •	••	••				. ** .	- +	••
Hooghly .						••	••	•••	• • •	••	•••	••	••	. ••
Howran .					••	•••				••		••	• •	••
24-Parganas				••	•••			••	••	••	•••	••	* *	••
Calcutta .			-3	i	• • 1	ï	••	••	• •		i		• •	••
Nadia .			••	-	_	_	••	• •	••		1	-04	• 4	
Murshidabad		-	•••	••		••	••	••	. ••	••			••	
Malda .		-		• • •	• • •	••	•	••	••	. ••		••	• •	•• .
West Dinajpur	•	•	••		••	••	••	• •				••	• •	
Jalpaiguri	•	•	••	••	• • •	••	••	••	••	••		• • •	••	
Darjeeling.	•	•	••	••	• •		•••	••	• •	. ••		• • •		
Cooch Behar	٠.	-	••	•••	••	••	••	• •				•	••	
COOCH Dense	•	•		••		•• .	• •	••				•••	•••	::
						1				•	•••	• •		••

		1	946	1	947	1	948		1949 ^{, 1}	1	1950
	_	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal Burdwan Birbhum Bankura Midnapuf Hooghly Howrah 24-Parganas Calcutta Nadia Murshidabad	:	-01	•••	-03	01 	·1 ·· ·03 ··	·02	·2 ·1 · ·4	·1	.02	•
Malda West Dinajpur Jalpaiguri Darjeeling, Cooch Behar	•	••	••	••	••	••	•2 ••	••	••		••

TABLE 17.5

DEATH RATE FROM "DYSENTERY, DIARRHOEA AND ENTERIC GROUP OF FEVERS"
PER 1,000 DEATHS FROM ALL CAUSES BY SEX, 1941-50

				rage for	194	11_	1	942	_ 1	943	11	244		1945
			Male	Temale	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bragal			65-8	67-8	66-0	65-8	67-5	66.0	61.2	71.0	63.0	61.8	54.3	54-8
Rerdwan			50-8	49-4	62-8	63.2	54-3	54-7	60∙8	49-6	42-6	40-8	44-5	40.7
Hirbbam .			20-3	17-6	38∙8	39-5	43-8	39-7	27-4	25-0	18-5	12.3	11-6	8.6
Benkura .	:		61.5	52-4	76- 6	75·1	61.0	63-1	65 ∙7	49-2	66-8	59-2	40-0	42.9
Mixing DWF	:	-	63-4	75-2	73-5	69-0	68-6	66-3	23.5	92.9	79-8	75.3	54-3	53-6
Hooghly	•		111-8	129-6	107-2	122-0	118-8	131.9	141-3	139-8	115-6	127-7	99.3	105-3
Howtah .	•	•	156-2	169-8	151-1	172-5	187-0	204-7	172-1	117-8	158.2	171.2	139-0	153.8
24-Pargames	•	:	72-5	72.5	68-1	66-4	73-1	72-4	89-0	89.9	69.5	69-0	56.9	67.2
Calcutta	•	•	124-1	133-6	111-4	105-1	135-1	137-4	141-8	134.7	111-9	116.0	100.8	111.3
Nadia .	•	•	24-9	22.4	14.5	12.4	21.1	13.9	13.2	11.2	20.3	17.6	19.8	19.3
Murshidabed	•	•	18.2	17.5	13-0	12.7	19.2	20.1	10.4	9.0	9.1	8.8	16.5	15.8
	•	•	17.1	14-6	12-1	10.2	15.8	13.9	12.7	11.8	9-4	7.5	17-5	12.7
Maida	•	•	23.6	20-6	15.2	13.6	21.3	14.2	21.9	18 0	14-1	9.6	14.3	13-4
West Dinajpur	•	•	53.2	48-9	33-6	28.6	20.9	17.2	30.1	27.1	39-1	38.2	48-2	
Jaipaigari	•	•	85-0	76-0	82.5	77-4	79-9	66-1	93.9	78-7	89·8	70.7		46-1
Darjecling	•	•				-			_				87-6	88.7
Cooch Behar	•	•	••	••	••	••	••	••	••	••	••	••	••	••
				1946		1947		19	48		1949	_	19	50
			Male	Female	Male		Female	Male	Female	Male	Fem	ماه	Male	Female
West Bengal			61-6	62-1	68-1		70-7	72-6	75-1	74.0	73	·6	78- 3	81.7
Burdwan .			88-5	36-1	44-4		43-5	52·0	51.7	56-8	33	.9	66-4	63-4
Birbhum .			8-1	8.9	16-	2	12.5	14-2	13-1	12.0	8	· 9	15.8	12.4
Bankura .	-	- :	87-1	38-7	39-1		46-4	46-0	50-5	46-3	45	•1	50.3	50-1
Midnapur .			58.3	55.7	78-	3	77-8	83-0	80-9	84.0	86	-7	76.4	71.6
Hooghly	•	•	105-0	124.3	126-	Š	137-2	124.0	147.7	133-1	137	-4	114-2	130.6
Howrah .	•	:	154-1	173-8	171.		190.5	150.0	167-1	137.9	146		138-8	146.5
24-Pargapes	-	:	65.2	70-1	64.		65-8	69.0	70-1	74.5	69		86.3	90.9
Calcutta .	•	-	135.7	155-5	125		142.7	123.2	122.3	132.8	152		127-8	147.8
Nadia .	•	•	26-5	22.1	23.		25.5	39-3	38.1	42.9	36		50.1	54.3
Murshidabad	•	•	24-8	27.5	17.		17.2	24-4	26.9	22.9		·š	38.5	35.3
Maida .	•	•	23.8	81.5	14-		12.1	14.6	13-9	19.3	îŝ		18.8	15.4
	•	•	17.7	14-0	30-		81.8	21.0	14-1	34.3	29		48.6	47.0
		•	82.8	68.8	61.		57·8	65.8	65.9	78·0	84		96.9	91.9
West Dinajpur										19.0	01			A1.A
Jalpaiguri	•	•									45	.0		
	:	:	68.8	77.8	86.		67-1	90.2	81.8	80-7	65	•	83.9	81.4

TABLE 17.6

DEATH RATE FROM "RESPIRATORY DISEASES OTHER THAN T. B. OF LUNGS" PER 1,000 DEATHS FROM ALL CAUSES BY SEX, 1941-50

				ige for	. 1	941		1942	1	948	1	1944	:	1945
		•	Malo	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			85-8	60-8	104-4	72.9	100-7	87-5	64-8	46.7	74-5	52.9	88-1	61-9
Burdwan .	•		74.0	45-2	105-8	70-1	85.7	51.5	58-1	85.7	58·2	39-8	70-4	39.9
Birbhum .	•		27-5	17-8	59-8	46.6	50.9	36-3	26.4	17.8	19-8	12.4	24.7	14.0
Hankura		•	68.7	42-5	84.7	53-8	77-3	48.9	49-2	33.2	64-4	42.2	77-1	44-9
Midnapur			76-0	45-5	109-1	63-4	93.7	55∙8	40.6	27.3	68.9	41.9	95.7	52· 6
Hooghly .	•		144-8	91-8	171-1	109-8	169-3	107-4	139-2	95.6	148-8	96.6	148-8	92.1
Howrah	:		183-9	95-2	171-9	129.0	158-1	122-3	109-2	79-9	116-1	79-7	124.5	79.7
24-Parranas			70-7	53-8	90.5	53-8	93-4	184-5	55-1	34-8	62-4	39.0	65-6	46.3
Calcutta			158-7	133-1	180-5	145-5	187.7	175-6	145.7	113-8	147-6	126.2	165-8	137-9
Nadia .			80.7	18-4	29.7	25.7	42.6	20-4	23.6	16.5	22.8	15-4	86-8	27.3
Murshidabed	:		16-7	14-0	12.8	8.2	18.3	14-8	13.1	10.9	16.0	13.6	18-1	36-6
Makia .	•		25-4	17.2	20-5	20.4	47.9	45-4	43.3	36-1	14.5	13.0	13.0	8.9
West Dinalpur	•	-	121-7	102-4	108-0	102.6	146-5	135-1	127-8	111.4	83.0	75.4	109.7	101.8
Jalpalururi	•	•	197-7	156-2	204-5	151-7	206-7	145.8	179-1	134.9	186-1	152.7	202.7	160-4
Darjesing	•	•	76-2	76-0	80-0	76-6	87.7	82.3	69.8	75.2	68.5	70.9	76.3	73-1
Coord Bebar	•	•						02.0	,		•••			
				1946		1947		1948			1949		1	950
			Male	Pemale	M	s lo	Female	Male	Female	Maio	Fen	ale	Male	Female
West Bengal			91-8	60-8	90)·7	63-7	86.9	60∙0	86-0	57	·5	83.7	59-2
Burdwas .			72-8	44.8	77	-2	49-2	68-8	87.3	72.6	42	.• 9 .	81.6	46.8
Burbuan .			22-6	14-1	20)· 1	10.2	23-7	13.5	20-1	11	· a	16-9	10.0
Benkure .			79-1	45-8		8.8	46-6	68.6	89.8	64-6	35		59-4	37.4
Midneput.			102-7	57- 6	86		54.2	78-0	46-0	71-4	40		67.9	39-4
Hooghly .			147-6	82-8	137	7-sA	85-6	125-9	80-1	128.2	78	.2	122-7	80-5
Howish .			135- 6	94-8	141		101.4	130-9	95-9	136.5	96		156-0	105-1
S4-Parganes			82-8	45-7		7-4	42.8	62-6	38.6	66.4	86		65.8	85.5
Chicatta .			189-0	158-5	170		152-8	143-4	122.4	149-9	127		136-0	112.6
Nadia .			84-7	17-8		2.5	18-1	34.2	14-7	29-1		.ŏ	28.7	17.4
Marebide bed			18-0	10-1		3- 0 ·	9-5	19.9	8.3	16.8		7-Ŏ	20 2	12.6
Makia .	-		16.6	11-6		2.2	10-6	36-6	22.8	86.0		7-6	84.2	13.8
West Dina pu	r .		137-8	109-0	19		91-7	135-0	108-9	136-5	104		122.3	103-5
Telpoleuri	-		143-2	166-9	210		163-8	215-6	173-8	218-0	177		166-8	143.8
Derpeling	-	-	62-1	70-7		j. j	76-3	81.7	83.9	86.4		7-0	64.9	76-1
Cours Beast	Ī	•	••	••		•	•••	•••						••

TABLE 17.7 DEATH RATE FROM "SUICIDE" PER 1,000 DEATHS FROM ALL CAUSES BY SEX, 1941-50

Average for

		Aver:	age for 41-50	1	941		1942	1	943	:	1944		1945
•		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal .		2.5	2.6	2.4	2.9	2.7	3.2	1.9	1-9	1.9	1.7	2.4	2.5
Burdwan		$2 \cdot 1$	2.3	2.5	3.1	$2 \cdot 2$	3∙0	1.6	1.4	1-8	1.4	2.8	2.4
Birbhum		1.6	1.4	1.7	2.8	2.8	2.9	1.2	1.0	1.4	1.0	1.2	1.0
Bankura		2.5	2.5	2.7	2.9	2.9	3·1	2·1	1.2	2.3	2·1	1.9	3.2
Midnapur		1.4	1.4	1.8	1.6	1.4	1.5	1.0	1.0	1.1	1.2	1.5	1.5
Hooghly .		4.8	6.0	5.5	7-1	5.0	5⋅8	5.1	6-2	3.1	4-4	3.4	4.7
Howrah		5-1	5.1	4.3	5.5	5∙1	5.7	6· 2	6.3	4-6	2.5	4-9	4.7
24-Parganas .		4.5	5.2	4.0	5.8	4.6	7-8	3.2	4.0	2.3	8-1	3.3	5.8
Calcutta		1.8	1.5	1.0	0.4	1.3	1.0	0.3	0.2	1.3	1.1	2-4	1.8
Nadia		2.0	2.2	1.0	1.0 .	1.3	1.0	1.0	0.2	1.1	1.0	1.8	1.7
Murshidabad .		2.0	2.2	1.8	1.7	2.3	2.1	1.3	1.4	1.7	1.5	2.3	2.2
Malda .		2.0	2.1	2.0	1.7	1.7	1.4	3.1	3.1	1.1	1.0	1.3	1.0
West Dinajpur .		1.6	1.5	2.2	2.2	2.0	· 1·2	1.5	1.5	1.0	1-0	1.5	1.8
Jalpaiguri .		1.3	1.0	1.0	1.2	1.6	1.0	1.0	1.0	1.0	1.0	1.0	0.5
Darjeeling .		3.5	1.5	2.7	1.0	2.2	1.0	3-1	0.4	8-2	2.2	8.5	1.0
Cooch Behar			••					• •	••			••	
•			1946	<u> </u>	1947		19			1949	.		950
		Male	Femal e	Mal	e Fe	male	Male	Female	Male	Fen	nale	Male	Female
West Bengal .		2.7	3.0	2.5		2-6	2.8	3.0	3.1	3.		3.0	3.1
Burdwan		2.2	2.5	2.1		l•8	2.0	2·1	2.6	3.		1.6	2.9
Birbhum	•	1.0	1.4	1.9		l·8	1.8	1.7	2.3	1.0		1.7	1.2
Bankura		3.2	2.9	2.5		2•1	2.2	2.1	3.1	3.		8.0	2.2
Midnapur	•	1.3	1.9	1.6		l• 3	1.7	. 1.8	2.0	1.0		1-6	1.2
Hooghly .		4.1	6.4	5.6		ŀ 9	6-4	5.9	5-6	7:		5·1	7.0
Howrah	•	5-4	7.3	4.5		∔ -6	4-4	4.6	4.2	4.		7·1	7.4
24-Parganas .	•	4.8	5.9	3.3		5-1	3•6	5.2	4.3	7.1		5-2	5-4
Calcutta .	•	2.4	1.4	2.0		2-3	2.5	2.3	3·1	2.		2.5	2·1
Nadia	•	3.0	3.0	3.2		2-5	2·1	4.8	4.0	5-0		3.8	5.8
Murshidabad .	•	1.6	2.4	2.1		3-1	3.9	3.2	2.1	8-		2.8	3.9
Malda .	•	2.0	1.6	2.9		1.6	2.9	3.1	2.4	4-9		1.9	8.2
West Dinajpur .	•	1.0	1.8	1.4		l·7	1.6	1.7	2.2	1-1		2.2	1.0
Jalpaiguri .	•	3.7	1.7	1.0		l·0	1.4	1.0	1.3	1-		1.0	1.0
Darjeeling .	• •	3.4	۰۰ 1۰0	3.2	٠. 2	2.2	4.3	2.3	6.9	. 8.	9.,	8-9	1.2
Cooch Behar .	•	••	••	••		••	••	••	••	••		••	••

TABLE 17.8 DEATH RATE FROM "CHILD BIRTH" PER 1,000 FEMALE DEATHS FROM ALL CAUSES, 1941-50

			Average for					
			1941-50	1941	1942	1943	1944	1945
						-010	2011	1940
West Bengal	_		16.5	20.5	20.1	10.0	10.4	
Burdwan .	:	:	16.2	20.1	20·1 19·5	10.0	10.4	15.0
Birbhum .	•	•	11.0	17.5	19.5	11.4	8.5 -	13.9
Bankura .		•	13-0	18.3	16·9	8.2	5.3	9.4
Midnapur .	•	:	17.9	26.0	22·4	9.2	7.5	11·3 ·
Hooghly .	•	:	20.3	27·1		8-9	11.3	18.7
Howrah .	•	•	11.2	19.7	27.7	. 18-1	15.1	14-2
24-Parganas	•	•	14·2		15-2	9.9	10-1	11-2
Calcutta .	•	•	9.9	18·5 3·5	17.7	14.2	. 8·1	13.3
Nadia .	•	•	11.0		2.9	1.6	8-9	11.2
Murshidabad	•	•	8.3	6-6	4.3	4.2	7.0	11-4
Maida .	•	•	16.8	6.7	9.2	3.6	5.4 .	8-0
West Dinajpur	. •	•		23.6	36-3	16-4	10-4	12-9
Jalpaiguri	•	•	34-0	35.9	38.0	35-8	22.9	30-5
	•	•	51.5	63.7	57·2	37-3	29-5	38-0
Darjeeling	•	•	23.8	23.5	29-2	21.0	18-5	23-0
Cooch Behar	•	•	••	• •	••	••	••	
						•		
			1946	1947	1948		1949	1950
							2010	# 800
West Bengal			19-1	16-6	21-1			
Burdwan .			16-8	17.0	19-6		22.5	J6-7
Birbhum .	-		9-6	9-1			22-8	16-4
Bankura	:	•	17-0	13.0	15.6	**	15-0	8-1
Midnapur .	Ξ	•	22.8	18.7	13.3		15-9	11.9
Hooghly .	-	•	20.6	18.5	22.6		20-5	19-4
Howrah	:	- :	13.8	8.3	24.2		23-6	18-1
24-Parganas	:	•	16.4		10-9		10-4	6.3
Calcutta .	-	•	15-0	14.2	17-7		19-3	14-8
Nadia	•	•	14.3	9-1	15.2		17·6	12.1
Murshidabad	-	•	8.3	12.7	23.1		22· 4	13.8
Maida .	•	•	14·3	8.7	16.5		13-0	12.2
West Dinajpur		•	34·8	19.2	19-9		22-9	13.7
Jalpaiguri	•	•	60·7	3 5·2	39-4		15.5	29-1
Darjeeling	•	•		52.8	62-3		78-2	56.2
Cooch Behar	:	•	23-4	26.7	24.2		23- 6	16-2
Annua remit	•	•	••	••	••		••	
					**		••	••

