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CENSUS CF INDIA 1951

VOL. VI PART 1B

VITAL STATISTICS WEST BENGAL 1941-195^



By

A. MITRA of the Indian Civil Service, Superintendent of Census Operations, West Bengal,

and

P. G. CHOUDHURY, Assistant Director of Health Services, Vital Statistics, West Bengal.

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CENSUS OF INDIA 1951

VOL. VI PART 1B

VITAL STATISTICS WEST BENGAL 1941-1950



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A. MITRA of the Indian Civil Service, Superintendent of Census Operations, West Bengal,

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'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 were 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."1 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.¹ 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

14stricte	Census 1941	Census 1951	Variation 1941-51 according to consus Excess(+) and deficiency ()	Births 1941-50	Deaths 1941-50	Excess of birth over death(+) deficiency () during inter- census period	Difference excess (+) deficit () of column over column 7	Column 5 in percentage to column 4
•	2	3	4	. 5	6	7		9
Buriwan Birt-hum Bistapur Bistapur Howrah Howrah Za-Parganas Calculta Natis Natis Murshidalud West Dinajpur Jalpaiguri Jalpaiguri Baka	1,840,732 1,048,317 1,259,640 3,190,647 1,377,729 1,400,304 2,100,891 8,669,490 2,100,891 8,640,530 3,640,530 8,457,702 3,76,369 8,44,115	2,191,667 1,006,849 1,319,259 3,359,022 1,554,320 1,611,373 4,674,379 2,545,677 1,144,924 1,715,759 914,538 445,240 9,37,540	+ 300,935 + 18,578 + 29,619 + 165,375 + 170,501 + 121,049 + 639,786 + 304,721 + 75,229 + 317,049 + 317,049 + 35,736 + 65,736 + 65,736	421,749 277,859 315,624 771,046 308,603 244,637 658,128 344,718 226,391 429,599 146,999 231,953 195,825 165,573	372,214 287,396 268,955 649,876 233,206 257,270 672,090 427,289 237,048 293,734 140,165 215,589 98,050 140,437	$\begin{array}{c} + 49,535 \\ - 9,707 \\ + 46,580 \\ + 121,170 \\ + 76,657 \\ - 12,433 \\ + 96,038 \\ - 82,551 \\ - 11,257 \\ + 30,865 \\ + 18,824 \\ + 16,364 \\ + 7,776 \\ + 25,136 \end{array}$	$\begin{array}{r} + 251,400 \\ + 25,279 \\ - 17,070 \\ + 47,206 \\ + 100,934 \\ + 133,502 \\ + 843,781 \\ + 522,337 \\ + 315,878 \\ + 315,878 \\ + 44,384 \\ + 128,285 \\ + 52,473 \\ + 51,116 \\ + 65,129 \end{array}$	84 132 54 25 67 110 100 104 104 50 94 76 89 73
TUTLE for West Bragal (ex-		24,1.9,1.9	+ 2,942,007	4,000,954	4,290,879	+ 302,105	+ 2,000,002	84

STATEMENT 1 Vital Statistics 1941-51

ciuding Couch Behar)

'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.

STATEM	ENT	2
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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. (8) minus Col. (9)	Col. 10 in percentage to Col. 6	
1	2	8	4	5	6	7	8	9	10	11 ii	
Burdwan Birbhum Hankura Midaapur Hovrah 24-Parganas Calcutta Nadia Murshidabad West Dinajpur Jalpaiguri Darjeeling	$\begin{array}{c} \textbf{1,890,732}\\ \textbf{1,048,317}\\ \textbf{1,289,640}\\ \textbf{3,190,647}\\ \textbf{1,377,729}\\ \textbf{1,490,304}\\ \textbf{8,669,490}\\ \textbf{2,108,891}\\ \textbf{840,303}\\ \textbf{1,640,530}\\ \textbf{1,640,530}\\ \textbf{1,640,530}\\ \textbf{583,484}\\ \textbf{845,702}\\ \textbf{376,569}\\ \textbf{844,315} \end{array}$	2,191,667 1,066,889 1,819,259 3,359,022 1,554,320 1,611,373 4,609,309 2,548,677 1,144,924 1,715,759 720,573 914,538 445,260 937,580	$\begin{array}{r} + & 300,935 \\ + & 18,572 \\ + & 29,619 \\ + & 168,375 \\ + & 170,591 \\ + & 121,069 \\ + & 939,817 \\ + & 939,810 \\ + & 804,621 \\ + & 75,229 \\ + & 137,089 \\ + & 68,836 \\ + & 68,836 \\ + & 93,265 \end{array}$	96,105 11,783 9,294 33,579 61,153 61,096 527,262 433,228 426,907 58,729 1,15,510 98,572 15,738 60,198	$\begin{array}{r} + 204,830 \\ + 6,789 \\ + 20,326 \\ + 134,796 \\ + 125,438 \\ + 59,973 \\ + 412,557 \\ + 6,658 \\ - 122,286 \\ + 16,508 \\ + 12,579 \\ - 29,736 \\ + 53,153 \\ + 33,067 \end{array}$	421,749 277,669 815,624 771,046 308,863 244,837 668,128 844,718 226,301 429,599 148,989 231,953 105,625 165,573	372,214 287,396 288,935 649,876 233,206 257,270 427,269 237,048 398,734 140,165 215 589 98,050 140,437	$\begin{array}{r} + & 49,535 \\ - & 9,707 \\ + & 46,689 \\ + & 121,170 \\ + & 75,667 \\ - & 12,433 \\ + & 96,038 \\ - & 82,651 \\ - & 11,257 \\ + & 30,865 \\ + & 8,824 \\ + & 16,364 \\ + & 7,775 \\ + & 25,136 \end{array}$	$\begin{array}{r} + 155,295\\ + 16,496\\ - 26,364\\ + 18,626\\ + 318,627\\ + 49,781\\ + 72,406\\ + 316,519\\ + 89,109\\ - 111,022\\ - 14,366\\ + 12,756\\ - 46,100\\ + 45,377\\ + 7,931\end{array}$	243 130 10 40 121 77 1,359 9 91 5 87 5 59 0 155 3 85	
TOTAL for West Bengal (excluding Ooch Behat)	21,196,453	24,139,150	+2,942,697	1,999,154	+ 943,543	4,660,984	4,298,879	+ 862,105	+ 581,488	62,	

Applying the average rate of increase over the decade, and excluding the displaced population, the annual increase in population comes to 94,354 or 4.5 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 they touched the highest in 1946. The excess of

¹Census of India, 1891, Report Volume, p. 62.

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).

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 $21 \cdot 2$ 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 1943 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, depressing. The reasons for the higher are 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 \cdot 0).

Tables 13 and 14 will show that female deaths 1,000 male deaths are lowest among per 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 979.9; 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

2

1 CENSUS

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

										DEATHS.		RA	T	PROP	TOTAL	
										Male	Female	Male	Female	Male	Female	
Cholers .										9,034	8,855	•8	1.0	40.8	43·0	41-0
Fevers excludi	ng)	(alari	a and	Kala	-AZAP					66,843	59,676	5-8	6-1	298-3	290.0	294-3
Small-pox				•						4,252	4,267	•4	•4	19.0	20.7	19-8
Plague .										7	2	•001	•000±	•03	•01	•0%
Dyscatery and	Dia	rthoe	a and	enter	ic gro	up of	fever			14,755	18,956	1.8	1-4	65-8	67.8	66-8
Respiratory di					-					19,115	12,523	1.7	1.3	85.3	60.8	78-6
Sulcide .					•				-	552	539	-05	•1	2.5	2.6	2.8
Child birth											8,391		•8	••	16.5	7-9
Malaria .	Ż									51,928	50,747	4.5	5.2	231.7	246-6	133-9
Kala-azar										1,883	958	•1	•1	6.2	4.7	5+4
T. B. of lungs										4,826	2,6 21	-4	•8	21.5	12.7	17.3
Saake bites		•				•	•	•	•	873	771	•1	•1	8-9	8.7	3+ 8
									-					774-5	769-1	771.8

STATEMENT 4

Years		•							Cholera	Fevers	Small-pox	Dysentery, Diarrhoea and Enteric Group of Fevers	Malaria	Kala-azar	T. B. of Lungs
1941					-		•		•7	9-2	•4	1.2	4-0	-08	•38
1942						•			•5	8-5	-05	1.1	4-0	-07	-31
1948									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	•33
1946	•	-	-	•	Ĩ			-	-5	10-6	-1	1.2	4-8	-15	-24
1947	•								-6	9-6	•1	1.3	3-9	-14	•86
1946									-6	9-1	•4	1.8	3-6	•1+	-38
1:14:1			-						-6	8-7	•1	1.8	8.6	•12	·87
1950					•		•		-6	7.7	-6	1-8	8-7	-09	•36

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

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 small-pox at $\cdot 2$ 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 $1\cdot 3$ (except for $1\cdot 9$ in 1943 and $1\cdot 7$ in 1944) and Kala-azar at the mean rate of $\cdot 14$ 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.

of Howrah, 24-Parganas, The districts Nadia recorded an average Calcutta. and 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 smallpox. 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 dispensaries 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 70 2 (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 5-3 (1944) to 15-6 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 138 between 1943 and 1949 and stood at 63 in 1950. In 24-Parganas the figure was 81 in 1944 and steadily climbed to 19.3 in 1949 and dropped to 14.8 in 1950. In Calcutta it climbed from 1.6 in 1943 to 17.6 in 1949 and fell to 12.1 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 10.4 in 1944 to 22.9 in 1949 and 137 in 1950; in West Dinajpur from 22.9 in 1944 to 455 in 1949 to 291 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 172.1 for males and 156.0 for females.

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 quinquennium 1916-20, which included some of the war years, this figure had dropped to 20.1. 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 at-. tention 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.) -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 district towns have received beneficent and 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". and official and are intended to place the tasks of

the Government in the Department of Public Health in a correct perspective. The presentation of statistics will be fragmentary yet sufficient \cdots 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 Distric	t												Paddy	Pulses	Oilseed	Sugar-cane
24-Parganas						2	•	•	•	•	•	•	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 .					•						•		735	49	2	
Hooghly .	:	:	:				-				-		467	30	ĩ	8 3
Malda	•	:	:					•	•				487	45	25	2
West Dinajpur	:	:	:	:		•				•			611	16	34	5
Jalpaiguri .	•		•				•		-				426		34	2 2
Darjeeling .	:	:	:		:	•	•	÷					63		3	
Durjeenng 1	•	•	•									•				
			·							Total	L	•	9,320	908	150	54
Name of Distric	t								•				Wheat	Potato	Jute	Other vegetables
24-Parganas	_		_										••	5	35	82
Nadia .				-		-			-	-			9	ĭ	26	140
Murshidabad	:	:	:	:	:			-				:	42	6	33	83
Midnapur' .	:						-						2	10	9	102
Bankura	•	:	:	:	:	:	•	• •		-		:	าเ	3	-	49
Howrah .	•	:	:	:		:		_	:		:	-		6		49 12
Burdwan .	:	:	:	:		:		•	•		:	:		15	5	37
Birbhum	:	:	:	•	•	•				•	:	:	ni	5	-	13
Hooghly .	:	:	•••	•			•		•	•	•.	•	ĩ	29	28	
Malda .	-	-	• •	·	•	•	•			•		•	n	1	28 23	22
West Dinajpur	:	•				·				•		•	3	3	23 16	180
Jalpaiguri .	•	•	•		•	. •	•			•		•	. 2	6	23	29
n • •	•	•	•	•	•	•		•	•	•	•	•	1	2	23 2	16
Darjeeung .	•	•	•	•	•	•	•	•	•	•	•	•	1		Z	12

STATEMENT 6

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

Countries a	and Pro	ovir	nces			Yields p er acre (in lb., 1924-33)	Countries and Provinces	Yields per acre (in 1b., 1924-33)
Italy	•			•	Rice	2,903	Europe Wheat	1,146
Japan			•		**	2,276	Canada	∂72 846
Egypt		•	•	•		2,153	Argentina "	780 714
United	States	of	Ame	rica	**	1,469	India Bihar and Orissa	636
Siam	•	•	•	•		943	United Provinces	882 786
India	•					728	Punjab West Bengal	738 738
West I	Bengal				77	998	Sind Central Provinces	593 444

STATEMENT 6-concld.

Provinces		Yields p er acre (in lb.)	Provinces		Yields per ocre (in lb.)
Central Provinces . Bihar Orima	. Sugarcane (raw sugar) 3,394 2,280 4,352	Bombay Punjab (Undivided) West Bengal	. Sugarcane (raw suga	r) 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	Country									Average size of holdings (in acree)
Bombay .	•	•	•	•	•	•	•	12.2	England an	nd T	Vales			•				62-00
Punjab (undivided)	•	•	•	•	•		9 ·2	Germany	•		•	•	•				21.50
Madras	•	•	•	•	•	•	•	4-9	France	•	•	•	•	•	•	•	•	20.25
Bihar and Orisea	•	•	•	•	•	•	•	3.1	Denmark	•	•	•	•		•	•		40.00
Bengal (undivided)		•	•	•	•	•	•	. 3.1	Belgium	•	•	•	•	•	•	•		14.50
Assam	•	•	•	•	•	•	•	3.0	U. S. A.	•	•	•	•	•	•	•		148.00
Central Provinces	•	•	•	•	•	•	•	8.5	Holland	•	•	•	•		•	•	•	26.00

From Economics of Indian Agriculture-Narayanswamy and Narashiman.

STATEMENT 8 Distribution of acreage held by a family

										Average area heid							
District										per family (in acres)	Less than 2 acres	28 acres	8—4 Acres	4-5 acres	5—10 acres	Above 10 acres	
Bankura							-			8.17	53.7	8-9	7.8	4.5	14.8	10.8	
Birthum										4.64	15.1*	10.1	7.4	8.5	19-2	8.2	
Burdwan.	•	•	•				•	•		5.63	28.6	10-9	8.9	10-8	26.6	12-8	
Dina jpur •	•	•	•	•	•	-	•	•	•	6-38	24.2	8-9	11-1	10-2	28-3	15.0	
Hooghly .	•	•	•	•	•	•	•	•	•	3-74	82.4	19-1	13.0	10-2	18.8	10.2	
Howrah .	•	•	•	•	•	•	•	•	•	3.58	53-2						
	٠	٠	•	•	•	•	•	-	•			14-8	5.1	4-5	17.5	5.4	
Jalpaiguri *	•	•	•	•			•	•	•	8.76	5.8	6-0	10.9	16-4	83-2	20.4	
Maida • .										8-84	54-2	7.8	8-4	6.9	15-9	8.8	
Midnapur	-	-								4-23	38-2	16-1	10.9	10-5	17.6	6.7	
Murshidabad					-	-	-			4.30	88.5	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	•	•	. •	•	•	•	•	•	•	4-38	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

												E ANNUAL MILE R HEAD OF ANT		PRODUCTION PER BIRD	
							•				Cow	Buffalo	Goat	Fowl	Duck
Amam .	•		•			•	•		•	•	170•	430*	805	41†	39†
Bihar . Orieta .	•	•	•	•	•	•	•	•	•	:}	440*	1,770•	340§ 200§	60† 50†	$130 \\ 127 \\ 127 \\ 1$
Central Provi	nce		:	:			:	:	:		500 *	700*	110 š	4 8†	80†
United Provi	noes	•	•	•	•	•	•	•	•	•	800*	1,000*	125§	70†	100†
Punjab .	•	•	•	•	•	•	•	•	•	•	1,400*	2,160*	4405	55†	50†
Sind .	•	•	•	•	•	•	•	•	•	•	1,000*	1,500*	23 5§	55†	40†
Bombay .	•	•	•	٠	•	•	•	•	•	•	500*	885*	1155	60† 36	150† 73
West Bengal	•	•	•	•	•	•	•	•	•	•	420	960	80	40†	180†
Burma .	•	•	•	•	•	•	•	•	•	•	3814 7,005§	488§	600§ ,	120+	
Denmark	•	•	•	•		•	•	•	•	•	6,8895	••	••	115-6†	••
Bolgium . England and	10-1-0	•	•	•	•	•	•	•	•	•	5.5764	••	••	120†	••
New Zeeland		•	•	•	•	•		•	•	•	5,1184	••	••		
Japan .	•		:	:		•	•.	•	•	:	8.8574	••	••	129-6†	

• Report on the Development of Cattle and Dairy Industries of India by R. C. Wright (page 174). • Report on the marketing of ages in India and Burma (pages 6-7 and page 27) (published by Government of India, 1938). § 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. Bengal.

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

Production of dry fish .	. 10,000 mds. annually.	
-	(=50,000 maunds of	f
	fresh fish).	
• Requirement at Calcutta	. 6,800 maunds daily.	

• On the basis of 2 oz. per day per adult unit of the total population of 250 million for the Province and 50 million for Calcutta.

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

Supply at Calcutta market—	
From within the Province .	555 maunds daily.
From other parts of the Indian Dominion.	295 maunds daily.
From Eastern Pakistan	1,650 maunds daily.
Total supply	2,500 maunds daily.
· · · ·	······································

(b) Roads

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).

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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	Nadia			•										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	U. S. A.§	• .	•	•	•	•	•	•	. •	•	•	•	•		••	••	100
15	U. K.§	•	•	٠		•	•	•	• .	•		• .	•	•••	••	••	200
	*From the state	ment	of the -Parti	Comr	nuuica Istricta	tions a	nd Wo	rks D	epartn	ient for	the ye	ear 193	39-40.			· · ·	1. a

From "A Plan of Economic Development for India (Bombay Plan)" published in 1944.

Statement 12, taken from page 12 of Road surfaced and unsurfaced in the Different States of Problems of West Bengal (Government of West India. Bengal 1950) gives the Mileage of Existing Roads.

STATEMENT 12

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

	-	•					· · · · · · · · · · · · · · · · · · ·	,	10100 110 2100	
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			0-41
Product (including between included)	•	•	•	•	-			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		
C. P. and Berar (including States merged)	•	•	•	•	•				0-67	0.42
C. I. and Derar (including Scales 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	1-48	0-22
Orissa (including States merged)	-	-	•	-	•					
	•	•	•	•	•••	6 0,507	13,975	10,789	0 77	0-18

*Source : Basic Road Statistics of India-Ministry of Transport, Government of India.

1 CENSUS

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	Average faily supply Average daily supply jaily supply per-bead of population in galions 9 10 446,498 6-20 200,349 8-77 408,000 8-60 60,000 4-00 100,458 5-02 235,800 5-06		
Borial No.	Name of Xun	leipali	lty			Area aorved (sq. miles	Designed capacity of works	Approximate population served	daily supply in galions	Average daily supply per-bead of population in gallons.	A pproximate population served	daily supply in gallons	daily supply per-head of population		
1	1					8	4	5	6	7	8	9	10 '		
1	Berdwan.	•		•	•	. 3-30	703,080	50,500	856,110	7-05	72,000	446,498	6-20		
1	Realganj.	•	•	•	•	. 1.85	gallons daily, 150,000 gallons in	22,839	158,393	6-94	22,839	200,349	8-77		
	Assessed .	•	•	•	•	. 4-04	12 hours. 264,000 gallons in	48,006	408,000	8-60	48,006	408,000	8-50		
4	Kalas Suri Jeskurs	:	:	•	:	• 0-85 • 3-15 • 3-50	18 hours.	10,000 12,000 46,617	40,000 77,061 263,691	4-00 8-42 8-44	15,000 20,000 46,617	100,468	5-02		
T	Midsepur	•	•	•	•	. 4-00	gallons daily, 850,000 gallons	43,171	518,612	12-01	60,000	457,548	7-63		
•	Hooghly-Chi	winh	•	•	•	. 5-00	in 10 hours. 775,800 gallons	49,081	660,813	13-48	49,061	660,813	13-40		
10	Panobaria Panabaria	•	:	:	•	. 3-10 . 1-90	daily.	12,000 25,673	149,224 839,561	12-44 13-28	20,000 27,673	189,792 469,918	8-49 16-95		
11	Championy Bernmpur	:	:	:	•	1-65 2-27	512,000 gallons in	31,833 66,349	413,2+9 548,726	12-96 9-82	81,838 80,000	414,343 674,000	13-0 3 8-65		
18 14 16	TVarpara Bourna . Garden Read				•	6-80 10-10	16 bours.	18,610 879,292	127,697 4,149,161	9-38 10-94	20,000 379,292 125,000	133,072 4,137,096 \$10,009	6-65 10-91 4-06		
ii	Tollyganj	•	•		:	. +is	••	12,000	240,209	7-51	\$2,000	235,862	7-34		

Part A

							1945			1949 Average pproximate Average dally supply opulation daily supply per-head of				
Serial No.	Name of Mu	nici	pality				Area served (aq. miles	Designed capacity) of works	Approximat population served	e Average daily supply in gallons	Average daily supply per-head of population in gallons			dally supply
1	2						8	4	5	6	7	8	9	10
17	South Subarb	an.		_		-	8.70		25,200	51,222	2.08	40,000	42,700	1-07
18	South Dum D						5.98			,	••	62,200		••
19	North Dum I		•				7.00				• • •	960		••
20	Dum Dum						0.90					11,718		
21	Baranagar-K	ma	rhati				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
23	Titagarb	•					1-50		57,416	1,942,160	33-83	57.416	1,907,320	83-28
24	Barrackpore	•	•				4.50				••	36,444		••
25	Barrackpore	Canf	on man	ŧ .	•	•						13,921		
26	Garulia .	(and a		•••	•	•	1.50		20,000	193,200	9.66	80,000	177,978	
	Halisahar	•	•	•	•	•	5.20		20,000	100,200		85,438		••
27	Naihati .	•	•	•	•	•	1.68	••	42,163	282,137	6-69	42,163	248,767	5-90
28	Kanchrapara		·		•	•	2.00		44,100	202,101		80.000	240,101	•
29		THE	tway (DIOUN	•	•	7.50	••	82.000	407.621	12.74	80.000	000.000	6-25
80	Krishnagar	•	•	•	•	•					0.78			
81	Nabadwip	•	•	•	•	•	1.20	ania 000	30,583	23,854		80,000	56,000	0.70
82	Berhampu#	•	•	•	•	•	6.60	612,000 gallons daily,	40,804	353,872	8.67	70,000	875,802	5-87
88	Englishbazar	•	•	•	•	•	1.20	112,000 gallons in 8 hours (can	15,666	65,789	4.20	20,000	65,319	8.27
84	Jalpaigurl	•	•	•	•	•	3.06	run 16 hours). 112,000 gallons per day in 8 hours (can run	27,000	158,854	, 5•88	28,000	156,627	5-59
85	Darjeeling	•	•	•	•		4.85	16 hours). Depends on rain fall.	25,873	796,082	80.77	25,873	746,877	28.87
36	Kurseong	٠	•	•	•	٠	2.00	Depends on rain fall.	14,000	150,000	10.71	14,000	150,000	10-71
87	Kalimpong	•	•	•	•	•	10.00	·····	15,784	279,646	17.72	17,000	265,750	15.6
			ı		•						•	2,104,469	16,182,217	

Part B

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a .

Rural Water Supply in West Bengal in 1950

Name of District	No. of Ring wells	
	and masonry wells	y New-Sunk Re-Sunk Repaired
1	2	3 4 5
Burdwan		29 112 4,936 23 23 1,402
Benkure	• • • • • • • • • • • • • • • • • • •	7 4 480 169 73 6,076
Hooghly	• • • •	7 70 3,450 23 40 4,524
24-Parganas	• • • • • • • • • • • • • • • • • • •	63 35 9,239 38 32 2,736 57
	-	(Jet washing system)
Murshidabad	· · · ··	51 25 8,625 17 717
West Dinajpur		30 32 1,241
Darjeeling	• • • •	31 4 280 ·· ·· ··
•	50 44	488 450 43,763
From 1946-47 to 1950	138	2,063 3,011 135,291 34

15

(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 busices of Calcutta and 155 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 4.8 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 2.43 rooms on an average, 70.5 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 105 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 10.5per 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

			-			-		-	•	••••		
Nur	enditure levels nber of families rage size of fam	ıily								0-50 66 2·73	51-100 348 4·24	101-150 361 5·80
	Items								Unite	Quantity	Quantity	Quantity
1	Rice .		•		•		•		Seer	8.629	8.555	8.585
1	Atta .									3.673	3.031	3.042
3	Chirs and mu	ri 📜							**	0-095	0.119	0-183
Ā	Bread .		-							0.012	0.022	0.093
5	Pulses .			-			-		-	1.536	1.355	1.328
6	Fish .	-	-	-	-				97 10	0.402	0.221	0.802
Ť	Meat .	-								0.025	0.170	0.205
8	Eggs .	-	-						Number	0.054	0.298	0.493
9	Milk .			-					Seer	0.751	1.212	2·048
10	Other milk p	roduct	la -		•					•••	••	••
- 11	Vegetable gh	. 90	•							0.023	0.029	0-067
12	Edible oil							-		0.622	0.612	0.223
13	Potato .		-							1-466	1.532	1.872
14	Other vegeta	bire								••	••	••
15	Salt				•				Seer	0-530	0.486	0-488
16	Spices .						•		••	••	••	••
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 refresh	ment	•	•		•	•	•	••	••	••	••
- 21	Total fond .	-		•	•	•	•	•	•• _	••	••	•••
	Coal.				-				Maund	0.428	0-450	0-424

Per Capita Monthly Consumption and Quantity by Expenditure Level

STATEMENT 15

Comparison of Food Value (in Calories) with other countries

P	RE	a	١T.

8eria) No,	Foodstuff	¢	Balanced diet Director o Public Health, West Bengal)		Mexico	Germany	Great Britain	Pojand ,	Turkey (Istambul)	Calcutta expendi- tars level Ba. 201- 250	Outside Calcutta salary level Ba. 0-150 (per capita)	Outaide Calcutta salary level Ba. 0-150 (per equivalent aduit male)	Balanced diet, Dr. Akroyd
1	2		8	4	5 1	6	7	8	9	10	11	12	13
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17 13 9	Bread Cake, Biscuit, etc. Flour Cereals (Bice, etc.) Pulses Meat Fish Animal fat Vegetable fat Vegetable fat Vegetable fat Wilk products Eggs Potato Vegetables Onion Sugar Gur Fruits	• • • • • • • • • • • • • •	412 1,010 308 57 56 7 407 185 50 44 46 .20 112 24	666.8 286.5 161.0 354.9 23.0 77.5 111.1 212.0 224.1 116.0 224.2 42.8 	1,177-2 208-9 268-3 2-5 12-9 224-0 18-6 39-3 29-3 27-1 317-8 	1,109-8 141-0 63-2 191-4 17-8 18-1 81-0 196-0 14-2 29-7 433-3 20-0 214-1	1,039-4 339-8 258-7 194-6 27-3 93-9 297-4 518-2	1,746.3 225.5 101.6 246.3 12.6 10.8 146.7 8.2 22.1 533.0 31.1 533.0 31.1	2,312-4 114-4 103-5 99-0 16-7 201-5 40-9 13-3 28-8 37-2 49-8 184-5 	35-0 317-0 939-0 141-0 12-0 31-0 211-0 61-0 4-0 63-0 124-0 31-0	163-0 1,290-0 127-0 36-0 175-0 58-0 5-0 3 99-0 29-0	211-0 1,679-0 166-0 47-0} 47-0} 75-0 7-0 44-0 7-0 122-0 88-0	1,470-0 294-0 132-0* 528-2 144 0 81-5 32-0
19	TOTAL	•	2,833	2,722-4	2,325-9	2,479-6	2,768.8	3,384·0	8,201.5	1,969-0	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

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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'.