TABLE 17.9

DEATH RATE FROM "MALARIA" PER 1,000 DEATHS FROM ALL CAUSES BY SEX, 1941-50

				enare for H1-60	1	1941	_	1942	1	943	1	1944	1	1945
			Male	Female	Male	Female	Male	Female	Male	Temale	Male	Female	Male	Female
West Bears!			231.7	246-6	213-5	232-4	236-5	253-4	264-1	276-9	279-9	299-0	267-7	2:45-1
Runtwee .			306-1	335-5	338- 5	3:6-4	3:36-6	343.0	414-8	442-3	479-7	507-8	350-7	391.7
Kirbhem .			445-8	4-57-L	317· 3	348- 6	330-6	3447	511· 3	540-3	634-4	654-0	603-9	613-4
Benkura .			2119-6	232-1	204.3	231.7	198-7	240-5	270-6	309-2	230-0	276-3	175-4	200-4
Midneyer .			244-8	245-0	249-2	2×3-0	248-7	273-5	299-3	314.6	321-0	344-2	266.2	292.5
Honghly .			212-4	236-9	23 9-0	209-2	246-0	276-5	265-4	292-8	270-4	288-3	196-4	218-6
Howrah			96-7	97-9	30-5	82-6	45-8	43-1	94-6	84-5	105-6	107.5	97-4	102.2
24-Parvages			129-1	134-0	90-2	100.9	116-7	130-6	148-5	156-6	161-4	171-7	132.2	145-1
(alretta			40-6	84-6	16-2	13-7	52-5	42-8	50-8	40.9	74-6	64-6	47.5	40.0
Radia .	-		827-7	317 -9	213-1	206-3	309-8	324-8	195-0	164-4	161-9	138-6	335-6	264-2
Murshidabed			394-5	402.5	441-9	475-9	369-5	359-5	391.0	367-4	506.2	516.7	566-5	579-4
Malda .		-	342-5	839-7	856-8	366-2	649-9	345-2	579-9	615-9	241.9	261.7	278-4	242.0
West Dinaiper	Ĭ.	-	215-2	222.5	225· 2	233-8	843-4	329-0	308-3	337-2	203-3	204-5	238-4	248-2
Jalpaireri	•	- :	194-9	189-4	205-6	205-1	191-6	193-3	168.3	166-3	151-8	156-1	214-9	226-1
Darieeling	•		247-6	220-7	249-3	214-4	258-8	238-5	284.7	261-5	815-8	291-6	283.9	250-7
Cooch Bebar	•	•					. ••				•••	2010	200.9	250-1
				1946		1947		104	۵					
					· ~			194	<u> </u>		1949		19	50
		-	Male	· Female	, M	ale	Female ·	Male -	Female	Male	Fe	male -	Male	Female.
West Bencal			240-6	253-6	20		220·6	192-8	205-1	199-2	21	6.7	157-6	167-4
Burdwan .			199-3	225· 4	. 19		219-3	215.2	239-1	219-6	25	4.3	161-6	178-8
Birthum			479-9	490.9	. 43:		444-2	860.0	366-9	426-1	45	1.2	367-8	849-4
Hankure .			157-6	103.2	19		213.2	189.3	216-8	213-9	24	4.4	182-1	213 8
Midnetel .			2:23:1	252-7	20		227·9	203.4	222.5	173.7	19	5-4	142-9	165 0
Houghly .			169-8	193-4	18		202-7	186-4	214.9	190.7	21	8-7	131-6	159-1
Howrah			116-0	116-1	104		111.8	116· 5	127-8	134.5		8.7	80.4	69-6
24-Pargames	_	• -	149-5	152-8	100		111-9	114-1	115.7	113.7		7.7	101.9	104.0
(alcutta			40.7	87-6		5-4	32.4	30.7	29-4	82· 2		4-8	20.8	18.6
Nadia .	-		535-4	643-1	. 461		476-2	448-4	450.2	447-9		0.6	871 7	880-8
Murshidabad	-	:	828-2	831.7	80		317.2	291.5	302-4	321-1		7.8	244.7	254-4
Makia .	-	-	845-9	846-2	82	3.7	334-5	300.3	286-8	840-8		6.5	820.5	322.6
West Dinaipur	-		246-6	804-7	186)·9	190-5	186-9	196.2	111.2		6.8	93.0	96.6
Jaipakrari	•	:	236-6	237-8	197		208-4	196.2	192-4	183.9		1.8	144-9	137-6
Darreling	•	•	258-7	227-2	24	5-2	214.8	196.5	159-6	166.9		8.1	166-5	151.2
Part has seeds	•	•											~ · · · · ·	AUL Z
Cooch Hehar	-	_	• •				••	P4 .	•	- 94		-		. 🕶

TABLE 17.10

DEATH RATE FROM "KALA-AZAR" PER 1,000 DEATHS FROM ALL CAUSES BY SEX, 1941-50

				age for 11-50	194	11	· ,	1942	19	943	19	244		1946
• *			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Breggi			8-2	4-7	5-1	8-9	6.2	3.9	3.6	2.7	8.9	2.8	6-4	4.6
Burdwan .			4-5	3-4	2.6	1.7	2·1	2.0	2.0	1.1	1.6	1.1	2.5	1.7
Birbhum .			-6	•5	-2	-4	· •3	-8	•1	•2	·1	-1	• •8	06
Hankura			-4	•2	-4	-6 `	-2	-8	•4	-2	-3	-2	•1	•2
Midnapur.			-7	-8	-6	-8	•2	•2	•2	-05	-8	-1	4	-2
Hunghly .			10-0	7-1	8.0	5 -1	6.2	4-8	-7	-6	5.8	3.6	8-9	4.9
Howrah .			2.1	1-6	1-4	2.0	-8	• • • • •	2.4	2.7	1.1	.9	1.8	-8
24-Parranas	:		4-1	3-0	5-0	2.8	4.8	8.5	2.5	1.9	2.6	2.0	8.8	2.7
(alcutta .			6-6	6-6	4-8	2.9	4.5	8.0	8-4	2.6	5.0	8-8	. 7.4	5-2
Nedia .	:	•	6.7	4.1	6.8	6.0	4.6	2.9	8.8	2.8	3.9	8.0	6.4	· 5-8
Murebidabed	•	- :	8-5	6-1	7.7	6-3	8-5	7.2	4.7	8.2	6.5	4.0	11.8	8.9
Maida .	•	•	1ĭ·ĭ	Ď.Ť	13-0	13-4	19-0	13.9	15.7	13-6	5.8	8.5	8.8	6.9
West Dinaipur	•	•	46-5	25-7	82.0	28-1	89-7	27-8	46.7	31-1	25.3	18.5	42.8	26-4
Jaipakeuri	•	•	6-0	4.9	8.6	2.7	4.4	8.0	4.8	2.8	3.6	2.9	5.6	8.8
Despoins	•	•	19-4	14-4	17-7	11-8	24.3	16.4	25.4	16.9	21.8	19-4	17.4	17.1
Cooch Hebs?	•	•			•								-	
COVIE DIES	•	•	•• .	••	••	••	••	••	•••	••	•••		• ••	••
				1946		1947		19-	48		1949		, 198	. 0
			Male	Female	Male	, F	emale	Male	Female	Male	Fem	ماه	Male	Female
West Bengal			8-4	6-1	9-2		6-6	8-6	4.4	7.7	6-2		6-1 .	5 ·1
Burdwas	:	•	5-0	4-8	6-9		4-8	8-6	6.8	9.7	6-2		6.9	5-8
Birbhem	•	•	-3	-1	- 7		-6	1.6	1.4	1.4	1.2			. 8
Posters .	•	•	- 3	·i	- 4		-07	1.6	^-ō	-4	1.8			• • • • • •
Midnapur .	•	•	.,	4	-8		·ž	4	·ĭ	1.5	1.1		1.6	-9
Hooghly	:	•	12-0	8-1	13-6	1	3-2	16-3	12-0	18.8	13-4		14-4	12-2
Howresh .	•	•	14	1-0	2.8		1.9	2.1		4.8	8.4		2.6	1.9
24-Parcage	•	•	4-1	2-4	1.1		8-0	5-5	8-5	5-6	4-8		4.5	4.7
(alrella .	•	•	10-6	7-6	8-6		6·7	9-4	9.8	7.8	8-5		å·2 .	4-8
Redia .	•	•	10-6	7-5 5-8	8.7		7·1	6.5	8.6	4.4	3.0		4.5	4.4
Mershidabad	•	•	12-2	9-2	10-7		8·7		5-9	6.9	4-8		64	4.1
Maida .	•	•	11-0	**	17.2		1·1	10-2 13-9	8.7	10-6	8-6		8-5	7-1
West Dinaipus	. •	•	7-6		72-2		1.1		52.2	46.7	41-6		37.5	32-4
	•	•		50-5	12-6			63-5	7:7	7.4	6-4		3.4	32-4 3-4
Jelpaireri	•	•	9-1	. • 1			9-2	8-9			7-4			
I har proling	•	•	14-8	16-6	20-6		5-8	16-8	14-4	14-7			11.5	6-()
Quech babbl	٠	•	••	. ••	••		•	••	**	••	••	•	* • • *	••

TABLE 17.11

DEATH RATE FROM "TUBERCULOSIS OF THE LUNGS" PER 1,000 DEATHS FROM ALL CAUSES, 1941-50

Male . 21-5 21-4 . 10-7 . 21-7 . 21-7 . 26-0 . 34-7 . 19-5 . 58-6 . 5-8	1-50	16·2 7·5 5·5 5·9 3·3 12·0 27·9	Male 24.0 24.1 14.9 24.7 11.2 29.5 42.3 22.6	942 Female 14·2 7·1 4·1 6·3 2·9 13·7	Male 14-4 14-9 6-5 11-4 5-2	Female 8.0 4.7 1.6 2.8 1.1	Male 15-9 14-9 6-6 16-7 8-7	Female 9-2 4-7 2-0 4-9	Male 19-7 18-6 10-8 23-6	Female 11.0 4.4 2.5
21·4 . 10·7 . 21·7 . 11·7 . 26·0 . 34·7 . 19·5 . 58·6 . 5·8	6.0 23.9 2.7 19.5 5.8 23.8 2.6 13.0 10.2 32.8 19.5 39.7 9.4 21.4 65.4 75.8	7·5 5·5 5·9 3·3 12·0 27·9 10·4	24·1 14·9 24·7 11·2 29·5 42·3	7·1 4·1 6·3 2·9 13·7	14-9 6-5 11-4 5-2	4·7 1·6 2·8	14·9 6·6 16·7	4·7 2·0 4·9	18-6 10-8	4·4 2·5 .
21·4 . 10·7 . 21·7 . 11·7 . 26·0 . 34·7 . 19·5 . 58·6 . 5·8	6.0 23.9 2.7 19.5 5.8 23.8 2.6 13.0 10.2 32.8 19.5 39.7 9.4 21.4 65.4 75.8	7·5 5·5 5·9 3·3 12·0 27·9 10·4	24·1 14·9 24·7 11·2 29·5 42·3	7·1 4·1 6·3 2·9 13·7	14-9 6-5 11-4 5-2	1.6 2.8	6·6 16·7	2·0 4·9	10-8	2.5 .
. 10·7 . 21·7 . 11·7 . 26·0 . 34·7 . 19·5 . 58·6 . 5·8	2.7 19.5 5.8 23.8 2.6 13.0 10.2 32.8 19.5 39.7 9.4 21.4 65.4 75.8	5·5 5·9 3·3 12·0 27·9 10·4	14.9 24.7 11.2 29.5 42.3	4·1 6·3 2·9 13·7	11·4 5·2	2.8	16.7	4.9		
. 21·7 . 11·7 . 26·0 . 34·7 . 19·5 . 58·6 . 5·6	5.8 23.8 2.6 13.0 10.2 32.8 19.5 39.7 9.4 21.4 65.4 75.8	5·9 3·3 12·0 27·9 10·4	24·7 11·2 29·5 42·3	6·3 2·9 13·7	5.2				23.6	4.8
. 11·7 . 26·0 . 34·7 . 19·5 . 58·6 . 5·6	2·6 13·0 10·2 32·8 19·5 39·7 9·4 21·4 65·4 75·8 1·4 4·6	3·3 12·0 27·9 10·4	11·2 29·5 42·3	13-7		1.1	0.7			
26·0 34·7 19·5 58·6 5·6	10·2 32·8 19·5 39·7 9·4 21·4 65·4 75·8 1·4 4·6	12·0 27·9 10·4	29·5 42·3	13-7				1.9	11-7	2.6
34·7 19·5 58·6 5·6 5·8	19.5 39.7 9.4 21.4 65.4 75.8 1.4 4.6	27·9 10·4	42.3		24.0	9.2	21.7	7-6	20-5	9-1
. 19·5 . 58·6 . 5·6 . 5·8	9·4 21·4 65·4 75·8 1·4 4·6	10.4		26.5	23.8	13.2	27.0	13.6	38.4	19.7
. 58-6 . 5-6 . 5-8	65·4 75·8 1·4 4·6			9.7	11.2	4.8	12.5	6.2	19-2	10-1
. 5·6 . 5·8	1.4 4.6		82.8	103.6	47.2	50.5	48.9	53⋅8	56.7	61-4
. 5.8			3.7	1.5	2.8	1.0	8.9	1.2	5.1	1.0
	1.3 5.8		5.8	1.8	2.5	0-6	5.3	1.0	6.1	1.2
					3.4	1.2	1.9	0.6	2.2	•1
						1.9	4.9	1.5	4.2	2.1
							12.3	6.8		8.9
								44.4		44-1
•										•
• ••		••			• •	-		•	**	
	1946	1947			1948		194	9	1	950
Male	Female	Male	Female	Male	Femal		Male .	Female	Male	Female
99,9	19.9	94.B	14.4	26.3	15.8	•	27-1	15.6	26-5	16-4
										7.3
10.0										2.9
										8.4
14.1										4.8
04.0										11.2
										16.7
										13.0
										55.9
										1
										1.7
										0.5
									9.9	1.9
										32.8
-	99.8				4 -					51.9
• ••		• •	••	••	. • •		••	• • •		• •
	Male 22·2 53·2 Male 22·2 23·9 10·8 24·5 24·6 12·4 8 33·8 23·7 70·9 5·9 5·2 2.8 6·1 17·1 42·0	3·3 1-1 2-7 5·8 2-1 6-5 5·8 2-1 6-5 5·8 2-1 6-5 5·8 2-1 6-5 5·8 2-1 6-5 5·8 2-1 6-5 1946 Male Female 22·2 12·3 23·9 6-5 10·8 2·4 24·5 4·9 14·1 2-5 24·5 4·9 14·1 2-5 23·7 11·6 70·9 73·8 5·9 1·4 5·2 1 6·1 2·1 1·1·1 10·4 42·0 55·8	\$\frac{3}{5\cdot 8}\$ \frac{1}{2\cdot 1}\$ \frac{2\cdot 7}{6\cdot 5}\$ \frac{2\cdot 6}{2\cdot 6}\$ \frac{2\cdot 6}{2\cdot 6}\$ \frac{10\cdot 1}{2\cdot 6}\$ \frac{10\cdot 1}{2\cdot 6}\$ \frac{10\cdot 1}{2\cdot 6}\$ \frac{10\cdot 1}{2\cdot 6}\$ \frac{10\cdot 6}{2\cdot 6}\$ \frac{10\cdot 6}{2\cdot 6}\$ \frac{24\cdot 6}{2\cdot 6}\$ \frac{4\cdot 9}{2\cdot 4}\$ \frac{13\cdot 7}{2\cdot 6}\$ \frac{2\cdot 4}{2\cdot 6}\$ \frac{4\cdot 9}{2\cdot 9}\$ \frac{13\cdot 7}{2\cdot 6}\$ \frac{2\cdot 4}{2\cdot 9}\$ \frac{2\cdot 1}{2\cdot 6}\$ \frac{2\cdot 6}{2\cdot 2}\$ \frac{13\cdot 7}{2\cdot 6}\$ \frac{2\cdot 6}{2\cdot 9}\$ \frac{2\cdot 1}{3\cdot 7}\$ \frac{2\cdot 6\cdot 9}{2\cdot 7}\$ \frac{2\cdot 6\cdot 9}{2\cdot 7}\$ \frac{7\cdot 6\cdot 9}{2\cdot 2}\$ \frac{1}{2\cdot 1}\$ \frac{3\cdot 4}{2\cdot 9}\$ \frac{1}{2\cdot 1}\$	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	\$\frac{3}{5\cdot 8}\$ \$\frac{1}{2\cdot 1}\$ \$\frac{2}{6\cdot 5}\$ \$\frac{2}{2\cdot 6}\$ \$\frac{1}{6\cdot 5}\$ \$\frac{2}{6\cdot 6}\$ \$\frac{1}{6\cdot 6}\$ \$\frac{1}	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	\$\frac{3\cdot 3}{5\cdot 8}\$ \frac{1\cdot 1}{2\cdot 1}\$ \frac{2\cdot 6}{6\cdot 6}\$ \frac{1\cdot 9}{2\cdot 6}\$ \frac{1\cdot 6}{2\cdot 6}\$ \frac{1\cdot 9}{2\cdot 6}\$ \frac{1\cdot 6}{1\cdot 9}\$ \frac{1\cdot 6}{1\cdot 6}\$ \frac{1\cdot 9}{2\cdot 6}\$ \frac{1\cdot 6}{1\cdot 9}\$ \frac{1\cdot 6}{1\cdot 6}\$ \frac{1\cdot 9}{2\cdot 6}\$ \frac{1\cdot 6}{1\cdot 9}\$ \frac{1\cdot 6}{1\cdot 6}\$ \frac{1\cdot 9}{4\cdot 6}\$ \frac{1\cdot 4}{4\cdot 6}\$ \frac{4\cdot 7}{4\cdot 6}\$ \frac{1\cdot 4}{4\cdot 6}\$ \frac{1\cdot 9}{4\cdot 6}\$ \frac{1\cdot 4}{4\cdot 6}\$ \frac{1\cdot 9}{4\cdot 6}\$ \frac{1\cdot 4}{4\cdot 6}\$ \frac{1\cdot 4}{6\cdot 6}\$ \frac{1\cdot 4}{2\cdot 6}\$ \frac{1\cdot 4}{4\cdot 4}\$ \frac{2\cdot 6}{2\cdot 3}\$ \frac{1\cdot 5}{1\cdot 8}\$ \frac{2\cdot 6}{2\cdot 4}\$ \frac{1\cdot 4}{9\cdot 4}\$ \frac{2\cdot 2}{2\cdot 1\cdot 1\cdot 4}\$ \frac{3\cdot 7}{3\cdot 1}\$ \frac{1\cdot 4}{3\cdot 7}\$ \frac{2\cdot 1}{3\cdot 4}\$ \frac{3\cdot 7}{3\cdot 7}\$ \frac{2\cdot 1}{3\cdot 1}\$ \frac{6\cdot 7}{3\cdot 7}\$ \frac{2\cdot 1}{3\cdot 1}\$ \frac{6\cdot 6}{3\cdot 7}\$ \frac{6\cdot 6}{3\cdot 1}\$ \frac{6\cdot 6}{2\cdot 6}\$ \frac{6\cdot 6}{3\cdot 7}\$ \frac{6\cdot 6}{3\cdot 1}\$ \frac{6\cdot 6}{3\cdot 6}\$ \frac{6\cdot 6}{3\cdot 7}\$ \frac{6\cdot 6}{3\cdot 1}\$ \frac{6\cdot 6}{3\cdot 6}\$	\$\frac{3\cdot 3}{5\cdot 8}\$ \$\frac{1\cdot 1}{2\cdot 1}\$ \$\frac{2\cdot 7}{6\cdot 5}\$ \$\frac{2\cdot 6}{6\cdot 5}\$ \$\frac{1}{2\cdot 6}\$ \$\frac{5\cdot 2}{6\cdot 6}\$ \$\frac{1}{2\cdot 6}\$ \$\frac{1}{4\cdot 2}\$ \$\frac{1}{4\cdot 6}\$ \$\frac{1}{4\cdot 6}\$ \$\frac{1}{4\cdot 2}\$ \$\frac{1}{4\cdot 4}\$ \$\frac{1}{4\cdot 2}\$ \$\frac{1}{3\cdot 4}\$ \$\frac{1}{4\cdot 3}\$ \$\frac{1}{4\cdot 7}\$ \$\frac{1}{4\cdot 2}\$ \$\frac{1}{4\cdot 4}\$ \$\frac{1}{4\cdot	\$\frac{3\cdot 3}{5\cdot 8}\$ \frac{1\cdot 1}{2\cdot 1}\$ \frac{2\cdot 6}{6\cdot 5}\$ \frac{2}{2\cdot 6}\$ \frac{5\cdot 2}{5\cdot 2}\$ \frac{3\cdot 4}{3\cdot 6}\$ \frac{6\cdot 6}{6\cdot 1}\$ \frac{1\cdot 9}{4\cdot 9}\$ \frac{1\cdot 6}{1\cdot 9}\$ \frac{1\cdot 6}{4\cdot 9}\$ \frac{1\cdot 6}{2\cdot 1}\$ \frac{1\cdot 9}{2\cdot 9}\$ \frac{1\cdot 6\cdot 6}{1\cdot 9}\$ \frac{1\cdot 6\cdot 6}{4\cdot 9}\$ \frac{1\cdot 2}{2\cdot 2}\$ \frac{1\cdot 9}{4\cdot 4}\$ \frac{1\cdot 4}{4\cdot 6}\$ \frac{4\cdot 9}{4\cdot 2}\$ \frac{1\cdot 2}{4\cdot 3}\$ \frac{1\cdot 4}{4\cdot 4}\$ \frac{1\cdot 2}{4\cdot 1}\$ \frac{1\cdot 9\cdot 0}{4\cdot 4\cdot 6}\$ \frac{1\cdot 9\cdot 0}{4\cdot 4\cdot 6}\$ \frac{1\cdot 9\cdot 2}{4\cdot 6}\$ \frac{1\cdot 4\cdot 4}{4\cdot 4}\$ \frac{1\cdot 9\cdot 2}{4\cdot 6}\$ \frac{1\cdot 4\cdot 4}{4\cdot 4}\$ \frac{2\cdot 6\cdot 3}{2\cdot 1}\$ \frac{1\cdot 5\cdot 3}{6\cdot 6}\$ \frac{2\cdot 7\cdot 1}{2\cdot 1}\$ \frac{1\cdot 6\cdot 6}{6\cdot 2}\$ \frac{2\cdot 7\cdot 1}{2\cdot 1}\$ \frac{1\cdot 6\cdot 6}{6\cdot 2}\$ \frac{2\cdot 2\cdot 2}{2\cdot 6\cdot 6}\$ \frac{1\cdot 4\cdot 3}{2\cdot 2}\$ \frac{1\cdot 6\cdot 6}{6\cdot 2}\$ \frac{1\cdot 6\cdot 6}{6\cdot 2}\$ \frac{2\cdot 4\cdot 6\cdot 9}{6\cdot 9}\$ \frac{1\cdot 1\cdot 2\cdot 2}{2\cdot 1\cdot 3}\$ \frac{1\cdot 5\cdot 9}{2\cdot 2\cdot 4\cdot 6\cdot 9}\$ \frac{1\cdot 1\cdot 2\cdot 9\cdot 2\cdot 6\cdot 9\cdot 7\cdot 2\cdot 3}{2\cdot 1\cdot 1\cdot 7\cdot 2\cdot 6\cdot 9\cdot 7\cdot 2\cdot 3}\$ 1\cdot 1\cdot 7\cdot 2\cdot 6\cdot 6\cdot 2\cdot 7\cdot 6\cdot 0\cdot 6\cdot 2\cdot 2\cdot 6	\$\frac{3}{5\cdot 8}\$ \frac{1}{1\cdot 1}\$ \frac{2}{6\cdot 5}\$ \frac{2}{2\cdot 6}\$ \frac{1}{5\cdot 2}\$ \frac{3}{3\cdot 4}\$ \frac{6}{6\cdot 6}\$ \frac{1}{9\cdot 9}\$ \tau \frac{1}{9\cdot 6}\$ \frac{1}{9\cdot 7}\$ \frac{1}{3\cdot 1}\$ \frac{1}{3\cdot 7}\$ \frac{1}{3\cdot 1}\$ \frac{1}{3\cdot 7}\$ \frac{1}{3\cdot 1}\$ \frac{1}{3\cdot 6}\$ \frac{1}{9\cdot 9}\$ \frac{1}{3\cdot 1}\$ \frac{1}{3\cdot 6}\$ \frac{1}{9\cdot 7}\$ \frac{1}{3\cdot 6}\$ \frac{1}{3\cdot 7}\$ \frac{1}{3\cdot 6}\$ \frac{1}{3\cdot 6}\$ \frac{1}{3\cdot 6}\$