STATEMENT 16

Comparison of Various Diets with Jail Diets (Quantities)

								Balanced	· · ·	JAIL	dirt		Calcutta		CALGUTTA EVEL 0-150
Serial No.	Foodstui	ſ					- () Pi	diet for adult male Director of ablic Health.	Division I	AND II	DIVISIO	I III	expenditure level 201-250	per capile	Per equivalent adult male
							,	West Bengal)	A	в	Class I	Class II			
1	2							3	4	5	6	7	8	9	10
	Bice .							5-00		• •					
\$	Wheat		•	•		•	•	2.00	8-00 2-00	8-00 8-00	12-00	10-00	4-65	6-39	8-31
ĩ	Pulses .		•	•	:	•	:	1.20	2.00	1.30	2.50	A	1.71	0-79	1-03
Ā	Leafy veg	etal	line	•	:	•	:	2-00		-		2-50	0-70	0-63	0.82
6	Non-leafy	ver	etab	las	:		:	2.25	4-00	2.50	4-00	4-00	••	••	••
•	Fruite .				-	:		1.50					••	••	••
7	Potatoes			-	•			0-75	2.00	2.0	••	••	1-08	0-60	A.70
8	Onion		•	•	•		•	••						0-16	0-78 0-21
	Milk .		•		•	•	•	5-00	1-00	1-00			1.44	1-67	2-04
10	Milk produ	acta		•	•	•	•	••	2-00	••					
11	Sugar .		•		•	•	•	0-50	1-00	1-00	••		0-52	0-39	0-51
11	Gur .		•	•	•	•	•	0-50	0-25	••	••		.0.14	0-13	0.17
13	Edible oil		•			•		0-75	0-50	0-25	0-30	0-30	0-39	0-82	0.42
14	Ghee .	•	•	•	•	•	•	0-25	0-75	•• .		••		0-05	0-07
16	Fish .	•	•		•	•	•	1.00	2-00	5-00	••		0-55	0.65	0-84
16	Meat .		•		•	•	•	0-50	••	••	••		0-11	0-11	0-14
17	Les .	•	•	•	•	•	•	0-50	••	••	••	••	0-04	9-05	0-07

STATEMENT 17

MIDDLE CLASS FAMILY BUDGET ENQUIRY, 1945-46

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

(All centres combined)

		1	L				2	3	4	5	6	7	8	9
Expenditure level							150	51-100	101-150	151-200	201-250	251-300	301-350	Soland above
Average size of fam Number of families Number of persons	-	•	•	•	:	:	2-76 41 118	4-70 216 1,016	8-15 243 1,495	7•58 204 1,547	8-46 134 1.133	9.02 101 902	9-88 68 573	11-62 89 1.034
Food Clothing Fuel and light Housing Miscellaneous	•	•	•	• •			9·59 0·88 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 3.23 12.49 0.86 8-23	18-00 8-41 2-78 1-07 9-71	17:72 8:76 2:55 0:98 15:10
					TOTAL	•	14-55	16.73	20.71	22.89	26.35	29.77	\$2.97	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."

1 CENSUS

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

Vear Stear	N	umber of births	Number of deat	hs	Excess(+) or deficiency(Excess(+) or deficiency(Excess(+) or deficiency()	female births female
A (18)	Both Sexos	Male Female	Both Sexes Male	Female	births over male births	deaths over male deaths	of births over deaths, both sexes	per 1,000 deaths male per 1,000 births male deaths
1	2	8 4	õ 6	7	8	9	10	11 12
Total 1941-50	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{ccccc} 2,410,792 & 2,241,102 \\ 2:30,014 & 214,529 \\ 2:53,200 & 234,953 \\ 2:35,710 & 2:17,864 \\ 2:22,184 & 2:55,671 \\ 2:71,868 & 2:52,497 \\ 2:38,516 & 2:18,840 \\ 1:96,160 & 1:81,216 \\ 2:28,712 & 2:11,302 \\ 2:63,103 & 2:43,475 \\ 2:80,825 & 2:00,965 \\ \end{array}$	$\begin{array}{cccccc} 4.298,879 & \textbf{2},240,765 \\ 356,843 & 185,446 \\ 372,559 & 190,116 \\ 385,278 & 198,401 \\ 387,165 & 201,062 \\ 414,087 & 216,331 \\ 448,600 & 233,312 \\ 577,875 & 800,429 \\ 624,266 & 332,182 \\ 347,886 & 182,313 \\ 384,220 & 201,178 \\ \end{array}$	2,058,114 171,397 182,443 186,877 184,103 198,856 215,288 276,946 292,084 165,573 183,047		$\begin{array}{r}182,051\\14,049\\7,673\\11,524\\14,959\\17,976\\18,024\\23,483\\40,098\\18,740\\18,740\\18,740\\18,726\\ \end{array}$	$\begin{array}{r} + 362,105 \\ + 87,700 \\ + 115,504 \\ + 68,286 \\ + 40,690 \\ + 109,679 \\ + 8,756 \\ - 199,999 \\ - 184,252 \\ + 158,092 \\ + 157,060 \end{array}$	926:2 913:5 932:7 924:2 927:9 950:6 924:2 925:6 925:2 925:6 925:7 914:0 917:5 922:7 923:8 921:8 923:4 903:2 923:4 903:2 930:9 909:9

TABLE 1.1

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

Locality						Nu	mber of births		Nu	mber of deat	bs	Excess(+) or deficiency() of female	Excess(+) or deficiency(Excess(+) or deficiency(Number of female births per 1.000	Number of female deaths	
							Both Sexes	Male -	Female	Both Sexes	Male	Female	births over male births	deaths over male deaths	deaths, both sexes	male births	per 1,000 male deaths
1							2	8	4	5	6	?	8	0	10	11	12
WEST BENGAL	STA :	t e	•	•		•	541,280	280,325	260,955	884,220	201,173	183,047			+ 157,060	930-9	909-9
Burdwan Divisio	a	•	•	•	•	•	870,526	139,615	180,911	183,947	95,496	88,451	- 8,704	- 7,045	+ 86,579	937-7	925-9
Burdwan Birbhum Bankura 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	24,578 16,771 18,127 40,097 17,886 14,007	86,518 23,173 27,042 54,842 22,216 20,656	19,148 12,047 18,949 27,954 11,508 10,890	17,870 11,126 18,098 26,888 10,708 9,766	1,352 1,582 676 1,926 1,778 1,390	- 1,778 - 921 - 856 - 1,566 - 800 - 1,124	+ 13,980 + 11,951 + 9,888 + 27,778 + 14,234 + 8,748	947-8 962-8 964-0 954-2 906-8 909-7	907+1 923:5 938:6 944*0 980:5 896*8
Presidency Divis	ion	•	•	•	•	•	270,754	140,710	130,044	200,278	105,677	94,596			+ 70,481	924-2	895-1
24-Parganas Calcutta Nadia . Murshidabad Malda . West Dinajpu , Jalpaiguri . Darjceling . Coooh Behar .	•	•	•	• • • • • • •		• • • • • • • • •	89,116 29,200 27,458 56,768 15,068 15,816 25,080 11,808	46,151 16,038 14,202 29,828 7,824 8,010 13,267 5,900	42,065 13,257 13,256 27,445 7,244 7,808 12,663 5,408	58,226 36,176 21,766 81,431 10,166 11,362 20,439 10,717	86,245 19,718 11,408 16,862 5,461 5,990 10,422 5,576	27,981 16,463 10,848 14,569 4,705 5,872 10,017 5,141 Not available	8,186 2,776 946 1,878 580 204 604 604	- 2,204 - 3,250 - 1,060 - 2,293 - 756 - 618 - 405 - 435	$\begin{array}{rrrr} + & 80,890 \\ - & 6,886 \\ + & 5,702 \\ + & 25,337 \\ + & 4,902 \\ + & 4,454 \\ + & 5,491 \\ + & 591 \end{array}$	931.0 826-9 933.4 936.0 925-9 974.5 954-5 916.0	925 1 835 1 907 1 864 0 861 6 896 8 961 1 922 0

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

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Tomite	Louity				1	Sumber of birth	•	Na	mber of deaths		Excess(+) or deficiency() of female	Excess(+) or deficiency(Excess(+) or dritciency() of birthe over	Number of female births per 1,000	Number of female deaths
LONLINY					Both Sexes	Male	Female	Both Sexes	Male	Female	births over male births	deaths over male deaths	deaths, both	male births	per 1,000 main deaths
1					2	8	<u>د</u> آ	5	6	7	8	9	10	11	12
WEST BENGAL STATE	•	•	•	•	506,578	263,108	243,475	347,886	182,818	165,578		-16,740	+ 158,692	925-4	908-8
Burdwan Division .	•		.•		259,897	184,039	125,858	171,848	88,206	83,137	- 8,181	5,069	+ 88,554	939·0	942-0
Burdwag Birbbum Bankura Midnapur Hooghly Howrah	•	•	• • •	• • • •	52,845 87,098 85,816 71,786 86,824 23,528	27,041 18,672 19,790 86,901 19,250 12,885	25,304 18,426 19,026 34,885 17,074 11,143	84,801 22,840 25,381 50,685 21,159 17,027	17,861 11,574 12,937 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	+ $18,044$ + $14,268$ + $18,435$ + $21,161$ + $15,165$ + $6,501$	935-8 946-8 945-4 847-0 849-7	920-4 978-4 965-9 965-9 911-6 842-1
Presidency Division	•	•	•	•	246,681	129,064	117,617	176,543	94,107	82,436		-11,671	+ 70,188	911-4	876-0
24-Parganas . Caloutta . Nadia . Murshidabad . Maida . West Dinajpur . Jaipaiguri . Darjeeling . Cooch Behar .	• • • • • • •	•	•		81,184 19,887 80,106 56,116 12,119 18,822 23,789 10,808	42,569 11,859 15,666 28,870 6,810 7,003 12,254 5,538	88,565 8,478 14,440 26,746 6,809 6,819 11,485 5,275	49,898 24,594 21,882 83,333 6,308 10,353 19,902 10,273	26,444 14,473 11,344 17,418 8,369 5,387 10,211 5,476 Wot 4	23,454 10,121 10,538 15,920 2,949 4,966 9,691 4,797 Available	$\begin{array}{r}4,004 \\2,881 \\1,226 \\1,624 \\501 \\184 \\769 \\258 \end{array}$	- 2,990 - 6,852 - 806 - 1,493 - 410 - 421 - 520 - 679	+ 81,236 - 4,767 + 8,224 + 21,788 + 6,811 + 3,409 + 8,857 + 585	905-9 746-4 921-7 942-8 920-6 973-7 937-2 958-4	840-9 899-8 928-9 914-8 877-9 921-8 949-1 876-0

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	L	Excess(+) or deficiency(Excess(+) or deficiency()	Bross(+) or deficiency(Number of female deaths
					Both Sexes	Male	Female	Both Sexes	Male	Temale	births over male births	deaths over male deaths	deaths, both sexes	male births	per 1,000 maie desths
1					2	8	4	5	6	7	8	9	10	11	12
WEST BENGAL STATE	•	•	•	•	8440,014	228,712	211,302	624,266	832,182	292,084	-17,410	-40,098	- 184,252	923-9	879-8
Burdwan Division .	•	•	•	•	243,106	125,323	116,783	815,035	168,021	147,014	- 8,540		- 92,929	931·9	875-0
Buriwan Birbhum Kankura Midnapur . Hooghly Howrah	•	•	•••••	•	42,328 83,221 33,808 74,319 82,840 25,590	21,837 16,989 17,888 38,500 17,166 13,443	20,491 16,232 16,429 85,419 15,674 12,147	47,467 40,489 40,170 124,735 27,496 84,674	24,842 20,612 20,883 67,247 14,810 19,627	22,625 19,877 19,287 67,422 12,656 15,047	- 1,346 - 757 - 968 - 2,681 - 1,492 - 1,296	$\begin{array}{r} - 2.217 \\ - 735 \\ - 1.596 \\ - 9.755 \\ - 2.124 \\ - 4.580 \end{array}$	$ \begin{array}{r} - & 5,139 \\ - & 7,268 \\ - & 6,362 \\ - & 50,420 \\ + & 5,344 \\ - & 9,084 \end{array} $	033-4 055-4 044-8 030-4 013-1 003-6	910-8 904-3 923-6 854-9 854-6 706-6
Presidency Division .	•	•	•	•	197,908	103, 389	94,519	509,231	164,161	145,970	- 8.870	—19,091	- 111,323	914-2	883 [.] 7
24-Paryanas Calcuta Nadia Murshidabad West Dinajpur Jalpalguri Darpeding Cooch Schar		• • • • •	•	•	63,901 20,658 23,041 36,741 9,048 14,659 19,542 9,658	33,854 11,394 11,946 18,956 4,775 7,571 9,988 4,907	80,047 9,244 11,095 17,785 4,273 7,418 9,856 4,761	91,213 52,268 35,840 65,073 11,817 12,458 26,604 11,258	51,379 27,709 19,706 33,131 5,591 6,542 18,933 5,870	39,834 24,559 19,134 31,942 5,426 5,916 12,871 6,888 t evallable	- 8,607 - 2,130 - 851 - 1,171 - 602 - 153 - 130 - 126	11,545 	- 27,812 - 81,610 - 16,709 - 23,332 - 2,269 + 2,531 - 6,962 - 1,570	847-5 841-3 924-8 934-2 844-9 979-8 947-0 947-0 947-8	775-8 866-8 971-0 921-1 921-1 94-3 923-8 917-9

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

1					1	Tumber of birt	hs	N	umber of deaths		Excess(+) or deficiency(Excess(+) or deficiency(female births	Number of female
Locality					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 maie deaths
1					2	8	4	5	6	7	8	9	10	11	12
WEST BENGAL STATE	•	•	•	•	877,376	196,160	181,216	577,875	300,429	276,946	14,944	- 23,483		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 Hirbhum Hankurs Midnapur Hooghly Howrah	•		•		86,857 21,691 24,160 65,792 28,610 27,817	18,821 11,183 12,556 84,058 14,939 14,837	17,086 10,508 11,604 81,736 13,671 18,480	48,651 41,200 81,484 79,124 29,885 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	$\begin{array}{c} - 1,285 \\ - 675 \\ - 952 \\ - 2,324 \\ - 1,268 \\ - 857 \end{array}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	- 13,294 - 19,509 - 7,324 - 19,332 - 7,5 - 11,999	939-6 924-2 931-8 915-1	942.5 1,035.2 982.0 941.3 938.3 938.3
Presidency Division	•	•	•	•	178,949	90,786	83,183	807,715	162,665	145,050	- 7,583	- 17,615		918-5	891·8
24-Pargapas Calcutta Nadla Murshidabad Malda West Dinajpur Jalpaiguri Darjeeling Coood Belar		• • • • • •		•	51,643 21,931 10,740 29,128 10,102 14,591 16,116 7,048	27,152 11,689 8,733 16,051 8,449 7,538 8,276 8,878	24,491 10,242 8,007 14,072 7,713 7,053 7,840 8,765	84,418 52,845 80,768 56,916 25,851 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 23,243 14,917 28,090 12,017 8,918 13,168 5,515 valjable	- 2,661 - 1,447 - 726 - 979 - 736 - 485 - 436 - 118	- 6,054 - 6,359 - 934 - 736 - 1,317 - 735 - 976 - 496	$ \begin{array}{r} - 80,914 \\ - 14,028 \\ - 27,798 \\ - 9,188 \\ - 8,983 \\ - 11,199 \end{array} $	876-2 916-9 935-0 912-9 912-9 9912-9 9912-9 9912-9 9912-9	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

	Locality						N	umber of births		Nu	mber of deaths		Excess(+) or deficiency() of female	Excess(+) or deficiency(Excess(+) or deficiency() of births over	Number of female births	Number of female
	2008109						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	8	6	7	8	0	10	11	12
1	WEST BENGAL STATE	2	•	٠	•	•	457,856	238,516	218,840	448,600	233,81	215,288	19,676		+ 8,750	917·5	922.7
	Burdwan Division	٠	•	•	•	•	235,807	122,384	112,928	204,590	104,165	100,425	- 9,461	8,740	+ 80,717	922·7	964-1
	Burdwan . Birbhum . Bankura . Midnapur . Hooghly . Hooghly .	•	•	•	• • • •	•	88,797 24,626 81,168 86,249 28,892 26,580	20,176 12,064 16,084 44,815 15,155 18,990	18,621 11,962 15,079 40,984 18,787 12,590	86,885 29,947 25,913 57,561 25,971 28,813	18,678 14,766 13,540 29,078 13,096 15,012	17,719 15,181 12,878 28,483 12,875 13,801	$ \begin{array}{r} - 1,555 \\ - 702 \\ - 1,005 \\ - 8,881 \\ - 1,418 \\ - 1,400 \\ \end{array} $	$\begin{array}{r} - & 961 \\ + & 415 \\ - & 1,167 \\ - & 595 \\ - & 221 \\ - & 1,211 \end{array}$	+ 2,412 - 5,821 + 5,250 + 27,688 + 2,921 - 2,233	922-9 944-6 937-5 928-7 906-4 899-9	950-4 1,028-1 918-8 979-5 983-1 919-8
	Presidency Division	•	•	•	•	•	222,049	116,182	105,917	844,010	129,147	114,863	-10,215			912·0	889-4
44	24-Parganas Calcuta Nadia Murshidabad Maida Maida Maida Maida Jaipaiguri Jaipaiguri Jaipaiguri Conch Behar		•	•	•••••	•	63,918 27,728 23,834 44,426 20,228 13,043 18,575 10,297	83,731 14,616 12,570 22,999 10,620 6,809 9,485 5,302	80,187 13,112 11,264 21,427 9,608 6,234 9,090 4,995	57,778 41,878 24,751 48,617 19,536 16,305 24,207 10,988	80,300 23,824 12,860 24,930 10,468 8,578 12,515 5,672 Not	27,478 18,054 11,801 23,687 9,068 7,727 11,692 5,266 available			+ 6,140 	894.9 897.1 896.1 931.7 915.6 958.4 942.1	906.9 757.8 824.7 950-1 966.8 900-8 934.2 928-4

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

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Locality						1	fumber of birth	18	<u> </u>	umber of death	6	Excess(+) of deficiency() of female	Excrea(+) or deficiency() of female	Excess(+) OF deficiency() of births over		Number of female deaths
Locality						Both Seres	Male	Female	Both Sezes	Male	Temale	births over male births	deaths over mais deaths	deaths, both	birthe	per 1,000 male deathe
1						2	3	٠	5	6	. 7	8	9	10	11	18
WEST BENGAL STAT	£					524,365	271 868	252,497	414,687 ·	216,331	198,856			+ 109,678	928-7	916-9
Burdwan Division		۰.	•		•	269,805	189,854	130,451	190,501	98, 1 89	92,012	8,903	0,477	+ 79,804	936-1	934-8
Burdwan , Birbhum , Hankura , Midnajur , Howrhy , Howrah ,	•	•••••	•		•	48,843 80,406 85,430 90,265 85,056 26,775	25,648 16,446 19,841 46,832 18,180 14,089	23,397 14,940 18,589 43,933 16,906 12,686	85,519 81,761 23,234 53,279 22,199 24,509	18,641 15,779 12,857 27,216 11,645 12,911	16,988 15,982 10,877 26,068 10,554 11,598	- 2,049 - 526 - 1,252 - 2,399 - 1,274 - 1,408		+ 18,824 - 1,355 + 15,196 + 80,946 + 12,847 + 2,266	919-5 966-0 936-9 944-9 929-9 900-4	911-6 1,012-9 840-2 967-6 906-3 898-3
Presidency Division	•	•	•	•	•	254,560	182,514	122,046	224,186	117,848	106,344	10,468		+ 80,874	921 0	902·4
24-Parganas Calcutta Natia Murshidabad Maida West Dinajpur Jalpaguri Darjeellog Couch Behar	•	•			•	74,574 83,411 25,838 47,584 19,924 17,698 25,101 10,480	89,800 17,456 13,170 24,512 10,529 9,122 13,035 5,392	85,274 15,957 12,668 23,022 9,895 8,576 12,066 5,088	48,840 86,137 24,831 46,791 19,256 16,376 23,420 9,035	25,649 20,249 12,619 23,626 10,117 8,715 12,243 4,624	22,691 15,888 12,212 23,165 9,139 7,661 11,177 4,411 Not availabi	- 4,028 - 1,497 - 502 - 1,490 - 1,184 - 546 - 969 - 804	- 2,958 - 4,861 - 407 - 978 - 1,054 - 1,066 - 218	$\begin{array}{r} + 26,284 \\ - 2,726 \\ + 3,007 \\ + 743 \\ + 668 \\ + 1,322 \\ + 1,681 \\ + 1,645 \end{array}$	897-6 914-3 961-9 939-2 892-3 940-1 925-7 943-6	8×4•7 7×4•6 967•7 960•5 9005-8 870•1 912•0 912•0 953•9

TABLE 1.7

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

Locality		. 1	Number of birth	B	Nu	mber of deaths		Excess(+) or deliciency() of female	Excess(+) or deficiency() of female	Excess(+) of deficiency() of births over	Number of female birth per 1,000	
and the set		Both Sexes	Male	Female	Both Sexes	Male	Female	births over male births	deaths over male deaths	deaths, both	birthe	per 1,000 maie deaths
1		2	8	4	б	6	7	8	9	10	11	12
WEST BENGAL STATE	• •	427,755	222,184	205,571	887,165	201,082	186,103			+ 40,590	925 B	925·6
Burdwan Division	• •	216,054	111,839	104,215	193,910	99,102	94,808	- 7,624	- 4,294	+ 22,144	931 8	956 7
Rurdwan Birbhum Baikura Mijinapur Hooghly Howrah	• • • • • • • •	40,816 22,257 29,471 71,924 30,039 21,547	21,151 11,364 15,071 87,284 15,794 11,175	19,665 10,893 14,400 84,640 14,245 10,372	35,614 26,903 26,542 . 57,634 22,904 24,313	18,480 13,612 13,495 28,969 11,960 12,586	17,134 13,291 13,047 25,665 10,944 11,727	$\begin{array}{r}1,486 \\471 \\671 \\2,644 \\1,549 \\803 \end{array}$	1,846 821 448 304 1,016 859	+ 5,202 4,646 + 2,929 + 14,290 + 7,135 2,766	929-7 958-6 958-6 929-1 901-9 928-1	927-2 976-4 966-8 959-5 915-1 981-7
Presidency Division	• •	211,701	110,845	101,856	193,255	101,960	91,295	8,989		+ 18,446	918-S	895-4
24-Parganas Calcutta Nadia Murshidahad Maida West Dinajpur Jalpakuri Darpecing Cuoch Behar	• • • • • • • • • • • • • •	59,193 83,204 21,194 84,960 13,528 13,816 24,385 11,461	81,809 17,204 11,077 18,188 7,114 7,115 12,477 6,861	27,824 16,000 10,117 16,792 6,414 6,701 11,908 5,600	45,176 41,135 19,834 33,874 11,203 14,762 18,740 8,531	23,736 22,358 10,113 17,699 6,091 7,771 9,776 4,416 Not av	21,440 18,777 9,721 16,175 5,112 6,991 8,964 4,115 Vallable 3		- 2,296 - 8,681 - 892 - 1,624 - 979 - 780 - 812 - 801	+18,957 -7,981 +1,960 +1,106 +2,825 -946 +5,645 +2,930	888.7 930-0 913-3 923-2 901-6 941-6 954-4 955-6	9()3·3 889·8 961·2 918·9 89·3 89·6 916·9 916·9

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

Losality						נ	Jumber of births		Nu	mber of deaths		Excess(+) or deficiency()	Excess(+) or deficiency()	Excess(+) or deficiency()	Number of female births	Number of female
Locality						Both Sexes	Male	Female	Both Sexes		Female	of female births over male births	of female 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
WEST BENGAL STATE	: .	,	•	•	•	453,584	255,710	217,854	385,278	198,401	186,877	17,856		+ 68,286	924· 2	941·9
Burdwan Division .		,	•	•	•	214,555	111,140	108,415	188,424	95,193	93,231	7,725	1,962	+ 26,131	930-5	979-4
Bordwan • •	•		•	•	•	87,171	19, 808	17,868	84,844	17,538	17,806	1,485	232	+ 2,327	925.7	986-8
Birbhum	•	9	•	•	•	26,247	18,802	12,945	22,997	11,531	11,466	- 857	- 65	+ 8,250	973-2	994-4
Bankura	•	•	•	•	•	27,480	14,202	13,278	24,529	12,551	11,978	924	- 573	+ 2,951	934-9	954•8
Midnapur	•		•	•	•	76,521	89,593	86,928	59 <mark>,</mark> 273	29,625	29,648	- 2,665	+ 23	+ 17,248	932-7	1,000-8
Hooghly	•		•	•	•	26,564	18,987	12,627	22,284	11,323	10,961	1,310	- 362	+ 4,280	90 6-0	968-0
Bowrah .	•		•	•	•	20,572	10,803	9,769	24,497	12,625	11,872	- 1,034	- 753	— 3 ,925	904·8	940-4
								•								
Presidency Division .	•	•	•	•	•	239,009	124,570	114,439	196,854	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	+12,768	894.7	916-3
Calcutta	٠	•		•	•	40,842	21,222	19,120	48,178	25,767	22,411	- 2,102		- 7,836	901-0	869-8
Nadia	•	•		•	•	21,795	11,397	10,398	19,032	9,615	9,417	- 999	- 198	` + 2,768	. 912-8	979•4
Murshldabad	•	•		•	•	42,026	21,644	20,382	28,546	14,704	13,842	- 1,262	- 862	+13,480	941.7	941-4
Maida	•	•	•	•	•	20,879	10,728	9,656	12,181	6,661	5,520	- 1,067	1,141	+ 8,198	900-5	828.7
West Dinajpur .	•	•		•	•	14,884	7,434	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	+ 8,730	960-4	936-P
Darjeeling	•	•	•		•	11,318	5,776	5,542	8,762	4,469	4,293	- 284	176	+ 2,556	95 9-5	960°¢
Cooch Behar	•	•	•	•	•						ot available					
							•		TABLE 1							
							•									

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

•						, M	umber of birthe	•	Nu	mber of deaths		Excres(+) or deficiency() of female	Excress(+) or deficiency() of female	deficiency(-)	female births	female
Locality	•				• •	Both Sexes	Male	Female	Both Sexes	Male	Female	births over maie births	deaths over male deaths	of births over deaths, both sexes	per 1,000 maie births	deaths per 1,000 maie deaths
1						8	8	4	5	6	7	8	9	10	11	18
WEST BENGAL STAT	2		•		•	488,153	253,200	234,953	872,559	190,116	182,448	-18,247	-7,678	+ 115,594	927-9	959.6
Burdwan 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 . Isankura . Midnapur . Hooghiy . Hooghiy .	•	• • • •	•	•	•	40,116 26,588 29,945 78,366 27,804 21,687	20,761 13,672 15,597 40,578 14,570 11,476	19,854 12,916 14,848 87,793 18,234 10,211	82,520 24,680 23,156 59,949 20,645 22,076	16,458 12,244 11,779 29,728 10,560 11,353	16,067 12,436 11,877 80,227 10,085 10,723	- 1,407 - 756 - 1,249 - 2,780 - 1,336 - 1,265	$\begin{array}{r} - 386 \\ + 192 \\ - 402 \\ + 505 \\ - 475 \\ - 630 \end{array}$	+ 7,595 + 1,908 + 6,789 + 18,417 + 7,159 - 889	932-2 944-7 919-9 931-8 908-8 889-8	978-5 3,015-7 965-9 1,017-0 955-0 944-2
Presidency Division	•		•	•	•	263, 648	136,551	127,097	189,533	98,005	91,528	9,054		+ 74,115	980-8	933.9
24-Parganas Calcutta Natia Murshidabad Malda Wast Dinajpur Jalpaiguri Darjeeling Cooch Behar	• • • • • • •	• • • • • • • •	•	•	••••••	64,172 67,516 20,790 43,680 21,097 17,708 27,093 11,593	83,564 29,707 10,787 22,665 11,132 9,085 13,725 5,886	80,608 27,808 10,003 21,015 9,965 8,623 13,368 5,707	47,453 41,862 19,147 28,566 12,664 13,874 18,201 8,266	24,703 22,523 9,493 14,346 6,648 6,906 9,171 4,215 Not 4	22,750 19,839 9,654 14,220 6,016 6,468 9,030 4,051 svailable		$\begin{array}{r} -1,953 \\ -3,184 \\ + 161 \\ -126 \\ -632 \\ -632 \\ -438 \\ -141 \\ -164 \end{array}$	+ 16,719 + 15,653 + 1,643 + 15,114 + 8,433 + 4,334 + 8,892 + 3,327	911-9 936-1 927-3 927-2 895-2 949-1 974-0 969-0	920-9 854-6 1,017-0 901-3 904-9 678-8 984-6 961-1