TABLE 17.12

DEATH RATE FROM "SNAKE BITES" PER 1,000 DEATHS FROM ALL CAUSES BY SEX, 1941-50

				age for 41-50	19	41		1942	. 1	943	1	944	:	1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			3.9	8.7	4.8	4.3	4.7	4.6	2.2	2-1	2.8	2.8	8.5	3⋅6
Burdwan .	•	•	4.9	4.2	7-1	4.5	6-1	5.0	2.9	3.9	3.4	3.3	4-1	4.0
Birbhum .			2.5	2.6	3.6	2.6	4.5	4.1	1.8	2.1	1.8	-2.0	2·1	3.0
Bankura .		•	4.2	4.2	5.1	5.7	4.9	5.2	2.7	2.9	3.7	3.6	3.4	3.8
Midnapur .			5.1	4.1	5.4	4.7	5.7	4.5	1.9	1.5	4.0	4.2	5-6	4.6
Hooghly .			6.1	5-4	8.7	8.7	4.9	7.2	5.6	5-6	3.7	4.4	5.5	4.9
Howrah .			2.5	2.1	3.4	1.8	3.9	3.5	1.3	1.2	1.8	1.5	2.2	1-6
24-Parganas			5∙8	5.1	7-2	6.6	8.3	7.3	2.9 .	3.0	3.7	3.4	5.5	4.2
Calcutta			0.4	0.2	•••	• • •	•2	-09			0.4	0-1	·4	~ī
Nadia .	:		4.0	4.5	4.4	3-4	2.9	4.2	2.5	2.0	3.4	2.9	3.2	4.7
Murshidabad	:		3.6	4.6	4.5	6.1	3.5	3.2	ī.š	1.3	2.8	2.8	3.5	5.3
Malda	•	-	5.2	6.1	6.2	7.0	9.2	12.9	4.4	2.2	3.1	2.2	3.7	4.2
West Dinajpur	:	•	4.3	5.8	3.5	3.5	5.4	6.0	5.2	6.6	3.9	3.8	3-2	5.3
Jalpaiguri	•	•	î.ř	1.2	1.7		1.9	1.3	1.0	8	·.7	.7		•7
Darjeeling	•	•	<u>;</u>	-6	- 9	·7	3	-4	5	٠,	-5	-5	13	.9
Cooch Behar	•	•	_	••	-	•	-	_	-5	-	.0	-	-	•9
COOCH DUM	•	•	••	. ••	••	••	••	••.	• •	••	••		••	•••
		•	1	946	`	1947		1948	 I	•	1949	•	195	υ
			Male	Female	Mal		emale	Male	Female	Male	Fem	ale	Male	Female
West Bengal	_		4.2	4.4	4.5		4.2	4.8	4.1	4-6	4-:			
Burdwan	-	:	4 6	4.6	4.6		4.2	5.4	3.8	5.7	4.		4.5	4.4
Birbhum .	•	•	1.7	1.8	2.2		1.3	3·3		3.3			5-8	4.8
Bankura	•	•	4.8	6.1	4.6		4.6		3.3	4.2	3.		3-1	. 3⋅5
Midnapur .	•	•	5.8	5.9	6.4		4.0	4.5	4.6		4.		4.9	5.1
Hooghly	•	•	6.2	7-6	6.8		5.7	8·1 6·5	5.2	6.5	4.		6-1	4.7
Howrah	•	•	3.3	2.6	3.3				3.8	6.7	5.		7.0	6-9
24-Parganas	•	•	3·3 7·1	7·1			2.5	2.2	2.4	2.2	2-1		2.6	2.6
Calcutta .	•	•	·.7		8.1		5.7	6.5	4.6	6-6	5-8		7.5	6.5
Nadia .	•	•		.2	-3		.1	-6	-08	1.0	•		-3	-2
Murshidabad	•	•	4.8	8.9	5.7		8.3	4.6	6.7	5.6	5-7		5-5	6.3
Maida .	٠.	•	4.1	4.9	4.0		6.4	6.1	6.8	3.7	6-8		4.7	7-4
	٠.	•	4.5	7.1	5-6		8-8	6-7	9-0	7-0	7-4		6-4	8-1
West Dinajpur	•	•	4.0	5-7	5.0		6-1	4.7 ,	7.3	5.0	7⊀		4-1	6.9 ·
Jalpaiguri	•	•	1.3	• 3	2-1		1.2	2.3	1.9	2.7	2-	6	2.1	2.4
Darjeeting	•	•	1.0	-2	. •6	i	•5	-6	1.4	•.±9 ∴		2	-8	-5
Cooch Behar	•	•	••					••						
	•					•	•	•	•	•			. ==	•••

APPENDIX A

A brief account of the history of Vital Statistics in West Bengal

The maintenance of genealogical trees in important families is an ancient feature in our country and these trees may be regarded as our only surviving account of vital statistics before compulsory registration was introduced. They recorded births, marriages and deaths but, as can be readily concluded, they were imperfect and did not record dates in most cases. Records of marriages and deaths among Muslims have been handed down to us from the offices of Qazis and Imams but these, too, in the nature of things, were bound to be incomplete because not all marriages and deaths were entered even among important families.

The history of the Census and Vital Statistics in India has followed that in England. In 1936-37 an Act requiring registration of births, First steps marriages and deaths was promulgated in England. As a consequence, quarterly returns of births, marriages and deaths of European-British subjects then residing in India were collected from Ministers of all denominations and transmitted to the Registrar General in England. At this time and subsequently the registration of these events was confined to Calcutta. Later, an Indian Act VI was passed in 1886 by which registration of births, deaths and marriages of Europeans was made obligatory and the transmission of their returns to the Registrar General of England was regularised. This still holds good to-day in all States of India.

In Bengal, the years 1864-69 saw the beginnings of registration. A census of the British territories in India was to have been taken in India in 1861 but was deferred in consequence of the Mutiny till 1865. Various administrative ing 1864-69

inconveniences prompted Sir Cecil Beadon in May 1865 to urge upon the Supreme Government the expediency of reviving the project for taking a census of all India. A census of the North Western Provinces was taken in 1865 by Plowden and an exploratory census of Bengal by Beverley in 1866-7. An authoritative census of the Province of Bengal was taken in 1872 which marked the first of a series of decennial censuses thereafter. In 1864 an Act (No. III) was passed to provide for the first time a fairly comprehensive and elaborate code for muffasil municipalities of Bengal but no provision was made for taking a census or registering births and deaths in them. In 1867 the Government of India suggested the collection of mortuary returns "approximately accurate and such as would be at least valuable as a commencement of statistics ".

There were no census returns at this time with which births and deaths even if they were accurate could be compared but the local Government decided that death returns should be procured through municipalities where they existed and through village choukidars and the Police elsewhere. Orders to this effect were issued in 1868. Chaukidars were to make weekly or bi-weekly reports to Police Stations and the registers prepared at these stations were to be forwarded to the District Superintendent's office for compilation and submission to the Commissioner.

1875 1874 1870 1871 1872 1873 1876 1869 Year 1868 16.3 17.3 12.2 12.0 10-6 10-7 10-8 13.8 Birth rate per 1,000 of population census 1876 13-1 27.8 26.4 29.4 . 35 30-2 24.4 24 Death rate per 1,000 of population census 1876 . 32 29.8 348 Infant mortality rate per 1,000 births • • . . • •

The establishment of the District Superintendent of Police proved unable to cope with this work and in some districts it was transferred to the District Magistrate. In Chottanagpur many of the choukidars, who were poorly paid, preferred dismissal to the burden of this new duty. In a small area in Hooghly, a Bengali missionary, by house to house visitation, succeeded in compiling statistics which he used to illustrate the devastations of the "Burdwan fever". Two District Magistrates saw to the prospect of accurate statistics being obtained through the chaukidars and advocated compulsory registration such as the Calcutta Municipal Act provided for.

The statistics as a whole were admittedly unreliable, but a mass of information was gradually made available. Nothing was however done towards digesting these statistics, comparing those of different areas, or utilising them. It was decided that the examination and extraction of vital statistics should be entrusted to the Sanitary Commissioner as the Officer on whose duties the practical conclusions drawn from these statistics most directly bear. He was asked to propose simple forms and to group causes of death into the most obvious and easily recognizable classes, of which the destructive symptoms are known and familiar to the rudest villager. After a short trial of the new system it was thought that Government would be in a position to propose legislation on any point on which it might be found necessary and that trustworthy information would be ready for comparison with the census, which was to be taken in 1871. Without a census of course, the real value of these statistics could not be secured.

Before the year 1864, there had been no registration in Calcutta. Under the municipal organisation then introduced, the duty was entrust-Registration of vital ed to Eurasian and Native events in Calcutta Medical Practitioners, six in befor**e** and after number, one in each division of the town. The results were considered unsatisfactory after four years of trial and in 1868 the work was transferred to the Police. Each Section Inspector (there were eighteen sections) became a registrar of births and deaths. Registers were also kept at the burning ghats and burial grounds so that the record of corpses burnt and buried might be used to check the section registers. Returns were furnished from churches, from the garrison, from the shipping office and from some hospitals. These returns were to be duly used for compilation in Calcutta Municipal Office.

In 1875, the law was forcibly brought to the people's notice by beat of drum in Calcutta and the Deputy Commissioner of Police gave much attention to this subject. The Health Officer was responsible for compiling the vital statistics of the town, but did not exercise direct control over the collection of the material, as the Police was in charge of the work. Moreover, the Health Department was inadequately staffed. Despite these circumstances the Health Officer in his report of 1876 gave reasons why the work of registration of Vital Statistics should also pass to his care. The statement of birth and death rates in Calcutta from 1868-1876 as shown below will indicate that the registration, though defective, was showing signs of slow improvement.

The results were far from satisfactory and the whole question was placed before the Government with the object of improving the existing machinery. But the system continued till the Calcutta Municipal Act was passed in 1889 when the work of registration of vital events was restored to the municipal authorities. The revised Act of 1913 made no change in the administration regarding registration of births and deaths in Calcutta.

So much for Calcutta. It soon appeared that the Sanitary Commissioner was unable to devote sufficient

Compulsory Births and Deaths Registration Act of 1873 enforced in urban and rural areas of Bengal by Police attention to this all-important branch of public health work. The Army Sanitary Commission in England commented very severely on the worthlessness of statistics presented in the Sanitary Commissioner's Report for

1872. The Sanitary Commissioner attributed the failure "mainly to bad agency, and secondly to want of interest on the part of local officers and the consequent absence of the necessary supervisors and urged that a compulsory system of registration should be introduced".

The Bengal Births and Deaths Registration Act (Act IV) was passed in 1873. This Act introduced a dual system which provided for the submission of returns from both "general circles" and "selected circles' The returns for the general circles included the selected circles and related to the whole of Bengal. In the "selected circles" whether urban or rural, a higher degree of accuracy was sought to be obtained by the employment of special agencies under closer supervision. The "special circle" was to serve as an example of the manner in which registration ought to be conducted. In modern parlance it would be regarded as a sample area for quality control. In 1877, this system of selected areas was condemned as costing more than it was worth and it was decided to dispense with all special agencies and to collect vital statistics by the same machinery that was employed in the general circles.

Up to 1875, registration of births was undertaken in "selected circles" covering all but four districts. It was attempted for the first time in "general circles" in 1876 and proved a failure. The experiment was abandoned in 1878. Registration of births continued however in a few selected municipalities and in 1880 it was resumed in all first class municipalities and in certain towns. It was in this year that the Compulsory Vaccination Act was passed. By 1881, the Registration Act was in force in 101 towns. Both births and deaths statistics were quite unreliable, births statistics being more so than deaths. In many of these towns voluntary registration was almost unknown, while prosecutions were inadequate.

In 1886 registration of births was extended and a very important change of system was introduced by the Government transferring the Transfer of regisduty of registering both births tration to Municipal and deaths in towns to municiauthorities pal authorities. In many of these towns Act IV of 1873 was actually in force but the local authority had been unwilling to undertake the burden of registration which the police had hitherto borne. In some towns even the registration of vaccination under the Compulsory Vaccination Act (Act V of 1880) was performed by Police. In rural areas the system of registration by the Police of deaths remained unaltered.

The collection and recording of vital statistics, however, continued to be unsatisfactory under municipal

Retransfer of registration in municipalities to the town police 1892

authorities. Records of deaths in municipalitites appeared indeed to be in many cases less trustworthy than those of the rural circles.

The work of registration was, therefore, with effect from the 1st January, 1892, again transferred to the town police and it was directed that the municipal funds thus set free should be applied to the advancement of primary education. Birth registration through agency of the police was at the same time introduced into rural as well as urban areas. This change-over from the local bodies to the Police seemed to effect an overall improvement in registration. In 1896 there were 527 prosecutions, 2,049 convictions, and Rs. 3,155 in fines were realised.

At this time births and deaths were thus registered through the town or village police all over Bengal except the South Lushai Hills, Chittagong Hill Tracts and the district of Angul. The statistics thus collected were from time to time checked by Magistrates, Subdivisional Officers, Police Officers and the Sanitary Commissioner and his subordinates including the superior officers of the vaccination staff. In 1899, the Government of Bengal passed orders so that station masters of all railway stations within the province but outside the municipal towns should be registrars of births and deaths and be responsible for ascertaining and reporting to the Civil Surgeons of their respective districts all births and deaths occurring on all railway lines and lands (including lands occupied by railway employees, etc., whether within or without the jurisdiction of the railway police). Station masters were to register events and send the return to the Civil Surgeon on the first day of every month. The Civil Surgeon was to show these figures separately in the monthly return and submit it to the Sanitary Commissioner. No change of this system was made for several years. During 1906-09 an experiment was made in the Galsi thana (Burdwan) to test the accuracy of rural registration.

In 1909 the Eastern Bengal and Assam Governments took up the question of improvement of registration in compulsorily notifiable areas. The vaccination staff was to check the statistics and a reward of four annas was paid for every conviction obtained. and the whole subject was reconsidered in 1912.

The work of registration lay outside the sphere of the ordinary duties of police, the public disliked going to the thana to report vital occurrences and the work of the police was not directly under the Sanitary Department. For these reasons, with the almost unanimous approval of district officers, registration was again transferred to the municipal authorities on the 1st April, 1913.

In 1916 the health officers of municipalities were made responsible for all round improvement of the registration of vital events and in the next year the Registration Act was extended to the Asansol Mining Settlement. In 1925 station masters of railway stations within a town were made reporters of births and deaths and required to submit their returns to the municipal registrar. In 1929 medical officers of hospitals situated in towns were asked to report births and deaths occurring within hospitals to municipal registrars. The above system of registration was followed in all municipalities and there has been no major change on this point in urban areas of the State.

For the rural areas the work of registration in 1913 was transferred in two subdivisions (Kalna and Chandpur) to the chaukidari panchayets to be assisted by munshi chaukidars and in 1915 this system was extended to Bogra and to the Lalbagh Subdivision. There were thus in 1915 four agencies in Bengal for the registration of vital occurrences, viz.—

- (1) the Police and the village chaukidar (in most rural areas):
- (2) the panchayets with their munshi chaukidars (in certain selected rural areas):
- (3) the municipal staff (in urban areas) and
- (4) the station master of the railway station outside municipal towns.

The above system continued till 1926 when than health circles were established. Health Officers were appointed for each district and sanitary inspectors for public health circles. This procedure became necessary as Civil Sur-

geons could not cope with the work of public health as well as medical duties and, therefore, the public health portion was transferred from the Civil Surgeon to the District Health Officer. The Bengal Births and Deaths-Registration Act, 1873 was now extended to all rural areas in Bengal. Every district was divided into a suitable number of registration units, such as union boards, panchayeti unions, railway stations and thanas. The work of registration was gradually transferred from the police to the hands of local bodies. Presidents of union boards, panchayeti unions, station masters and thana officers were by the District Magistrate appointed local registrars of births and deaths for their respective areas. Every village chaukidar was required to report at the local police station, chaukidari union or union board office, all births and deaths occurring within his beat. Vital statistics were compiled according to the date of occurrence and regionally by thanas and not by subdivisions. The following sequence of dates was prescribed for the submission of vital statistics from one agency to the next:-

- (A) District Boards
- ' (i) Chaukidars to the local registrars-

7th day of the succeeding month.

(ii) Local registrars to Subdivisional Officer-

Not later than the 12th day of the succeeding month.

(iii) Subdivisional Officers to District Health

Officer—
Not later than the 15th day of the succeed-

ing month.

(iv) District Health Officers to Director of Public Health...

Not later than the 20th day of the succeeding month. The submission of district returns through Civil Surgeons was discontinued in 1928.

(B) Municipalities

The Municipal Health Officer, or the Municipal Chairman as the case may be, should forward the returns direct to District Health Officers and not to Subdivisional Officers or Civil Surgeons.

Where the local registrars were than officers, the dafadars were required to collect the chaukidars' hath-chittas and hand them in at the first weekly parade of

the month which the thana officer was required to attend. All registers of births and deaths were preserved in the district room only for a period of thirty years.

Local authorities were entitled to charge for supplying copies of entries in the registers of births and deaths a fee of four annas for each extract in rural areas and eight annas in town. Registers and forms were supplied by Government free of cost. Thana and Circle Officers drew up estimates of annual requirements and sent them to their Subdivisional Officers for transmission to the District Health Officer who distributed the forms on indent from the Forms Department. A chaukidar used Form No. 2990 for births, No. 2998 for deaths and No. 3014 for Epidemic diseases. Bengal Form Nos. 2993 and 2999 were used by local registrars for birth and death registration respectively. Bengal Form No. 2996 was used by Local Registrars for supplying monthly returns and similarly Bengal Form No. 2997 was used by Subdivisional Officers and District Health Officer. For the prompt notification to the Ministry of Health in England of the prevalence of certain epidemic diseases every Tuesday, an innovation was introduced in 1920 requiring a telegraphic summary of the main features relating to the prevalence of plague, small-pox, cholera. influenza in Bengal during the week ending the previous Saturday. This information was supplied to the Government of India by the Director of Public Health. The District Health Officer collected such reports both from urban and rural areas and sent them to the Director of Public Health for the purpose. Incidentally, in 1894 Civil Surgeons used to notify any outbreak or existence of epidemic diseases in their district to their colleagues of neighbouring districts and the system of inter-provincial exchange of epidemic information was introduced in 1922 but since 1926 these functions were assumed by the District Health Officer.

But the compilation of vital statistics caused delay under the system and the matter was discussed at the Divisional Commissioners' Conference in 1931. A new system was adopted in some districts for trial so that registrars were required to submit their monthly returns of births and deaths direct to Sanitary Inspectors who compiled statistics for the thana and forwarded it direct to the District Health Officer and not through the Subdivisional Officer. The dates of submission of vital statistics by one agency to the other were as follows:—

- (a) By chaukidar to local registrars.
- 7th day of the succeeding month.
- (b) By registrars to the Subdivisional Officer or Sanitary Inspectors as the case may be.
- Not later than 12th day of the succeeding month.
- (c) By Subdivisional
 Officer or Sanitary Inspector
 to District
 Health Officer.
- Not later than 17th day of the succeeding month.
- (d) By District Health
 Officer to Director of Public
 Health.
- Not later than 23rd day of the succeeding month.

In the case of municipalities, the monthly vital statistical returns were to be submitted to the District Health Officer not later than the 15th day of the succeeding month. This system continued up to 1943.

After the appointment of Sanitary Inspectors to health circles, local registrars in 1939 were required

to supply every month to Sanitary Inspectors information regarding all births and deaths. This was considered necessary to enable Sanitary Inspectors properly to look after the Sanitary measures of their area. To enable District Magistrates to exercise control over the working of the Bengal Births and Deaths Registration Act in municipal and rural areas, District Magistrates were required to send quarterly reports showing the number of prosecutions, number of convictions, fines realised, etc., under the Act to the Director of Public Health. As a consequence the supervision of the Registration Act seemed to improve in this period.

Ever since the introduction of the system under which the responsibility of registering births and deaths was

Registration transferred from union president to thana Sanitary Inspector 1944 placed upon Presidents of Union Boards, there were repeated complaints that vital statistics were late in reaching the Director of Public Health leading to delay in submitting the

provincial report to the Public Health Commissioner with the Government of India. As Presidents held office in an honorary capacity and for one reason or another were often absent from their unions, the system was considered unsatisfactory. Under orders of the Government, dated the 4th January, 1944, District Magistrates were instructed to cancel the appointment of Presidents of Union Boards as registrars of births and deaths and to appoint the Thana Sanitary Inspectors in their place. The Sanitary Inspectors were asked to attend the fortnightly parades of chaukidars at the thana and take the figures of births and deaths direct from the hathchittas of chaukidars and at once compile the list and forward it to the District Health Officer. As both the Sanitary Inspector and District Health Officer were officers of the Public Health Organisation, they could see that vital statistics returns were compiled and forwarded regularly and punctually thus effecting a considerable saving of time. This change was introduced with immediate effect. Later in July 1945, an additional health assistant was sanctioned to 11 Sanitary Inspectors to help them in compiling vital statistics.

Famine and epidemic had prevailed all over Bengal in 1943. It was the delay in submitting figures to White Hall in 1943 from the former agencies that this change from Union Presidents to Thana Sanitary Inspectors was made. Though the returns were received earlier, they became less representative of the area, as the population of the new registration district increased ten times approximately. Some army Subdivisional Health Officers were appointed at subdivisional headquarters for the control of epidemics and later the Government decided to place each subdivision under a Health Officer as "Subdivisional Health Officer". The Subdivisional Health Officers in addition to their public health duties, supervised the work of registration of vital statistics and were responsible for the normal administration of vital statistics registration of the area. In 1945, detailed instruction in connection with the registration work were issued by the Government to the local registrars, i.e., Thana Sanitary Inspectors for their

After 1947, all subdivisions were provided with Subdivisional Health Officers and a scheme for rural health centres was started. So far 103 union health centres have been created and it has been proposed that the Rural Medical Officer of Health will be the registrar of births and deaths for the union where the Union Health Centre is opened. In 1948 a pilot survey to determine the extent of incompleteness of registration of births and deaths was undertaken and its results were published in a Vital Statistics Special Report. A

summary of the Report and its conclusions is printed as an Appendix in this volume.

The existing method of registration and compilation of births and deaths in the State of West Bengal is as follows:—

A-Registration

Throughout the State of West Bengal except the district of Cooch Behar the registration of births and deaths within eight days of their date of occurrence is compulsory and it is administered in different areas according to the Act as mentioned below:—

In rural areas .

Bengal Births and Deaths Registration Act of 1873.

Urban areas (except Calcutta & Howrah).

Bengal Births and Deaths Registration Act and Bengal Municipal Act of 1932 and rules issued thereunder.

City of Calcutta and Howrah.

Calcutta Municipal Act of

Cantonment areas

. Cantonment Acts and Byelaws issued thereunder.

(i) Urban areas—In the municipalities (including Calcutta) municipal authorities are responsible for the

efficient management of registra-Agency tion of vital events. Registrars of Births and Deaths are appointed by the Municipal Agency Commissioners in Municipalities and by the Health Officer in Calcutta for the purpose. The father or mother is primarily responsible for reporting births and other persons who are required to report are the occupiers of the building in which such child is born, the medical practitioner or the midwife. In case of death it should be done by the nearest relatives present at the time of death or in attendance during the last illness of the deceased or in absence of such relation the medical practitioner if any, who attended during the last illness. In the municipalities which have no registrars of deaths at burning ghats or burial grounds, the fuel contractors, ghat priests and doms of the burning ghats and munshis of burial grounds are to report deaths to the registrars periodically. Station Masters of railway areas within municipalities are responsible for reporting vital events occurring within their areas. The family is primarily responsible for reporting births and deaths in the municipal areas including Calcutta.

(ii) Rural areas-In rural areas village chaukidars are reporters of births and deaths occurring within their beats. They are provided with a double set of hathchittas of births and deaths for collection of village statistics. If they are illiterate (as they generally are) they may have the entries made by any literate person of the locality. The dafadars of the union collect one set of hathchittas of births and deaths from all chaukidars of the union and submit them at their weekly. parades at Thana to the Sanitary Inspectors of Thanas who are the Registrars of Births and Deaths for the Thana areas. The Sanitary Inspector with a health assistant attends parades of dafadars at the thana and collects one set of hathchittas from the dafadars and retains the same for the purpose of registration; the other set of hathchittas is handed over to the dafadar for distribution amongst the chaukidars concerned for the purpose of collection of vital statistics, in the subsequent week.

The above procedure is not applicable in the Darjeeling district. In this district, the Thana Officers are Registrars of Births and Deaths and village mandals

or headmen are responsible for reporting births and

deaths occurring within their beats.

(iii) Other areas—Managers of tea gardens, medical officers of hospitals, authorities of factories and mills outside the jurisdiction of unions, municipalities and cantonments and officers in charge of forests are responsible for reporting births and deaths occurring within their respective areas.

Railway Station Masters are responsible for collection and registration of vital events occurring within

their areas.

In cantonments the Executive Officer is responsible for registration.

B-Compilation

In urban areas, the municipal registrars of births and deaths compile the monthly vital statistical returns and submit the same to the District Health Officer by the 15th of the succeeding month for inclusion in the district return.

2. In rural areas the procedure for compilation and transmission of vital statistical returns is as follows:—

(a) The local thana registrars of births and deaths collect reports of births and deaths from all reporting agencies and from railway station masters within their respective jurisdictions and compile a return of the police station and submit the same to the District Health Officer by the 10th of the succeeding month.

(b) Executive Officers of Cantonments compile monthly returns of their areas and submit them to

District Health Officers,

3. District Health Officers compile monthly vital statistical returns of their districts showing figures of municipalities and rural thanas separately therein, and submit them to the Directorate of Health Services where district and State figures are compiled in permanent records.

4. The final figures of the State and towns with populations of 30,000 and over are sent to the Director

General of Health Services with the Government of India.

A permanent Census Act was passed in 1948 and the post of a Registrar General and Ex-Officio Census Commissioner has been created to deal with population censuses and vital statistics under a single organisation of the Central Government. Accordingly, the subject of vital statistics including registration of births and deaths has been included in the concurrent legislative list. A new era in vital statistics registration is thus expected to follow.

A table showing the nature of information collected since the beginning is annexed. This note may conclude with the recommendations made by W. Goode, Secretary in 1919 of the Local Self Government and Medical Public Health Department of the Government of Bengal,

quoted below:

"The committee has already decided to recommend that the central organisation for controlling registration and collating and utilization of the data it furnishes should be strengthened. It suggests that a Deputy Sanitary Commissioner should be placed in charge of this work; constituting with his office a separate branch of the Public Health Department. It is outside the province of the Committee to make proposals for the improvement of the local registering agency. The history of registration in Bengal indicates the difficulties with which the whole question is beset. The Sanitary Commissioner has pointed out that the system under which local bodies are constituted by the registering authorities for their local areas is unsound in as much as vital statistics supply the facts by which these Sanitary Administrators must be judged. It will however be for the new Central Branch which the committee suggests should be created to examine the working of the local agency on which it will depend for its material and to make proposals to Government for its improvement. It can hardly be doubted that the history of registration in Bengal justifies the committee's proposals to create a separate branch for vital statistics in the new Public Health Department."

APPENDIX B

Extracts from pages 47-49 of the Report of a Pilot Survey held in the districts of Burdwan, Bankura, Nadia, 24-Parganas, Malda and Darjeeling in the year 1948 by Dr. P. G. Choudhury and published by the West Bengal Government in 1952

Summary and conclusions—The work of registration though a statutory duty of the Government is administered by local bodies and from the results of the survey it has been found to be utterly defective, inaccurate and unproductive. Omission in the registration of births and deaths is more than 50 per cent. and about 22 per cent. of the registered events cannot be traced or verified.

It has further been observed that the data compiled in the Central Office for the purpose of analysis and publication, etc., do not tally even

with those in the original registers. Discrepancies between the figures of the register and the return are about ±5.06 per cent. Moreover the returns are neither representative of the area and month in question nor contain all the information available in the original register. And whatever is available, reaches this office three to four months after its due date laden with mistakes.

The registration of vital statistics was enforced by the Bengal Births and Deaths Registration Act of 1873, but the desired improvement has not yet been obtained owing to inherent defects in the system.

A Police Station with an average population of 100,000 and an area of 100 sq. miles is the present registration district in rural areas. This area is too big and un-

manageable even for several whole-time registrars but

the work is entrusted to a part-time officer. The present registrar has to perform this work in addition to other more arduous official duties. The registration office is too far away for the majority of the people and as a result neither the people can report personally nor can the chaukidars attend office regularly. In fact, the work of registration has deteriorated since 1944 when it was transferred from Union Boards to Police Stations.

Although the reporting of vital events is a primary duty of the people, yet they are quite ignorant of this fact. Nothing has been done so far to make the people alive to their responsibility. As a result people seldom report births and deaths for registration. Moreover there is very little utilisation of birth and death certificates by the people, nor has the State yet enforced any of these measures. People are not punished for non-registration even if their negligence is brought to the notice of the law. Not even Rs. 100 is realised either from certificate fee or from prosecution of delinquents while the Government spends about Rs. 1.55 lacs every year which serves little useful purpose and is nearly all wasted.

In the rural areas, chaukidars are entrusted with reporting vital statistics. But these chaukidars are illiterate and ill paid and can hardly report cause of death and age at death correctly.

They have neither the training nor the incentive to do their work properly and consequently they do not pay any attention to its improvement.

In urban areas too, registration does not receive proper attention. The municipal authorities have no reporting agency and have to depend entirely on the apathetic public for this purpose. Consequently, the vital statistics of towns have been found, in course of the survey, to be more defective than those of rural areas.

Vital statistics of this province are at present compiled at three stages namely the thana, the district and the capital and at every stage some errors creep in. As a result, the figures published from the provincial capital do not tally with those in the original registers.