TABLE 1.10

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

	•	•	•	•	•			• •	,,	:. :.		•		· •		
Locality						Nu	mber of birth		N	mber of deaths		Excess(+) or deficiency(Excess(+) or deficiency()		Number of female births	Number of female
Locality -			•			Both Sexes	Male	Female	Both Sexes	Male	Female	births over male births	of female deaths over male deaths	of births over deaths, both sexes	per 1,000 maie births	deaths per 1,000 male deaths
1	•	• •	•		•••	2	3	4	5	6	7	8	9	10	11	12
WEST BENGAL STATE		•	•	•		444,543	230,614	214,529	856,843	185,446	171,397	-15,485 .	14,049	+ 87,700	932.7	924-2
Burdwan Division		•	•	•		203,626	106,086	97,540	168,461	86,463	81,998	- 8,546	- 4,465	+ 85,165	919'4	948-4
Burdwan Birbhum Bankura Midnapur Hooghly Hownah		•	•	• • • •	•	35,479 20,431 25,421 74,704 26,254 21,887	18.877 10,499 13.187 88,733 13,864 11,426	17,102 9,932 12,234 35,971 12,390 9,911	30,395 23,406 21,484 53,340 18,947 20,889	15,790 11,869 11,253 27,154 9,998 10, 399	14,605 11,537 10,231 26,186 8,949 10,490	- 1,275 - 667 - 953 - 2,762 - 1,474 - 1,515	$ \begin{array}{r} - 1,185 \\ - 332 \\ - 1,022 \\ - 968 \\ - 1,049 \\ + 91 \end{array} $	+ 5,084 - 2,976 + 3,937 + 21,364 + 7,307 + 448	930-6 946-0 927-7 928-7 893-7 867-4	925-0 972-0 909-2 964-4 895-1 1,008-8
Presidency Division .		•	•	•		240,917	128,928	116,989	188,382	98,989	89,899	- 6,939	9,584	+ 52,535	944·0	903 . 2
24-Paryanas Calcutta Nadia Murshidatad West Dinsipur Jaipaiguri Darjeeling Cooch Belag		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	58,669 60,802 15,595 89,205 18,020 13,122 24,275 11,229	81,161 81,242 7,206 19,261 9,698 6,856 12,695 5,809	27,508 29,560 8,389 19,944 8,322 6,266 11,580 5,420	40,483 52,196 16,807 12,558 12,455 13,718 18,394 8,742	21,483 27,850 8,641 13,406 6,514 7,246 9,492 4,601 Not a	19,050 24,846 8,166 12,181 5,641 6,472 8,902 4,141 vailable	3,653 1,662 + 1,183 + - 683 1,876 510 1,115 889	2,253 2,504 475 1,225 1,173 774 590 460	+ 18,186 + 8,606 1,212 + 13,618 + 6,565 596 + 5,851 + 2,457	852-8 946-2 911-3 1,055-5 558-1 912-2 933-0	8××-8 90×-6 945-0 827-9 893-2 937-8 900-0

TOTAL BIRTHS 1941-50

	194	1-1950	16	41	- 19	942	1	943		1944		1945		1946		1947		1948	1	949	19	50
District	Male	Female	Male	Female	Male	Female	Male	Femal	e Male	Femal	e Male	Fema	e Male	Female	Male	Female	Male	Fema le	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 Midhapur Howrah S4-Parganas Jalcutta Nadia Murshidabad Maida West Dinajpur Jalpaiguri Darjeeling Ococh Behar	218,338 142,164 162,519 398,312 161,969 128,521 351,445 181,920 116,754 220,969 87,174 76,543 118,920 54,244	135,525 153,105 872,734 146,894 116,816 316,683 162,798	25,925 18,353 18,803 42,023 19,114 15,397 46,161 16,033 14,202 29,828 7,824 7,925 7,925 7,924	24,573 16,771 18,127 40,097 17,836 14,007 42,965 13,257 13,256 27,445 7,244 7,806 12,663 5,408	27,041 18,672 19,790 19,250 12,385 42,569 15,666 28,370 6,310 7,003 12,254 5,533	25,304 18,426 19,026 34,885 17,074 11,143 38,565 8,478 14,440 26,746 5,809 5,819 11,485 5,275	21,837 16,989 17,388 38,500 17,166 13,443 33,854 11,394 11,946 18,956 4,775 7,571 9,986 4,907	20,491 16,232 35,819 15,674 12,147 9,264 11,095 17,785 4,273 7,418 9,856 4,781	18,321 11,183 12,556 34,058 14,939 14,337 27,152 8,733 15,061 8,449 7,538 8,276 3,878	17,036 10,508 11,604 31,734 13,480 24,491 10,242 18,007 14,072 7,713 7,053 7,840 8,765	20,176 12,664 16,084 44,315 15,155 13,990 33,731 14,616 12,570 22,999 10,620 6,809 9,485 5,302 Not at	18,621 11,962 15,079 40,934 13,737 12,590 30,187 13,112 11,264 21,427 9,608 6,234 9,090 4,995 yallable	25,446 15,466 19,841 46,332 18,180 14,089 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 12,686 35,274 15,957 12,668 23,022 9,395 8,576 12,066 5,088	21,151 11,361 15,071 37,284 15,794 11,175 31,309 17,204 11,077 18,188 7,114 7,115 2,477 5,861	14,400 34,640 14,245 10,372 27,824 16,000 10,117	19,303 13,302 14,202 39,593 13,937 10,803 32,654 21,222 11,397 21,644 10,723 7,434 13,720 5,776	17,868 12,945 13,278 86,928 12,627 9,769 29,214 19,120 10,398 20,382 9,656 6,950 13,177 5,542	$\begin{array}{c} 20,761\\ 13,672\\ 15,597\\ 40,573\\ 14,670\\ 11,476\\ 33,564\\ 29,707\\ 10,787\\ 22,665\\ 11,132\\ 9,085\\ 13,725\\ 5,886 \end{array}$	19,354 12,416 14,548 37,793 13,234 10,211 30,608 27,808 27,808 21,015 9,965 9,965 9,965 13,368 5,707	18,377 10,499 13,187 38,733 13,864 11,426 81,161 31,242 7,206 19,261 9,698 6,856 12,695 5,809	17,102 9,932 12,234 85,071 12,890 9,911 27,508 29,560 8,889 19,944 8,822 6,206 11,580 5,420

TOTAL . 2,419,792 2,241,192 280,825 260,855 268,108 248,475 228,712 211,802 196,160 181,216 238,516 218,840 271,868 252,497 222,184 205,571 235,710 217,854 258,200 234,953 230,014 214,529

TABLE 3

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

A-Calculated on the population at the census of 1941

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	1941	-1950	1	941	1	942	1	948	1	1944	1	945	. 1	1946	1	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
• • • •	Average				•	•	- 	· . ·				-	• .•	• •	•							
Burdwan Birbhum Bankura Midnapur Hooghiy Howrah Salouta Nadia Murshidabad Maida West Dinajpur Jalpaiguri Darjeeling Cooch Behar	11.5 13.6 12.5 11.8 8.6 9.6 8.6 18.9 18.5 10.8 18.1 14.0 14.4	10.8 12.9 11.9 11.7 7.8 8.6 7.7 18.0 12.7 9.8 12.4 18.4 18.4 18.7	18.7 17.5 14.6 13.2 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 9.4 11.7 6.8 15.8 16.7 8.6 18.4 18.0 14.4	14.8 17.8 15.3 11.6 14.0 8.8 11.6 5.4 18.6 17.8 7.5 12.0 14.5 14.7	13.4 17.6 14.7 10.9 12.4 7.5 10.5 4.0 17.2 16.3 6.9 11.7 13.6 14.0	$11.5 \\ 16.2 \\ 13.5 \\ 12.1 \\ 12.5 \\ 9.9 \\ 9.9 \\ 14.2 \\ 11.6 \\ 5.7 \\ 13.0 \\ 13.$	10.8 15.5 12.7 11.2 11.4 8.2 8.2 4.4 13.2 4.4 13.2 5.1 12.7 11.6 12.7	9-7 10-7 9-7 10-8 9-6 7-4 5-5 10-4 9-2 10-0 12-9 9-8 10-3	9.0 10.0 9.9 9.9 9.9 9.9 9.0 6.7 4.9 9.5 8.6 9.1 12.1 9.8 10.0	10.7 12.1 12.5 13.9 11.0 9.4 9.2 6.9 15.0 14.0 12.6 11.7 11.2 14.1 Not ave	9.8 11.4 11.7 12.8 10.0 8.4 8.2 6.2 13.4 13.1 11.4 10.7 10.7 13.8 Ulable	13.5 14.5 15.4 14.5 13.2 9.5 10.7 15.7 15.0 12.5 15.4 14.8	12.4 14.8 14.4 13.8 12.9 8.5 9.6 7.6 15.1 14.0 11.1 14.7 14.3 13.5	$11 \cdot 2$ $10 \cdot 8$ $11 \cdot 7$ $11 \cdot 7$ $11 \cdot 5$ $8 \cdot 5$ $8 \cdot 2$ $13 \cdot 2$ $11 \cdot 1$ $8 \cdot 4$ $12 \cdot 2$ $14 \cdot 7$ $15 \cdot 6$	10.4 10.4 11.2 10.8 10.8 7.0 7.6 12.0 10.2 7.6 11.5 14.1 14.9	$10.2 \\ 12.7 \\ 11.0 \\ 12.4 \\ 10.1 \\ 7.2 \\ 8.9 \\ 10.1 \\ 18.6 \\ 13.2 \\ 12.7 \\ 12.7 \\ 12.7 \\ 16.2 \\ 15.8 \\ 15.8 \\ 15.8 \\ 10.2 \\ 15.8 \\ 10.2 \\ 10$	9.5 12.3 10.8 11.6 9.2 6.6 8.0 9.1 12.4 12.4 11.4 11.9 15.6 14.7	$\begin{array}{c} 11 \cdot 0 \\ 13 \cdot 0 \\ 12 \cdot 1 \\ 12 \cdot 7 \\ 10 \cdot 6 \\ 7 \cdot 7 \\ 9 \cdot 1 \\ 14 \cdot 1 \\ 12 \cdot 8 \\ 13 \cdot 8 \\ 13 \cdot 8 \\ 13 \cdot 2 \\ 15 \cdot 6 \\ 16 \cdot 2 \\ 15 \cdot 6 \end{array}$	$10 \cdot 2 \\ 12 \cdot 3 \\ 11 \cdot 1 \\ 11 \cdot 8 \\ 9 \cdot 6 \\ 8 \cdot 4 \\ 13 \cdot 2 \\ 11 \cdot 9 \\ 12 \cdot 8 \\ 14 \cdot 8 \\ 15 \cdot 8 \\ 15 \cdot 2 \\ 15 $	9·7 10·0 10·2 12·1 7·7 8·6 14·8 11·0 11·7 11·5 11·5 15·0 15·4	9.0 9.5 9.5 11.8 9.0 6.7 7.5 14.0 10.0 12.2 9.9 10.7 18.7 14.4
TOTAL .	. 10-1	10-6	13-8	12-8	12-4	11-4	10.7	9.9	9-2	- 8·8]]	, 11·2 ·	10-8	12-8	11-9	10-4	9.7	11-1	10-2	11-9	11.0	10-8	10.1

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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

	1941	-1950	19	41	16	048	16	48	1	944	1	945	1	946	_	1947	1	948	1	949	10	950
District	Male	Yomale	Male	Female	Male	Fomale	Male	Temale	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Maje	Temale
1	8	8	4	5	6	7	8	9	10	11	12	18	14	- 15	16	17	18	19	20	21	22	83
	Aver	Lgo																				
Burdwaa .	. 11-4	10-6	18-7	18-0	14-1	18.2	11-8	10-6	9.6	8-9	10· 6	9-8	18· 8	12-2	11-0	10.2	10.0	9.8	10-8	10.0	9.5	8-8
Birbhum .	. 18-8	12.9	17.4	16-8	17.5	17-8	15-8	15.0	10-6	10·0	12.1	11-5	14-8	14-8	11-0	10.2	12.8	12.8	18-1	18-4	10-1	9-0
Bankura .	. 18.4	11-7	14-5	14.0	15-2	14-6	18.2	12-5	9.7	8.9	12-4	11.6	15-1	14-2	11-4	10-9	10.7	10.0	11.7	10.8	9-9	9.2
Midnapur .	. 12-8	11-5	12-5	12-5	11-4	10-8	11-9	11-1	10.7	10.0	18-9	12.0	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	18-8	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	9.6	8.0
Howrah .	. 8.7	7-8	10.8	9.4	8.8	7.4	8.9	8.1	9.7	9-1	9.5	8.2	9.2	8-6	7.5	7.0	7.8	6.6	7.8	6.9	7-8	6.7
24-Parganas	. 9.5	8.2	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	7.5	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	18-9	15-4	14-6
Nadia .	. 13-4	12.6	16-9	15.7	17-6	16-2	18.8	12.4	10-1	9.2	14.6	18-1	15.2	14.7	12.8	11.7	18.2	12.0	12.4	11-5	8-8	9.7
Murshidabad	. 18-5	11-4	17.8	16-7	17.0	16.0	11-2	10.5	9-8	8.6	14-2	18.2	15.1	14-2	11-2	10.8	18.8	12-5	18.8	12.8	11-6	12.0
Malda .	. 10-1	9.0	9.8	8-6	7.8	6.7	5.9	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	9-4
West Dinajpur	. 18-1	18-4	18.7	18.8	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	11-9	15.6	14.7	11.7	10.7
Jalpaiguri .	. 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	15.9	18-1	17-4	17-9	17-6	16-4	15-0
Darjeeling .	. 14-4	18.7	15.7	14-4	14.7	14-0	18.0	12.7	10-4	10-1	14.8	13.2	14-5	18.7	15.7	15-0	15.8	14.7	15-8	15-0	16.5	14-2
Cooch Behar	•		_						_	Not	availab	le								_		
TOTAL .	. 12.8	11.7	18-2	12-3	12.8	11-4	10-6	9-8	9.8	8.6	11-3	10-4	12.8	11-9	10.2	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

Y and		West Bengal	Burdwan	Birbhum	Bankura	Midnapur	Hooghly	Howrah	24- Parganas	Calcutta	Nadia	Murshi- dabad	Malda	West Dinajpur	Jaipai- guri	Darjee- ling	Coosh Behar
A versee	for																
1941-50	•	. 936-8	931-6	933-8	943-1	933-8	906-9	90 5 ·0	901-1	894-9	939-0	944-2	899-8	946-5	950-5	950-9	
1941	•	930-9	947-8	962-8	964-0	954-2	906-8	909-7	931-0	826.9	933-4	936·0	925-9	974-5	954-6	916 6	
1942		. 925-4	935-8	986-8	961-4	945-4	887-0	899-7	905-9	746-4	921.7	942-8	920-6	973-7	937·2	953-4	Not
1948		928-9	938-4	955-4	944-3	930-4	913-1	903-6	887-5	891.3	928-8	938-2	894-9	979-8	987-0	974-8	avail-
1944		. 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	able
1945		. 917.5	922-9	944-6	937-5	923-7	906-4	899-9	894-9	897-1	896-1	931-7	904-7	915-6	958-4	942-1	
1946		. 923-7	919-5	966-0	936-9	948-2	929-9	900-4	897-6	914-2	961-9	939-2	892-8	940-1	925-7	943-6	
1947	•	. 925-2	929-7	928-6	935-5	929-1	901-9	923-1	858-7	930-0	913-3	923-2	901-6	941-8	954-4	955-6	
1948		924-8	923-7	973-2	934-9	932-7	906-0	904-8	894-7	901-0	912·3	941-7	900-5	934-9	960-4	959-5	
1949		927-9	933-8	944-7	919-9	931.5	908-3	889-8	911-9	938-1	927-8	927.2	895-2	949-1	974-0	969-6	
1950	•	932-7	930-6	946-0	927-7	928-7	893-7	867-4	882.8	946-2	911-3	1,035.5	858-1	913-5	912-2	933-0	

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	194	1-50	1	941	1	942	1	943	1	944	1	945	1	946	1	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	Femal
1	2	8.	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Burdwan .	. 192,412	179,802		17,870	17,861	16,440	24,842	22,625	25,046	23,605	18,673	17,712	18,581	16,938	18,480	17,134	17,538	17,306	16,453	16,067	15,790	
Birbhumj . Bankura	144,278 188,629	148,118 180,806	13,949	11,126 18,098	$11,574 \\ 12,937$	$11,266 \\ 12,444$	20,612 20,883	19,877 19,287	20,244 15,885	20,956 15,599	$14,766 \\ 13,540$	$15,181 \\ 12,373$	15,779 12,857	15,982 10,877	$13,612 \\ 13,495$	13,291 13,047	$11,531 \\ 12,551$	11,466 11,978	12,244 11,779	12,436 11,877	11,869 11,258	11,537 10,231
Midnapur . Hooghly .	. 883,490 . 121.129	816,886 112,077	27,954 11,508	26,888 10,708	25,766 11,069	24,869 10.090	67,247 14,810	57,492 12,686	40,759 15.160	38,365 14,225	29,078 13,096	28,483 12,875	27,216 11.645	26,063 10,554	28,969 11,960	28,665 10,944	29,625 11,323	29,648 10,961	29,722 10,560	80,227	27,154 9,998	26,18
Howran .	. 185,072	122,198	10,890	9,766	8,999	8,028	19,627	15,047	20,670	19,146	15,012	13,801	12,911	11,598	12,586	11,727	12,625	11,872	11,858	10,085 10,723	10,899	
24-Parganas Calcutta	. 804,750 . 288,568	267,840 198,701	80,245 19,718	27,981	26,444	23,454	51,879	89,834	45,236 29,602		80,300	27,478	25,649 20,249	$22,691 \\ 15.888$	23,736	21,440	25,625	23,480	24,703	22,750	21,433	
Nadia .	121.650	115.998		16,463 10.848	14,478 11.844	$10,121 \\ 10,588$	27,709 19.706	24,559 19.134	15,851	23,243 14,917	23,824 12.860	18,054 11,891	12,619	12,212	22,358 10,113	18,777 9,721	25,767 9,615	22,411 9,417	22,523 9.493	19,339 9,654	27,350 8.641	24,84 8.16
Murshidabad	204,948	193,791	16,862	14,569	17,418	15,920	83,131	81,942	28,826	28,090	24,930	23,687	23,626	23,165	17,699	16,175	14,704	13,842	14,346	14,220	13,406	
Malda West Dinajpur	. 74,844 . 78,777	65,593	5,461	4,705	8,869	2,949	5,891	5,426	13,334	12,017	10,468	9,068	10,117	9,139	6,091	5,112	6,661	5,520	6,648	6,016	6,814	
Jalpalguri	111,291	66,888 104,298	5,990 10.422	5,872 10,017	5,887 10.211	4,966 9,691	6,542 13,933	5,916 12,871	9,656 14,147	8,918 13,168	8,578 12,515	7,727 11.692	8,715 12.243	7,661 11.177	7,771 9,776	6,991 8,964	6,986 9.381	5,897 8,786	6,906 9,171	6,468 9,030	7,246 9,492	
Darjeeling Cooch Behar	50,982	47,118	5,576	5,141	5,476	4,797	5,870	5,388	6,013	5,515	5,672 Not av	5,266	5,624	4,411	4,416	4,115	4,469	4,293	4,215	4,051	4,601	

TOTAL . 2,240,765 2,058,114 201,178 183,047 182,313 165,573 832,182 292,084 800,429 276,946 233,312 215,288 216,331 198,356 201,062 186,103 198,401 186,877 190,116 182,443 185,446 171,397

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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	19	45	19	946	19	947	1	948	1	949	1	1950
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	13	14	15	16	17	18	19	20	21	22	23
. •		≜ ver	age	,								•				•							
Burdwan Birbhum Bankura Midnapur Hooghly Howrah 24-Pargans Calcutta Nadia Murshidabad Maida West Dinajpur Jalpalguri Darjeeling Cooch Behar		19.8 27.5 21.3 20.4 16.4 16.2 15.1 16.1 28.2 24.9 17.6 24.9 24.9 24.9 24.9 24.2 24.5	20-2 27-8 20-4 20-8 17-5 18-6 16-1 29-5 28-4 28-7 15-7 28-9 27-1 26-7	18-2 23-0 21-4 17-1 15-6 18-1 15-0 26-4 20-5 12-8 19-6 22-0 27-9	19.5 21.2 20.5 16.9 16.8 14.9 25.1 25.8 15.7 19.8 26.0 29.1	17.9 22.1 19.8 15.0 10.8 18.1 10.0 26.8 21.1 7.9 17.6 22.2 27.4	18.4 21.5 19.5 15.9 15.8 12.2 15.4 25.8 19.5 6.9 17.9 25.2 27.2	24-9 39-8 32-0 41-2 20-1 23-6 25-5 19-1 45-6 40-2 13-8 21-4 30-2 29-4	25.4 37.9 30.2 36.9 19.9 22.9 24.1 37.4 46.9 39.1 12.7 21.3 83.4 30.5	25.1 88.6 24.4 20.5 20.5 24.8 22.5 20.4 86.7 85.0 81.8 81.8 81.7 80.1	26.5 40.0 24.5 22.8 29.1 23.7 85.4 36.5 34.4 28.2 82.1 34.2 31.2	18-7 28.2 20-8 17-8 17-7 18-1 15-1 16-1 29-8 30-2 24-6 28-1 27-2 28-4 Not av	19.9 29.0 19.4 20.1 21.0 21.0 27.5 29.1 29.0 21.8 27.8 27.8 27.8 27.8 29.4 29.8 allable	18.6 30.1 19.0 16.7 15.8 15.5 12.7 14.0 29.2 28.7 23.8 28.5 28.6 23.1	18.9 80.5 17.1 16.7 16.5 17.7 24.2 20.9 28.4 21.5 27.5 29.0 25.0	$18.5 \\ 26.0 \\ 20.7 \\ 17.8 \\ 16.2 \\ 15.1 \\ 11.8 \\ 23.4 \\ 21.5 \\ 14.8 \\ 25.4 \\ 21.2 \\ 22.1 \\ $	19.2 25.4 20.5 18.4 17.1 17.8 28.6 23.8 19.8 12.0 25.1 23.3 23.3	17.6 22:0 19:8 18:2 15:5 15:2 12:7 17:8 12:8 17:8 15:2 22:8 17:8 22:8 20:4 22:4	19.4 21.9 18.8 19.0 17.2 18.1 14.2 34.1 23.1 17.0 18.0 21.2 22.8 24.8	16.5 23.8 18.1 18.2 14.8 13.6 12.8 15.5 22.0 17.6 22.6 19.9 21.1	18.0 23.7 17.8 19.4 15.8 18.7 29.5 23.6 17.4 14.1 23.8 23.4 23.4	15.8 22.6 17.8 16.6 18.5 12.5 10.6 820.0 16.8 16.0 28.7 20.6 23.0	16.4 22:0 16.0 16.8 14.0 16.0 11.5 87.8 20.0 14.9 18.5 23.8 23.1 23.5
TOFAL	٠	19-5	21-2	17.5	18-9	15-9	17-1	28-9	30-1	26.1	28-5	20-8	22-2	18-8	20-4	17-5	19 ·2	17-8	19-2	16-5	18-8	16-1	17.7

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

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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	1-60	1	941	1	942		1948	1	944	1	945	1	946		1947		1948		1940		1960
District		Male	Tomaie	Male	Temale	Male	Temale	Маје	Temale	Male .	Tomale	Male	Temale	Male	Temale	Male	Female	Male	Tomale	Male	Temale	Male	Temale
1		8	8	4	8	4	7	8	9	10	11	12	13	14	-15	16	17	18	19	20	81	88	23
• *		A 742																					
Burdwan Birbhum Bankura Midnapur Howrah Howrah Caleuita Nadia Murbidabad Maida West Dinajpur Jaipaiguri Darjeeling Cooch Behar	• • • • • • • • • • •	19-0 20-3 16-0 16-0 15-0 16-6 27-1 23-8 17-3 24-8 25-6	19-9 27-3 20-1 17-1 18-6 16-9 27-6 23-7 16-2 29-7 26-7	19-1 22-9 21-8 17-1 15-1 13-6 26-4 12-8 19-6 22-6 27-9	19-4 21-1 20-4 16-9 16-7 14-8 25-1 26-8 25-1 26-8 17-8 11-2 19-2 26-0 29-2	17.7 21.7 19.6 15.6 14.8 10.7 12.9 10.0 24.7 20.7 7.7 17.5 24.5 27.4	18.2 21.2 19.8 15.6 12.1 13.9 15.5 24.5 24.5 19.1 6.8 18.0 27.6 27.7	24.4 88.2 81.4 40.6 19.6 28.8 25.0 19.2 42.6 89.1 18.4 21.1 83.4 29.4	24.9 86.9 29.6 86.8 19.4 23.5 87.8 84.1 88.6 21.6 88.6 21.6 86.5 80.4	24.9 88.4 24.2 20.1 20.1 24.9 22.4 20.9 86.8 85.1 81.9 84.4 80.4	26.2 89.8 24.8 24.8 24.8 21.7 20.2 83.6 84.6 27.9 82.1 87.9 82.1 87.9 81.4	18.6 28.9 20.6 17.8 17.4 18.2 15.1 17.0 28.9 80.6 24.2 28.0 80.9 24.9 80.9 28.9 80.9	19.7 29.1 19.8 19.7 21.1 16.5 29.1 28.6 29.4 21.2 28.4 21.2 28.4 21.2 28.1 28.1 28.1 28.1 28.1 28.1 28.1	18.4 80-1 18.6 16.5 15.8 15.6 12.7 14.5 28.2 28.9 28.4 28.4 80.8 23.5	18.8 80-7 16.6 16.6 19.0 17.7 29.8 29.8 29.8 29.8 29.8 21.2 27.8 82.7 25.8	18.2 26.1 20.2 17.4 18.6 18.8 11.7 16.0 21.7 14.1 21.7 14.1 24.1 22.8	18-9 26-7 19-9 18-1 16-8 12-7 80-4 20-0 11-9 26-4 28-4 28-4	17.8 22.1 18.8 17.8 16.8 18.6 18.6 21.6 17.9 16.0 22.6 22.9 22.4	19.0 22.9 18.8 18.6 18.9 86.6 22.6 17.1 12.8 21.4 25.8 21.4 25.8	$\begin{array}{c} 16.1 \\ 23.4 \\ 17.5 \\ 17.7 \\ 18.7 \\ 12.1 \\ 16.2 \\ 21.1 \\ 15.1 \\ 22.9 \\ 22.1 \\ 21.0 \\ 21.0 \end{array}$	17.6 24.0 17.8 16.2 16.2 18.4 81.6 28.1 18.6 28.1 18.7 22.7 22.7	16.4 16.7 16.7 12.0 12.6 10.4 10.6 10.6 16.1 16.4 23.6 23.7 22.7	160 92:8 165 168 184 161 199 199 199 199 149 149 128 251 230
TOTAL	•	19-4	21-2	17-5	18-8	15.7	18-2	28-5	29-6	20-2	28-6	20-4	22·8	18-9	20.4	17.5	19-1	17.8	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

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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)

Ago laat day	birth		d+	rage of cade 11-50)	1	941	1	942	1	943	1	944	. 11	945	19	946	19	47	16	948	16	49	19	5Q ,
			Malo		<u></u>		<u></u>		No. 10		Mala			Female	<u></u>			<u> </u>	<u></u>					A
			2 430	. Fomale	Malo	Female	Male	Female	Male	Female	Male	Female	Male	E SITTATO	Male	Female	Mele	Female	Maio	Female	Male	Temale	Maie	Temale
1			8	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
All ages		•	19-5	21.2	17-5	18-9	15-9	17-1	28-9	8 0- 1	26-1	28.5	20-8	22·2	18-8	20-4	17-5	19-2	17.8	19-2	16-5	18-8	16-1	17.7
0-1	•	•	178-1	156-0	185-2	121-6	130-5	117-9	273-6	239-7	288·5	265.0	184-3	170-5	149-9	186-2	160-8	139-0	142-6	180-4	184-8	125-4	182-2	119-7
1-4	٠	•	19-5	20-6	16-6	17-8	15-0	16-0	27.2	28.1	25.0	27.1	19-5	21.2	17-9	19.2	18-9	18.7	18-9	20-2	17.5	34-6	19-0	10-4
6-10	•	•	9.0	10-1	8.4	9-5	7.0	8-5	18-7	15.0	12.6	14-4	9.8	11-8	9-1	10-8	7.6	8-8	7.6	8.8	6-9	8.0	6-8	7.4
10-15	•	•	6-9	6-7	6-4	6.2	5.7	8 -5	10-4	9-7	9-6	9-4	7.5	6-8	6-9	6.7	8-9	5-8	5.8	5-8	8-3	8.8	6-1	5-4
16-20	•	•	8.4	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	7.8	10.5	6-6	10.6	6-9	10.0
20-30	•	•	10-2	14-2	9-3	12.8	8.3	11-5	15.1	20.2 -	- /-13-9	19-5	10-8	15-2	0-9	13-8	9-2	12.8	8-9	12.8	8.8	12.6	8-2	20-8
80-40	•	•	13.5	15-1	12-2	18.9	11.0	12-4	20.0	21.9	18-4	21· 1	14-8	16.5	13.2	15-1	10-9	10.6	11-8	14-0	30-8	13.8	10-0	12.1
60-60	•	•	20.7	19-9	19.8	17.6	16.9	15-8	80-7	27-7	23-2	26-8	22.0	20-9	20-8	19-2	16.6	18.7	18-6	17.9	17-8	17.0	17.8	17.8
\$U60		•	32.3	84-6	31-8	29-9	28.2	26-9	51-1	47-1	46-9	45-5	36.6	. 35- 5	83-6	82.5	82-1	82-8	81-5	82.5	80-6	81.6	81-1	81-7
60 and al		•	84-6	94-4	73-4	81·8	66·1	74-0	119-9	128-8	110.2	122-8	86-0	97-1	79-1	88-6	81-1	91-8	77.6	88-0	78-0	89-1	74-6	63·3