Vital statistics will not improve so long as the abovementioned defects in the present system of registration are not removed and the agencies for registration and reporting are changed or at least specially trained and paid for the work so that they may take more interest in its improvement. The following measures are therefore recommended for immediate adoption:—

The present registration unit which is too big and unmanageable should be reduced in size and the union may therefore be Measures suggested restored as a registration unit. for their remedy for their remedy The union clerk may be appointed as registrar of births and deaths and for this extra work paid an additional remunera-Unions
tion of Rs. 5 per month by the Government. The total cost will be Rs. 1,24,000 per year for 2,070 unions instead of Rs. 1,13,000 spent by the Government over additional health assistants at Police Stations. This contribution to unions will be made on the specific condition that unions will try to effect all round improvements and chiefly punctual submission of accurate vital statistics. Registration work will be transferred from union clerks to Rural Medical Officers of Union Health Centres as the latter are started. The above expenditure of Rs. 1,24,000 will thus ultimately be saved.

The chairman of a municipality may appoint a registrar of births and deaths and the person concerned may be paid a sum of Rs. 5 per month and the total cost for the purpose will be Rs. 4,500 for 75 municipalities. The sum will be contributed to the municipal fund on the same condition as suggested in the case of unions.

It is true that vital statistics cannot improve and complete collection of statistics will not be possible unless people themselves take interest and report vital events to reporters or registrars of their own accord. Measures should, therefore, be adopted to punish people under the law for failing to report vital events and steps should be taken to utilise birth and death certificates for proof of age, nationality, citizenship, succession to property, insurance money, etc., etc. This will lend importance to registration of births and deaths in the eyes of the public and they will then be anxious to register births and deaths. Accordingly, a proposal for introduction of birth certificates as evidence of age of all new entrants to school from January 1950 has been submitted to the Government. This will fetch an annual revenue of Rs. 2.91 lacs approximately and the estimated cost of the scheme will be Rs. 38,080 only.

Tax Collectors may be appointed as reporters of births and deaths in municipalities. These tax collectors and chaukidars may be trained in vital statistics and the best workers may be rewarded. This will provide an incentive to them. A reward fund for the purpose may be opened in each district under the control of the district officers out of the prosecution fees realised. It is proposed that whoever (chaukidars or Tax Collector) will detect omission in registration of births and deaths will receive a reward of eight annas per successful case of prosecution. The reward may be increased to Rs. 4. when the fine imposed under sections 7 and 8 of the Bengal Births and Deaths Registration Act will be enhanced to Rs. 25. This enhancement is necessary to meet the cost of prosecution. This reward will be given to reporters provided that they collect records of more vital events than the average. If each and every delinquent is thus punished, a sum of Rs. 1.6 million approximately will be realised as fine every year and Rs. 400,000 may go as reward to reporters whose total strength has been estimated to be 30,000 chaukidars and 352 Tax Collectors. Each reporter may thus get a sum of Rs. 13 per year.

The supervision of the work of registration at the periphery regarding verification, omission, issue of certificates and prosecutions, etc., will be entrusted to specially appointed Inspectors of Registration and six such Inspectors are considered to be essential to start with

Burial and burning without registration should be forbidden at least in all towns. In pursuance of sections 435-439 of the Bengal Municipal Act all burial grounds and burning ghats in towns should be registered and provided with keepers who will report particulars of death, in respect of the bodies disposed of, to the local registrars.

Only in Darjeeling district, the registration unit may remain as it now exists and the case may be taken up later.

To eradicate the defects in the present system of compilation, the Central Compilation Scheme may be introduced. This will eliminate Procedure all intermediate compilation at thanas and districts. The scheme may work as under. The existing forms of birth and death registers should be revised. Local Registrars will register each and every event either reported by official reporters or by parties and send counterfoils of each individual registered event to the Central Office every month. These slips will be tabulated with the help of calculating machines and kept systematically for issue of certificates to persons on demand. There will thus be no loss of information and no error in compilation and moreover the preservation of records will be possible at the Central Office. The records also will thus be available at the Central Office for issue of certificate as proposed. The Central Office will be the Provincial Registration Office like that of Somerset House in England and Wales and will be located in some prominent house in the city.

It is further proposed that to assess improvement in registration, a sample survey like that of the present one may be undertaken every year.

The present state of vital statistics is so defective that neither any scientific research nor any effective health planning can be undertaken on their basis.

Table 1

Births by unions, thanas and towns: comparison between the 1948 survey figures and those recorded in the original official registers

					_			
District and Police Station	Unions		Birthe regd.	Birthe verified	Percent of verified	Total birthe occurred in 1948	Percent omission over	Percent of detection
	• •		1948	veribed	over regd.	detected during survey	total detec- tion	ulq.
District Bordwan-P. S. Kely	os I Kashigram .		238	244	94-6	363	33-2	141-5
	2 Khajurdihl .	• .	181	159	87-8	229	30-6	126-5
	. 3 Srikhenda .	• • • •	210	179	83-3	274	34.7	130-5
	4 Alamper	• • •	199	164	82-4	251	34-7	126-1
	5 Gidhgram	• •	211 191	179 174	84·8 91·1	3 04 2 5 5	41.1	144-1
	6 Karui . 7 Karajgram .	• • •	214	179	83.6	233 289	31·8 38·1	133·5 135·0
	8 Sribati		212	195	91.9	302	35-4	143.4
•	9 Singhi	•	175	160	91-5	224	28 6	128.0
	10 Agradwip .		162	143	88.3	285	49-8	176.9
	11 Jagadanandapur		175	153	87-4	261	41-4	149-1
		TOTAL -	2,188	1,929	88-2	3,039	86-5	138-9
District Bankura-	l Manikbazar .		84	75	89-3	99	24.2	117-9
P.S. Sonamuthi	2 Hamirhati .	• •	80	76	95-0	91	16.5	113-8
	3 Pearbers . 4 Dhulai .	• • •	92 147	81 135	88·0 91·8	12 6 184	35·7 26-6	136-9
	5 Kochdihi	• •	121	106	89.3	184	41.3	12 5-2 152-1
	6 Nabason .	• • •	128	128	100-0	164	82-0	128-1
	7 Dihipara .	• • •	138	131	94.9	168	22.0	121-7
	8 Dhansimla	• • •	91	83	91.2	108	23.1	118-7
,	9 Panchal 10 Radhamohanpur	• • •	78 171	68 170	87·2 99·4	120 235	43·3 27·7	153-8 137- 4
		TOTAL .	1,130	1,055	93-1	1,479	28· 3	130-9
24-Parganas-P. S. Basirkat	1 Ghorarash .		249	210	84-3	322	34-8	129-3
21 22 22 22 22 22 22 22 22 22 22 22 22 2	2 Dhanyakuria .		231	201	87.0	452	55.5	195-7
	3 Chaita		226	201	. 88∙9	410	51.0	181-4
	4 Champapukur		356	286	80.3	510	43.9	143-3
	5 Sangrampur .		124	108 137	87·1 67·5	290 384	62·8 64·3	233-9 189-2
	6 Sankchura	• •	20 3 282	215	76-2	525	59-0	186-2
	7 Itinda 8 Pifa		271	253	93.4	523	51-6	193.0
		Total .	1,942	1,611	83.0	3,416	52.8	175-9
		_						
District Nadia-P. S. Naba-	1 Bablari		136	67	49-3	166	59-6	122-0
dwip	2 Swarupganj .	• • •	208	63	25-5	301	82.4	144-7
	3 Mayapur .		194	72	87-1	3 57	79-8	184-0
	•	TOTAL .	538	192	35-7	824	76-7	153-2
District Makie-	1 Milki		529	375	70-9	700	46-4	132-3
P. S. English Baser	2 Kazigram .		196	152	77-6	199	23.6	101.5
• • •	3 Jodupur .		123	58	47·2	142 338	59·2	115-4 113-8
	4 Amriti 5 Narhata	• • •.	297 178	199 126	67-0 70-8	338 21 3	40-8	119.7
	6 Mahadipur	• • •	143	78	54.5	183	57-4	128- 0
	7 Kotwali		148	69	46-6	151 ·	54.8	102-0
		TOTAL	7.614	1,057	63-5	1,926	45-1	119-3
	Towns	<i>∓</i>					~	
District Burdwan	Katwa		. 70	50	80-0	292	80-8	417-1
District St-Parganes	Joymgar-Masilpur	:	270	246	91-1	442	44-3	163-7
			186	94	50-5	522	82-0	280-6
		•	• • •					

Table 1—concld.

Births by unions, thanas and towns: comparison between the 1948 survey figures and those recorded in the original official registers

District and Police Station	Unions		-	Births regd. 1948	Births verified	Percent of verified over regd.	Total births occurred in 1948 as detected during survey	Percent of omission over total detection	Percent , of detection over regd.
	Towns-contd.								
District Darjeeling	Kurseong	•	• •	237	. 94	39-7	542	82-7	228-7
•	URBAN TOTAL	•	•	763	490	· · 64·2	1,798	72.7	235-6
	RUBAL TOTAL	•	. 7	,412	5,844	78-8	10,684	45-3	144-1
	GRAND TOTAL .	•	, .	3,175	6,334	77.5	12,482	49-3	152-7
			DUPL	ICATE S	Survey				
District Nadia-P. S. Naba- dwip	Unione 1 Bablari 2 Swarupganj 3 Mayapur	•	•	136 206 194	64 57 66	47·1 27·7 34·0	176 319 308	63·6 82·1 78·6	129-4 154-9 158-8
	T	DTAL	•	536	187	34.9	803	76.7	149-8
•			***************************************			 -			

Deaths by unions, thanas and towns: comparison between the 1948 survey figures and those recorded in the original official registers

						٠.		•			•	•
District and Police Station	. ~	Unions		- · ·		Deaths regd. 1948	Deaths verified	Percent of verified over regd.	Total Deaths occurred in 1948 as detected during survey	Percent of omission over total detection	Percent of detection over regd.	•
District Burdwan-	1	Kasigram .			_	320	302	94-4	430	29.8	134-4	
P. S. Katwa	9	Khajurdihi .		•	•	183	161	98.0	211	23.7	115· 3	
• • • • • • • • • • • • • • • • • • • •	8	Srikhanda .	,	•	•	188	159	84.6	264	39.8	140-4	
	4	Alampur		•	•	184	151	82.1	227	33.5	100.4	
	Ē	Gidhgram		• •	•	275	253	92.0	404	37·4	123·4 146·9	i
	Ā	Karui	,	•	•	141	132	93.6	210	37.1	148.9	
-	7	Karajgram		•	•	190	161	84·7	245	34.3	128.9	•
•		Sribati		• •	•	247	231	93.5	303	23.8		
	ő	Singhi .		• •	•	201	183	93·3 91·0	235		122.7	
•	10	Agradwip		• •	•	181	155	85·6		22.1	116.9	<u> </u>
- · · · · · · · · · · · · · · · · · · ·	iĭ	Jagadananda pu	_	• •	•	148	139	93·9	211 220	26·5 36·8	116-6	
		a eRecrement con hint	•	•	•	140	199	. 22.8	220	90.0	148-6	
				TOTAL	•	2,258	2,027	89-8	2,960	31.5	131-1	
District Bankura-	1	Manikbazar .				89	79	88.7	102	22.5	114-6	
P. S. Sonamukhi	2	Hamirhati .		• •	. •	111	99	89.2	117	15-4	105.4	
-	3	Pearbera		• •	•	86	84	97.7	147	42.9	170-9	
	Ă	Dhulai		•	•	157	154	98-1	200	23.0	127-4	
• •	5	Kochdihi		• •	•	112	100	89.3	157	36.3	140.2	
	6	Na bason		•	. • .	125	124	99-2	166	25. 3	132.8	
	7	Dihipara.		• •	•	123	102	82.9	131	23·3 22·1		
	Ŕ	Dhansimla		• •	•	81	72	88.9	33	10.1	106-5	
	9	Panchal		• •	•	82	73	89-0	111	19·1 .; 34·2	109-9	
	10		-	• •	•	143	124	86-7	166	25·3	135-4	
	•		•	• •	•	149	124		100	20.3	116-1	
				TOTAL	· .	. 1,109	1,011	91.2	1,386	27-1	125-0	,
					-							

Table 2—concld.

Deaths by unions, thanas and towns: comparison between the 1948 survey figures and those recorded in the original official registers

District and Police Station	Uniona	Deaths regd. 1948	Deaths verified	Percent of verified over regd.	Total deaths occurred in 1948 as detected during survey	Percent of omission over total detection	Percent of detection over regd.
District 24-Parganas— P. S. Basirhal	1 Ghorarash 2 Dhanyakuria 3 Chaita 4 Champapukur 5 Sangrampur 6 Sankchura 7 Itinda 8 Pifa Total.	. 181 . 239 . 207 . 249 . 80 . 168 . 203 . 205	156 202 169 197 57 121 148 175	86-2 84-5 81-6 79-1 71-3 72-0 72-9 85-4	222 370 305 298 152 232 329 334	29-7 45-4 44-6 33-9 62-5 47-8 55-0 47-6	122-7 154-8 147-3 120-0 190-0 138-1 162-1 162-9
District Nadia—P. S. Naba-	1 Bablari	. 76 . 183 . 160	24 31 68 123	31·6 16·9 42·5	108 251 223 582	77-8 87-6 69-5 78-9	142·1 137·2 139·4
District Malda—P. S. English Bazar	1 Milki 2 Kazigram 3 Jodupur 4 Amriti 5 Narhata 6 Mahadipur 7 Kotwali Total	. 202 . 122 . 112 . 140 . 86 . 68 . 74	150 87 60 95 46 40 37	74·3 71·3 53·6 67·9 53·5 58·8 50·0	235 115 141 157 66 130 70	36·2 24·3 57·4 39·5 30·3 69·2 47·1	116·3 94·3 125·9 112·1 76·7 191·2 94·6
	Towns			•			
District Burdwan	Katwa	. 243	184	75-7	300	38.7	123.5
District 24-Parganas	Joynagar-Mazilpur Halisahar	. 94 . 102	83 43	88·3 42·2	196 314	57·7 86·3	208·5 307·8
District Darjeeling	Kurseong	. 255	82	32.2	324	74.7	127-1
•	URBAN TOTAL	. 694	392	56∙5	1,134	65-4	163-4
	RURAL TOTAL	6,122	4,901	80-1	8,084	39-4	132-0
	GRAND TOTAL	. 6,816	5,293	77-7	9,218	42.6	135-2
·	Durlic. Unsum	ATS SURVEY			,		
District Nadis-P. S. Note-	1 Bablari	. 76 . 183 . 108	24 35 47	31- 6 19-1 43-5	124 265 163	80-6 86-8 71-2	163·2 144·8 150·9
•	TOTAL	. 367	106	28.9	552	80-8	150-4

Table 3

Table showing the number of events as per the 1948 Survey, Registers and returns with their respective percentages over the total detection during 1948

						Вівт	ня		DEATHS						STILL BIRTHS				
	Police Station	or To	own	Survey	Original Register	Percent to total detection	District vital return	Percent to total detection	Survey	Original Register	Percent to total detection	District vital return	Percent to total detection	Survey	Original Register	Percent to total detection	District vital return	Percent to total detection	
	l Katwa P. S.			3,039	2,188	72 ·0	1,881	61.9	2,960	2,258	76· 3	1,695	[57∙3	83	44	53.0	47	56∙6	
;	2 Sonamukhi l	P. S.	•	1,479	1,130	76-4	1,132	7 6·5	1,386	1,109	80-0	1,111	80.2	152	40	26-3	21	13.8	
;	3 Hasirhat P.	s.	•	3,416	1,942	56.9	1,935	56· 6	2,242	1,532	68 ·3	1,532	68.3	96	54	56·3	55	57•3	
•	4 Nabadwip P	. s.	•	824	538	65 ·3	507	61.5	582	419	72.0	418	71.8	2		^ •• •	•		61
1	5 English Baza	ır P. 1	S	1,926	1,614	83-8	1,615	83.9	914	804	88.0	842	92-1	54	40	741	45	83-3	
` €	Katwa Town	٠.	•	292	70	24.0	66	22.6	300	243	81-0	245	81·7	••	· ••	••	1	••	
7	Joynagar-Ma	zilpuı	r Tov	vn 442	270	61-1	249	56.3	196	94	48.0	93	47-4	13		••	· ••	••	
8	Halisahar To	wn		522	186	35· 6	171	32.8	314	102	32.5	96	30.6	. 13	••	••	••	••	
9	Kurseong To	wn	•	542	237	43.7	217	40.0	324	255	78-7	264	81.5	14	27	192-9	28	200-0	
	UBBAN TOT	AL	•	1,798	763	42.4	703	89-1	1,134	694	61.2	698	61-6	40	27	67-5	29	72· 5	
	RURAL TOTA	L	•	10,684	7,412	69-4	7,070	66-2	8,084	6,122	75.7	5,598	69-2	387	178	4 6·0	168	43-4	
9	GRAND TO	TAL	•	12,482	8,175	65•5	7,773	62.3	9,218	6,816	73-9	6,296	68-3	427	205	48.0	197	46-1	

Table 4
Estimates of total Births, Deaths, Infant mortality and Deaths from Cholera and
Malaria for 1948

					I	Figures records Station, Uni		Mean ratio of total number as enumerated at		Provincial figures for 1948			
						Existing system	Survey	the survey to the correspond- ing figures under the existing system	of the mean ratio	Under the existing system in lacs	Estimates in lacs		
Birthe						7.773	12,482	1.6058	0-1196	4-53564	7:3+0:64		
Deaths		•	•			6,296	9,218	1-4641	0.2756	3.85270	5.6+1.06		
Infant mort	dity	•	•			1.038	2.004	1.9306	0.2291	0.61990	1.2+0.14		
Death from	Chol	870		•	•	246	476	1.9350	0.1045	0.1379=	0.3+0.01		
Death from	Mala	rie	•			1.410	1,663	1-1794	0.4849	0.76876	0.9 ± 0.37		

APPENDIX C

BENGAL ACT IV OF 1873

(THE BENGAL BIRTHS AND DEATHS REGISTRATION ACT, 1873')

As modified up to the 1st March 1932

(2nd July, 1873.)

AN ACT FOR REGISTERING BIRTHS AND DEATHS

Whereas it is expedient to provide the means for a complete register of births and deaths.

'SHORT TITLE—This short title was given by the Amending Act, 1903 (I of 1903), Sch. I, printed in the Bengal Code, Ed. 1913-1915, Vol. I, p. 738.

LOCAL EXTENT—Since this Act contains no local extent clause, it must be taken to have been intended to extend to the whole of the former Province of Bengal; but it applies only to areas specially notified under s. 1.

The application of the Act is barred in the Chittagong Hill-tracts by the Chittagong Hill-tracts Regulation, 1900 (I of 1900), s. 4 (2), printed in the Bengal Code, Ed. 1913-1915, Vol. I, p. 790.

OTHER ENACTMENTS—As to the registration of births and deaths, under the present Act, in Provincial Municipalities, see the Bengal Municipal Act, 1884 (Ben. Act III of 1884), Pt. XI, printed in the Bengal Code, Ed. 1913-1915, Vol. II, p. 845.

As to the registration of births and deaths in the Calcutta Municipality, see the Calcutta Municipal Act, 1923 (Ben. Act III of 1923), Ch. XXXI, printed in the supplement to the fourth edition of the Bengal Code, p. 633.

As to the registration of births and deaths under the Bengal Local Self-Government Act of 1885 (Ben. Act III of 1885), see s. 114 of that Act, printed in the Bengal Code, Ed. 1913-1915, Vol. II, p. 953.

As to reports by village chaukidars of births and deaths, see the Village Chaukidari Act, 1870 (Ben. Act VI of 1870), s. 39, cl. 7th, printed in the Bengal Code, Ed. 1913-1915, Vol. II, p. 183.

As to registration of births and deaths under the Bengal Village Self-Government Act, 1919 (Ben. Act V of 1919), see s. 26 (3) of that Act, printed in the supplement to the fourth edition of the Bengal Code, p. 135.

As to reports by chaukidars of births and deaths, see the Bengal Village Self-Government Act, 1919 (Ben. Act V of 1919), s. 23 (1) (vii), printed in the supplement to the fourth edition of the Bengal Code, p. 133.

For power to make rules as to the registration of births and deaths in Cantonments, see the Cantonments Act, 1924 (II of 1924), s. 282 (1).

As to the voluntary registration of births and deaths, see the Births. Deaths and Marriages Registration Act, 1886 (VI of 1886), in Vol. II of the General Acts, 1873-86, 5th edition, p. 483.

As to the transmission to the Registrar-General of Births and Deaths in England of registers of, or documents showing, births and deaths of officers and soldiers and their families abroad, see the Registration of Births, Deaths and Marriages (Army) Act, 1879 (42 and 43 Vict., c. 8), in the Collection of Statutes relating to India, Vol. I, Ed. 1913, p. 530.

As to the duties of Registrars of Births in connection with the vaccination of children, see the Bengal Vaccination Act, 1880 (Ben. Act V of 1880), ss. 18 to 24, printed in the Bengal Code, Ed. 1913-1915, Vol. II, pp. 475 and 476.

(Sections 1-4)

It is hereby enacted as follows:-

1. The Lieutenant-Governor may at any time, by a notification published in Calcutta Gazette, direct that all births and deaths, or all births or all deaths, occurring gistration of births and deaths and deaths and define area in such notification shall be registered, and for that purpose may define the limits of such area.

Now the Governor in Council of Fort William in Bengal—see the Bengal, Bihar and Orissa and Assam Laws Act, 1912 (VII of 1912), s. 3, and Sch. D, items 1 and 2, printed in the Bengal Code, Ed. 1913-1915, Vol. I, p. 776.

For such notifications, see the Bengal Local Statutory Rules and Orders, 1924, Vol. I, part VI.

From and after such date this Act shall apply to the whole of the area so defined.

2. The Magistrate of the district' may, for the purpose of such registration, divide any such area into such and

Magistrate may divide area into districts and may registrars appoint

so many districts as he may think fit, and may appoint one or more persons to be registrars of births or of deaths, or of births and deaths, within such district,

and may at any time for sufficient reason dismiss any such registrar and may fill up any vacancy in the office of registrar.

The Magistrate shall cause to be published a list containing the name and place of office of every registrar publish list of regis-

Magistrate to in the area, and specifying the hours of the day during which such registrar shall attend at his office for the purpose of registration.

Every registrar to have an office within his district

3. Every registrar shall have an office within the district of which he is appointed registrar, and shall cause his name, with the addition of registrar of births (or of deaths, or of births and deaths according to his appointment)

for the district for which he is so appointed, and notice of the hours during which he will attend for the purpose of registration, to be affixed in some conspicuous place on or near the outer door of his office.

4. The Magistrate shall cause to be prepared a sufficient number of register-books for making entries

Magistrate to have register-books prepared and numberof all births or deaths or both. according to such forms as the Lieutenant-Governor² may from time to time sanction; and the pages of such books shall be

numbered progressively from the beginning to the end; and every place of entry shall be also numbered progressively from the beginning to the end of the book, and every entry shall be divided from the following entry by a line.

(Sections 5-7)

5. Every registrar shall inform himself carefully of every birth, or of every death, or of both, according to his appointment, which shall Registrar to inform himself of, and happen in his district, and shall

himself of, and register, births and

register, as soon as conveniently may be after the event, without fee or reward, the particulars

required to be registered, according to the forms mentioned in the last preceding section, touching every such birth or every such death, as the case may be. which shall not have been already registered.

6. Every chaukidar or other village-watchman in any area to which this Act shall apply, or, where there is no chaukidar or other village-watch-Chaukidar to obtain particulars and to man, such person as the Magistrate may appoint, shall be rereport to registrar quired to report every birth or death occurring within his beat to such registrar and at such periods as the Magistrate may direct.

He shall obtain in writing, if possible, and if it is impossible for him to obtain in writing he shall obtain verbally, from any person who is bound to give information of the birth or death all particulars which are required to be known and registered and he shall report such particulars to the registrar.

Any chaukidar or other village-watchman or other person so appointed who wilfully or negligently refuses or omits to produce such writing, Penalty for neglect or death, shall be punishable at the discretion of the Magistrate with fine which may extend to two rupees.

7. The father or mother of every child born within such area, or in case of the death, illness, absence or inability of the father and mother, the midwife assisting at Persons bound to give information of birth the birth of such child, shall, within eight days next after the

day of every such birth, give information, either personally or in writing, to the registrar of the district, or by means of the chaukidar or other village-watchman, or other person as provided in the last preceding section, according to the best of his or her knowledge and belief, of the several particulars hereby required to be known and registered touching the birth of such child.

Any person who refuses or neglects to give any information, which it is his duty to give under this section, shall be punishable at Penalty for neglect the discretion of the Magistrate with fine which may extend to five rupees:

Provided that not more than one person shall be punishable at the discretion of the Magistrate for such refusal or neglect to give information.

(Sections 8-10)

8. The nearest male relative of the deceased present at the death, or in attendance during the last illness of any person dying, within such Persons bound to area, or in the absence of any give information of such relative, the occupier of the death house, or, if the occupier be the person who shall have died, some male inmate of the

house in which such death shall have happened, shall within eight days next after the day of such death, give information either personally or in writing to the registrar of the district', or by means of the chaukidar or other village-watchman or other person as provided in section 6, according to the best of his knowledge and belief, of the several particulars hereby required to be known and registered touching the death of such person:

Provided that no person shall be bound to give the name of any female relative.

Now District Magistrate—see the Code of Criminal Procedure, 1898 (Act V of 1898), s. 3 (2).

Now the Governor in Council of Fort William in Bengal-see the Bengal, Bihar and Orissa and Assam Laws Act, 1912 (VII of 1912), s. 3, and Sch. D. items 1 and 2, printed in the Bengal Code, Ed. 1913-1915, Vol. I, p. 776.

Or any sub-registrar appointed for a burning-ghat or burial ground-see the Bengal Municipal Act, 1884 (Ben. Act III of 1884), s. 348, printed in the Bengal Code, Ed. 1913-1915, Vol. II, p. 845.

As to duty of Medical Officer-in-Charge of Hospital to give notice of death, see ibid., s. 349, printed ibid., p. 845.

Any person who refuses or neglects to give any information which it is his duty to give under this section, shall be punishable at the discretion of the Magistrate with fine which may extend to five rupees;

Provided that not more than one person shall be punishable for such refusal or neglect to give information.

- 9. Any registrar who refuses or neglects to register any birth or death occurring within his district, which he is bound to register, within a reasonable time after he shall have been duly informed thereof, or demands or accepts any fee or reward or other gratification as a consideration for making such registry, shall be punishable at the discretion of the Magistrate with fine which may extend to fifty rupees for each such refusal or neglect.
- 10. Whoever wilfully makes or causes to be made, for the purpose of being inserted in any register of Penalty for wilfully giving false information births or deaths, any false statement touching any of the particulars required to be known and registered, shall be punishable at the discretion of the Magistrate with a fine not exceeding fifty rupees.

(Sections 11, 12)

11. In any place to which the District Municipal Improvement Act' shall have been extended, the Municipal Commissioners may, Act III of if at a meeting specially convened for considering such 1864 Municipality under question they shall so determine. Ben. Act III of 1884 arrange for keeping a register may arrange for keeping register of of all births or of all deaths or births or deaths or of all births and deaths, occurboth ring within the municipality.

On and after a date to be fixed at such meeting, the Commissioners shall in such case be authorized to provide out of the municipal fund for the employment of a sufficient number of registrars, and for the expenditure necessary for the maintenance of such registers, and shall exercise all the powers of a Magistrate under this Act; and all the provisions of this Act shall be deemed to apply to such place.

12. The Magistrate of a district may depute any subordinate Magistrate to exercise the powers and to perform the duties vested in the Magistrate by this Act, within such district or any part thereof. charge his functions

APPENDIX 1

Milestones in the development of vital statistics in India and outside

1836	•	•	•	•	•	England	•	•	•	•	•	Promulgation of Births, Marriages and Deaths Registration Act.
1875						England	_			_		Complete and interest of the births deaths and mamis and
1927	•		•			England	-		Ĭ			Compulsory registration of still births.
1900						United St			-		:	Compulsory registration of live births, still births, deaths and
	-	•	-	•	•			•	•	•	٠	marriages.
1915	•	•	•	•	•	United St	ates	•	•	•	•	First year of separately published official birth statistics for Birth Registration area of United States.
1886	•	•	•	•	•	India	•	•	•	•	•	Births, Deaths and Marriage Registration Act: voluntary and for marriages not in effect for Hindu or Muslim communities.
1873						Bengal					_	Births and Deaths Registration Act.
1899	•				-	Madras						Births and Deaths Registration Act.
1932			•		-	Coorg	:				•	Births and Deaths Registration Act.
1935	•	•	•	•		Assam		•	•	•	:	Births and Deaths Registration Act.

APPENDIX II

A calender of registration of vital events from 1870 in Bengal

1870	•	•	•	Deaths by sex, by months, by causes, namely cholers, small-pox, fever, bowel complaints, injuries, namely suicide, wounds and accidents, snake bites or killed by wild animals, all other causes. Total deaths from all causes. Deaths by age, namely born dead, not exceeding 1 year, 1 year to 6 years, 6 years to 12 years, 12 years to 20 years, 20 years to 30 years, 30 years to 40 years, 40 years to 50 years, 50 years to 60 years, and exceeding 60 years.
1872				Deaths by communities, namely Hindus, Muslims, Christians and other classes.
1573	•	•		Births by communities, namely Hindus, Muslims, Christians, Buddhists and all other classes. Deaths by communities as that of 1872, only Buddhists have been inserted.
1874				Births by sex.

Deaths by age according to infants (children unable to walk), boys and girls, adults, old people, total,

¹Or any sub-registrar appointed for a burning ghat or a burial ground—see ibid., s. 348, printed ibid., p. 845.

¹Ben. Act III of 1864 was repealed by Ben. Act V of 1876, which again has been repealed and re-enacted by the Bengal Municipal Act, 1884 (Ben. Act III of 1884), and this reference should now be taken to be made to the latter Act—see s. 2 thereof, printed in the Bengal Code, Ed. 1913-1915, Vol. II, p. 710.