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

Year	West Benga		Birbhum	Bankura	Midnapur	Hooghly	Howrah	24- Parganas	Calcutta	Nadia .	Murshi- dabad	Malda	West Dinajpu r	Jalpal- guri	Dar- jeeling	Cooch Behar
Average for 1941-50	. 918-5	\$ 84·4	992·0	940·0	948•7	925-8	904-7	87 7-2	829-8	958-6	945-6	876-4	899-8	937-2	925·2	
1941	. 909-9	907-1	923-5	938-6	944·0	930-5	896-8	925·1	835-1	907-1	864-0	861·8	896-8	961·1	922·0	
1942	. 908·2	920-4	973-4	961·9	965·2	911-6	892-1	886-9	699-8	928-9	914·8	877-9	921-8	949-1	876·0	
1943	. 879-8	910-8	964-8	923·6	854-9	856-6	766-6	775-8	886-8	971·0	964-1	921-1	904-9	928-8	917-9	
1944	. 921-8	942.5	1,035-2	982·0	941-8	938·8	926-8	866-2	785·2	941-1	974-5	901·2	928-6	930-8	917-2	
1945	. 922-7	950-4	1,028.1	918·6	979-5 .	983-1	919-8	908-9	757-8	924.7	950·1	966-8	900-8	934-2	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	953-9	able
1947	. 925.6	927-2	976-4	966-8	989-5	915-1	931.7	908·8	839-8	961·2	918-9	839-8	899-6	916-9	931-8	,
1948	. 941-9	986-8	994-4	954·8	· 1,000·8	968-0	940-4	916-8	869-8	979-4	941-4	828.7	844-1	936-9	960-6	
1949	. 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	673-8	984-6	961-1	
1950 🔺 🔹 .	. 924-2	925-0	972·0	909-2	964-4	895.1	1,008-8	888-8	908-4	945·0	908-6	827-9	898-2	987·8	9 00-0	

TABLE 11

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

A-Males

A ge			1941	1942 [.]	1943	1944	1945	1946	1947	1946	1949	1950	1941-50	Male deaths per 1,000 female deaths, average 1941-50
° 1			2	8	4	5	6	7	8	9	10	11	12	19
1 Allages	•	•	201,178	182,818	882,182	800,429	283,276	216,831	201,062	198,401	190,116	185,446	224,078	1,089
90-5	•	٠	58,480	52,999	96,565	87,884	67,818	62,873	55,628	57,178	55,789	54,030	¹ 04,869	1,101
0-1	•	•	87,900	84,848	62,588	56,600	48,949	40,754	83,885	83,575	83,976	80,412	40,748	1,183
Under 1 month	٠	•	20,754	18,809	84,271	80,994	24,066	22,817	16,797	18,144	18,463	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	8,486	• 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	22,248	23,608	21,813	28,618	24,121	981
8 5-10	•	•	18,860	12,561	22,887	20,700	16,078	14,900	12,644	12,669	11,441	11,288	14,897	1,031
4 10-15	•	•	8,450	7,657	18,952	12,618	9,798	9,102	7,888	7,692	7,140	6,874	9,117	1,269
5 15-20	•	• 1	7,846	7,119	12,955	11,717	9,098	8,430	7,716	7,555	6,846	7,180	8,640	802
6 20 80	•	•	19,071	17,288	81,491	28,481	22,115	20,496	19,051	18,607	17,262	17,192	21,105	771
7 80-40	•	•	21,505	19,490	85,510	82,116	24,986	23,136	21,164	20,405	19,145	17,710	28,512	1,185
en 840-50 . '.	•		21,265	19,270	85,112	81,755	24,057	22,888	22,222	21,248	19,791	19,760	28,796	1,478
¥ 9 50-60		• '	19,816	17,958	\$2,720	29,592	22,978	21,298	20,517	20,140	19,588	19,881 -	22,448	1,851
10 60 & above .	٠	•	80,880	27,985	50,990	46,116	85,808y	88,208	84,232	82,912	38,119	81,636	85,689	1,059

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<i>.</i> ,	1	NU	0.011	BEF	ιυ	F DEAT	HS AN	NUALLI	KEPUK	Femal		I SEA D	IAGE	GRUUPS	1341-1	730	•
λ ε ν						1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50	Female deaths per 1,000 maie deaths, average 1961-60
1						s ,		٠	5	•	T	•	9	10	11	12	. 18
L All ages .	•	•	•	•	••	183,047	165,578	292,083	276,946	215,288	198,856	186,103	186,877	182,443	171,897	205,811	916
		•	•	•	•	52,863	47,817	84,353	79,982	62,175	57,283	50,978	52,780	51,791	48,920	58,894	906
•-1		•	•	•	•	81,740	28,710	50,647	48,022	87,331	84,894	28,669	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	11,786	17,135	780
1 to 6 months		•	•	•	•	10,708	9,681	17,078	16,198	12,588	11,594	10,077	9,440	9,886	8,841	11,603	892
6 to 12 months		•	•	•	•	4,853	4,890	7,744	7,843	• 5, 708	5,2 59	, 5,364	4,968	4,863	5,122	8,561	961
1 to 5 years		•	•	•	•	21,123	19,107	83,706	81,960	24,844	22,889	22,409	24,865	22,328	28,222	24,595	1,020
510 • •	1 -	•	•	•	•	18,400	12,120	21,380	20,278	15,760	14,514	12,486	12,539	11,398	10,604	14,447	970
10-18		•	•	•	•	6,553	5,928	10,457	9,915	7,707	7,108	6,193	6,203	5,980	8,798	7,184	788
15-20		•	•	•	•	9,500	8,693	15,160	14,878	11,178	10,299	9,875	9,878	10,018	9,828	10,770	1,248
20-30		•	•	•	•	24,546	22,203	89,168	\$7, 138	28,870	26,610	24,811	24,989	24,256	2 1,001	27,359	1,296
i 30—40 。 •	•	•	•	•	•	18,598	16,822	29,676	28,138	21,873	20,145	18,754	18,846	17,884	16,396	20,718	
40-50		•	•	•	٠	14,260	12,898	22,753	21,574	16,771	15,459	15,183	14,655	13,353	14,167	16,147	\$7 \$
80 8 0		•	•	•	•	14,832	12,965	22,870	21,685	16,857	15,525	15,743	15,494	15,275	15,363	16,611	760
0 40 <u>4</u> above .	,	•	•	•	•	28,995	26,227	46,266	43,868	84,102	\$1,418	82,580	31,593	81,993	29,820	83,686	943

TABLE 12 NUMBER OF DEATHS ANNUALLY REPORTED FOR EACH SEX BY AGE GROUPS 1941-1950

32

F 1 21	MAL															
Annual av	erage											Hindu	Muslim	Christian	Aboriginals Jaine	3
1941-50	•	•	•	•	•	•	•	•	•	•	•	9 22 · 5	8 96 ·9	851-6		
1941	•		•	•	•	•	•	•	•	•	•	924·3	934-6	892-9		÷
1942	•	•	•	•	•	•	•	•	•	•	•	917·8	897-1	82 3·4		
1943	•	•	•	•	•	•	•	•	•	•	•.	876-1	799-8	813·1		
1944	•		•	•	•	•	•	•		•	•	925-6	896-2	.850 ·3	·	
1945			•	•	•	•	•	•	•	•	•	928·4	924-0	871-9	Not available	
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 13

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

TABLE 14

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

Average of	each	montl	h (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	90 4 ·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	٠	•	٠	•	•	•		•			.•	9 57 -6	964-1	920-1

ANNUAL DEATHS FROM "CHOLERA" BY SEX 1941-50

.

			Average f	or 1941-50	1941	i	:	1942	19	43	16	944	19	45
			Male	Temale	Male	Yemale	Male	Female	Male	Female	Male	Tomale	Male	Female
West Bengal			9,084	8,855	8,178	7.435	5,870	6.557	23,862	29,368	10.207	9,921	4.535	
Burdwan .			767	810	484	424	946	951	2.607	2,781	789	847	167	3,780
Birbhum .	•		429	426	627	581	299	259	1.993	2.053	496	652	39	202
Bankurs .		•	420	469	822	812	452	441	2,235	2,426	312	844	69	203
Midnapur .			1,071	1,129	630	568	784	852	6,201	5,464	1,110	1.132	221	261
Hooghly .	•	•	874	891	269	271	343	328	914	1,014	401	394	283	282
Howrah .			1,086	1,091	1,021	871	777	692	2,264	2.372	1.488	1.518	1,221	1.102
24-Parganas		•	2,289	1,185	2,825	2,750	953	860	6,617	6,116	8.693	3,460	909	717
Calcutta .	•	•	1,070	739	1,011	726	830	153	1,143	835	1.050	587	1,225	587
Nadia .		•	458	495	90	89	243	224	1,503	1,695	211	248	126	138
Murshidabad	•	•	564	617	670	661	563	629	2,495	2,802	813	360	-91	80
Maida .		•	199	215	92	71	52	48	415	475	147	806	115	98
West Dinajpur		•	156	142	85	24	29	45	532	460	109	91	28	24
Jalpalguri		•	136	129	102	87	. 72	53	865	830	64	65	25	22
Darjeeling	•	•	21	18	••	••	27	22	78	45	24	17	16	16
Couch Behar	•	•			-		_	-	. —		_			
				1946	-	1947		19			1949			
			~	<u> </u>	~				***			_	19	>0
			Male	Female	Male) Fe	male	Male	Female	Male	Fem	ale	Male	Female
West Bengal			4,896	4,878	5,270	5,2	29	6,975	6.815	6,792	7,07	74	8.751	8,492
Burdwan .	•	•	236	210	381		36	651	710	540	61		878	929
Birbhuma .		•	70	15	840		142	163	151	73	7	2	123	124
Bankura .		•	94	126	225		607	150	166	132	15		204	216
Midnapuz .	•	•	199	256	518		62	585	652	901	99		547	257
Hooghly .	•	•	278	290	823		17 7	431	438	244	26		243	· 771
Howrah .	•	٠	669	699	967	1,0	76 .	1,050	1,022	635	76		854	1,826
24-Parganas	•	•	882	917	928		77	1,592	1,640	2,661	2,56		1,854	2,247
Calcutta .	•	•	498	243	975		60	1,464	1,014	761	72		1,959	799
Nadia .	٠	•	625	677	240		75	883	465	362	41		724	263
Murshidabad	•	•	600	648	166		50	261	846	215	25		238	284
Malda .	2	•	536	542	25		27	170	152	158	15		277	403
West Dinajpur	1	•	177	175	145		10	29	24	70	6		404	117
Jalpaiguri	•	•	22	11	24		27	36	85	84	4		109	21
Darjeeling	•	•	15	9	13		8	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.

			Aver: 1941	age for	1	941	1	942		1943		1944	1	945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal	•	•	120,149	111,881	99,810	95,607	93,187	89,655	172,652	155,338	175,291	168,430	124,829	121,554
Burdwan .	•	•	11,822	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	15,198	14,938	16,963	17,961	11,852	12,606
Bankura .	•	•	8,278	8,886	7,975	8,058	7,234	7,701	12,450	11,808	10,322	10,711	7,677	7,682
Midnapur .	•	•	18,277	18,452	15,732	15,660	13,449	13,608	82,891	28,740	25,723	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	6,817
Howrah .	•	•	8,309	8,057	2,000	1,940	1,899	1,607	5,204	3,822	5,496	5,177	3,476	8,454
24-Parganas	•	•	13,338	11,966	11,951	11,628	11,852	10,599	22,409	17,083	22,105	19,290	13,474	12,583
Calcutta .	•	•	8,035	2,289	1,872	1,290	1,947	1,219	8,514	2,660	4,461	2,992	8,548	2,261
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
Murshidabad	•	•	15,081	14,495	11,302	10,001	12,136	11,230	25,681 4.761	24,781	24,278	24,116	18,152 8,643	17,595
Malda .	•	•	6,937 4,491	5,147	4,425	3,820	2,703	1,763 8,478	4,419	4,364 8,930	11,549 6.098	10,361 5.664	5,138	7,477
West Dinajpur Jalpaiguri	•	•	5.461	4,096 4,998	4,483 6,781	8,981	8,227 5,583	5,419	7.582	6,296	8,162	7,719	6,997	6,503
Darjeeling	•	•		8,608		5,497		2,618	8,171	2,872	8,679	8,199	3,436	8,078
Cooch Behar	•	•	2,819	3,000	8,216	2,869	8,015	2,010	0,171	2,014	0,078	0,100	0,400	a,07a
				1946		1947		194	9		1949		195	: A
			\sim					·	·		~~~~	-		<u> </u>
			Male	Female	Mal	e Fe	male	Male	Female	Maje	Fem	Ne	Male	Female
West Bengal	•	•	118,855	109,875	103.1	37 10:	1,379	96,774	96,139	92,091	94,0		84,868	81,722
Burdwan .		•	10,044	9,871	11.0	18 10	0.929	9,983	10,644	9,377	10,0		8,447	8,430
Birbhum .	•	•	12,485	18,027	10,5	81 [†] 10	0,80 7	8,817	9,038	9,618	10, 0		9,630	9,695
Bankura .	•	•	7,030	6,793	8,2		3,498	7,730	8,143	7,223	7,7		6,888	6,911
Midsapur	•	•	15,443	15,964	16,5		7,532	16,674	17,766	15,712	17,3		14,182	14,742
Hooghly .	٠	•	4,323	4,845	4,5		,579	4,146	4,470	8,909	4,1		8,470	8,537
Howran .	•	•	8,426	8,125	8,1		3,157	8,258	8,297	8,105	8,1		2,072	1,661
24-Parganas	1	•	12,366	11,206	10,7		6,837	10,962	10,408	9,585	9,2		8,468	7,762
Calcutta . Nadia .	•	•	8,141	2,286	8,0		2,673	8,324	2,933	2,798	2,2		2,725 5,262	2,369 5,186
Murshidabad	٠	•	8,366	8,340	7,1		7,086	6,188	6,184	6,393	6,6		9,113	8,414
Maida .	•	•	16,014 7,645	15,876 6.858	13,1	u 11	2,103	10,610	10,251 4,058	10,426 4,881	10,5		4,832	4,101
West Dinajpu		•	5,152	4,579	4,9		165	4,952	4,058	8,735	8,5		8,966	8,569
Jalpaiguri	•	•	6,842		4,5		,063	4,192	3,031	8,735			8,648	8,274
Derjeeling	•	•	2,578	\$,253			3,738	3,4+6 2,452		2, 014	1,8		2,165	1,861
Couch Senat	•	•	2.0/0	2,363	2,4	- 2	2,212	2,933	2,272	2,VI 9	1,0			1,004
	•	•	_	_	-	•		_			_	-	-	_

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

· •		Avera 194	ge fo r 1-50	19	41		1942	1	943	19	44	19	945
	•	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal Burdwan Birbhum Bankura Midnapur Hooghiy Howrah Z4-Parganas . Calcutta Nadia Murshidabad . Mada Jalpaiguri . Jarjeeing . Cocch Behar .		4,252 273 104 161 162 267 714 567 108 192 57 69 15 13	4,267 303 103 156 285 735 558 1,535 114 194 57 72 8 7 7	4,875 854 56 95 248 541 862 2,486 80 57 44 57 44 57	4,411 350 72 48 69 245 504 871 2,059 66 711 48 8 	513 122 82 5 4 13 93 115 61 2 5 7 2 2	510 124 71 7 2 13 103 109 40 3 15 7 3 8	1,187 16 27 51 22 124 144 710 40 13 3 15 6 	1,074 15 34 25 124 152 602 39 13 1 12 16 1 	9,534 132 69 880 458 2,502 1,367 8,751 275 108 54 235 66 15	9,664 139 128 60 349 509 2,690 1,397 3,675 270 97 50 252 34 10	11,908 852 399 1,104 553 1,137 2,076 2,138 2,138 2,116 138 1,035 216 67 43 84	12,066 971 420 1,003 592 1,267 2,134 2,051 2,064 162 1,061 234 75 13 19
Cocca Deniar 1	•		1946		1947		19	48		1949		19	50
• .		Male	Female	Male	Fer	nale	Male	Female	Male	Fer	nale	Male	Female
West Bengal Burdwan . Birbhum . Bankura . Midnapur . Hooghiy . Howrah . 24-Parganas . Calcutta . Murshidabad . Murshidabad . Maida . West Dinajpur . Japalguri . Darjeeling . Cooch Behar .		2,450 655 213 105 20 168 59 213 441 52 175 4 8	2,521 769 186 83 17 96 231 178 65 222 429 65 177 2 1	1 12	9 1 8 1 2 1 0 6 1 1, 3 3 4 7	590 123 11 31 28 83 40 941 31 31 7 123 2 9	3,961 143 46 63 132 125 524 324 2,438 43 28 74 15 4 2	3,948 183 42 77 106 140 493 284 2,457 57 29 63 1,7 	634 40 4 5 86 103 287 17 10 20 2 3 3	•	310 37 3 40 233 93 931 <td>5,018 286 63 105 311 476 859 410 2,766 243 202 101 50 8 38 </td> <td>6,277 315 51 96 817 502 922 897 8,060 260 184 91 50 8 8 24</td>	5,018 286 63 105 311 476 859 410 2,766 243 202 101 50 8 38 	6,277 315 51 96 817 502 922 897 8,060 260 184 91 50 8 8 24

TABLE 15.4

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ANNUAL DEATHS FROM "DYSENTERY, DIARRHŒA AND ENTERIC GROUP OF FEVERS" BY SEX 1941-50 ٠

_				age for 11-50	14	941	1	942	19	43	11	944	1	945
-			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			4.765	18,956	13.279	12.042	12.305	10,929	20,340	20,727	18,933	17.107	12.668	11 505
Burdwan .		•	976	888	1,203	1,098	`970	900	1,262	1,123	1,067	962	830	11,795
Birbhum .		•	293	255	467	440	507	447	565	496	375	320	172	721
Bankura .			714	683	1,068	983	789	785	1,163	948	905	924	541	131 531
Midnopur.		•	2,113	2,379	2,056	1,821	1,768	1,649	1,582	5,341	3,253	2,889	1,580	1,526
Hooghly	•		1,438	1,453	1,234	1,307	1,315	1,331	2,093	1,773	1.752	1,816	1,300	
Howrah .			2,111	2,075	1,685	1,685	1,683	1,643	3,378	2,676	3.270	3,278	2,088	1,366
24-Parganas	•		2,209	1,937	2,060	1,859	1,932	1,699	4,578	3,581	3,145	2,704	1.725	2,122
Calcutta .	•		2,898	2,587	2,196	1,731	1,955	1,391	3,930	3,307	3,312	2,696	2,401	1,571
Nadia .	•	•	803	260	165	128	239	146	260	215	321	217	254	2,008
Murshidabad		•	878	340	219	185	334	320	845	289	261	246	411	230
Malda .	• •		128	95	66	48	53	41	75	64	126	90	183	874
West Dinajpur	•		174	137	91	73	115	93	143	107	136	86	123	115
Jalpaiguri	•		592	510	349	286	213	167	420	383	515	478	563	. 104
Darjeeling			433	\$58	460	398	432	317	551	424	495	401	· 497	539
Cooch Behar			_				—	_				404	491	. 467
													—	-
								-						
			~	1940		1947			948		1949		1	950
			Male	Female	М	ale F	emale	Male	Female	Male	Fema	lo	Male	Female
West Bengal	e i		13,333	12,318	13.6	99 1	3.161	14.399	14.040	14.071	13,4	07		
Burdwan .	•		716	611		20	745	912	895	935		66	14,524	14,011
Birbhum .	•		128	142	2	20	160	164	150	147		11	1,049	955
Bankura .	•	•	459	421	5	28	606	577	605	545		13	187 566	143
Midnapur.	•	•	1,587	1.453	2,9	69	2.215	2.460	2.398	2,497	2.6		2.074	513
Hoeyhly .	•	•	1,222	1,812	1.5		1,501	1.404	1.575	1,406	1.3			1,874
Howrah .	•		1,989	2,016	2,1	54	2,234	1,899	1.984	1,566	1,5		1,142	1,168
24-Parganas	•	•	1,673	1,590	1,5	27	1,411	1,768	1.647	1,840	1,5		1,443	1,537
Calcutta	•	•	2,747	2,471	2,8		2,679	3,174	2,964	2,979	2,9		1,850	1,781
Nadia .	•	•	334	270	2	42	248	378	859	407		48	3,481	8,631
Murshidabad	•		587	637		17	278	1399	373	329		10 67	433	443
Malda .	•	•	842	288		87	62	97	77	128		67 80	516	430
West Dinajpur	•	•	154	107		39 .	222	147	83	237		89	125	87
Jalpaiguri	•	-	1,008	657	5	98	518	617	579	715		79 79	352	804
Darjoeling	•	•	\$87	343	9	82	276	403	351	340		79 26	920	818
Quoch Behar	•	•				-			-			20	886	837
											•			

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ANNUAL DEATHS FROM "PLAGUE" BY SEX 1941-50

				nge for 61-50	19	41	16	42	19	43	194	•	1	945
			Male	Tomale	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			1	- 1	1	1				••	1	1		
Burdwan .			••	••	••	••	••	••	••	••				••
Birbhum .	•		••	••	••	••	••	••	••	••	••	••	••	••
Bankura .	٠	•	••	••	••	••	••	••	••	••	••	••	••	
Midnapur .	•	•	••	••	••	••	••	••	••	••	••	••	••	
Hooghly .	•	•	••		••	••	••	••	••	••	••	••	••	
Howran .	•	•	••	••	••	••	••	••	••	••	••	••	••	
24-Parganas	•	•	•:	• •	••	•:	••	••	••	••	••	••	••	
Calcutta .		•	7	2	1	1	••	••	••	••	2	1	••	
Nadia .	•	•	••	••	••	••	••	••	••	••	••	• •	••	••
Murshidabad	•	•	••		••	••	••	••	••	••	••	••	••	
Malda .	•	•	••	••	••	••	••	••	••	••	••	••	••	
West Dinajpur	•	•	••	••	••	••	••	••	••	••	••	••	••	
Jaipaiguri	٠	•		••	••	••	••	••	••	••	••	••	••	••
Darjeeling Cooch Behar	•	•	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	···	••	••	••
•			1	946		1947		194	8	1	V49		195	0
			Male	Female	Mal	e Fem		Male	Female	Male	Female		Male	Female
Tat Dames												· ·	-	2 CHIAIN
West Bengal	•	•	8	••	6	1		14	4	45	12		3	••
Burdwan .	•	•	••	· ••	••	•	•	••	••	1	••		••	••
Birbham .	•	•	••	••	••	••		••	••	••	••		••	••
Bankura .	•	•	••	• ••	••	••		•;	••	••	••		••	••
Midnapur .	•	•	••	••	••	•		1	'i	••	••		••	••
Hooghly . Howrah	•	•	••	••	••	•		••	_	••	.:		••	••
24-Parganas	•	•	••	••	••	•		••	••	4	2		••	••
Calcutta .	•	•	' \$	••		•		iš	·:	40	iö		•::	••
Nadia .	•	•	-	••	-								3	••
Nagin Murshidabad	•	•	••	••	••	•		••	••	••	••		••	••
Maida .	•	•	••	••	••	•		••	'i	••	••		••	• •
West Dinajpuf	•	•	••	••	••	•		••	_	••	••		••	••
		•	••	••	••	•		••	••	••	••		••	••
Jalpaiguri	•	•	••	••	• ••	•		••	••	•• .	••		••	••
Darjeeling	•	•	••	<u></u>	<u></u>	·		<u></u>	<u></u>	<u>••</u> ·	<u></u>		<u></u>	• -
Cooch Behar	٠		-				-	_			-			-

TABLE 15.6

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

				age for 41-50	194	1	1	1942	- 16	43	19	44	1	945
			Male	Temale	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			19,115	12,523	21,003	13,942	18,361	14,486	21,514	13,620	22,394	14,658	20,552	13,837
Burdwan .		•	1,423	813	2,025	1,218	1,513	847	1,443	807	1,458	940	1,315	707
Birbhum .			897	248	721	463	589	409	545	853	400	260	864	213
Bankura .			953	654	1.181	705	1,000	608	1,027	641	1,023	659	1,044	656
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	1,186
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	2,817	1,271
Calcutta .	•	•	8,706	2,578	8,558	2,395	2,717	1,777	4,037	2,794	4,870	2,933	8,949	2,489
Nadia .			874	213	839	266	483	215	466	816	854	219	478	825
Murshidabad	•		843	271	215	120	319	236	435	849	462	881	449	788
Malda .	•	•	190	113	112	96	161	134	255	196	194	156	136	81
West Dinajpur	•	•	898	680	647	551	789	671	836	659	801	672	941	788
Jalpaiguri			2,200	1.629	2.131	1,520	2.111	1,413	2,496	1,736	2,633	2 ,011	2,537	1,875
Derjeeling	•	•	888	358	446	894	480	895	407	405	412	891	438	385
Oooch Behar	•	•	-	—		—	_	_			_	-		-
			19	46		1947		194	8		1949		1950	
1			Male	Female	Male	Fe	male	Maio	Female	Male	Fem	Je ,	Male	Female
West Bengal			19.861	12.065	18.24	2 11	856	17,235	11.211	16.405	10.49	8	15,619	10,148
Burdwan .	•	•	1.344	750	1.437		844	1,206	646	1,194	69	0	1,289	683
Birbham .	•	•	857	225	274		136	273	155	246	14	7	201	116
Bankura .		•	978	498	984	3	608	861	471	761	40		668	883
Midnapuf.	•	•	2,795	1.500	2.500	3 1	553	2.310	1,365	2,121	1,22		1,845	1,031
Hooghly .	•	•	1,719	871	1.64		937	1.426	878	1.854	7H	9	1,227	720
Howrah .	•	•	1.751	1,100	1.794		189	1.653	1.139	1,550	1,03	3	1,622	1,103
34-Pareacas			2.124	1.038	1.59		918	1.605	907	1,640	83		1,410	676
Calculta .			8,828	2.519	3,801	2	869	8,695	2,742	8,377	2,40	3	\$,719	2,793
Nadia .	•		438	211	321	-	176	829	138	276	1)	8	248	142
Marshidabad	•	•	426	234	819		158	293	115	241	10		271	154
Maida .	•	•	190	106	135		54	244	126	239	10		235	78
West Dinajput	• •	•	1,197	835	99		641	943	642	943	67		8+6	670
Jalpaireri	٠	•	2,365	1,866	8,110	9 1	464	2.032	1,527	1,999	1,59		1,543	1,2×0
Duryeeling	•	•	349	- 312	80		814	865	360	364	31	2	317	815
Quoch Behar	٠	•	_					-	-	_		•	-	-

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

			Avera 194	ge for 1-50	19	11	1	942	19	43	19	44	1	945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			552	539	489	531	484	526	643	543	560	475	552	5 10
Burdwan .		•	41	41	47	54	39	50	40	31	45	32	53	43
Birbhum .			23	20	21	31	28	33	24	14	29	12	18	12
Bankura .	•		35	32	38	38	37	39	43	24	36	32	25	40
Midnapur .		•	46	44	49	42	35	37	51	52 79	46	45	43	43
Hooghly .		•	58	67	63 47	76 54	55 46	73 46	76 122	79 95	47 95	63 48	44	60
Howrah .	•	•	69	62 140	122	162	122	171	165	159	105	123	74 101	· 65 145
24-Parganas	•	•	136 43	29	122	102	122	9	8	4	38	25	67	1+5 82
Calcutta .	•	•	43 24	26	10	6	15	ม้	13	1	18	14	23	20
Nadia .	•	•	42	43	31	25	40	33	42	45	48	41	57	51
Murshidabad Malda	•	•	15	14	ii	8	Ĩĝ	7	18	17	15	12	14	Ĩ,
West Dinajpu	<u> </u>	•	12	10	13	12 .	11	6	10	-9	-8	6	18	10
Jalpaiguri	•••		15	-9	10	12	16	8	13	8	11	10	ĨŎ	6
Darjeeling	•		18	7	15	4	12	5	18	2	19	12	20	ŝ
Cooch Behar	:			••	••	••	••	••	••	••	••	••	••	••
			Male	1946 Female	Mal	1947 e Fe	male	19 Male	48 Female	Male	1949 Fem	ale	19 Male	56 Female
West Descal			578	598	507		90	557	559	592	595		5 55	
West Bengal Burdwan	•	•	40	43	38		30	357 85	37	43	51		25	534
Birbhum .	•	•	16	23	26		24	21	20	28	20		20	43 14
Bankura	:		39	31	34		27	27	25	37	42		84	22
Midnapur .			35	49	45		38	50	52	59	49		42	. 32
Hooghly .			48	67	67		54	72	65	59	72		51	63
Howrah .	-	•	70	85	57		54	55	55	48	44		74	77 .
24-Parganas	•	•	111	133	78		10	92	121	107	175		111	103
Calcutta .	•	•	49	22	45		43	65	51	69	46		68	52
Nadia	•	•	38	37	32		24	20	45	38	54		88	47
Murshidabad	٠	•	38 20	56 15	38 15		50	58	44	30	42		88	47
Maida West Dinajpu	• •	•	10	15	13		8 12	19 11	17 10	16	26 10		13	18
Jalpaiguri	•••	•	45	14	7		7	11	10	17 12	10		18 10	. <u>ç</u>
Darjeeling	•	•	19	4	14		9	19	10	29	16		18	5
Cooch Behar													10	
	-	•	••	••				••	••	••	••	•		••

TABLE 15.8

ANNUAL DEATHS FROM "CHILD BIRTH ", 1941-50

1.

			Average for 1941-50	1941	1942	1943	1944	1945
West Bengal			3,391	3,755	3,335	2,934	2,875	3 ,237
Burdwan .			292	350	321	259	200	246
Birbhum .			157	195	220	162	112	142
Bansura .			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	332	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	•		226	193	189	212	204	236
Jalpaiguri	•		537	638	554	480	389	444
Darjeeling			112	121	140	113	102	121
Cooch Behar	•		• •	••	••			
						••		••
			1946	1947		1948	1949	1950
West Bengal			3,781	3,081		8 ,937	4,113	8.047
Burdwan .		-	312	291		339	2,113	2,865
Birbhum .		-	157	121		179	300 187	239
Bankura .			185	169		159	181	93
Midnapur .			593	536		671	620	122
Hooghly			218	203		265	238	507
Howrah .			160	97		129	112	162
24-Parganas		-	873	304		415	439	66
Calcutta .			239	170		340	40 340	282
Nadia .			175	123		218	216	800
Murshidabad		-	193	140		229	185	118
Malda .	•		131	64		110	138	149
West Dinajpur			263	246		232	294	77
Jalpaicuri	•		679	473		547	294 661	188
Darjeeling			103	110		104		500
Cooch behar							136	67
1		,		••		••	••	••
1 CENS	05					-		ß

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

			Averag 1941-		1941	L	194	2	1943	5	1944		1943	•
			Male	Temale	Maje	Female	Male	Female	Maie	Female	Male	Female	Maio	Female
West Bengal			51,923	50,747	42,958	42,547	43,122	41,956	87.723	80,869	84.098	82,799	62,449	61.385
			5,870	6,033	6,481	6,712	6.012	6,297	10.304	10.006	12.014	11.974	6.548	6,9.54
Hirbham			6,713	6,971	3,823	8,879	3.826	3.940	10.539	10,740	12.843	13,706	8.917	9,355
Bankura .			2.849	8.025	2,850	3,033	2,570	2,993	5.650	5,963	3.972	4.310	2.375	2.479
Midnapur .			8,146	8.334	6,967	7,469	6.409	6,801	20,128	18.089	13.085	13,207	7.742	8,331
Hooghly			2,573	2,655	2,750	2,883	2,723	2,790	3,931	8.714	4.100	4.101	2,572	2.815
Howrah .			1.292	1,196	332	318	408	346	1.857	1.332	2.182	2,058	1,462	1.411
24-Paruanas			8,904	3,607	2.727	2.824	3,060	3.063	7.632	6,237	7,303	6.727	4.006	3,947
Calcutta .			958	669	320	226	760	4:33	1.408	1.004	2,204	1,502	1.132	723
Nadia .	•		3,957	8.657	2.431	2.135	3.514	3.423	3.842	3.145	2.567	2,068	4,314	3.142
Murshidabad			8.084	7,801	7,451	6,933	6,434	6,201	12,988	11,736	14.593	14,514	14,123	18,724
Malda	•	•	2.563	2.225	1.945	1.723	2.183	1.018	3.416	3.342	3,225	3.145	2.914	2,565
West Dinspur	•	•	1,585	1.477	1,349	1,256	1.850	1.634	2.017	1,995	1.963	1,824	2,045	1.918
Jalpaizuti	•	•	2,102	1,975	2,143	2,054	1,956	1.873	2,345	2,141	2,148	2,055	2,689	2.044
	•	•	1,261	1.040	1,390	1,102	1,417	1,144	1,671	1,425	1,899	1,608	1,610	1,320
Darjeeling Cooch Behar	•	•	-,=01	2,010	1,000	-,	-,***	-,	1,011		1,000	2,000	1,010	1,320
				1946		1947		16	48		1949		19	50
			Male	Female	Mal	e F	'emale	Male	Female	Male	Fe	male	Male	Femal
West Bengal			52,053	50.286	41.4	78	41.061	38,247	38,329	37,866	89,8	540	29,234	28,698
Burdwan .			8,703	8,818	8.6		8,758	3,774	4,138	8,613		086	2,552	2.604
Birbhum .			7.572	7.846		80	5,904	4,151	4.207	5,217	5.	811	4.359	4.493
Bankura .			1.947	1.123		578	2.782	2.376	2,597	2,519		781	2.049	2,187
Midnapur .			6,071	6.586	5.1	992	6.532	6.026	6.598	5,162	5.	907	3,879	4,320
Hooghly .			1,977	2,041	2.2	237	2,218	2,111	2,356	2,014		206	1,316	1,424
Howrab			1,524	1.847		316	1,305	1.471	1.517	1,528		595	836	721
24-PargaDas	:		8,834	8,455	2.	565	2,400	2,924	2,717	2,809	2.	678	2,184	1,981
Caicutta .	•		825	597	-,	792	608	792	658	726	-,	479	568	461
Nadia .			6,757	6,632		365	4.629	4.311	4,240	4,252		350	3,212	3.105
Murshidabad	•		7,753	7,683		334	5,131	4,286	4.156	4,606		804	3,280	3.094
Malda .	•	•	3,499	8.164		002	1.710	2.000	1,583	2,262		205	2,184	1,820
West Dinajpu	· ·	•	2,498	2,334		106	1.332	1.306	1,157	763		691	674	623
Jaipaiguri	• •	•	2,897	2,658		934	1,868	1,841	1,690	1.687		547	1.375	1,220
Dariceling	•	•	1,196	1,002		083	884	878	685	703		600	766	624
		•	41440	2,002	A, 1		00.	010		100				
Conch Behar						••				••			••	•

TABLE 15.10

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

			Averag 1941		1	1941	1	942	1	943	1	944	1	945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			1,883	958	1,030	707	947	647	1,195	780	1,185	783	1,503	984
Burdwan .			86	61	47	80	87	33	60	24	39	25	46	30
Birbhum .			8	7	3	δ	8	9	3	4	3	2	5	1
Bankura .	-		5	8	5	8	3	4	8	8	5	8	2	2
Midnapur .			22	10	18	8	5	4	13	8	18	5	12	7
Hooghly .			121	86	92	65	69	48	10	8	88	51	117	63
Howrea .			29	20	16	20	7	• 4	47	41	23	17	27	12
24-Paryanas			124	80	151	79	115	83	128	78	118	78	117	76
Calcutta .			165	108	95	48	65	81	- 96	65	149	90	176	95
Nadia .	•	•	69	50	72	62	53	81	75	54	62	46	83	63
Murshidabad	•	•	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	. •	•	843	287	192	151	214	136	306	184	245	165	863	204
Jalpaiguri	•	•	67	51	88	27	45	29	61	36	51	89	. 70	68
	•	•	99	68	9 9	58	133	79	149	91 91	131	107		
Derjeeling	٠	•	VV	69	99	05	199	19			-			90
Oooch Behar	•	•	•• .	••	••	••	••	••	••	••	••	••	••	••

				1946		1947		1948		1949	1	950
			Male	Female	Malo	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	877
Burdwan .		-	92	81	127	83	151	118 '	159	. 99	109	85
Birbhum .		-	, i i i i i i i i i i i i i i i i i i i		10	8	17	16	17	15	11	ě
Bankurs .			i.	ī		ī	7	7	5	8	6	
Midnepur .			18	ā	23	Ä	28	4	44	34	43	24
Hooghly .			140	87	163	145	178	132	201	144	150	124
Howrah .			21	ĭż	85	22	27	11	55	87	27	20
24-Parcanas			105	56	127	66	143	83	140	111	98	90
Calcutte .		•	216	119	191	127	244	221	176	166	142	121
Nadia .	•	•	114	65	88	69	63	84	42	85	39	
Murshidabad	•	•	290	213	190	141	150	82	100	69	87	36
Maida .	•	•	112	85	105	57	93	48	71	52	58	53
West Dinspur	•	•	501	887	570	358	444	308	823	269	272	40
	•	•					84	65	65	58	32	210
Jaipairuri	•	•	100	68	123	83		62	62	80		84
Derjoeling	•	•	198	78	91	63	78	02			63	¥6
Couch being	•	٠	**	••	••	••	••	••	••	••	••	••

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

		ge for 1-50	194	1	1	942	19	43	16	944	1	945
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal Burdwan Birbhum Bankura Midnapur Hoorah 24.Parganas . Calcuta Natia Murshidabad West Dinajpur . Jalpaiguri . Darjeeling . Cooch Behar	4,826 411 155 301 315 469 593 1,396 68 119 25 43 269 271 	2,621 103 39 63 114 238 250 1,267 16 26 7 14 148 243 	5,032 457 235 325 364 377 432 648 1,494 53 98 15 39 224 271 	2,957 131 61 77 86 128 292 1,516 14 35 8 14 101 222 	4,378 430 173 320 289 327 381 597 1,199 42 102 13 28 2,114 263 	2,356 117 46 79 71 138 213 228 1,049 16 28 8 17 87 264 	4,488 369 134 238 351 355 467 573 1,308 56 84 20 43 228 262 	2,342 107 31 54 66 117 198 192 1,164 20 11 11 118 246 	4,772 374 134 266 406 329 558 564 1,449 62 124 26 47 174 259 	2,546 112 42 76 72 108 261 242 1,240 18 19 8 13 90 245 	4,585 347 159 320 269 576 582 1,350 65 152 23 36 120 246 	2,366 78 38 57 74 117 272 278 1,109 1,109 11 10 9 9 9 16 46 232
		1946		1947		19	48		1949		195	0
	Male	Female	Male	Fe	male	Male	Female	Male	Fem	ale	Male	Female
West Bengal Burdwan Birbhum Bankura Midnapur Hooxhiy Howrah 24-Parganas Calcutta Nadia Murbidabad Murbidabad West Dinajpur Jalpajguri Darjeeling	4,792 445 171 303 385 289 430 609 1,436 74 124 28 53 200 236 	2,435 110 38 53 65 90 216 264 1,173 17 22 9 16 116 246 	4,948 448 128 396 264 470 590 1,496 78 134 21 34 287 290	1,	689 29 54 64 99 243 267 348 2267 348 2267 348 2160 243 	5,210 458 154 297 425 301 468 615 1,494 82 136 35 41 406 308 	2,862 113 42 80 109 106 252 252 1,402 23 28 6 11 195 243 	5,144 398 150 299 472 309 473 633 1,413 77 120 31 65 408 296	7 9 13 23 1,27 1 2 2 1,27 2 6	15 3 8 1 2 7 9 6 5 9 8 6 7	4,907 385 116 333 480 331 433 519 1,817 87 122 40 46 417 281 	2,814 107 33 86 127 100 175 248 1,388 7 21 3 12 292 215

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TABLE 15.12

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

				lge for 1-50	:	1941		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	37	42	37	43	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	85	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	
Nadia .			49	52	51	86	33	45	49	38	54	43	41	56
Murshidabad			74	89	76	89	61	52	59	43	82	80	89	127
Malda .			89	40	34	33	31	38	26	12	42	27	39	38
West Dinajpur	•		32	39	21	19	29	80	84	39	38	34	28	41
Jalpaiguri			19	13	18	9	20	13	15	11	11	10	19	8
Darjeeling			8	3	5	4	2	2	3	5	8	8	-i	6
Cooch Behar	•	•	••	••		••	••		••			••••		

				1946		1947		1948		1949		1950
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal Burdwan - Birbhum - Bankura - Midnapur - Hooxhly - Howrah - 24-Parganas Calcutta - Nadia - Murshidabad	••••••	• • • • • • • • • • • •	906 86 27 60 158 72 43 183 183 15 61 98	882 79 30 67 155 80 30 162 \$ 48 114	913 85 30 62 186 62 42 193 7 58 71	778 73 18 61 115 63 30 123 8 81 104	955 96 38 57 241 74 28 168 15 45 90	762 67 38 56 156 42 29 108 2 63 94	882 94 41 50 195 71 25 163 24 54 54	794 69 42 55 53 54 31 133 7 55 93	830 93 87 56 167 70 27 161 10 48 83	765 70 41 53 124 62 28 125 5 5 90
Malda West Dinajpur Jalpaiguri Darjeeiing Cooch Behar	•	•	46 35 16 6	65 44 1 1	84 89 21 3	45 43 17 2	45 33 22 3	50 43 17 6	47 35 25 4	45 49 24 1	44 \$0 20	46 45 22 2

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				rage for 141-60	1	941		1942	19	943	1	944	1	945
			Male	Female	Male	Female	Male	Female	Male	Female	Malo	Female	Male	Female
West Bongal	•	•	-8	1-0	•7	-8	•5	-6	2.5	3 ·0	-9	1.0	-4	•4
Burdwan .	•	•	-8	-9	•5	•5	•9	1-1	2.6	3.1	-8	-9	-2	•3
Birbhum .	•	•	•8	-8	1.2	1.1	•6	•5	8.8	3.9	-9	1.1	·ī	·ī
	•	•	•6	•1	•5	-5	•7	•7	3-4	3-8	•5	-6	·1	•3
Midnapur .	•	•	•7	•7	•4	•2	•5	•3	3-2	1.7	•7	-4	•1	·1
Hooghly .	•	•	-6	•6	•4	-4	•5	•5	1.2	1.6	-5	-6	•4	-4
Howran .	•	•	1-8	1.7	1.2	1.3	•9	1.1	2.7	8-6	1.8	2.3	1.5	1.7
24-PargaDas	•	•	1-1	1.8	1.4	1.6	•5	-5	3.4	8.7	1.8	2-1	•5	-4
Calcutta .	•		•7	1.1	•7	1-1	•2	-2	•8	1.3	•7	-9	-8	
Nadia .	•	•	1.1	1.2	•2	•2	•6	۰ő	8.5	4-2	-5	-6	-3	-3
Murshidabad	•	•	•7	-8	•8	•8	•7	•8	8.0	3.4	-4	-4	•1	•1
Maida .	•		•6	-5	•2	•8	•1	•2	1.0	1.7	-3	1-1	•8	•4
West Dinajpur	•	•	-5	-5	•1	•1	-1	-2	1.7	1.7	-4	•8	•1	•1
Jalpaiguri	•	•	•8	-8	•2	•2	•2	•1	1.9	2.2	•1	•2	•1	•1
Darjeeling	•	•	•1	•1	••	••	-1	•1	•4	•8	•1	•1	•1	•1
Cooch Behar	•	•	••	••	••	••	••	••	••	••	••	••	••	••
				1946		1947		19	48		1949		195	50
			Male	Female	Ma	le Fe	male	Male	Female	Male	Fei	male	Male	Female
West Bengal			•4	-5	•	5	•6	•6	•7	•6		•7	•8	•9
Burdwan .			-2	•2	•		•5	•7	•8	•5		7	•9	1.0
Birbhum .	•	•	•1	•1		6	•7	•3	•3	•1		-1	•2	-2
Bankura .		•	•1	-2	•		۰5	•2	•8	•2		-2	-8	•3
Midnapur.		•	•1	-1	•		•2	-4	•2	•6		- 8	•8	-4
Hooghly .	•	•	•4	•5	•		•6	-6	•7	•3		-4	-8	•4
Howrah .	•	•	•8	1-1	1.		1.6	1.3	1.6	•8	1		•9	1.3
24-Parganas	•	•	-4	-6	•		•6	•8	1.0	1.3	1		•9	1.1
Calcutta .	•	•	•8		•		•9	1.0	1.2	•5	1		1.5	8.0
Nadia .	•	•	1.4	1.7	•		•7	•9	1.1	•8		•0	1.8	1.8
Murshidabad	٠	•	.7	. 8	•		-2	•3	•4	-8		-8	•8	•3
Maida .	•	•	1.8	1.8	•		•1	•4	•4	•4		•4	•7	1.0
West Dinajpur	•	•	-6 -05	•6		6 05	•4	•1	•1	•2		•2	1.3	1.5
Jalpaiguri	•	•		-08			•1	-1	•1	•1		•1	-8	•8
Darjeeling	•	•	•1	•1		1	•02	•1	••	-03		02	•1	•1
Qooch Behar	•	•	••	••	•	•	••	••	••	••		••	••	••

DEATH RATE FROM "CHOLERA" 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

TABLE 16.2

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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

			Avera 194	ge for 1-50	19	41	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	17.8	10.9	12.6
Burdwan .	•	•	11.8	12.7	10.7	11.8	10-1	11.8	15-4	16-4	17.1	18-9	11-1	12.8
Birbhum .	•	•	21.2	21-8	14-9	14-6	15.8	15-6	29.0	28.5	32-3	34-8	22.6	24.1
Bankura .			12.7	18-1	12.2	12.6	11-1	12.1	19.1	18-6	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
Hooghly .		•	6-4	7.5	6.1	7.8	6.1	7.0	8-4	9.0	8-9	10-4	6-6	8.8
Howrea .			4-0	4.7	2.4	8.0	2.3	2.4	6-2	5.8	6.6	7.9	4-2	5.3
24-Parganas			6-6	7-2	5.9	7.0	5-6	6-4	11-1	10.8	11.0	11.7	6.7	7.6
Calcutta .			2.1	8.2	1.8	2.0	1.8	1.8	2.4	4.1	8.1	4-6	2.4	8.4
Nadia .			19-9	20.2	19.5	19.6	18.6	19.1	32.0	83.2	29.5	80.8	22.8	22.7
Murshidabad			18-8	17-8	18.7	12.8	14.7	13.8	81.2	80.4	29-4	29-6	22.0	21-6
Maida .			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 Dinaipu		-	14-7	14.7	14.7	14-3	10-6	12.5	14-5	14-1	20.0	20-4	16.8	16.7
Jaipaiguri			11-8	18-0	12.6	14-2	12.1	14-1	16.5	16.3	17.7	20-0	15-2	16.9
Darjeeling			14-1	14-2	16-1	16-3	, 15-1	14.8	15.9	16.8	18-4	18-1	17.2	17.4
Couch liebar				••	••		••		••	••	••	••	••	
			Male	1946 Female	Ĩ	1947	Female	Male 15	Female	Male	1949 Fer	nale	Male	950 Female
West Bougal			9-9	11-8	0	·0	10-4	8-4	9-9	8.0	9	.7	7.4	8-4
Burdwan .	:	•	10-1	11-1	- 11		12.8	10-0	11.9	9.4	11		8-5	9-6
Birbhum .	:	:	23-8	24-9	20		20.6	16.8	17.8	18.3	19		18-4	18.6
Bankurs .	:	•	10-8	10-7	12		18-8	11.9	12.8	11·1	12		10.6	10.8
Midnapuf .		•	9-5	10-2	10	.9	11.2	10.2	11-4	9.6	iĩ		8.6	9-4
Hooghly			4-9	6-8		-1	7.2	5.6	7.0	5-3		-5.	4.7	5.5
Howrah			4-1	4.8		-8	4-8	8.9	5-0	8.7		.7	2-5	2.9
24-Parganas			6-1	6-8		-8	5-9	5.4	6-8	4.8		·6	4.2	4.7
('alcuite .			1.1	8.5		-1	4-1	2.3	4-5	1.9		- 4	1.9	3-6
Nadia .			19-4	20-4	17	5.5	17-4	14.8	15-1	14-8	10		12.2	12.7
Varshidabad			19-4	19-4		5-9	14-8	12.9	12.6	12-6	18		ii - i	10.8
Maida .			18.0	16-4		.7	10.0	11.6	9.7	11.5		- 1	11-8	10.9
W est Dinajpu	e .		16-9	16-5		1.7	14-6	18.7	12.7	12.2	11		18-0	12-8
Jalpaiguri	- :		18.7	13-6		3.9	9-7	7-6	8-2	7.2		i-0	7.9	5-6
Darjeeling			12-9	13-3		2-3	12.5	12-3	12.9	10-1	10		10-8	10.4
Coo h Belar					•							••		
	•	•	••	••		••	••	••	••	••			••	••

			Aver 194	age for 1-50	194	1	1	1942	1	943	1	944	:	1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			-4	•4	-4	-5	-04	•1	•1	•1	-8	1·0 •2	1.0	1.2
Burdwan .		•	•3	-8	-4	•4	•1	•1	•01	-02	•1	•2	.9	1.1
Birbhum .	•	•	·2 ·2	•2	·1	-1	·2 ·01	·1 ·01	·1 ·004	•1	·2 ·1	·2 ·1	·8 1·7	8
Bankura .	•	•	-2	·2 ·1	·1 ·1	·1 ·04	-002	•001	·004 ·03	-03	·1 ·2	·1 ·2	-8	1-6 -4
Midnapur .	•	•	-1	•4	•1	-4	-002	-02	-03	•04	-6	-2	1.5	2.0
Hooghly .	•	•	•4 •9	1.1	-6	-8	-1	·2	-1	-2	3.0	4.1	2.5	8.2
Howrah .	•	•	-3	•8	-4	•5	-1	· ĩ	-1	·1	.7	-8	ĩ·i	1.2
24-Parganas		•	1.1	2.8	1.7	3·1 ·	<u>+0</u> 4	·1	·ŝ	.ĝ.	2.6	5.6	1.5	8 .ĩ
Calcutt a Nadia	•	•		8	-i	.2	·005	·Õ1	٠ĭ	`• i	6	.7	8	·4
Murshidabad		:	٠ž	•2	·1	•1	-01	-02	.02	.02	·i	•1	1.3	1.5
Malda .	:		•1	-1	٠ī	•1	•02	•02	-01	.003	-1	•1	•5	•6
West Dinajpur		•	•2	•3	•02	-03	•01	•01	•04	•04	-8	•9	•2	•3
Jalpaiguri .			•03	-02	••	••	-004	• • •	•03	•04	•1	•1	•1	•1
Darieeling .			•1	-04	-01	••	••	-02	-03	•01	•03	-1	·2	•1
Cooch Behar	•	•	••	••	••	••	••	••	••	•••	•••			••·
			:	1946		1947		19	48		1949		19	50
			Male	Female	Male	• F	emale	Male	Female	Male	Fe	male	Male	Female
West Bengal			•2	-8	•1		·2	•3	•4	•1		1	-5	•6
Burdwan .			•7	-9	-1	,	•1	-1	•2	-04		04	•3	-4
Birbhum .			-4	•4	•1		·04	•1	•1	-01		•	•1 •2	-1
Bankura .			•2	•1	•0		•02	•1	•1	•01		005	•2	·1 ·2 ·2 ·8
Midnapur .	•	•	•01	•01	-03	2	•02	•1	•1	•03		03	•2	•2
Hooghly .	•	•	·2	•2 •4	·1 ·1		-04	•2 •6	•2	•04		04	6	•8
Howrah .	•	•	•3	·4 ·1	-1		·1 ·02	-6 -2	-8	-1	•	1.	1.0	1.4
24-Parganas Calcutta		•	•1 •04	-1	•0		1.6	1.7	-2 3 7	·1 ·2		4	-2	•2
Nadia .	•	•	•04	•5	•1		•1	·1	۵۰ <i>۲</i> •1	•2 •04		4 1	1.9 .6	4-7
Murshidabad	. •	•	•5	-5	-0		•04	•03	04	·04 ·01		01	•2	-6
Malda	:		• 1	•2	•0•		•02	-2	-2	•005		01	-2	•2
West Dinajpur	:	:	·6	•6	•4		•4	·05	·1			•	-2	·2 ·2 ·2
Jalpaiguri .			-01	-01	•Ō:		·01	-01				•	-02	.02
Darjeeling .			•04	•01	-1		•1	•01	••	-02		03	-2	•1
Cooch Behar	•	•	••	••		•	••``	••	••	••		•	·	
							•							

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

TABLE 16.4

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DEATH RATE FROM "PLAGUE" 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

			Averag 1941	e for -50	194	1	1	1942	1	1943	19	44	1	945
			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	•	•	*:r		1001	*****	••	••	••	••	••		••	••
	•	•	•005	•003	-001	-002	••	••	••	••	-001	-002	••	••
Nadia .	•	•	••	••	••	••	••	••	••		••	••		••
Murshidabad	•	•	••	••	••	••	••	••	••	••	••			••
Maida	•	•	••	••	••	••	••	••	••					
West Dinajpur	•	•	••	••	••	••	••	••	••	••	••			
Jalpaiguri	•	•	••	••	••	••	••	••	••		••	••	••	
Darjeeling.	•	•	••	••	••	••	••	••	••	••	••		••	
Cooch Behar	•	•	••	••	••	••	••	••	••	••	••	••		•••

			19	46		1947	、 <u> </u>	948	1	949	19	50
			Male	Female	Male	Female	Male	Female	Male	Fenuale	Male.	Female
West Bengal Burdwan Birbhum Hankura Midnapur Howrab 24-Parganas Calcutta Nadia Murshidabad Maida West Dinajpur		•	-0003 	 	-001 	-0001 	-001 	-0004 	-004 -001 	-001 -003 02 	-0003 	Female
Jalpaiguri . Dar)eeling . Cooch Behar	:	:	•	••	•••	••	••	••	••	••	••	••

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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

				nge for 11-50	1	941		1942	1	1943	1	944		1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			1-8	1-4	1.2	1.2	1.1	1.1	1.8	2-1	1.6	1.8	1.1	1-2
Burdwan .			1-0	1-0	1-2	1.2	1-0	1-0	1.8	1.8	i •i	1.ĭ	-8	-8
Birbhum .		•		-6	-9	-8	1-0	-9	1.1	-9	7	- 6	·3	-3
Bankura .	•	•	1-1	1-1	1.6	1.5	1.5	1-2	1.8	1-5	1-4	1.4	-8	
Midmapur .	•	•	1-8	1.5	1.3	1.2	1-1	1.1	1-0	3-4	2-0	1.9	1-0	1-0
Hooghiy		•	1-9	2-3	1-7	2-0	1.8	2-1	2-8	2.8	2.4	2.8	1.8	2.1
Howrah .			2-5	8.2	2-0	2-6	2-0	2.5	4-1	4-1	8-9	5-ŏ	2.5	3-2
24-Parzanes	•	•	1-1	1.5	1-0	1-1	1-0	1-0	2-4	2.2	1.6	1-6	-9	-0
Calcutta .	•	•	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	
Murshidabed			-6	-4	-3	-2	-4	-4	-4	-4	-3	-3	-5	-5
Maida .	•		-8	-1	-2	-1	•1	-1	•2	•2	-3	.2	•4	-3
West Dinajpur	•		-6	•6	-8	-3	-4	•\$	•5	-4	-4	•8		
Jaipaigurt .	•	•	1-8	1.8	-8	•7	-5	-4	-9	1.0	1.1	1.2	1.2	1-4
Darjeeting .	•		2-2	2-0	2.8	2.8	2.3	1.8	2.8	2-4	2.5	2.8	2.4	2-6
Cooch Behar		•	••	••	••	••	••	••	••	••	••			
			1	946		1947	•	194	8		1949			950
			Male					X		<u> </u>	<u></u>	.	\sim	<u> </u>
				Female	Mal	e Fei	nale	Male	Female	Male	Fema	le	Male	Female
West Bengal			1.2	1.3	1.2	1	-4	1-3	1.4	1.2	1.4		1.3	1.4
Burdwan .			•7	-7	-8		-8	-9	1.0	1.1	1.1		ī·ĭ	1-1
Birbbum .			-2	-8	-4		-8	-3	1.3	-4	-3			-3
Bankura .			-7	•7	-8		-0	-9	-9	-9	-8		- <u>ō</u>	-8
Midsapur .			1-0	-9	1.4		-4	1.2	1.2	1.8	1.2		1.3	1.2
Hooghly .	•		1.7	2-1	2-0		-8	1.9	2.5	1.5	1.8		1.5	1.8
Howrah .		•	2-4	8-1	. 2.6		-4	2.8	3-0	1.7	2.3		1.7	2.3
24-Parganas	•	•	-8	1-0	-8		-9	-9	1-0	•9	1.0		-9	1.0
Calcutta .	•	•	1.9	8-8	1-9		-1	2.2	4-5	2-4	5-6		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	-5		-6	-5
Maida .		• *	-8	-7	-2		-1	-2	•2	-3	•2		•3	-2
West Dinajpur	•	•	-5	-4	-8		-8	•5	•3	-8	-7		1.1	1-1
Jaipaiguri .	•	•	2.2	1.7	1.3		-8	1.3	1.5	1.6	1.8		2.0	2.1
Darjeeling .		•	1-9	1.9	1.9	1	.•6	2-0	2.0	1.7	1.5		1.9	1.9
Coosh Behar	٠	٠	••	••	••		••	••	••	••	••		••	••