Now District Magistrate—see the Code of Criminal Procedure, 1898 (Act V of 1898), s. 3 (2).

```
1875
                       No change.
1876
                       Deaths from suicide according to sex.
1877
1878
1879
                       No change.
1880
                       Deaths by age according to 0-1 year, 1-5 years, 5-10 years, 10-15 years, 15-20 years, 20-30 years,
1881
1882
                            30-40 years, 40-50 years, 50-60 years and exceeding 60 years.
1883
1884
1885
1886
                        No change.
1887
1888
1889
1890
                        Deaths from dysentery and diarrhoea by months.
1891
1892
1893
1894
1895
                        No change.
1896
 1897
 1898
 1899
                        Deaths-Registration of attacks and deaths from plague during each month.
 1900
                        Deaths—Registration of deaths from plague.
 1901.
                        Deaths-from respiratory diseases.
 1902
 1903
                        No change.
 1904
                        Deaths-respiratory diseases by months.
 1905
                        Deaths-from plague by months.
 1906
 1907
 1908
 1909
                        No change.
 1910
 1911
 1912
                        Deaths from rabies.
 1913
 1914
 1915
 1916
 1917
                        No change.
 1918
 1919
 1920
 1921
                        Monthly malaria reports of Hospitals and Dispensaries.
                        Deaths under one year as under heading under 1 month, between 1-6 months, 6-12 months, total, and
 1922
                           1-5 years, 5-10 years, 10-15 years, 15-20 years, 20-30 years, 30-40 years, 40-50 years, 50-60 years,
                          60 upwards
                        deaths from causes-malaria, enteric fever, measles, relapsing fever, kala-azar, other fevers, dysentery and
                           diarrhoea (shown separately), influenza, pneumonia, phthisis, other respiratory diseases and death from child
 1923
                        No change.
 1924
 1925
                        Monthly Kala-azar reports of Hospitals and Dispensaries.
 1926
 1927
                        No change.
 1928
 1929
 1930
                        Quarterly statements showing the working of the Bengal Births and Deaths Registration Act, separately for the
                          Municipalities and the rural areas.
 1931
                         Deaths under one month as under heading male—under one week, over one week, total and female—under one
                           week, over one week, total and total under one month.
 1932
                         No change.
 1933
                         Registration of births according to chief communities.
 1934
                         Deaths of infants under one year by communities.
 1935
                         Still births registered according to communities and sex.
 1936
                         Deaths from cerebrospinal fever, typhus fever, black water fever, whooping cough, beri beri, acute poliomyo-
                           litis, diphtheria, chicken pox, mumps, T. B. of joints, other tubercular diseases, leprosy and cancer.
 1937
 1938
 1939
                        Deaths from snake bites and killed by wild animals (shown separately), anthrax, epidemic dropsy, T. B. of meninges
 1940
                           and homicide.
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APPENDIX II—concld.

1941	•	•	•	
1942	•	•	•	•
1943	•	•	•	No change.
1944	•	•	•	
1945	•	• .	٠.	
1946	•	•		Deaths under one month as under heading male—within 24 hours, one day to one week, one week to one month, total, female—within 24 hours, one day to one week, one week to one month, total and total of under one month, between 1 and 3 months, between 3 months to 6 months, between 6 months to 12 months and under 1 year.
1947	•	•	•	
1948	•	•	•	
1949	•	•	•	No change.
1950	•	•	•	under 1 year. No change.
1951 .				·

APPENDIX III

, List of	Notifiable Diseases
1-In Culcutta and Howrah	II—In other Municipalities
1 Cholers	1 Anthrax
2 Small-pox	2 Chicken pox
3 Measles	3 Dysentery, both Bacillary and Amoebic
4 Yellow fever	4 Measles
	5 Relapsing fever
5 Whooping cough	6 Tuberculosis of all forms
6 Influenza	7 Typhus fever
7 Pneumonia	8 Whooping cough
8 Enterio fever	9 Yellow fever
9 Piague	10 Influenzal pneumonts
10 Cerebrospinal Meningitis	11 Leprosy
11 Diphtheria	12 Epidemie dropsy
12 Leproey	13 Diphtheria
• •	TT 7 N 14
13 Tuberculosis (all forms)	III—In Rural Areas
14 Anthrex	1 Cholera
15 Dysentery (Amoebic and Bacillary)	2 Small-pox
16 Relapsing fover	3 Influenza
17 Typhus fover	4 Typhoid fever
••	5 Typhus fever
18 Epidemie Dropsy	6 Relapsing fever
19 Elephantiasie	7 Cerebrospinal meningitie
20 Dengue	8 Beri Beri
21 Malaria	9 Plague

APPENDIX IV

Births and Deaths since 1870 in Districts of West Bengal

	Burdwan	Birbhum	Bankura	Midnapur	Hooghly	Howrah	24-Parganas
Years	B D	BD	BD	BD	BD	BD	в Д
1870	9,726	2.032	2,298	3,174	. 8,325	512	6,326
1871 1872 : : : :	29,864 333 25,963	14,941 192 13,274	2,793 538 4,077	11,881 21,210	5,566 1,642 5,841	3,312 6,057	17,179 674 19,725
1878	786 1,923	209 3,361	583 1,168	5,531 6,294	2,341 2,984	2,327 4,934	1,407 1,516
1875 · · · · · · · · · · · · · · · · · · ·	1,418 2,699 1,729 3,033	194 2,047 203 5,320	772 1,005 914 1,255	3,478 3,342 4,226 2,707	2,629 3,171 4,042 6,390	2,018 3,781	1,288 1,724 979 1,697
1877 · · · · · · · · · · · · · · · · · ·	2,155 25,317 1,139 39,360	14,215 17,937 148 17,253	8,953 7,089 1,070 12,629	4,510 44,163 976 44,290	6,112 8,272 862 9,337	11,148 13,853 1,620 13,615	87,732 87,412 5,402 55,478
1879	1,026 35,825 632 29,327	143 11,816 17,971	947 9,452 1,242 14,694	886 30,020 715 39,511	665 5,764 756 11,874	1,098 7,465 1,979 10,285	4,623 25,466 4,406 41,413
1881	739 41,010 940 49,297	25,557 27,285	1,101 27,284 1,037 33,559	715 39,511 625 56,871 405 52,019	858 15,686 871 16,378	2,079 11,652 1,863 9,589	5,102 88,667 5,470 88,520
1888	966 39,092 882 33,198	20,634 20,668	1,150 21,121 1,220 19,033	518 51,846 716 50,773 611 51,324	802 14,205 1.022 13.486	1,951 12,145 2,789 12,357	5,559 32,408 6,418 31,713
1886	936 35,526 763 27,126	2,248	1,100 18,943 894 17,615	611 51,324 517 53,114	963 16,391 1,679 13,994	2,470 13,592 2,191 11,870	5,429 31,703 5,017 40,539
1887	1,141 27,046	21,168	815 16,624	1,452 55,424	1,925 13,384 2,285 15,464	2,022 12,682	8,338 46,534
1888	1,643 83,918	129 21,738	870 19,498 941 21,711	1,452 55,424 1,603 59,209 1,886 58,299	301 16,623	2,418 15,107	8,803 48,197 5,035 82,578
1890	1,857 28,251 1,891 86,825	117 19,474 122 24,512	1,105 18,601 1,263 20,678	2,015 61,832 2,138 7,458 66,814 81,207	2,619 16,595 1,272 19,593 23,014 35,565	2,221 16,064 2,351 18,500	4,810 86,900 5,170 45,785
1892	84,977 46,443 48,430 86,196	22,204 26,297 32,409 23,172	25,882 23,727 34,966 20,943	87,105 66,515	38,638 33,588	20,250 3,307 24,773 18,488	39,242 19,185 54,708 41,101
1894	40,980 48,119 41,638 48,002	25,925 28,686 28,888 26,448	34,869 33,067 84,837 30,771	93,694 73,677	29,008 36,728 28,183 40,005	24,146 20,991 25,013 25,379	48,908 45,050 48,693 55,082
1896	43,313 47,952 46,111 41,559	29,530 26,120 82,062 23,738	41,698 32,557 88,431 28,546	88,773 80,637 94,762 74,549	27,794 40,159 31,885 83,999	24 973 25 081	48,863 55,882 59,607 46,212
1898 1899	45,822 29,866 52,454 36,168	81,983 17,157 85,054 20,526	88,101 20,104 44,063 22,480	91,108 64,040 105,235 66,188	27,799 29,395 31,214 31,006	27,970 22,391 25,975 22,156 27,720 25,386	52,938 42,135 60,533 51,730
1900	47,271 45,292	82,387 22,355	40,654 25,493	95,574 76,314	29,511 35,569	27,528 28,802	60,625 56,127
Census population 1901	1,528,290	906,891	1,116,411	2,789,114	1,049,041	850,514	2,155,981
1901	48,451 45,310 61,123 52,553	34,401 23,089 84,367 24,117	40,299 30,203 87,222 37,061	89,620 92,728 86,033 115,106	29,736 87,287 81,559 42,568	26,237 26,942 26,882 29,996	57,576 48,194 66,144 62,480
1903	48,401 50,185 57,671 44,306	33,722 24,882 36,768 26,156	37,169 35,687 43,269 27,883	93,543 86,759 102,860 71,948	30,311 89,465 36,662 34,583	25,970 28,942 31,253 26,186	66,901 64,799 69,657 58,528
1905 1906	50,332 54,529 45,384 53,699	80,918 29,876 27,711 86,040	40,488 34,364 89,735 34,010	93,056 93,839 87,844 100,698	33,796	29,084 28,288 26,280 26,198	68,647 60,477
1907 1908	50,953 64,901	50,953 64,901	41,550 88,331	91,789 99,272	34,274 42,729	28,862 29,309	64,111 59,214 63,952 66,974
1909	40,326 68,392 48,872 39,763 52,894 40,951	25,956 44.117 81,855 25,397 36,052 24,879	33,872 42,576 38,463 30,317 48,529 31,987	91,204 85,911 97,799 62,836 97,522 67,211	31,787 37,579 86,232 30,329 35,986 29,765	28,216 24,932 28,203 22,033 28,890 20,153	71,580 59,944 79,988 49,148
Census population 1911	1,533,874	940,162	1,138,670	2,821,201	1,090,097	943,502	74,489 51,630 2,478,335
1911	49,484 41,890	34,687 27,499	43,607 32,122	95,202 72,109	36,818 33,561	30,320 22,488	80,616 60,424
1913	46,572 48,894 45,075 48,781	\$2,109 32,288 \$3,419 30.819	40,734 33,801 40,064 40,389	89,815 94,875 81,877 88,531	34,446 88,333 29,930 37,824	81,189 26,598 28,318 28,368	76,645 72,857 67,677 64,385
1914 1915	46,796 59,907 38,933 53,728	32,379 43,702 22,598 41,649	38,681 46,062 33,451 38,196	90,417 77,289 88,125 88,003	30,497 34,739 31,387 35,601	28,913 27,076 28,400 26,917	73.340 62.208
1916 1917	49,672 49,616 53,386 45,935	81,276 80,703 85,405 24,568	86,012 35,777 34,617 31,144	83,869 82,657 85,662 78,969	33,640 34,018	31,012 22,610 29,846 24,344	66,698 71,688 67,443 64,192
1918 1919	44,586 79,689 32,667 77,676	32,338 46,418	87,219 56,981	78,206 107,385	27,995 51,459	27,242 30,369	75,129 51,184 69,509 73,219
1920	89,675 56,642	22,174 58,252 25,836 40,876	28,482 41,588 34,386 38,428	68,410 113,260 75,531 97,895	23,454 39,361 29,955 38,759	25,432 33,086 28,055 34,011	57,667 85,486 59,718 85,147
Census population 1921	1,434,771	851,725	1,019,941	2,666,660	1,080,142	997,403	2,636,710
1921 1922	39,439 52,532 42,752 39,007	28,342 32,548 29,970 22,436	82,134 89,035 85,961 27,403	70,655 82,462 76,589 64,396	27,543 34,999 28,111 29,036	26,518 28,695 26,345 25,695	56,934 77,665 64,839 64,014
1923 1924	43,508 87,329 39,503 86,352	\$1,662 22,969 \$1,371 24,221	84,369 24,732 84,188 28,387	77,033 62,874 72,568 65,889	30,720 27,367 27,396 27,658	29,175 22,164	66,254 61,414
1925 192 6	47,368 35,276 45,038 36,880	37,010 21,076 35,427 24,778	38.268 24,201	79,273 60,044	28,831 27,804	27,506 24,434	64,125 58,987
1927 1928	42,888 37,921 41,636 37,576	31,036 24,663	40,070 25,640 82,435 25,798	69,936 64,229	26,958 26,504 24,291 26,229	28,207 30,728 24,345 29,010 27,754 26,062	64,441 65,819 57,008 63,225
1929 1930	45,061 35,297	81,762 25,059 85,290 21,701	35,214 23,986 38,043 27,187	79,848 63,838 87,651 57,313	27,510 27,922 27,643 21,828	26,960 21,829	68,067 59,597 73,749 52,451
Census population 1931	36,310 33,817 1,575,699	34,901 24,338	31,086 25,936	74,225 55,730	25,840 22,045	24,820 21,202	66,184 48,616
1931	42,599 35,253	947,554 85,699 27,827	1,111,721 81,468 25,434	2,799,093 78.016 62,958	1,114,255 27,835 22,804	1,098,867 28,208 20,325	2,888,694
1932 1933	39,310 34,511 46,649 39,103	31,482 27,145 38,181 29,752	28,132 21,406 84,102 27,440	72,045 58,734 81,727 61,497	27,314 23,856 31,721 26,000	27,270 19,537	73,761 48,582 68,819 48,217
1934 1935	40,187 39,216 43,928 31,522	30,670 31,496 35,536 24,549	34,433 3 0,005	78.173 62,202	30,169 25,345	29,420 21,294 29,680 21,777	71,532 45,397 77,640 52,522
193 6 1937	46,833 27,210 44,411 29,260	87,519 23.113	\$5,708 26,449 42,295 23,715	91,998 62,167 87,844 63,331	38,030 24,506 37,841 26,562	32,821 22,515 33,155 25,356	87,320 56,880 79,719 63,429
1938 193 9	46,847 43.688	34,091 28,623	41,019 27,210 39,774 28,512	84,813 61,274 81,463 66,290	38,550 25,458 31,983 30,769	32,831 21,124 28,036 24,127	79,621 -58,449 71,967 59,329
1940	45,773 45,059 52,208 36,769	\$0.894 29.217 \$4,761 22,246	38,593 28,634 38,642 24,800	89,885 61,052 90,667 51,958	30,221 24,319 37,436 20,680	\$1,343 21,097 31,159 18,196	86,314 47,991 90,785 48,933
Census population 1941	1,890,782	1,048,317	1,289,640	3,190,647	1,377,729	1,490,304	3,669,490
1942	50,502 36,518 52,845 34,301	36,014 23,178 37,098 22,840	36,930 27,042 38.816 25,381	82.120 54,842 71,786 50,635	36,450 22,216 36,324 21,159	29,404 20,656 23,528 17,027	88,790 57,903
1943 1944	42.328 47,467 \$5.357 48,651	33,221 40,489 21,691 41,200	33,808 40,170 24,160 31,484	74,319 124,739 65,792 79,124	32,840 27,495 28,610 29,385	25,590 34,674	80,868 49,170 63,335 90,831
1945 1946	38,797 86,849 48,843 35,519	24,626 29,947	31,163 25,913	85,249 57,561	28,892 25,971	27,817 39,816 26,580 28,813	51,785 84,650 63,078 57,077
1947 1948	40.816 35,614	22,257 26,903	38,430 23.234 29,471 26.542	90 265 53,279 71,924 67,634	35,086 22,199 30,039 22,904	26,775 24,509 21,547 24,313	74,574 48,340 59,138 45,176
1949 1950	40,115 32,520	26,247 92,997 . 26,588 24,680	27,480 24,529 29,945 28,156	76.521 59,273 78.366 59,949	26,564 22,284 27,804 20,645	20,572 24,497 21,687 22,076	61,868 49,105 64,172 47,453
Census population 1951	35,543 30,413	20,431 23,410	25,421 21,484	74,704 53,427	26,254 19,237	21,337 20,889	60,584 42,172
N.B.—Birth flowers from 1	2,191,667 Municipality and to	1,066,889 PWD Only for 1678	1,319,259	3,359,022 District birth flow	1,554,320	1,611,373	4,609,309
not available for the year 1871 as	the report is missi	ng. Birth figures	are not available	for the year 1870	and 1872 due to no	on tor the year 187 On-registration.	6. Figures are

APPENDIX IV—concld.

Births and Deaths since 1870 in Districts of West Bengal—concld.

Calcutta Fadia Murshidabad West Dinajpur Jalpaiguri Darjosling Makia																			
Tears		•				5		3	~ □	5		5	D	3	A	5		—	_
1470		•	•	•	•		••		2,627	••	2,159	••	1,877		626	••	255	••	1,046
1471	:	:	:	:	:	••	••		9,842		7,491	::	11,061	.::	2,032	••	758	••	3,202
1478	:	:	• •	:	:	••	••	1,341 1,548	1,003	274 2118	243	••	708	864 833	••	85 138	••	767 1,029	βÌÒ
1475	:	:	:		:	7.452	12,964	1,241 1,345	1,059 8,008	164	256 5.166	••	808 1.049	94 847	231 1,190	240	\$11 1.283	955 976	1,050 1,210
1477	•		:	:	•	7,457	13,704	42,190 1,421	47,444 44,841	30,211	34,611) 33,848	31,027	40,828 36,306	2,343	5,795 8,909	575 48	1,049	13,287	21,426
1-70	:	:	:	:	:	6,400	18,044	1,1×6	35,147	1,131	23,248	66	28,879	78	5,399	38	1,376 779	238 164	16,11 2 10,238
] AND	:	:	:		:	7,53 2	11,661	1,611 1,144	59,450 84,84 6	••	24,56 3 87,7H7	::	83,80 9 29,431	::	7,831 9,26 6	58 42	828 1,059	••	11,674 15,09 6
IA-48 E≠4£	:		:		:	••	11,490 10,83 2	1,15 3 1,170	79,459 69,726	••	37,79 <u>2</u> 30,267	• •	26,02 5 28,800		8.92 4 10.818	60 51	1,088	• •	1,452
land Jano	•		•	•	:	••	•••	1,347	65,540 67,54 5	• •	33,100 29,693	••	26,697 \$2,234		11,391 15,11 6	66 72	2,000		13,044
14-4	:	:	•		•	7,828 7,954	11,447	946	47,874 44,591	••	7,843 84,172	::	39,196	••	2,041	64	4,047	• • • • • • • • • • • • • • • • • • • •	11,021
1447	:	:	:	:	:	8,642	10,979 11,645	1,10 6 1,15 2	88,3×0	1,553	30,324	178	49,04 5 45,038		1,957 19,149	78 203	4,430 5,637	1 20 26 3	20,778 22,694
1×40 1×40	:	:	:	:	:	8,752	11,683	1,947 1,825	36,125 32,676	1,769 1,527	32,123 26,438	20 2	42,569 41,8412	158	19,339 19,477	302 3 28	5,634 6,2×0	521 523	17,43 3 16,327
] 401] 402	•	•	:	:	:	8,128	12,674	1,857 61,730	71.54 2 68.64 6	1,699 41,668	40,5 99 40,678	214 2,096	54,24 3 52,279	208 17,129	24,18 6 23,685	87 6 2,690	7,047 9,02 6	543 22,977	2,440 26,804
1498	:	•	•	•	•	3,492 11,439	20,118 22,441	81,579 62,154	60,941	58,182 43,960	48,527 45,134	67,756 51,566	59,963	25,092	20,530 25,263	8,138 6,303	8,996 9,645	3,452 27,495	82,947