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

			Aver 19	nge for 11-50	1	941	v	1942	1	943	1	944		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	1.2	1.1	1-8	-8
Birbhum .			-8	-6	1-4	-9	1.1	-8	1.0	•7	-8	-5	•7	-4
Bankurs .			1.5	-9	1.8	1.1	1.2	1-0	1.6	1-0	1.6	1.0	1.6	-9
Midnapur .			1-6	-9	1.9	1-1	1.2	•9	1.7	1.0	1.7	1.0	1.7	1.0
Hooghly .		•	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	2.5	1.9	1.7	1-5	2.6	1.8	2.9	2.3	2.2	1.7
24-Parenaes		•	1-1	-9	1-4	-9	1.2	2.6	1-4	-8	1.4	-9	1.2	•8
Calcutta .		•	2-6	8-9	2-5	3-6	1.9	2.7	2.8	4-3	8-0	4-5	8.4	8.8
Nadia .	•		•9	•5	-8	-7	1-1	-5	1-1	-8	•8	-5	1.1	•5
Murshidabad	٠		-4	-8	•8	-1	-4	-8	-6	-4	-6	-6	-5	1-1
Maida .	•	•	1-0	•3	-6	•2	-8	-8	1.8	-5	1.0	•4	•7	-2
West Dinajpur		•	2-9	2-4	2-1	2-0	2.6	2.4	2.7	2-4	2.6	2.4	8-1	2-8
Jalpairuri .	•		4-8	4-2	4-6	3-9	4-6	8-7	5-4	4-5	5.7	5-2	5-5	4-9
Darjeeling .	•	-	1.9	2-0	2.2	2.2	2.4	2.2	2-0	2·8	2.1	2.2	2.2	2.2
Couch Bohar	•	•	••	••	••	••	••	••	••	••	••	••	••	••
				1946		1947	-	19	48		1949		195)
			Male	Female	XA	e P	emale	Male	Female	Male	Fem	ale	Male	Female
West Bengal			1.7	1.2	1-6		1.2	1-5	1.2	1-4	1.1		1-4	1.0
Burdwan .			1.8	-6	14			1.2	-7	1.2	-8		1.3	-8
birtham .			7				-8	- 5	-3	•6	-8			-2
Fankara .			1-5	-8	1.5		1-0	1.8	•7	1.2	-6	•	1-0	8
Midaapur .		•	1-7	1-0	1.5		1-0	1.1	-9	1-8	-8		1-1	-7
Hooghly .		•	2-3	1-4	2.2		1.5	1.9	1-4	1.8	1.2		1.7	1-1
Howrald .	•	•	2-1	1.7	2.2		1.8	2-0	1.7	1.9	1.6		1.9	1.7
24-Parcanes	٠	•	1-1	-6	-6		-6	-8	- 5	-8	-6		-7	-4
Cakulla .	•	•	1-1	3-6	3-3		4-4	3.2	4-2	2.3	3-8		2-4	4.3
Nalla .	•	•	1-0	-5	-8		-4	-8	-3	-6	-3		·6	-3
Murshidabed		•	-#	•\$	-4		·2	-4	•1	•3	•1		-3	-2
Maida .	•	•	-•	-3	-3		-1	-6	•8	-6	.3		•5	-11
West Dinajpur	•	•	8-9	8-0	3-3		2-3	\$ 1	2-3	8-1	2-4		2-9	2-4
Jaipairan .	٠	•	F1	4-8	4-6		3-8	4-4	4-0	4-3	4-1		3-4	3-3
Darpeeing .	•	•	1.7	1-6	1-5		1.7	1-8	2-0	1.8	1.6	•	1.6	1.8
Coush Behar	•	•	••	••	••		••	••	••	••	••	•	•• .	••

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	age for 11-50	194	41		1942	1	1943	1	944	1	945
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bongal	•05	·1	•04	•1	•04	•1	•1	-1	•05	•05	•05	-1
Burdwau	•04	-05	•05	•1	-04	•1	•04	-03	•05	•04	•05	·05
Birbhum	•1	•04	-04	•1	•1	•1	•05	•03	•1	•02	•03	•02
Bankura .	•1	-1	-1	-1	•1	•1	•1	•04	-1	•1	-04	•1
Midnapur	-03	-03	•03	•03	.02	•2	.03	•03	·03	•03	-03	•03
Hooghly	•1	-1	-1	•1	-1	•1	•1	·i _	•1	-1	•1	-1
Howrah	•1	•1	-1	•1	-1	-1	•1	•1	-1	•1	-1	•1
24-Parganas	•1	-1	•1	•1	•1	-1	•1	•1	•1	•1	•1	•1
Calcutta	.03	-04	•01	-01	·01 ·03	-01	•01	•01	•03	•04	-04	•05
Nadia	-1	-1	•02	-01		-02	-03	•01	•04	.03	•1	•05
Murshidabad	-1	·1 -03	-04 -03	·03 ·02	+04 +02	•04	·1 ·04	·1 ·04	·1 ·04	·1 ·03	•1	•1
Malda	-04	-03	•03 •03	·02 ·04	-02	·02 ·02	-04	-04	-04	·03 ·04	-03 -03	02
West Dinajpur	·03 ·03	-02	·03	.03	-03	•02	-02	-02	-02	-04	·03 ·02	·1
Jalpaiguri	·03 ·1	-02	·02 ·1	-02	•1	-03	-1	-02	•1	-1	·02 ·1	·02 02
Darjeeling .					_							
Cooch Behar .	••	••	••	••	· ••	••	••	••	••	••	••	••
	Male	1946 Female	Mal	1947 le Fen	nale	Male 11	948 Female	Male	1949 Fema	le	Male	1950 Female
West Bengal	•05	•1	-05			-05	•1	•05	•1		-05	•1
Burdwan	-04 、	•05	•04		03	•04 •	-04	-04	·1		-08	•05
Birbhum	•03	-04	•05		05	•04	·04	-1	-04	4	•1	-03
Bankura	-1	•05	•1		04	-04	•04	-1	•1		•1	.03
Midnapur	.02	-08	.03		02	•08	-03	-04	•0•		•03	·02
Hooghly	•1	•1	-1	•	1	•1	-1	•1	•1		•1	•1
Howrah	-1	•1	-1		1	•1	•1	-1	•1		•1	1
24-Parganas	•1	•1	•04		1	·04	-1	•1	•1		•1	•1
Calcutta	·04 . ·1	·03 ·1	•03 •1		1	-04	•1	-05	•1		-05	-1
Nadia	1	-1	·05		1	•04 •1	-1 -1	-1	-1		•1	•1
Murshidabad Malda	-03	-02	•04		02	•04	•04	•04 •04	•1		•05	: 05
West Dinajpur	•03	-02	+04		04	-04	·04 ·04	•04 •06	-1		-03	-04
Jaipaiguri	-02	-02	-03		02	-03	•04	-00	•• ••		•04	-02
Darjeeling	·1	-02	-1		1	-1	-02	·03 ·1			•02	•01
Cooch Behar					-				-1		•1	-03
	••	••	••	•	-	••	••	••	•	•	••	•••

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	1 95 0
Wert Bengal	•	•	•3	•8	-8	•8	•3	•3	•3	•8	•8	-4	-2
Burdwan	• .		•3	-4	•4	•3	·2	•3	•8	•3	-4	•4	•2
Birbhum .	•	•	•3	•4	•4	-8	•2	•3	•3	-2	•8	•4	-2
Bankura	•	•	•8	•4	-8	-8	•2	-2	•8	•8	-3	-8	• 2
Midnapur	•		•4	•4	-4	•3	•3	-3	•4	-8	-4	-1	-8
Hooghly	•	•	-4	•5	-4 '	-4	-3	-8	•3	•3	-4	-4	•3
Howrah .	•	•	·2	•8	•2	• 2	-8	-2	-2	•1	2	-2	4
24-Parganas	•	•	-2	•8	•8	•2	-2	-2	-2	4	•8	•8	-2
Calcutta .	•	•	•3	•1	-04	-04	-8	-8	•4	•8	-5	•5	•5
Nadia .	•	•	-3	•2	•1	-2	•3	•3	-4	-8	-5	•5	•3
Murshidabad	•	•	-2	-1	·2	•1	·2	-2	•2	. ∙2	•8	-2	-1
Maida .	•	•	•3	-8	•8	•2	•3	-8	•8	•2	-8	-8	•2
West Dinajpu	۲.	•	-8	•7	•7	-8	•7	•8	-9	-9	-8	1.1	-7
Jalpaiguri	•	•	1-4	1.7	1-4	1-2	1-0	1-2	1.8	1.2	1-4	1.7	1.8
Darjeeling	•	•	•6	•7	-8	-6	-6	•7	-6	-6	-6	-8	-4
Cooch Behar	•	·		••	••	••	••		••				-

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				age for 41-50	19	41		1942		1943	1:	244		1945
			Male	Female	Male	Female	Male	Female	Male	Female	Malo	Female	Male	Female
West Bengal			4-5	5-2	8-7	4-4	3-8	4-3	7-6	8-3	7-8	8-5	5-4	6-3
Burdwan			5-9	6-6	6.5	7.5	6-0	7.1	10-3	11-2	12-0	13-4	6-7	7.8
Biriduna			12.8	13-3	7.3	7.4	7.8	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
Midnatur			5-0	5-4	4-3	4-8	8-9	4.4	12.3	11-6	8-0	8.5	4.7	5-3
Honghly .			8.5	4-2	8.7	4.5	3.7	4.4	5.3	5.8	5-6	0-4	8.5	
lowrah .			1.6	1.8	-4	-5	•5	-5	2.2	2-0	2.6	8-1	1.8	4.4
4-Paryanas			1.9	2.2	1.4	1.7	1.5	1.9	8.8	8.8	3.6	4-1		2-1
aicutta .	•		7	1-0	-2	-3	-5	-7	1.0	1.5	1.5	2.4	8.0	2-4
Nadia .	•	•	9.2	9-Õ	5-6	5.2	8.1	8.4	8.9	7.7	5-9			1.1
	•	•	9-8	9.6	9-0	85	7.8	7.6	15.7	14-4		5-1	10.0	7.7
Murwiidabed	•	•	6-0	5-8	4-6	4-1	5.1	2.4	8.0	8-0	17.7	17.8	17-1	16-8
Maida .	•	•	5-2	5-3	4-4	4.5	6-1	5.9			7-6	7-5	6.8	6-1
West Dinajpur	•	•	4.6	5-1	4.7	5.3	4.2		.6-6	7.2	64	6.6	6-7	6-9
laipaiguri –	•	•						4.9	5-1	5-6	4.7	5.8	5.3	6-9
Darpeling	•	•	6-3	5-9	7-0	6-2	7.1	6.2	8-4	8-1	9-5	9-1	8-1	7-5
Cooch Behar	•	•	••			••	. • •	••	••	••	••	••	••	
				1946		1947	_	194	<u> </u>		1949	-	19	50
			Male	Female	Male	Fem	rje	Male	Female	Male	Femal		Male	Femal
Vest Bengal			4-5	5.2	3-6		·2	3·3	3.9	8-3	4-1		2.5	3.0
urdwan .			8.7	4-3	8.7		2	3·8	4-6	8-6	4-6	i	2.6	2.9
sirbhum .			14-4	15.0	11-2	11		7-9	8-0	9-9	10-7	,	8.8	8.6
ankura			3.0	1.8	3-4	4	4	8.6	4-1	8.9	4.4	,	8.1	3.4 -
fidnapur .			8.7	4-2	8.7	4	2	8.7	4-2	8.2	8.8		2.4	2.5
iooshiy .			2.6	8.2	8.0	3	-5	2.9	8.7	2.7	8.5		1.8	2.3
		-	1-8	2.1	1.6	2	0	1.8	2.4	1.8	2.4		1-ŏ	1.1
4-Parvanas	•	•	1.9	2.1	1.8	ī		1.5	1.6	1.4	1.6		1.i	1.2
alcutta .	•	•	-6	-0	-5		9	5	1.ŏ	-5	•.7		-4	1.2
adia .	•	•	15-6	16-2	10.8	11		10-0	10.4	9.8	10.7		7.4	
	•	•	9.4	9.4	6.5	6		5.2	5.1	5-6	5.9			7.6
bedabinaru	•	•	8.2	7.6	4.7	4		4.7	8-8	5.8	5.9		4.0	8.8
		•		8.4	4.6		-8	4.3	4.2				5-1	4-3
laida .			8.2					4.0		2.5	2.5		2.2	2.2
laida Vest Dinajpur	•	•							4-4	8.7	4-0	,	8.0	8.2
faida Vest Dinajpur alpaiguri	:	:	6-3	6-9	4.2									
Haida West Dinajpur Jalpaiguri Darjeeling Cooch Behar	•	:	6-3 6-0	6-9 5-7	4·2 5·4	5		4.4	8-9	8.5	8.		8.8	3.5

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

TABLE 16.10

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

			Aver: 194	sge for 1-50	19	941		1942	1	948		944		1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bongal			•1	-1	•1	•1	•1	-1	•1	•1	•1	•1	•1	•1
Burdwan .	•	•	•1	•1	-05	-03	-04	-04	•1	-08	-04	•08	-05	•03
Birbhum .			-02	-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 .	•	•	-08	-08	-02	.08	•01	-01	•1	•1	-08	•08	-08	-02
24-Parganas	•	•	-1	-05	-1	•05	·1 •04	•1 •05	-1	-05	-1	-05	•1	•05
Calcutta .	•	•	•1	-2	·1 ·2	•1			•1 •2	·1 ·1	•1	·1 ·2	-1	-1
Nadia .	•	•	-8	• •1			·1 ·2	-1 -1	.2		.1	-1	•2	-2
Hurshidabad	•	•	•2	-1	•2	·1 ·2	-2		•2 •2	•1 •2	•9	-1	•4	•8
Maida .	•	•	2	·1	-2 -6	•6	.7	·1 •5	1.0	-7	-8	-6	1.2	•2 •7
West Dinajpur	•	•	1.1		-1	•1	-1	·6 ·1	-1	-1	-1	•1		
Jaipaiguri	•	•	•1	· •1 •4			.7		-7	-5	-7	-	-5	-2
Darjeeling.	•	•	•6		•5	-8	-	-		-		-	-	•5
Cooch Behat	•	•	••	••	••	••	••	••	••	••	••	••	••	•
									_	_				••
			1	946		1947		194	8		949	-	190	50
			Male	Female	Mal	e Pei	male	Male	Fomale	Male	Tema	10	Male	Female
West Bengal			•2	•1	•2		•1	-1	•1	•1	•1		•1	•1
Burdwan .	•	•	•1	•1	-1		•1	•2	•1	•2	•1	_	-1	•1
Birthum .	•	•	-02	-004	-0:		-02	-08	-08	-08	-03		-02	-02
Hankurs .	•		-01	-002	-0		-002	-01	-01	-01	-04		-01	-008
Midnapur	•	•	-01	-01	•0		-001	-02	-008	-08	-01	5	-08	-02
Hooghly	•	•	•2	•1	-2		•2	•2	-8	-8	-2		•2	•2
Howrsh .	•	•	-03	-02	-0-		-03	-08	-02	-1	-1 -1		-08	-03
24-Parganas	•	•	1	-03	-1		-04	•1	-1	-1	-1		-05	•1
Calcutta .	•	•	-1	-2	•1		•2	-2	-8	-1	·3 •1		-1	-8
Nadia .	•	•	-	-2	•2		-2	-1	·1	-1			-1	-1
Murshidabed	•	•	-4	-3 -2	•2 •2		• 2 •1	-2	•1 •1	•1 •2	·1 ·1		•1 •1	·1 •1
Mania .	•	•	1-6	• <u>-</u> 1-4	·¥ 1·9		•1			• 2 1•1	1-0		.9	
West Dinalpur	•	•						1-5	1.1		-2		-1	-8
Jaipaiguri	•	•	-1	•2	-8		-2	-2	•2	•1	-3		-1	•1
Darjeeling.	•	•	•	-4	-		•4	-4	•4	-	+		-	•1
Couch Behat	•	•	••	••	••	•	••	••	••	••	••		••	••

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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 1-50	. 19	41		1942	19	43	. 1	944	1	945
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal	-4	•3	•4	•3	-4	•2	•4	-2	•4	•8	•4	-2
Burdwan	•4	·1	•5	-1	-4 -3	-1	•4 •8	-1	•4 •8	-1	•3	-1
Birbhum	•3 •5	·1 ·1	•4 •5	·1 ·1	•3 •5	·1 ·1	• 4	·1 ·1	•8 •4	·1 ·1	•3 •5 •2	•1 •1
Bankura	•3 •2	-1	•2	-1	•2	-05	-2	-04	-2	-05	.9	-05
Midnapur Hooghly	-4	-2	·5	·2	-4	-2	-5	•2 [*]	-4	-2	-4	-2
Howrah	·6	-4	-5	•4	-5	-3	-6	-3	-7	-4	-7	- 4 - 1
24-Parganas	-3	-2	•3	•2	•3	·1	•3	٠i	-3	-1	-8	-2
Calcutta	1.0	1.9	1.0	2.3	-8	1.6	•9	1.8	1.0	1-9	-9	1.7
Nadia .	•2	.02	•1	•02	•1	-02	•1	-03	•1	. •03	-2	-02
Murshidabad	•1	-03	•1	•04	•1	-03	•1	-01	. •2	02	-2	-04
Maida · · ·	·1	.02	·04 ·1	·02 ·1	-03 •1	-01	-05 -1	·02 ·04	•1 •2	-02	•1 •1	02
West Dinajpur	-1 -6	-1	•1 •5	-3	•1	-1	-5	•04	•z •4	•05 •2	-3	-1 (-1
Jalpaiguri	1.4	1.4	1.4	1.3	1.3	1.5	1.3	1.4	1.8	1.4	1.2	1.8
Darjeeling. Cooch Behar						•• 、						-
Cooch Dellar	••	••	••	•••	••	••••	••	••	••	••		••
•		1946		1947		194	8		1949		19	50
	Male	Female	Male	e Fem	ale	Male	Female	Male	Fe	male	Male	Female ,
West Bengal	-4	K-2	•4		3	•5	•3	•4		•8	-4	•8
Burdwan .	•4	-1	•4	•	1	-5	•1	•4		•1	-4	-1
Birbhum	-3	-1	-2		1	•3	-1	•3		-1	•2	-1
Bankura	•5	·1 •04	•5 •2		1 04	-5 -3	·1 ·1 ·1 ·2	-5		·1	•5	1
Midnapur. • •	•2 •4	-04	-4		2	•3	.1	·3 ·4		·1 ·2	-8	-1
Hooghi y Howrah	•5	•3	-6		4	-#	-4	•6		•4	•4 •5	-2
24-Parganas	•3	-2	-3		2	•3	-2	•š		•1	-3	•2
Calcutta .	1.0	1.8	1.0	2	1	1.0	2.1	1-0		1.9	-9	21
Nadia	•2	-04	•2		-1	-2	-1	•2		-04	·2	- 0)
Murshidabad	•2	•03	•2		•04	•2	•04	•1		•04	·ī	-03
Malda	•1	-02	-08		-02	•1	-02	•1		-02	•1	-01
West Dinajpur	·2	·1	•1		•1	•1	-04	-2		·1	•2	•04
Jalpaiguri · ·	.5	·3 1·4	-6 1-5		4	.9 1.5	-5	.9		•7	•9	-8
Darjeeling. • •	1.2			-	•4		. 1.4	1.2		1.5	1•4	1.2
Cooch Behar · ·	••	••	••	•	•	••	••	••		••		••

TABLE 16.12

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

	Avers 194	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 Burdwan Birbhum Midnapur Hoophly Howrah 24-Parganas Calcutta Nurshidabad Murshidabad Matda Jalpaiguri Jalpaiguri Darjeeling	· · · · · · · · · · · · · ·	·1 ·1 ·1 ·1 ·1 ·1 ·1 ·04 ·1 ·005 ·1 ·1 ·1 ·03 ·02 ··	·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·	$\begin{array}{c} \cdot 1 \\ \cdot 03 \\ \cdot 1 \\ \cdot 02 \\ \cdot \end{array}$	·1 ·1 ·1 ·1 ·1 ·1 ·04 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1	·1 ·1 ·1 ·1 ·1 ·1 ·04 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1	·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·	·1 ·2 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·03 ·1 ·1 ·03 ·1 ·1 ·03 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1	·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·	·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·		1 -1 -1 -1 -1 -1 -03 -1 -005 -1 -2 -1 -1 -02 03
	1	1946		1947		194	8		1949		19	50
	Male	Female	Male	Fem	ale	Male	Female	Male	Fema	Je ·	Male	Female
West Bengal Burdwan Bankura Midiapur Hookhy Howrah 24-Parganas Calcuta Murshidabad Murshidabad Mada Jalpaicuti Danyeeing Couch Behar	·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·	-1 -1 -1 -1 -1 -1 -1 -04 -1 -1 -1 -1 -2 -2 -01 -01 	$\begin{array}{c} \cdot 1 \\ \cdot 05 \\ \cdot 00 \\ \cdot 1 \\ \cdot 1 \\ \cdot 1 \\ \cdot 1 \\ \cdot 05 \\ \cdot 02 \\ \cdot \end{array}$	5	1 • 1 • 03 1 1 04 1 005 2 1 1 2 04	·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·	·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·	1 1 1 1 1 1 1 0 3 1 0 2 1 1 1 1 1 1 0 2 1 1 1 1 1 1 1 1 1	11 11 11 11 10 10 10 10 10 10 10 10	4	·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·1 ·	

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

				les for	19	41	1	942	. 1	943	1	1944		1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Temale	Male	Female
Wast Brughl		•	40-3	43-0	40-7	40-6	82-2	33-6	86-9	100-5	34-0	35-8	19-4	17.6
Burdwan .		•	39-9	45-1	25-8	24-4	53-0	57-8	104-9	122-9	31.5	85-9	8-9	11.4
Birbhum .		•	29-2	29-8	62.0	52·2	25-8	23-0	96-7	103-8	24.5	36-4	2.6	3.2
Bankurs .		•	80-8	86-0	23-1	23-8	84-9	35-4	107·0	125-8	19-6	22-1	5-1	16-3
Midnapur .	•	•	\$2·1	85-7	22.5	21.2	80-4	84-3	17-8	93-0	27.2	20-5	7.6	9-2
Hooghly .		•	80-9	84-9	23-4	25·3	81.0	82-5	61-7	79-9	26.5	27.7	29-1	21.9
Howrah .			60-4	89-8	93-8-	89-2	86-3	86-2	115-4	157-6	72 0	79-3	81.3	79-8
24-Parganas			75-1	81.7	99-9	105-1	89-1	40·0	134-3	161.3	81.6	88-3	80-0	26-1
Calcutta .			45-8	88-2	61-8	44-1	22-8	15-1	41-3	84.0	85-5	25.3	51-4	82.5
Nadia .			87-6	42.7	7.9	8-6	21-4	21.3	76-3	88-6	13.8	16-6	9-8	11.6
Murshidabad			27.5	81-8	39-7	45-4	82.3	39-5	75-3	87.7	10.8	12.8	8.7	3.4
Maida .			26-6	82.8	16-8	15-1	15-5	16.3	70-4	87-5	11.0	25-5	11.0	10-8
West Dinajpur		-	21-1	21-4	5-8	4-5	5.4	9-1	81-8	77.8	11.3	10.2	8.8	3.1
Jaipaiguri			12.2	12-4	9-8	8.7	7.1	5.6	62-1	64-5	4.5	4-9	2.0	2.0
Darjeeling.			4-1	2.8	••		4-9	4.6	18.3	8.4	4.0	8.1	2.8	3.0
Cooch Behar		-								•			7.0	3.0
		•		1946		1947	•	19	48		1949		1	950
			Malo	Temale	Mal	•	Female	Male	Female	Male	Feu	ale	Male	Female
West Bengal			22.6	24-6	26.	2	28-1	85.2	36-5	35.7	85	3-8	47-2	49-5
Burdwan .		-	12.7	12-4	20-	6	25.4	87.1	41.0	82.8		9-0	55-8	63-6
Birbhum .			4.4	4.7	25-	Ó	25.7	14-1	13-2	6.0		5.8	10.4	10.7
Bankara .			7.6	11.6	16	7	23.5	12.0	13.9	11.2		3.3	18-1	21.1
Midnapur.			7.8	9.8	17-	9	19.6	19.7	22.0	30-3		3-0	20.7	20.9
Hooghly			23-4	27.5	27	0	84-4	38-1	40-G	23.1		8.6	25.7	27.2
Howreh .			51.8	60-3	76	8	91-8	83-2	86.1	55-9		i · ž	27.1	81.4
24-Parganas			84-4	40.4	89	ī	45-6	62.1	69-8	107-7	11		85-2	97.8
Calcutta .	•		24.0	15-8	43		29.8	56-8	45-2	33-8		7-3	82.2	78-8
Nadia .			49-5	55.4	23		28-3	89-8	49-8	88.1		2.7	92.5	88-7
Murshidabad	•		25-4	28.0	· 9		9.8	10.6	25.0	15.0		7-9	19.6	19-5
Maida .	•	•	63 0	59-3	i.		5.3	25.5	27.5	23.8		4-9	41.7	49-1
West Dinajpu		•	20.8	22-8	18		15.7	4.2	4.1	10.1		9-7	55-6	62-4
Jaipaiguri	••	•	1.8	1.0	2		8.0	8.8	4.0	8.7		5.1	12.8	12.2
Darjeeling.	•	•	2.7	2.0		.š	-7	2.2		1.4		1.0	4.4	3-4
	•	•			-	-	•							
Cooch Behar	•	•	••	••	••		••	••	••	••	•	•	••	••

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.)