1495	:	:	:	:	:	10,945	27,031	67,858	63,603	49,333	37,183	54,578	56,011	23,081	24.511	7.060	8,395	29,700	\$2,05 6 28,195
1 446 1 447	:	:	:	:	:	12,608 12,554	24,856 24,665	65,022 71,440	59,458 42,919	54,96 6 55,847	40,939 85,60 6	61,118	68,681 61,681	23,513 24,854	27,151 23,169	7,125 7,297	11,4%7 9,415	84 ,504 8 8,628	25,78 6 27,40%
1895	•	:	:	:	:	9.530 11.004	20,843 25,823	64,664 76,75 8	86,304 60,807	54,531 60,940	30,82 4 53,808	62,562 66,977	52,405 61,53 3	24,386 24,280	22,743 23,450	7,450 8,944	8,87 3 9,000	33,874 38,845	25,927 41,368
1900	:	•	•	•	•	10,778	\$6,728	60,884	63,934	51,609	49,740	62,432	67,985	28,734	80,772	8,528	11,093	••	••
Consti	bol	ralatio:	1901	•	•	920,		773,		-	2,486	456,		544,9		249,1		603,	649
1901	:	:	:	:	:	9,129 12,122	\$2,456 \$1,410	70,497 66,478	55,098 88,540	54,931 57,259	44,67 6 60,532	69,599 77,355	69,841 65,051	26,895 29,089	26,027 26,518	9,021 8,539	9,754 8,994	••	••
19:18	•	•	:	•	:	13,182 15,250	29,745 27,323	56,643 72,904	67,930 66,870	55,24 2 58,23 6	48,479 61,758	63,358 67,782	63,851 63,578	24,953 27,600	26,103 27,443	8,01 3 9,058	9,767 9,852	••	••
1916	:	•	•	•	•	15,637 15,043	82,181 80,298	62,102 52,590	77,818 65,178	53,446 50,215	56,152 49,292	70,179	62,896	28,006	26,037	8,921 8,047	9,138 10,57 8	42,696	88,794
1907	:	:	:	:	:	16,224	81,942	64,055	75,637	52,323	57,684	20,213	18,703	22,968	23,766	7,467	8,905		14 -00
1904 1909	:	:	:	:	:	17,043 19,423	27,689 28,946	29,698 86,446	29,755 21,877	51,017 60,938	45.086 35.92 2	22,242	18,889	21,582	23,019	8,561	9,960 9,308	27,066 82,187	18,729 18,246
1910	٠	•	•	•	•	17,106	23,728	36,852	25,966	63,155	44,074	21,010	18,728	23,414	22,794	9,811	9,668	80,992	19,558
Comou	p op	malio	1911	•	•	998,0 19,515	012 24,396	775, 32,194	986 29,838	1,84 59,450	5,07 8 47,719	509, 18,572	19,639	23,454	1,282 24,814	263 9,151	,550 9.831	698, 29,054	26,721
1911	:	:	:	:	:	19,426	25,209	81,518	80,065 80,21 2	59,411	50,702 52,581	20,042 19,706	18,581 16,464	22,388 22,117	22,991 21,864	9,218 9,074	9,860	25,558 27,696	80,479 24,922
1918 1914	:	•	:	:	:	18,346 17,346	26,188 25,431	30,647 29,553	40,422	57,149 56,819	70,224	19,722	17,346	23,129	21,848	8,731	9,799	27,714	29,754
1915 1916	:	•	•	:	:	16,578 18,737	25,590 22,098	22,816 26,478	81,647 26,74 6	44,714 51,240	62,049 45,742	20,101 17,75 6	18,731 17,12 6	23,381 21,35 6	21,600 21,53 3	8,403	9,621 10,561	23,721 26,846	28,569 22,744
1917	:	:	•	•	•	18,807 18,166	21,360	81,162 24,849	26,36 2 43,149	59,619 50,249	47,878 79,960	20,255 18,794	18,05 5 20,85 5	23,641 21,589	21,865 31,948	9,349 8,888	10,248 14,110	20,227 24,039	22,135 80,428
1010	:	:	:	:	:	16,565 15,375	87,839 85,276	20,718 28,658	84,7×9 81,623	39,614 47,868	64,898 51,285	16,016	22,129 19,961	20,450 22,441	26,888	7,966 8,05 6	12,866	21,418 23,020	27,899 21,683
19:20 Census	L BOE	mlatka	1921	•		•	1,697	711,	•	•	4,181	490,			4,056		,74B		174
1921		•	•			17,308	30,395	23,266	81,055	49,547	49,378	19,236	18,390	20,175	20,175	8,368	12,192	24,427	20,069
1923	•	•	•	•	•	17,349 18,21 2	26,3×1 25,834	25,271 24,22 6	22,159 21,630	48,44 5 52,97 9	36,97 6 33,84 6	15,318 17,750	15,182 17,776	19,01 6 22,537	17,044 19,216	018,8 8,610	10,566 9,426	20,218 24,686	14,604 17,910
1024	:	:	:		•	19,666	81,881 85,195	25,042 29,956	21,643 25,709	848,28 \$18, 4 8	33,90 5 39,07 6	17,932 19,600	15,683 17,043	20,906 19,914	20,458 17,751	9,463 9,539	10,196 9,184	20,693 27,949	16,174 20,002
1926	:	:	:	:	:	14,199	87,376	20,332	22,791	44,599	43,627	15,676 19,517	16,455 17,396	17,442 22,294	18,237 17,897	9,476 9,162	8,469 7,928	20,417 23,598	19,807 26,044
1927 1924	:	:	:	:	:	16,740 23,001	36,820 34,119	23,046 24,595	20,931 21,690	50,596 53,237	62,669 37,041	18,326	17,629	22,306	18,627	10,336	8,894	23,016 22,601	19,087
19:9 1930	•	•	:	:	:	22,7×9 23,151	32,981 31,185	24,357 20,234	24,803 24,409	55,012 48,938	35,405 40,481	14,834 13,848	14,498 14,279	22,24 4 21,51 6	17,749	9,997	8,755 8,837	19,011	19,77 2 22,245
Consul	. 806	-lettor	1961			1,140,	362	721,	907	1,37	0,677	523,	977	78	,160	319,6	35	720,	,440
1911	. ,~,			. •		26,477	30,562	25,603	23,954 22,410	51,563	38,286		13,016 14,133	23,028 23,047	17,298 17,471	11,754 11,462	8,985 9,728	22,124 21,649	21,630
1012	:	•	:	:	:	24,925 26,045	80,011 85,175	23,848 27,910	24,027	50,878 58,019	33,121 38,770	16,616	14,852	24,128	19,690	12,488	9,472	24,798 18,261	18,084
1934	•	•		•	:	25,717 25,334	84,35 6 84,098	25,733 29,542	21,154 18,995	44,743 54,342	41,837 30,204	16,599 16,421	15,041 14,120	24,561 24,854	19,156	11,945	10,296	24,557	14,587
1916	:	:	•	•	•	30,495 26,638	87,144 83,409	80,525 81,026	17,054 21,395	54,46 3 60,516	38,361 35,980	18,812 15,929	16,246 16,840	25,4#4 25,347	21,064	12,442	10,376	26,739	15,209 15,068
1924	•	:	:	:	:	24,256	35,556 34,152	24,39A 27,193	22,016 17,662	51,492 49,154	87,150 53,047	15,611	14,224	25,494 25,854	20,04 8 21,478	12,23 8 12,854	10,441	19,128 20,444	14,547 13,77 6
1940	:	:	:	:	:	24,250 24,730	31,524	21,692	19,435	57,488	30,576	18,916	9,669	24,846	19,140		0,005	18,620	12,404
Cross	, bol	طاطه	1941	•	•	2,106,		840,		1,640,		583,		845,		876, 11,808	369 10,71 7	844, 16,219	,315 11,221
1941	•	:	:	:	:	29,290 19,637	34,176 24,594	20,496	19,318	56,768 55,116	81,431 33,333	14,879	10,782 9,061	25,930 23,789	19,902	10,896	10,278	12,894	6,760 11,641
1941	•	•	:	:	:	19,656	52,264 52,645	22,234 17,54 6	37,161 2×,1~6	36,741 20,123	65,07 8 66,916	14,217 14,636	12,165	19,841 16,116	27,315	9,658 7,643	11,256	10,237 15,536	26,791
1944	:	:	:	:	:	27,728	41,578	24,141 25,834	23,931	44,426	46,617	12,597	15,357 16,376	19,67 5 25,101	24,207 23,420	10,297 10,44 0	10,936 9,036	15,516	20,671 19,26 6
1944	:	:	:	:	:	31,411 31,204	41,135	21,194	19,434	34,9~0	83,474	13,516	14,762	24,356 26,597	14,740	11,461	8,531 8,764	18,529	11,208 12,141
1944	:	:	:	:	:	60,34 2 57,515	45,174	21,795 20,790	19,032	42,026	24.546 24.546	14,344	13,374	27,093	14,201	11,598	8,264 8,744	21,097	12,664
1950	•	•	•	•	•	44,208	12,116	17,646	14,561	37,242	25,567	13,010		24,656					12,465 140
Constant					₩	2,548 eripality s			4,924 1473, 167	4 14-41	6,769 801. TH	werter his	0,578 rth Actors	are 8/4	,538 . enm pirta	for the	,260 Year 14		•
n, ea Aus	-Alle	- parth Me for	the ye	or 167	1 ~	the rep-ri	b mast	- Burt	h i gures	are m4 a	vallable (or the ye	mr 1470 t	md 1872	dae to ar	e-regati	Mot.		-

APPENDIX V

Good and bad registration areas by districts of West Bengal: Birth rate-Municipalities-1949

(Per mille of population)

District					Below 10 p.m.		В	etw	een 10 and 20 p.m.			Above 20 p.m.
Burdwan	•	•	•	•	Asansol .	•	•	•	Burdwan . Katwa .	:	•	. Kalna . Dainhat
Birbhum	•	•	•	•	Suri				Raniganj			
Bankura	•	•	•	•	Bankura . Bishnupur	•	•	•	Sonamukhi			
Midnapur	•	•	•	•	Kharar	•	•	•	Midnapur Ghatal Tamluk	•	:	Chandrakona Ramjibanpur Khirpai
Hooghly	•	•	•	•	Rishra Bansberia	•	•	•	Konnagar Baidyabati Uttarpara Kotrung Bhadreshwar Champdani	:	:	. Hooghly-Chinsurah . Arambag . Serampur
Howrah	•	•	٠	•	Howrah Bally							
24-Parganas	•	•	•	•	Tollyganj Khardah Panihati Barrackpur Naihati Halisahar Kanchra para Barasat Gobardanga	•		• • • • • • •	Garden Reach Baruipur Budge Budge Rajpur North Dum Dum South Dum Dum Garulia North Barrackpur Taki South Subrabs Jaynagar-Majilpur Bhatpara; Kamarhati Basirhat Titagarh Baduria		•	Dum Dum Baranagar
Calcutta	•	•	•	. •	••••				••••			Calcutta
Nadia	•		•	•	Ranaghat .	•	•	•	Birnagar Chakdah	:	•	Krishnagar Nabadwip Santipur
Murshidabad	•	•	•	•	Jiaganj-Azimganj Kandi	•	•	•	Murahida bad .	• •		Berhampur Jangipur Dhulian
Jalpaiguri	•	•	•	•	••••				••••			Jalpaiguri
Darjeeling	•	•	•	•	****	•			••••			Darjoeling Kurseong Kalimpong
Malda . 1 CENST	• 75	•	•	•	****				••• •••			Englishbazar Old Malda

Good and bad registration areas by districts of West Bengal: Birth rate—Police Stations—1949

District					Below 10 p.m	.			В	tween 10 and 2	20 p.1	n.			Above 20 p.m.
Burdwan	•	•	-	•	Kulti Salanpur Khandaghosh	•	•	•	•	Burdwan Memari Galsi Ausgram Kalna Katwa Katwa Ketugram Faridpur Kanksa Asansol Raniganj Ondal Raina Jamalpur Bhatar Purbasthali Mangalkot Barabani	•		•		
Birbhum		•		•		••••				Sainthia Dubrajpur Illambazar Bolpur Nanoor Rampurhat Mayureswar Suri Rajnagar Khayrasol Labpur Murarai	•	:	•	•	Muhammad bazar Nalhati
Bankura	•	•	• .	•	Indas • Barjora	•	•	•	•	Bankura Saltora Mejhia Onda Jaypur Patrasair Gangajalghati Indpur Khatra Chhatna Simlapal Vishnupur Sonamukhi Kotulpur Raipur	•	•	•	•	Taldangra Ranibandh
Midnspur	•	•	•	•	Daspur . Panakura Egra Sankrail		•	•	•	36.3		•	•	•	Jambani Binpur Garhbeta Moyna Keshiari Narayangarh

Good and bad registration areas by districts of West Bengal: Birth rate—Police Stations—1949—contd.

District		Below 10 p.m.	Between 10 and 20 p.m.	Above 20 p.m.
Hooghly .		Magra	Pandus Dhaniakhali Balagarh Tarakeswar Arambag Goghat Pursura Serampur Singur	• Chanditala
Howrah .		Bally	. Bagnan . Shyampur	
24-Parganas .		Tollyganj Metiabruz Budge Budge Baruipur Sonarpur Bhangar Jaynagar Noapara Titagarh Naihati Bijpur Habra Behala Maheshtala Bishnupur Canning Khardah Jagaddal Barasat Gaighata Bangaon Swarupnagar Kakdwip Magrahat Mathurapur	Dum Dum Amdanga Rajarhat Basirhat Hasnabad Sandeshkhali Baduria Haroa Diamond Harbour Kulpi Falta Sagar Deganga	
Nadia • •		Chakdah • • •	Nrishnagar Nabadwip Nakasipara Tehatta Ranaghat Santipur Kaliganj Karimpur Krishnaganj Haringhata Hanskhali	• Chapra
Murshidabad .	• • •	Berhampur Town	Nawada Raninagar Murshidabad Bharatpur Kandi Khargram Hariharpara Nabagram Jiaganj Bhagwangula Lalgola Burwan Suti Boldanga	Domkal Sagardighi Raghunathganj Jalangi Samsorganj

Good and had registration areas by districts of West Bengal: Birth rate—Police Stations—1949—concld.

District					Below 10 p.m.		1	Bet	ween 10 and 20 p.m.	•			Above 20 p.m.
Malda .	•	•	•	•	Kharba . Kaliachak .	•	•	•	Harishchandrapur Ratua . Gajol .	:	•	•	Englishbazar Manikchak Bamangola Malda Habibpur
West Dinajp	u r	•	•	•	••••				Kushmandi Tapan Gangarampur Balurghat . Itahar Banshihari	:	:	•	Kumarganj Raiganj Hili Kaliaganj Hemtabad
Jalpaiguri	•	•	•	•	Mainaguri .	•	•	•	Jalpaiguri . Alipur Duars .	:	:	•	Rajganj Mal Falakata Kalchini Nagrakata Madarihat Matiali Kumarganj Dhupguri
Darjeeling Good and	• bad	regi	• strati	• on	 areas by distri	icts of	Wes	t B	Siliguri Pulbazar Jore-Bunglow	i.	-Mun	icip	Kurseong Phansidewa Sukhiapokri Rangli Rangliot Mirik Darjeeling Kharibari Garubathan alities—1949
Burdwan	•	•	•	.•	Burdwan Dainhat Ranigani	•	:	:	••••				Kalna Katwa
Birbhum	•	•			Asansol Suri								
Bankura	•			•	D 1				.C11.				
Midnapur	•	•	•	:	Bankura . Vishnupur	•	•	•	Sonamukhi				•
		•	•	•		•	•		Sonamukhi Ghatal . Tamluk . Ramjibanpur Chandrakona	•	•	•	• Midnapu r Khirpai
Hooghly	•	•	•	•	Vishnupur	•	•		Ghatal . Tamluk . Ramjibanpur	•	•	•	Midnapur

Good and bad registration areas by districts of West Bengal: Death rate—Municipalities—1949—concld.

District					Below 10 p.m	•		Ве	twe	en 10 and 20 p.m.		•		Above 20 p.m.
Calcutta Nadia .	•		•	:	T 1 1	•	:,	•	•	Krishnagar Birnagar Santipur Chakdah	:	:	•	Calcutta Nabadwip
Murshidabad	•	•.	•	•	Kandi Jiaganj Jangipur Dhulian	•	•	•	•	Murshidabad .	•	•	•	Berhampur
Jalpaiguri		•			••••					Jalpaiguri				
Darjeeling	•	•	•	•	••••					Darjeeling Kurseong Kalimpong				
Malda .	•	•	•	•	Englishbazar		•	•	•	Old Malda				

Good and bad registration areas by districts of West Bengal: Death rate—Police Stations—1949

District				Below 15]).m.		В	etw	een 15 and 25]	p .m.				Above 25 p.m.
Burdwan	•	•	•	. Asansol Raniganj Ondal . Jamuria Barabani Salanpur Kulti . Khandagh	osh			•	Burdwan Jamalpur Raina Memari Galsi Kalna Manteswar Bhatar Ausgram Purbasthali Katwa Mangalkot Faridpur	•	•	•	•	Ketugram Kankea
Birbhum	•	•	•						Murarai. Sainthia Bolpur. Nalhati Rampurhat Muhammadba Khayrasol Mayureswar	• • • • • • • • •	•		•	Suri Rajnagar Dubrajpur Illambazar Labpur Nanoor
Bankura	•		•	• Saltora • Simlapal Indas •	•	:	•	•		•	•	. •	•	Gangajalghati Barjora Sonamukhi
Midnapur		•	•	• Tamluk I Nandigrar Sutahata Contai • Ramnagai Khedgree		•		•	Khargpur Garhbeta Salbani . Jhargram Binpur . Gopiballavpur Nayagram Daspur Mahisadal Panskura Bhagwanpur Midnapur Dantan Mohanpur Debra Keshpur Jambani		•	•	•	Narayangarh Keshiari Pingla Pataspur Sabang

Good and bad registration areas by districts of West Bengal: Death rate-Police Stations-1349-contd.

District	,	Below 15 p.m.	Between 15 to 25 p.m.	Above 25 p.m.		
Midns pur—contd.	• •	••••	Ghatal Chandrakona Moyna Egra			
Hooghly • •	• •	Chinsurah Magra	Serampur Tarakeswar Jangipara Arambag Pursura Khanakul Polba Pandua Dhaniakhali	- Chanditala		
Howrah	• •	Bally	. Amta . Bagnan . Shyampur			
24-Parganas .		Tollyganj Behala	. Amdanga . Deganga . Habra . Gaighata . Bangaon . Kulpi . Magrahat . Mathurapur			
Nadia - • •	• •	,	Kaliganj	Ranaghat Haringhata Hanskhali Krishnaganj		
Murshidabad	• •	Berhampur	Domkal Jalangi Beldanga Hariharpara Nawda Nabagram Murahidabad	• • Burwan		

Good and bad registration areas by districts of West Bengal: Death rate—Police Stations—1949—concld.

District	Below 15 p.m.	Between 15 to 25 p	Above 25 p.m.
Murshidabad—contd.	• • • • • • • • • • • • • • • • • • • •	Jiaganj Sagardighi Samserganj Bharatpur Kandi Khargram	-
West Dinajpur	. Gangarampur	Hili Tapan Kushmandi . Balurghat . Itahar	Kumarganj Raiganj Kaliaganj Hemtabad Bansihari
Jalpaiguri	Madarihat .	Kotwali	Rajganj Mal
Darjeeling	. Kalimpong .	Jore Bungalow Pulbazar Mirik Sukhiapokri Rangli Rangliot Garubathan Kurseong Siliguri	Sadar Phansidewa Kharibari
Malda	. Kharba Harishchandrapur Kaliachak Ratua Gajol	Englishbazar Manikchak	Bamangola Habibpur Malda

N.B.—Municipalities having less than 10 p.m. birth rate and 15 p.m. death rate are bad registration areas.

Police Stations having less than 20 p.m. birth rate and 15 p.m. death rate are bad registration areas.

Places with more than 20 and 30 p.m. birth rate for Municipalities and Police Stations and more than 20 and 25 p.m. death sate for Municipalities and Police Stations respectively are good registration areas.

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[Continued from inner side of the front cover.]

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J. Ray & Sons (India), Ltd., 2, Regal Building.
Jain Book Agency, Connaught Place.
Jayna Book Depót, Chapparwala Kuan, Karol Bagh.

NEW DELHI—contd.
Oxford Book & Stationery Coy., Scindia House.
Ram Krishna & Sons (of Lahore), 13/13, Connaught Place.
Saraswati Book Depôt, 15, Lady Hardinge Road.
Sikh Publishing House, Ltd., 7-C, Connaught Place.

PATIALA—
Jainco, Booksellers, etc., Bazar Shaha Nashin.

PATNA—
Sohan Singh & Sons, Pirmohani, P. O. Kadam Kuan.
Supdt., Government Printing, Bihar, P. O. Gulzar Bagh.

PATNA CITY—

*Hindi Pustak Agency.
Lakshmi Trading Co., Padri-ki-Haveli.
Raghunath Parshad & Sons.

POONA—
Deccan Book Stall, Fergusson College Road.
Express Book Service, East Street.
International Book Service, Deccan Gymkhana.

PUDUKKOTTAI—
P. N. Swaminathan Sivam & Co., Perumal Vilas, Bazar
Street.

RAJKOT— Mohan Lal Dosabhai Shah.

RANCHI—
Ideal Book Store, Near Paristhan Theatre, Main Road.

ROORKEE— Cambridge Book Depôt.

SHILLONG— Supdt., Assam Secretariat Press.

J. Ray & Sons (India), Ltd.
Azad Kitab Mahal, Stall No. 13.
Minerva Book Shop, Regal Cinema Building.
Sunder Das & Sons, 141, Lower Bazar.

SIROHI— National Trading Co.

SURAT— Sree Gajan Pustakalaya, Tower Road.

TRICHINOPOLY FORT— Krishna Swami & Co., Messrs. S., Teppakulam.

TRIVANDRUM— International Book House, 33, Valia Chalai.

UDAIPUR— Mewar Book Depôt.

UJJAIN—
*Manakchand Book Depôt, Patni Bazar.

VELLORE— Venkatasubban, Mr. S., Law Bookseller.