			Aver 194	age for 1-50	1	941]	942	. 1	943	1	944	1	945
•			Male	Fema 'e	Male	Female	Male .	Female	Male	Female	Male	Female	Male	Female
West Bengal			536	541	496	522	511	541	520	532	583	608	535	565
Burdwan .			588	631	5 59 ·	605	438	467	619	646	683	715	598	645
Birbhum .	-	-	769	797	649	690	695	726	737	761	837	857	803	830
Bankure .			597	044	572	615	859	619	596	612	650	687	567	609
Midnapur .			548	683	650	593	522	547	489	500	631	661	576	626
Hooghly .			888	428	890	437	405	441	418	454	435	466	875	413
Howrah .	•	•	245	250	184	109	211	200	265	254	266	271	232	200
24-Paryanas	•	•	438	448	895	415	428	452	469	429	489	492	445	458
Calcutta .	•	•	130	118	94	78	135	120	127	108	161	129	149	125
	•	•	708	729	739	774	708	740	701	714	805	830	764	780
Nadia	•	•								776	842	859	728	743
Murshidabad	•	•	786	748	670	686	697	705	775					
Maida .	•	•	793	785	810	769	805	597	808	804	866	862	826	825
West Dinajpur	•	•	609	617	748	741	599	700	675	664	631	635	598	602
Jalpaiguri			490	479	574	549	547	559	544	489	652	660	672	631
Darjesling			554	532	576	558	551	525	540	538	612	680	605	564
Cooch Behar	•	•	••	••	••	••	••	••	••	••	•••	••	••	••

			1	946	1	1947	10	48	1	949	1(50
			Male	Female	Malo	Female	Male	Female	Male	Female	Male	Female
West Bengal		•	526	554	513	545	488	514	484	516	456	477
Burdwan .			641	583	596	. 638	569	615	570	625	535	578
Hirbhum .		-	791	815	777	818	765	788	785	812	811	840
Nankure .			569	625	611	651	616	680	613	677	612	675
Midnapur .		:	567	613	572	612	562	599	529	678	522	563
Howghly .			371	418	877	418	366	408	871	414	847	395
Howenh			265	270	250	269	258	278	273	290	199	170
24-Parganes			482	494	451	460	/ 428	443	888	407	895	407
Calcula .	•	•	155	144	135	142	129	131	124	115	100	95
Nadia	•	•	642	643	706			656	678	687	609	635
Murshidabad	•	•	678			729	644		727	743	679	691
Makia .	•	•	754	655 750	740	748	722	740	734	748	709	727
West IMpalpur	•	•	691		818	815	743	735		509	613	564
	•	•		598	679	641	600	599	761			
Jalpaiguri	٠	•	477	470	419	417	- 871	858	\$43	849	344	367
Instanting	•	•	84.8	638	568	538	549	529	478	469	470	447
Ososh Bohat	•	•	••	••	. •	••	•	••	••	••	••	••

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

			Ave	tage for			1.1		•		· • ·			
				1-50	1	941	1	942	19	43 .	1	944	1	945
			Male	Female	Male	Female	Male -	Female	Male	Female	Male	Female	Male	Female
West Bengal		÷	19-0	20.7	24.2	24.1	2-8	3.1	3-6	8-7	31.7	54-9	51-0	56-0
Burdwan .			14	17	18	20	7	7	6	6	5	6	46	57
Birbhum .			7	7	5	6	7	6	1	2	6	6	27	28
Bankura .		-	11	11	3	4	0.3	0.6	0-1		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	i -	1	2	30	36	87	98
Howrah .	•		53	60	50	62	10	13	ē	8	120	140	138	155
24-Parganas	•	•	19	Ž1 ·	29	81	Ă	5	ž	i i	30 -	36	71	75
Calcutta	•	•	67	79	126	125	Ā	i	26	25	127	158	89	114
Nadia .	•	•	1	iõ	5	6	0.5	0-3			17	18	ĩi	14
Murshidabad	•	•		10		F	0.3	1	ĩ		- 1	10	42	
	•	•		10		10	0.9	-	-	0-2			21	· 45 26
Maida .	•	•	ē,		ę	10	Z	z	1	0.2			41	20
West Dinajpur	•	•	9	11	1	1	0-4	1	Z	z	24	28		10
Jalpaiguri		•	1	1	••	••	0.5	••	1	1	5	3	3	· 1
Darjeeling	•	•	8	1	0-4	••	••	0.0	1	0-2	2	2	6	4
Cooch Behar		•	••	••	••	••	••	••	••	••	• •'	••	••	••

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and the state of the state of the

			1	946	1	947	1	948	1	49	1	950
			Male	Female								
West Bengal			11-3	12.7	7.6	9-5	20-0	21-1	3.3	3.3	81-9	36-6
Burdwan .			36	45	7	7	8	10	2	2	18	2
Birbhum .		•	14	11	2	2		4	0.3		6	
Bankura .	•		7	6	-8	1.0	5	6	-4	2	ğ	<u>9</u>
Midnapur .			0-7	0-7	1	1	4		2	1	11	12
Hooghly .	•	•	10	9	3	3	11	13	3	2	48	65
Howrah .	•	•	17	20	9	7	46	42	8	7	83	88
24-Parganas	•		7	8	2	2	13	12	4	4	19	16
Calcutta .		•	3	4	42	55	95	110	13	15	101	123
Nadia .		•	17	18	3	3	4	6	2	3	28	32
Murshidabad	•	•	19	19	1	2	2	2	ī	ī	15	15
Malda .	•	•	5	7	3	1	11	11	Ū-3	0-5	15	· 16
West Dinajpur	•	•	20	23	16	18	2	3			7	8
Jalpaiguri	•	•	0.3	0-2	0.8	0.2	0·4				i	ĩ
Darjeeling	•		1	0-2	4	2	4		ï	ï	8	ā
Cooch Behar	•	•	••	••					-			· · · ·

TABLE 17.4

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

	,			rage for 941-50	1	941	1	942	1	943	1	944	3	1945
			Malo	Female	Male	Female .	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal Burdwan	•	•	-03	-01	-005	-005	••		••		-01	-004		••
Birbhum .	•	•	••	••	••	••	••	••	••	••	•• ·		••	
Bankura .	•	•	••	••	••	••	••	••	••	••	••	••		
Midnapur.	•	•	••	••	••	••	••	•••	••	••	• -		· -	
Hooghly	•	•	••	••	••	••	••	• •	••	••	••	••		
Howran .	•	•	••	••	••	••	••		••	••			•,	
24-Parganas	•	•	••	••	••	••	••	••	••	••	••			
Calcutta .	•	•	-3	•:	•:	•:	••	••	••	••	••			
Nadia .	•	•	••	-1	-1	-1	••	••	••		-1	-04		
Murshidabad	•	•	••	••	••	••	••		••	••	••	••		
Malda .	•	•	••	••	••	••	- .	••	••	••	••	••		
West Dinajpu	•	•	••	••	••	••	••	••	••	••	••	••		
Jalpaiguri	•	•	••	••	••	••	••	••	••	••				
Darjeeling.	•	•	••	••	••	••	••	••		••	••			
Cooch Behar	•	•	••	••	• -	••	••	••	•-	••	••		••	
COOCH DENN	•	•	••	••	••	••	••	••.	••	••				

			1	946	1	947	1	945	:	1949	1	950
			Male	Female	Malo	Female	Male	Female	Male	Female	Male	Female
West Bengal Burdwan	•	•	-01		-03	-01	•1	-02	•2	-1	-02	••
Birbhumn .	•	•	••	••	••	••	••	••	•1	••	••	
Bankura .	•	•	••	••	••	•• *	••	••	••	••		
Midnapur .	•	•	••	••	••	••	• • •	••	••	••	-	
Hooghly .	•	•	••	••	••	••	-03	••	••	••		
Howrah .	:	:	••	••	••	••	••	-1	••		••	
24-Parganas	1	•	••	••	••	••	••	••	-4	-2	••	
Calcutta .			ï	••		::	-5	ä		••	••	
Nadia .	-	:	-	••	-	•1	-5	•1	1.8		-1	••
Murshidabad		-		••	••	••	••	••	••	••		••
Maida 🖕	•			••	••	••	••	*2		••	••	••
West Dina pur				••	••	••	••	- 7	••	••	••	•.
Jalpaiguri	•	•	••		••	••	••	••		••	a .	••
Durjeeting.	•	•	••		••	••	-•	••	••	••	. .	••
Cooss Bellar	•	•	••			••	••	••	••	••	•-	
			-	••	••	••		••	••	•-	••	••
												7▲

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

				nage for ML-60	19	41	1	1942	1	943	1	944		1943
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			65-8	67-8	66-0	65-8	67-5	66-0	61-2	71.0	63-0	61-8	54-3	54-8
Bardwan .			50-8	49-4	62.8	63 2	54-3	54-7	50-8	49-6	42.6	40.8	44-5	40-7
Birbham .		•	20.3	17-8	38-8	39-5	43-8	39-7	27-4	25.0	18.5	12-3	11-6	8.6
Bankura .	•	•	61· 5	52·4	76-6	75.1	61-0	63-1	55.7	49-2	66-8	59.2	40-0	42.9
Midne par			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
Howrah .	÷ •		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-Parganes			72-5	72.5	66-1	66-4	73-1	72.4	89-0	89-9	64-5	69-0	56-9	57-2
Calcutte			124-1	133-6	111-4	105-1	135-1	137-4	141-8	134-7	111.9	116-0	100-8	111-2
Nadia .		-	24-9	22-4	14-5	12.4	21-1	13-9	13-2	11.2	20.3	17.5	19-8	19-3
Murshidabed	2		18-2	17-5	13.0	12.7	19-2	20.1	10-4	9.0	9-1	8.8	16-5	15.8
Maida .			17-1	14-5	12.1	10.2	15-8	13-9	12.7	11.8	9-4	7.5	17.5	12.7
West Dinalput			23-6	20.6	15-2	13-6	21.3	14-2	21.9	18.0	14-1	9.6	14-3	13-4
Jabaiguri			53·2	48-9	33.5	28.6	20.9	17.2	30-1	27.1	39-1	38-2	48-2	40-1
Darjeeling	•		85-0	76-0	82.5	77.4	79-9	66-1	93-9	78.7	89-8	70-7	87.6	55.7
Couch Behar	:	:		••										00.1
				1946		1947		19	48		1949		19	
			Male	Female	Mal	•	Female	Male	Female	Male	Fem		Male	Female
West Bengal	•	•	61-6	62-1	68-1		70.7	72.6	75-1	74-0		-6	78.8	81.7
Burdwan .	•	•	88-5	86-1	44-		43-5	52.0	51-7	56.8		1-9	66-4	63.4
Birbhumn .	•	. •	8.1	8.9	16-		12.5	14-2	13-1	12.0		-9	15.8	12.4
Bankura .	•	•	87-1	38·7 55·7	39-1		46-4	46-0	50-5	46-3		-1	60· 3	50-1
Midnapur .	•	•	58-3		78-		77.8	83.0	80-9	84.0	86		76-4	71.6
Hooghly .	•	•	105·0	124.8	126		137.2	124.0	147.7	133-1	137		114-2	130.6
Howrah .	•	•	154-1	173-8	171-		190-5	150.0	167-1	137.9	146		138.8	146-5
24-Parganes	•	•	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		127.3	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		-8	38-5	35-3
Maida .	•	•	33-8	81.2	14-		12.1	14.6	13-9	19.3		-8	18.8	15-4
West Dinajpur	•	•	17.7	14.0	30-		31.8	21.0	14-1	84.8		.2	48.0	47-0
Jalpaiguri	•	•	82.8	58.8	61-		57-8	65-8	05-9	78·0	84		96-9	91-9
Darjeeling	•	•	6-66	77-8	86-	D	67·1	90-2	81-8	80-7	65	-9	83-9	81.4
Couch Behar	٠	•	••	••	•	•	••	••	••	••		••	••	••

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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

.

				ge for 1-50	1	941	_ 1	942	1	943	1	944	1	1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bongal	•		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
Bankura			68-7	42-5	84.7	53-8	77.8	48-9	49-2	83-2	64-4	42-8	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	148.3	92.1
Howrah			133-9	95-2	171-9	129-0	158-1	122.8	109.2	79-9	116-1	79.7	124-5	79.7
24-Pargabas		•	70.7	53-8	90-5	53.8	93.4	184-5	55.1	34-8	62.4	89.0	65-5	46-3
Calcutte	•	•	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	27.8
Murshidabed	•	•	16.7	14-0	12-8	8.2	18.8	14-8	13.1	10.9	16-0	13.6	18-1	86-6
	•	•	25-4	17-2	20.5	20.4	47-9	45.4	43.8	36-1	14.5	13.0	13-0	8.9
Makia .	•	•		102-4									109-7	101-3
West Dinajput	•	•	121.7		108·0	102-6	146-5	135-1	127-8	111-4	83.0	75.4		
Jaipaiguri	•	•	197-7	156-2	204-5	161-7	206-7	145-8	179-1	184-9	186-1	162.7	202.7	160-4
Derjeeling	•	•	76-2	76-0	80-0	76·6	87.7	82.8	69·3	75·2	68·5	70-9	76-8	73-1
Quoria Behar	•	٠	••	••	••	••	••	•• '	••	••	••	••	••	••

			1	1946	_ 1	1947	1948		19	49		1950
			Male	Female								
West Bengal			91-8	60-8	90-7	63-7	86-9	60·0	86-6	57-5	83 7	59-2
Burdwag .			72-8	44-8	77-2	49-3	68-8	37.8	72.6	42.9	81.6	40-8
Birbusm .			22-6	14-1	20.1	10.2	23.7	13-5	20-1	11-8	16.9	10.0
Bankurs .			79-1	45-8	72.8	46-6	68-6	39-3	64-6	85.8	69-4	37.4
Midnapur .	•	•	102-7	67-6	86-5	54-2	78-0	46-0	71.4	40.6	67-9	39-4
Houghly .			147-6	82-5	137-8	85.6	125-9	80-1	128.2	78.2	122.7	50-5
Howrah .			135-6	94-8	142.5	101-4	130-9	95-9	136-5	96-8	156-0	105-1
\$4-Parganes			82.6	45-7	67-4	42.8	62.6	33.6	66-4	36.5	65-8	35-5
Calcutta .			189-0	158-5	170-4	152.8	143-4	122-4	149-9	127.4	136-0	112-6
Nadia .			34-7	17-8	32.5	18-1	84-2	14.7	29-1	25-0	28.7	17-4
Murshidabad		•	13-0	10-1	18-0	9-5	19-9	8-3	16-8	7.0	20 2	12.6
Mahia .			18.6	11-6	22.2	10-6	36-6	22.8	36-0	17-6	84-2	13-8
West Dinalpur			137-3	109-0	128.2	91.7	135-0	108-9	136-5	104-8	122-8	103-5
Talpaireri			193-2	166-9	216-4	163-3	215-6	173-8	218-0	177-0	166-8	143-8
Darmeling	•		62-1	70-7	69-5	76-3	81.7	83.9	86-4	77.0	65-9	76-1
Quuch Bonar		•	••	••	••		•••			••	••	••

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

				age for 941-50	1	941		1942	:	1943		1944		1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal Burdwan . Birbhurn . Bankura . Midnapur . Hooghly . Howrah . 24-Parganas Calcutta . Nadia . Murshidabad Malda . West Dinajpur Jalpajguri Darjeeling Cooch Behar		•••••••••••••••••••••••••••••••••••••••	2.5 2.1 1.6 2.5 4.8 5.15 4.8 2.0 2.0 1.6 3.5	2.6 2.3 1.4 5.1 5.2 2.2 2.2 2.2 1.5 1.0 1.5	2.4 2.5 1.7 2.8 5.5 4.0 1.0 1.8 2.0 2.0 2.0 2.7	2.9 3.1 2.8 1.6 7.5 5.5 5.8 0.4 1.0 1.7 2.2 1.0 	$\begin{array}{c} 2\cdot 2\\ 2\cdot 2\\ 2\cdot 8\\ 2\cdot 4\\ 5\cdot 1\cdot 6\\ 1\cdot 3\\ 1\cdot 3\\ 1\cdot 3\\ 1\cdot 7\\ 2\cdot 6\\ 1\cdot 3\\ 1\cdot 7\\ 2\cdot 6\\ 2\cdot 2\\ \cdot \end{array}$	8.2 3.0 3.1 1.5 5.7 7.3 1.0 1.0 2.1 1.2 1.0 1.0	1.9 1.6 1.2 1.0 5.1 6.2 3.2 0.3 1.0 1.3 3.1 1.5 1.0 3.1 	1.9 1.4 1.0 6.3 4.0 0.2 1.4 1.5 1.5 1.5 1.0 0.4	1.9 1.8 1.4 2.3 1.1 3.1 4.8 1.3 1.3 1.7 1.1 1.0 3.2	1.7 1.4 2.1 1.2 4.4 2.5 3.1 1.0 1.5 1.5 1.5 1.0 2.2	2.4 2.8 1.2 1.5 3.4 3.3 2.3 1.5 1.5 3.5 	2.5 2.4 1.0 3.2 1.5 4.7 6.8 1.7 2.9 1.8 1.7 2.9 1.9 0.5 1.0
			_	1946		1947		19	48		1949	.	1	950
			Male	Female	Mal	e Fe	male	Male -	Female	Male	Fem	ale	Male	Female
West Bengal Burdwan . Barbhuua . Bankura . Hooghly . Howrah . 24-Parganas Calcutta Nadia . Murshidabad Maida . West Dinajpur Japaiguri Darjeeling Cooch Behar	• • • • • • • • • •	• • • • • • • • •	2·7 2·2 1·0 3·2 1·3 4·4 4·4 4·4 3·0 1·6 2·0 1·0 3·4	3.0 2.5 1.4 2.9 1.9 6.4 7.8 5.9 1.4 3.0 2.4 1.6 1.8 1.7 1.8 1.7	2:5 2:1 1:9 2:5 4:5 3:8 2:0 2:1 2:9 1:4 1:2	1 1 1 1 1 1 4 4 5 2 2 2 2 2 3 1 1 1 1 4 5 2 2 3 3 1 1 1 2 2 2 2 3 3 1 1 1 2 2 2 2	·6 ·8 ·8 ·1 ·3 ·9 ·1 ·3 ·5 ·1 ·6 ·7 ·0 ·2 ·	2.8 2.08 2.2 1.8 2.2 1.6 4.4 4.4 4.4 4.4 3.6 2.5 2.5 2.5 2.5 2.9 9 2.9 9 1.4 4.3	3.0 2.1 1.7 2.1 1.8 5.2 2.8 4.8 2.8 4.8 2.8 4.8 2.8 4.8 2.3 1.7 0 2.3 1.7 0 2.3	3.1 2.6 2.3 3.1 2.0 5.6 4.2 4.3 4.0 2.1 2.4 2.5 1.3 6.9	8: 3: 1: 3: 1: 7: 2: 4: 5: 5: 5: 1: 1: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5:	2 8 7 8 1 1 1 7 4 8 0 5 5 0 0	80 1670 1571 5258 2.89 1250 1.09	3·1 2·9 1·2 2·2 1·2 7·4 2·1 5·8 2·1 5·8 3·9 8·2 1·0 1·2 2·2

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
West Bengal		_	16.5	20.5	00.1			
Burdwan .			16-2	20.5	20.1	10.0	10.4	15-0
Birbhum .		:	11.0	17.5	19.5	11-4	8.5	13.9
Bankura .		• •	13.0	18-3	19.5 .	8.2	5-3	9-4
Midnapur .	:	•	17.9		16.9	9-2	7-5	11.3
Hooghly .	•	•	20.3	26-0	22.4	8-9	11.3	18.7
Howrah .	•	•	11.2	27.1	27.7	18-1	15-1	14.2
24-Parganas	•	•	14.2	19.7	15.2	9-9	10-1	11.2
Calcutta	•	•	9.9	18.5	17.7	14.2	8.1	13.3
Nadia .	•	•		3.5	2.9	1.6	8.9	11.2
Murshidabad	•	•	11.0	6-6	4 ·3	4.2	7-0	11.4
Maida	•	•	8.3	6.7	9-2	3-6	5-4	8-0
West Dinajpur	•.	•	16.8	23.6	36-3	16.4	10.4	12-9
Jalpaiguri	•	•	34-0	35.9	38-0	35-8	22.9	30-5
Darjeeling	•	•	51.5	63-7	57.2	37.3	29.5	38-0
Cooch Behar	•	•	23-8	23.5	29.2	21.0	18.5	23-0
coocn benar	•	•	••	••	••		10.0	23.0
			1946	1947	1948		1949	1950
West Bengal								
Burdwan .	•	•	19.1	16-6	21-1		22.5	36.7
Birbhum	•	•	16.8	17-0	19.6		22-8	16-4
Bankura	•	•	9-8	9-1	15-6		15.0	8.1
Midnapur .	•	•	17-0	13.0	13-3		15-9	11-9
Hooghly	•	•	22.8	18.7	22.6		20.5	19-4
Howrah .	•	•	20-6	18-5	24-2		23.6	
24-Parganas	•	•	13.8	8 ·3	10-9		10-4	18-1
Calcutta .	•	•	16.4	14-2	17.7		19-3	6.3
Nadia .	•	•	15-0	9-1	15-2		17-6	14-8
Murshidabad	•	•	14-8	12.7	23.1		22.4	12.1
Maida .	•	•	8.3	8.7	16.5		13.0	13.8
West Dinajpur	•	•	14.3	19-2	19-9		22.9	12.2
Jalpaiguri	•	•	34-3	\$5-2	. 39-4		15-5	13.7
Darjeeting	•	•	60.7	52.8	62-3		78-2	29.1
Cooch Behar	:	•	23-4	26-7	24.2		39-6	58-2
CONCH DOUBL	-	•	••	••			**	16-2

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

				erare for H1-50	1	941		1942	19	H3	ı	944	1	945
			Male	Tomale	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			231-7	245-6	213-5	232-4	236-5	253-4	264-1	276-9	279-9	299-0	267.7	285-1
Bardwan .			805-1	835-5	338-5	836-4	336-6	883.0	414-8	442.3	479-7	507-3	350-7	391 7
Birbhum .			442-8	487-1	317-3	848.6	330-6	849-7	511-5	540-3	634-4	654-0	613-9	618-4
Bankura .			200-4	232-1	204-3	231-7	198-7	240-5	270-6	309-2	250-0	276-3	175-4	200-4
Midnapur .			244-8	245-0	249-2	283.0	248.7	273-5	299-3	314.6	321-0	344-2	266.2	292.5
Hooghly		•	212-4	236-9	239-0	269-2	246-0	276-5	265-4	292.8	270-4	288-3	196-4	218-6
Howrah .		•	95-7	97-9	80-5	32-6	45-3	43-1	94.6	88.5	105-6	107-5	97-4	102-2
24-Parganas			128-1	184-9	90-2	100-9	115-7	130-6	148-5	156-6	161-4	171-7	132.2	145-1
Calcutta .			40-8	84-5	16.2	18-7	62·5	42-8	50-8	40-9	74-5	64-6	47.5	40-0
Nadia -			827-7	817-9	213-1	206-3	309-8	324-8	195-0	164-4	161-9	138-6	835-5	264-2
Murshidabed			394-5	402-5	441-9	475-9	369-5	389-5	391-9	367.4	506-2	516-7	566-5	579-4
Makia -			342-5	3 39-7	356·2	366-2	649-9	845-2	579-9	615.9	241.9	261.7	278-4	282.0
West Dinajput			215-2	222-5	225-2	233-8	348-4	829-0	308-3	337-2	203-3	204-5	238-4	248-2
Jalpaiguri			188-9	189-4	205-6	205-1	191-6	198-3	168-3	166-3	151-8	156-1	214-9	226-1
Darjeeling			247-6	220-7	249-3	214-4	258-8	238.5	284.7	264.5	315-8	291.6	283.9	250.7
Cooch Behar			••	••	••				••					
			Male	1946 Female	M	1947	Female	194	Female	Male	1949		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	50
											1.6	male	Male	Female
West Bengal		•	240-6	253-6	206		220·6	192-8	205-1	199-2	21		157-6	167-4
Burdwan .		•	199-3	225-4	199		219-3	215·2	239-1	219-6		4.8	161-6	178-8
Birbhum		•	479-9	490-9	432		444-2	360·0	366-9	426-1		1.5	367.3	889-4
Bankura .	•	•	157·6	103·2	191		213-2	189.8	216.8	213.9	24	4-4	182-1	213-8
			228·1	252-7	206		227-9	203.4	222.5	173-7		ō- 4	142-9	165-0
Midnapur.														159-1
	:	•	169-8	198-4	187		202-7	186.4	214-9	190.7	21		131-6	
Hooghly .	:	•	118.0	198·4 110·1	104	·6	111-3	186-4 116-5	214-9 127-8	134-5	14	8-7	131-6 80-4	69-5
Hooghly . Howrab	:	-	118-0 149-5	198·4 110·1 152·8	104 108	·6 ·1	111-3 111-9	186·4 116·5 114·1	214-9 127-8 115-7	134·5 113·7	14	8-7 7-7	80-4 101-9	
Hooghly . Howrah . 24-Parganas		•	118-0 149-5 40-7	198.4 116.1 152.8 87.6	104 108 85	·6 ·1 ·4	111-3 111-9 32-4	186-4 116-5 114-1 30-7	214·9 127·8 115·7 29·4	134-5 113-7 82-2	14 11 2	8-7 7-7 4-8	80-4	69-5
Hooghly Howrah 24-Parganas Calcutta	•	•	118-0 149-5 40-7 535-4	193·4 116·1 152·8 37·6 543·1	104 108 35 461	-6 -1 -4 -3	111-3 111-9 32-4 476-2	186.4 116.5 114.1 30.7 448.4	214-9 127-8 115-7 29-4 450-2	134-5 113-7 32-2 447-9	14 11 2 45	8-7 7-7 4-8 0-6	80-4 101-9 20-8 871-7	69-5 104-0
Hooghly . Howrah . 24-Parganas Calcutta . Nadia .	•••••	•	118-0 149-5 40-7 535-4 328-2	198·4 116·1 152·8 87·6 543·1 831·7	104 108 35 461 301	•6 •1 •4 •3 •4	111-3 111-9 32-4 476-2 317-2	186·4 116·5 114·1 30·7 448·4 291·5	214-9 127-8 115-7 29-4 450-2 802-4	134-5 113-7 32-2 447-9 321-1	14 11 2 45 33	8-7 7-7 4-8 0-6 7-8	80-4 101-9 20-8 871-7 244-7	69-5 104-0 18-6
Hooghly - Howrah - 24-Parganas Calcutta - Nadia - Murnhidabad	•••••	•	118-0 149-5 40-7 535-4 828-2 845-9	198*4 110*1 152*8 37*0 543*1 831*7 846*2	104 108 35 461 301 328	•6 •1 •3 •4 •7	111-3 111-9 32-4 476-2 317-2 334-5	186.4 116.5 114.1 30.7 448.4 291.5 300.8	214-9 127-8 115-7 29-4 450-2 302-4 286-8	134-5 113-7 32-2 447-9 821-1 840-3	14 11 2 45 33 86	9-7 7-7 4-8 0-6 7-8 6-5	80-4 101-9 20-8 371-7 244-7 820-5	69-5 104-0 18-6 380-2 254-4 822-6
Hooghly Howrah 24-Parganas Calcutta Nadia Murshidabad Murshidabad Malda	••••••	•	118-0 149-5 40-7 535-4 328-2 845-9 2×6-6	198·4 116·1 152·8 87·6 543·1 831·7 846·2 304·7	104 108 35 461 301 328 180	•6 •1 •4 •3 •4 •7 •9	111-3 111-9 32-4 476-2 317-2 334-5 190-5	186.4 116.5 114-1 30.7 448.4 291.5 300.8 186.9	214-9 127-8 115-7 29-4 450-2 802-4 286-8 196-2	134-5 113-7 32-2 447-9 321-1 340-3 111-2	14 11 2 45 33 86 10	9-7 7-7 4-8 0-6 7-8 6-5 6-5	80-4 101-9 20-8 371-7 244-7 320-5 93-0	69-5 104-0 18-6 380-2 254-4
Hooghly Howrah 24-Parganas Calcuta Nadia Murshidabad Maida West Dinajpur	•	•	118-0 149-5 40-7 535-4 328-2 845-9 2×6-6 236-6	198·4 116·1 152·8 87·6 543·1 831·7 846·2 804·7 237·8	104 108 35 461 301 328 180 197	•6 •1 •4 •3 •4 •7 •9 8	111-3 111-9 32-4 476-2 317-2 334-5 190-5 208-4	186.4 116.5 114.1 30.7 448.4 291.5 300.3 186.9 196.2	214-9 127-8 115-7 29-4 450-2 302-4 286-8 196-2 192-4	134.6 113.7 32.2 447.9 321.1 340.3 111.2 183.9	14 11 2 45 33 86 10 17	9-7 7-7 4-8 0-6 7-8 6-5 6-5 8-8 1-3	80-4 101-9 20-8 371-7 244-7 320-5 93-0 144-9	69-5 104-0 18-6 380-2 254-4 822-6
Midnapur . Hooghiy . Howrah . 24-Parganas Calcutta . Nadia . Murshidabad Maida . West Dinajpur Jalpalguri Darjeeling	• • • • • • • •	•	118-0 149-5 40-7 535-4 328-2 845-9 2×6-6	198·4 116·1 152·8 87·6 543·1 831·7 846·2 304·7	104 108 35 461 301 328 180	•6 •1 •4 •3 •4 •7 •9 8	111-3 111-9 32-4 476-2 317-2 334-5 190-5	186.4 116.5 114-1 30.7 448.4 291.5 300.8 186.9	214-9 127-8 115-7 29-4 450-2 802-4 286-8 196-2	134-5 113-7 32-2 447-9 321-1 340-3 111-2	14 11 2 45 33 86 10 17	9-7 7-7 4-8 0-6 7-8 6-5 6-5	80-4 101-9 20-8 371-7 244-7 320-5 93-0	69-5 104-0 18-6 380-2 254-4 822-6 96-6

TABLE 17.10

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

				age for 1-50	194	1	1	1942	19	43	1	944	1	945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			6-2	4.7	5·1	8.9	5.2	8-9	8.6	2.7	3.9	2.8	6-4	4-6
Burdwan .		•	4-5	3-4	2.5	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
Bankura			•4	•2		•6	•2	•8	•4	•2	•3	•2	-1	.2 .2 4·9
Midnapur .	•	•	•7	•8	•6	•8	•2	•2	•2	•05	•8	•1	-4	•2
Hooghly .			10-0	7.1	8.0	5.1	6.2	4.8	•7	•6	6-8	8.6	8.9	4-9
Howrah .		•	2-1	1.6	1.4	2.0	•8	•5	2.4	2.7	1-1	.9	1.8	-8
24-Parganas			4-1	8.0	5·0	2.8	4-8	8.6	2.5	1.9	2.6	2.0	8.8	2.7
Calcutta .			6.6	5.6	4.8	2.9	4-5	8.0	8-4	2.0	5.0	8.8	7-4	5-2
Nadia .			5·7	4-8	6-3	6.0	4-8	2.9	8.8	2.8	8.9	8.0	6-4	5-3
Murshidabed	÷.		8.5	6-1	7.7	6.3	8-6	7.2	4.7	8.2	6-5	4.0	11-8	8.9
Maida .			11-1	8 ∙7	13.0	13-4	19-0	18-9	15.7	13-6	5.8	8.0	8-8	6-9
West Dinajpur			46-5	85.7	32·0	28.1	89.7	27.8	46.7	31·1	25.3	18.5	42.3	26-4
Jalpaiguri			6-0	4-9	8.6	2.7	4-4	8.0	4-3	2.8	3.6	2.9	5-6	5.8
Darjeeling		•	19-4	14-4	17.7	11.8	24.8	16-4	25-4	16.9	21.8	19-4	17.4	17-1
Couch Behar	-		••		••	••	••	••	••	••	••	••	••	••
				1946		1947		19	48		1949		195	in in
				1940	_			· · · · · · · · · · · · · · · · · · ·				_		
			Male	Female	Male		emale	Male	Female	Male	Fen	ela	Male	Female
West Bengal			8-4	6-3	9-2		6-6	8-6	8-4	7.7	6-1		6-1	6-1
Burdwan .			5-0	4-8	6-9		4-8	8-6	6-8	9.7	6-1		6-9	6.8
Birbhum .			-6	-1	-7		-6	1.6	1-4	1.4	1.9		· •9	-8
Benkurs .			-4	·1	-4		-07	-6	•6	-4	•1		-6	•2
Midnapur .		•	-7	-8	-8		•2	•9	-1	1.5	1.1		1.6	-9
Hooghly .			12-0	8-2	13-6		3-2	15.8	12-0	18-8	13-		14-4	12.2
Howrah .			1.6	1-0	2.8		1-9	2.1	-9	4-8	8-6		2.6	1-9
24-Parcanas			4-1	2-4	5-3		8-0	5-5	3-5	5-6	4-1		4.5	4.7
Calcutta .			10-6	7-6	8-5		8·7	9-4	9-8	7.8	8-0		5-2	4-8
Nadia .		-	9-0	5-3	8.7		7.1	6-5	8.6	4-4	8-1		4-5	4-4
Murshidabad			12.2	9-2	10-7		8·7	10- 2	5-9	6-9	4-8		6-4	4-8
Makia .			11-0	9-3	37.2		1.1	13-9	8.7	10-6	8-		8-6	7.1
West Dinajpar			7-6	50-5	73-8		1-2	63-5	52.2	46-7	41-6		87-6	82.4
Jalpaireri			8-1	6-1	12-6		9-2	8-9	7· 7	7-4	6-		8-4	8-A
ling pealing			13-3	10-5	20-6	1	5-3	16-8	14-4	14.7	7.0	L	11-6	6- P
Couch Heber	•	•	••	••	••		••	••	••	••	•	•	••	

				age fo r 1-50		1941	1	942	1945	3		1944		1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
			21.5	12.7	25.0	16.2	24-0	14.2	14-4	8.0	15.9	9-2	19.7	11.0
West Bengal		•	21.3	6.0	23.9	7.5	24.1	7.1	14-9	4.7	14.9	4.7	18-6	4-4
Burdwan		•	10.7	2.7	19.5	5.5	14.9	4-1	6.2	1.6	6.6	2.0	10.8	2.5
Birbhum		•	21.7	5.8	23.8	5.9	24.7	6.3	11.4	2.8	16.7	4-9	23.6	4-6
Bankura		•	11.7	2.6	13.0	3.3	11.2	2.9	5.2	1.1	8.7	1.9	11.7	2.6
Midnapur .		•		10.2	32.8	12.0	29.5	13.7	24.0	9.2	21.7	7.6	20-5	9.1
Hooghiy		•	26.0	19.5	39.7	27.9	42.3	26.5	23.8	13.2	27.0	13-6	38.4	19.7
Howrah		•	84.7	9.4	21.4	10.4	22.6	9.7	11.2	4.8	12.5	6-2	19-2	10-1
24-Parganas -		•	19.5	65.4	75.8	92.1	82.8	103.6	47.2	50.5	48.9	53.8	56-7	61.4
Calcutta	,	•	58.6		4.6	1.4	3.7	1.5	2.8	1.0	8-9	1.2	5.1 .	1.0
Nadia .		•	5.6	1.4	5.8	2.4	5.8	1.8	2.5	0.6	5.3	1.0	6.1	1.2
Murshidabad		•	5.8	1.3		1.7	3.9	1.0	3.4	1.2	1.9	0.6	2.2	-1
Malda .		•	3.3	1.1	2·7 6·5	2.6	5.2	3.4	6.6	1.9	4.9	1.5	4.2	2.1
West Dinajpur .		•	5.8	2.1		10.1	21.0	9.0	16-4	9.2	12.3	6.8	9.6	8.9
Jalpaiguri .		•	24.2	14.2	21.5		48.0	55.0	44-6	45.7	43-1	44.4	43.4	44-1
Darjeeling .		•	53-2	51.6	48·6	43-1								
Cooch Behar .			• •	••	••	••	••	••	••	••	••	••	••	••
				1946		1947			1948	_	1949)	1	.950
			Male	Female	•	Male	Female	Male	Female	o ∙ Ma	le	Female	Male	Female
West Bengal			22.2	12.3		24.6	14.4	26.3	15-8	27		15.6	26.5	16.4
Burdwan .			23.9	6.5		24-2	5.8	26-1	6.2	24		6.2	24-4	7.3
Birbhum			10-8	2.4		9.4	2.2	13.4	8.7	12		2.6	9.8	2.9
Bankura .			24.5	4-9		23.1	4.1	23.7	6.7	25		6.9	29.6	8.4
Midnapur .			14.1	2.5		13.7	2.2	14.8	3.7	15		·3·0	17.7	4.8
Hooghly .			24.8	8.5		22.1	9.0	26.6	9.7	29		13.1	83·1	11.2
Howrah			33· 3	18.6		37.8	20.7	37.1	21.2	41		25-8	41.6	16.7
24-Parganas			23.7	11.6		24-9	12.5	24.0	10.7	25		10.2	24-2	13.0
Calcutta			70.9	73.8		66-9	71·8	58.0	62.6	62		66-0	48.2	55.9
Nadia .			5.9	1.4		7.7	2.3	8.2	2.4		·1	1.6	10.0	•1
Murshidabad			5.2	-1		7.6	2.0	8.6	2.0		•4	2.0	9-1	1.7
Malda .			2.8	·1		3∙4	1.4	5-3	1-1		.7	1.3	5-9	0-5
West Dinajpur			6.1	2.1		4-4	2.3	5-9	1.9		•4	2.4	6.3	1.9
Jalpaiguri			17.1	10.4		29-3	17-8	43.3	22-2	44		30.7	43-9	82-8
Darjeeling	•		42.0	55.8		65.7	60.3	68-9	56-6	70	-2	65-2	61.1	51-9
Cooch Behar	•								••		•		••	•• *
COULD DUING	•	•	•••											

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

TABLE 17.12

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

							•	-						
				age for 41-50	-1	941		1942	1	1943	1	1944	.]	1945
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
West Bengal			8.9	8.7	4.8	4.8	4.7	4.6	· 2·2 ·	2.1	2.8	2.8	3.2	3.6
Burdwan .	•	•	4-9	4-2	7.1	4-5	6.1	5.0	2.9	3-9	3.4	3.3	4.7	· 4·0
3irbhum .	•		2.2	2.6	3.6	2.6	4.2	4-1	1.8	2.1	1.8	2.0	2.1	3.0
saukura .	•	•	4.5	4.2	5.1	5.2	4.8	5.2	2.2	2.9	3.2	8.6	3.4	3.8
lidnapur .		•	5-1	4.1	5.4	4.7	5.7	4·5	1.9	1.5	4-0	4.2	5.6	4.6
looghly .		•	6.1	5.4	8.7	8.7	4-9	7.2	5-6	5-6	3.7	4-4	5.5	4.9
iowrah .			2-5	2.1	3.4	1.8	3-9	3-5	1.3	1.2	1-8	1.5	2.2	1.6
4-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
alcutta			0.4	0.2			-2	•09	••		0-4	0.1	-4	-1
iadia .			4.0	4.5	4.4	3.4	2.9	4.2	2.5	2.0	3.4	2.9	3 ·2	4.7
urshidabad	1.	-	3.6	4.6	4.5	6.1	3.5	3.2	1.8	1.3	2.8	2.8	3.5	5.3
faida .			5.2	6.1	6.2	7.0	9.2	12.9	4.4	2.2	3.1	2.2	3.7	4.2
Vest Dinajpur		-	4.8	<u>5</u> .8	3.5	3.5	5.4	6.0	5.2	6.6	3-9	3.8	3.2	5-3
alpaiguri	•	•	1.7	1.2	1.7	.ğ	1.9	1.3	1.0	-8 -8	-7	•7	1.5	•7
Darjeeling	•	•	- 5	-6	-9	-7	-8	•4	-5	·9	•5	-5	-1	.9
ouch Behar	•	•						••	••	-9		- 3		••
			1	946		1947		1948	3		1949	_	195	j
			Male	Female	. Ма	le Fe	emale	Male	Female	Male	Гец	nale	Male	Female
West Bengal	•		4-2	4.4	4.	5	4.2	4.8	4-1	4-6	4.	3	4-5	4-4
Surdwan	•		4.6	4.6	4.	6	4.2	5.4	3.8	5.7			5.8	4.8
sirbhum .	•	•	1.7	1.8	2.		1.3	3.8	3.3	3.3	3.		3.1	3.5
sankura			4-8	6-1	4.		4.6	4.5	4.6	4.2	4		4.9	5.1
didnapur.	•		5.8	5.9	6.		4·0	8.1	5.2	6.5	4.		6.1	4.7
Hooghiy .	•		6.2	7.6	6.		5.7	6.5	3.8	6.7	5.		7.0 -	6-9
Howrali .			3.3	2.6	8.		2.5	2.2	2.4	2-2	2.		2.6	2.6
4-Parganas			7.1	7.1	8.		5.7	6.5	4.6	6.6	5.		7-5	6.2
alcutta .		•	-7	·.2	Ϋ.		·i	-6	-08	1-0		3	-3	•2
Nadia .			4-8	3-9	5.		8-3	4-6	6-7	5.6	5.			6·8
aurshidabad			41	4-9	4.		6-4	6.1	6-8	3.7	6.		4.7	0-a 7-4
Makia .			4.5	7.1	<u>6</u> .		8-8	6.7	9-0	7-0	7.		6.4	8-1
West Dinajpur			4-0	5.7	5-		6.1	4.7	7.3	5-0	7.		4.1	6-9
Jalpaiguri			1.8	-3	2.		1.2	2.3	1.9	2.7	2		2.1	
Dar)eeling			1-0	·ž		6	5	-6	1.4	9		•2	-8	2.4
Couch Heinr	-			•		-	-	-	1.4	-			-	-5
	-	-	••					••	••	••	•	•	••	••

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

First steps

requiring registration of births, 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

and registration of Vital Statistics during 1864-69

India was to have been taken Proposals for Census in India in 1861 but was deferred in consequence of the Mutiny till 1865. Various administrative prompted inconveniences 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.

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 events in Calcutta ed to Eurasian and Native Medical Practitioners, six in before and after number, one in each division 1873 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.

Year		1569	1869	1870	1871	1872	1873	1874	1875	1576
Birth rate per 1,000 of population census 1876 Death rate per 1,000 of population census 1876	•	13-1 32	13-8 29-8	12·2 24·4	12 [.] 0 24	10-6 27-8	10·7 26·4	10-8 29-4	16∙ 3 33	17·3 30-2
Infast mortality rate per 1,000 births	•	• -	••	••	••	••	••	••	••	348

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

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r was unable to devote siniclent 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

Transfer of registration to Municipal authorities 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 authorities. Records of deaths in municipalities 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 ehecked 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 experi-ment 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 régistration in Registration retransferred to Municipal Authorities 1913 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.—

- 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 thana 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 succeed
 - ing month.
- (iii) Subdivisional Officers to District Health Officer---

Not later than the 15th day of the succeeding 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' hathchittas 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 interprovincial 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:--

local registrars. (b) By registrars to the Subdivisional Officer or Sanitary Inspectors as the

(a) By chaukidar to

- case may be. (c) By Subdivisional Officer or Sanitary Inspector to District Health Officer.
- (d) By District Health Officer to Director of Public Health.

7th day of the succeeding month.

Not later than 12th day of the succeeding month.

Not later than 17th day of the succeeding month.

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 Gov-ernment, 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 intro-duced 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 guidance.

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

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Throughout the State of West Bengal except the district of Cooch Behar the registration of births and deaths within eight days of their Legislation 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 Calcutta Municipal Act of Howrah. 1951.
Cantonment areas Cantonment Acts and Bye-

laws 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 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 hath-chittas 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 than a 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

Defects

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 Reasons why errors not yet been obtained owing to are not eliminated 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 unmanageable 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 nonregistration 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 restored as a registration unit. for their remedy The union clerk may be appointed as registrar of births and deaths and for this extra work paid an additional remuneration 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

Towns 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.

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Table 1

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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 omission over total detec- tion	Percent of detection over regd.
District Bardwan-P. S. Katu	# 1 Kashigram .		258	244	94.6	365	33-2	141-5
	2 Khajurdihi .		181	159	87.8	229	30-6	126.5
•	3 Srikhanda .	• • •	210	179	85.3	274	34.7	130-5
	4 Alampur .	• • •	199	164	82-4	251	34.7	126-1
	5 Gidhgram .		211	179	84.8	304	41-1	144-1
	6 Karui .	• • •	191	174	91·1	255	31-8	133.5
	7 Karajgram . 8 Sribati .	• • •	214 212	179 195	83∙6 91∙9	289	38.1	135.0
	8 Sribati . 9 Singhi .	• • •	175	160	91·5	3 02 22 4	35·4 28·6	142-4 128-0
	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	36.5	138-9
		•						
District Bankura-	1 Manikbazar	• • •	84	75	89- 3	99	24.2	117-9
P.S. Sonamukhi	2 Hamirhati .	• • •	80 92	76 81	95∙0 88•0	91 126	16∙5 35∙7	113-8 136-9
	3 Pearbera . 4 Dhulai .	• • •	92 147	135	91·8	126	35.7 26-6	125.2
	5 Kochdihi		121	108	89.3	184	41.3	152-1
	6 Nabason .		128	128	100-0	164	22.0	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
								100.0
24-Parganao-P. S. Basirkat	I Ghorarash	•••	249 231	210 201	84·3 87·0	322 452	34·8 55·5	129-3 195-7
	2 Dhanyakuria . 3 Chaita	• • •	231	201	88-9	410	51.0	181-4
	4 Champapukur		356	286	80.3	510	43.9	143.3
	5 Sangrampur .		124	108	87-1	290	62-8	233-9
	6 Sankchura	• • •	203	137	67.5	384	64·3	189-2
	7 Itinda	• • •	· 282 271	215 25 3	76·2 93·4	525 52 3	59-0 51-6	186-2 193-0
	8 Pifa	TOTAL .	1,942	 1,611	83.0	3,416	52.8	175-9
		IUIAL .	1,014					
District Nadia-P. S. Naba-	l Bablari		136	67	49· 3	166	59·6	122.0
dwip	2 Swarupganj .	· · ·	208	53	25.5	301	82-4	144-7
-	3 Mayapur .	• • •	194	72	37.1	357	79-8	184-0
		TOTAL .	538	192	35.7	824	76-7	153-2
District Makin-	1 Milki		529	375	70-9	700	46-4	132· 3
P. S. Inglish Bagar	2 Kazigram	• • •	196	152	77.6	199	23.6	101-5
	3 Jodupur .		123	58	47.2	142	59-2	115-4
	4 Amriti		297	199	67-0	338	41-1	113-8
	5 Narhata .	• • •	178	126	70-8	213 183	40-8 57-4	119-7 128-0
	6 Mahadipur . 7 Kotwali .	•••	143 148	78 69	54·5 46-6	151	54-3	102.0
		Total .	1,614	1,057	6 5· 5	1,926	45-1	119-3
	Tours	-						
District Burdwan	Katwa		70	56	80-0	29 2	80-8	417-1
District 24-Parganas	Joynagar-Mazilpur		270	246	91-1	442	44-3	16 3-7
	Halienhar		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 rezd.
	Towns-contd.								
District Darjeeling	Kurseong		• •	237	. 94	39-7	542	82.7	228·7
	UBBAN 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	• •	• •	8,175	6,334	77.5	12,482	49.3	152.7
			Du	PLICATE S	UBVEY				
District Nadia—P. S. Naba- dwip	Unions 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
		Tota	Ŀ.	536	187	34.9	803	76·7	149-8

Table 2

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

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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 letection over regd.
District Burdwan-	l Kasigram		320	302	94-4	430	29.8	134-4
P. S. Katwa	2 Khajurdihi		183	161	98.0	211	23.7	115.3
	3 Srikhanda		188	159	84.6	264	39.8	140.4
	4 Alampur		184	151	82.1	227	33.5	123.4
	5 Gidhgram	· · · ·	· 275	253	92.0	404	37.4	146.9
	6 Karui .		141	132	93.6	210	37.1	148.9
•	7 Karajgram		190	161	84.7	245	34.3	128.9
	8 Sribati		247	231	93.5	303	23.8	122.7
	9 Singhi		201	183	91.0	235	22.1	116.9
	10 Agradwip .		181	155	85.6	211	26.5	116-6
	11 Jagadanandapur		148	139	93.9	220	36.8	148-6
		Total .	2,258	2,027	89-8	2,960	31.5	131-1
District Bankura-	l Manikbazar	÷	89	79	88.7	102	22.5	114.6
P. S. Sonamukhi	2 Hamirhati	• • •	111	99	89.2	102	15.4	105.4
	3 Pearbera		86	84	97.7	147	42.9	170-9
	4 Dhulai		157	154	98-1	200	23.0	127.4
	5 Kochdihi		112	100	89-3	157	36.3	140.2
	6 Nabason		125	124	99.2	166	25.3	132.8
	7 Dihipara.		123	102	82.9	131	22.1	106-5
	8 Dhansimla		81	72	88-9	789	19.1	109-9
	9 Panchal		82	73	89-0	111	34.2	135-4
	10 Radhamohanpur	• • •	143	124	86-7	166	25.3	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	Unions		Deaths regd. 1948	Deaths verified	Percent of verified over regd.	Total deaths occurred in 1948 as detected during survey	Percent of omission over totel detection	Percent of detection over regd.
District 24-Parganas-	l Ghorarash		181	156	86-2	222	29.7	160.7
P. S. Banthat	· 2 Dhanyakuria -		239	202	84·5	370	29·7 45·4	122·7 154·8
	3 Chaita	• . • •	207	169	81· 6	305	44.6	147.3
-	- 4 Champapukur 5 Sangrampur	• • •	249 80	197 57	79.1	298	33.9	120.0
	6 Sankehura		168	121	71·3 72·0	152 232	62·5 47·8	190- 0 138-1
• • •	7 Itinda	• •	203	148	72.9	329	55-0	162-1
	8 Pife	• • •	205	175	85.4	334	47.6	162·9
		TUTAL .	1,532	1,225	80.0	2,242	45-4	146-3
· · · ·			•		• • •			
District Nadia-P. S. Naba-	l Bablari . (.		76	24	31.6	100		140.1
duip	2 Swarupganj		183	31	16.9	$108 \\ 251$	77·8 87·6	142·1 137·2
-	3 Mayapur		160	68	42.5	223	69.5	139-4
		Total .	419	123	29-4	582	78.9	139.0
		-		******				
			· • ;					
•	r •				•	•		
District Malda-P. S. English	1 Milki		202	150	74.3	235	36-2	116-3
Bazar	2 Kazigram	• • •	122	87	71.3	115	24.3	94.3
	3 Jodupur . 4 Amriti	• • •	112 140	60 95	53·6 67·9	141 157	57·4 39·5	125·9 112·1
	5 Narhata		86	46	53.5	66	30.3	76.7
	6 Mahadipur .	• • •	68	40	58.8	130	69-2	191-2
• • • • •	7 Kotwali	• • • •		37	• 50.0	70	47.1	94.6
		TOTAL .	804	515	64.1	914	43.7	113.7
					• • •			
and a second	Towns		÷		•			
District Burdwan	Katwa . ,	• • •	243	184	75- 7	300	38.7	123.5
District 24-Parganas	Joynagar-Mazilpur		94	83	88.3	196	57.7	208.5
	Halisshar .	• • •	102	43	4 2· 2	314	86·3	307.8
District Darjeeling	Kurseong	• • •	255	82	32.2	324	74.7	127-1
	UBBAN TOTAL .	• • •	694	392	5 6 -5	1,134	65· 4	163-4
	RUBAL 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
	Unions	DUTLICATI	SURVEY					
District Nadia-P. S. Nalu-	1 Bablari .	• • •	76	24	31-6 19-1	124	80- 6 88-8	163-2

d rip 86-8 71-2 2 Swarupganj 3 Mayapur 18**3** 108 35 47 265 163 144-8 150-9 19-1 . ٠ . . 43.5 • 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

							Birt	°H8				DEATHS					STILL BIRT	ES .	
	Poli	ice Station (or Ta	wn	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		Original Register	Percent to total detection	Distriot vitul return	Percent to total detection
	1 K	Satwa 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
		onamukhi P	. s.	٠	1,479	1,130	76•4	1,132	76.5	1,386	1,109	80-0	1,111	_8 0·2	152	40	26-3	21	13.8
	3 E	lasirhat P. S	•	•	3 ,416	1,942	56.9	1,935	56.6	2,242	1,5 3 2	68 ·3	1,532	68•3	96	54	56·3	55	57•3
	4 N	labadwip P.	s.	•	824	538	65·3	50 7	61.5	582	419	72.0	418	71.8	2	-	9-6	••	••
	5 E	nglish Baza	r P. S	8	1,926	1,614	83.8	1,615	8 3 ·9	914	804	88•0	842	92·1	54	40	741.	45	8 3•3
4	6 K	latwa Town	•	•	292	70	24.0	66	22.6	3 00	243	81.0	245	81.7	••		••	1	
•	7 Jo	oynagar-Maz	ilpur	Tov	vn 442	270	61·1	249	- 56 ·3	196	94	48 ·0	93	47-4	13				· • ·
٤	B H	alisahar Tov	n	•	522	186	35.6	171	32·8 ·	314	102	32-5	96	30.6	13	••	••	••	••
9	K	ursoong Tow	'n	•	542	237	4 3·7	217	40.0	324	255	78-7	264	81.5	14	27	192 ·9	28	200-0
	t	JEBAN TOTA	L	•	1,798	763	42.4	703	39-1	1,134	694	61-2	698	61-6	40	27	67.5	29	72.5
	R	URAL TOTAL	L	٠	10,684	7,412	69·4	7,070	66-2	8,084	6,122	75.7	5,598	69·2	387	178	46-0	168	43-4
	G	RAND TOT	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
							•				•		•					•	

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Table 4

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

				ures recorde Station, Unio	d for Police on as per	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			
Births Deaths Infant mortality Death from Cholera Death from Malaria	•	• • •	• • •	7,773 6,296 1,038 246 1,410	12,482 9,218 2,004 476 1,663	1-6058 1-4641 1-9306 1-9350 1-1794	0~1196 0~2756 0~2291 0~1045 0~4849	4-53564 3-85270 0-61990 0-1379# 0-76876	7·3±0·54 5·6±1·06 1·2±0·14 0·3±0·01 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	а
Preamble	complete register of births and deaths.	nđ

> '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-Governor¹ may at any time, by a notification³ published in Calcutta Gazette, direct that all births and deaths, or all Power to direct rebirths or all deaths, occurring gistration of births within the limits of any area and deaths and after a certain date to be named 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 so many districts as he may think fit, and may appoint one districts and may appoint registrars 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 **Magistrate** to publish list of registrars office for the purpose of registration.

3. Every registrar shall have an office within the district of which he is appointed registrar, and shall

Every registrar to have an office within his district

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 numbered

of all births or deaths or both, according to such forms as the Lieutenant-Governor^{*} 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 happen in his district, and shall of, himself and register, as soon as conveniently register, births and may be after the event, without deaths 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 to obtain particulars and to report to registrar 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 **Penalty for neglect** or omits to produce such writing, if any, or to report such birth 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 Persons bound to mother, the midwife assisting at give information of the birth of such child, shall, birth 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 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 area, or in the absence of any such relative, the occupier of the house, or, if the occupier be the source during the last illness

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.

'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

¹Now District Magistrate—see the Code of Criminal Procedure, 1898 (Act V of 1893), s. 3 (2).

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.

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 Penalty for registrar he is bound to register, within a reasonable time after he shall refusing to register 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 births or deaths, any false state-Penalty for wilfully ment touching any of the partigiving false inforculars required to be known and mation registered, shall be punishable at the discretion of the Magistrate with a fine not exceeding fifty rupees.

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

(Sections 11, 12)

11. In any place	to which the District Municipal
Improvement Act'	shall have been extended, the
Ben. Act III of	Municipal Commissioners may,
1864	if at a meeting specially con-
Municipality under	vened for considering such
Ben. Act III of 1884	question they shall so determine,
may arrange for	arrange for keeping a register
keeping register of	of all births or of all deaths or
births or deaths or	of all births and deaths, occur-
both	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 district² may depute any subordinate Magistrate to exercise the powers and to perform the duties vested in the Magistrate may de-Magistrate by this Act, within pute subordinate such district or any part thereof. Magistrate to discharge his functions

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

APPENDIX I

Milestones in the development of vital statistics in India and outside

1836	•	•	•	•	•	England .	•			•	•	Promulgation of Births, Marriages and Deaths Registration
												Act.
1875	•	•	•	•	•	England .	•		•	•	•	
1927	•	•	•	•		England .		•	•			Compulsory registration of still births.
1900	•	•	•	•	•	United State	65 .		•	•	•	Compulsory registration of live births, still births, deaths and marriages.
1915	•	•	•	•	•	United Stat	65.		•	•	•	First year of separately published official birth statistics for Birth Registration area of United States.
1886	٠	•	•	•	•	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			•		•	M	•		•	•	•	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.
1873	•	•	•	Births by communities, namely Hindus, Muslims, Christians, Buddhists and all other classes.
1874	•	•	•	Deaths by communities as that of 1872, only Buddhists have been inserted. Births by sex. Deaths by age according to infants (children unable to walk), boys and girls, adults, old people, total.

Ben. 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.

1875 1876	•	:	No change.
1877	•	•	Deaths from suicide according to sex.
1878	•	•	
1879	•	•	· > No change.
1880 1881	•	•	
1882	•	•	Deaths by age according to 0-1 year, 1-5 years, 5-10 years, 10-15 years, 15-20 years, 20-30 years, 30-40 years, 40-50 years, 50-60 years and exceeding 60 years.
1883	•	•	• • • •
1884	•	•	
$\frac{1_{885}}{1_{886}}$	•	•	
1887	:	:	No change.
1888	•		
1889	•	•	•
$1890 \\ 1891$	•	•	. Deaths from dysentery and diarrhoea by months.
1892	:-	:	
1893	•		
1894 .		•	
1895	•	•	No change.
$\frac{1896}{1897}$	•	•	
1898			
1899	•	•	Deaths-Registration of attacks and deaths from plague during each month.
1900	•	•	Deaths—Registration of deaths from plague.
1901 1902	•	•	Deaths—from respiratory diseases.
1902	:	:	
1904	•	•	No change.
1905	• .	•	. Deaths—respiratory diseases by months.
1906	•	•	. Deaths—from plague by months.
1907 1908	•		
1909		•	No change.
1910	•	•	· (To onling).
1911	•	•	
1912 1913	•	•	Deaths from rabies.
1914	:	:	
1915	•	•	•
1916	•	•	· No shange
$1917 \\ 1918$	•	•	. > No change.
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
			and
			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 birth.
1923	•	۰.	· >No change.
1924	•	•	
1925 1926	•	•	. Monthly Kala-azar reports of Hospitals and Dispensaries.
1927	•	:	
1928	•	•	No change.
1929	•	•	.) Annal De statemente al amine the marking of the Dangel Dirthe and Deaths Desistantian Act and the statement
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.
193 3 1934	•	•	 Registration of births according to chief communities. Deaths of infants under one year by communities.
1934	:	:	. Deaths of infants under one year by communities. . Still births registered according to communities and sex.
1936	•	•	 Deaths from cerebrospinal fever, typhus fever, black water fever, whooping cough, beri beri, acute poliomye- litis, diphtheria, chicken pox, mumps, T. B. of joints, other tubercular diseases, leprosy and cancer.
1937	•	•	
$\frac{1938}{1939}$	•	•	. > No change.
1940	•	•	. Deaths from snake bites and killed by wild animals (shown separately), anthrax, epidemic dropsy, T. B. of meninges and homicide.

APPENDIX II-concld.

		APP	ENDIX II—concid.
1941)		
1942			
1943		No change.	
1944	• · ·		
1945	ز		
1946		total, female-within 24 hours, o	eading male—within 24 hours, one day to one week, one week to one month, ne day to one week, one week to one month, total and total of under one hs, between 3 months to 6 months, between 6 months to 12 months and
1947]		
1948			
1949		No change.	
1950	• • •	•	· · · · · · · · · · · · · · · · · · ·
1951	· · · J		
		AI	PPENDIX III
		List of	Notifiable Diseases
1 In C	ulcutta and How	rak	II—In other Municipalities
	1 Cholera		1 Anthrax
	2 Small-pox		2 Chicken pox
	3 Measles		3 Dysentery, both Bacillary and Amoebie
			4 Measles
	4 Yellow fev		5 Relapsing fever
	5 Whooping	cough .	6 Tuberculosis of all forms
	6 Influenza		7 Typhus fever
	7 Pneumonia	•	8 Whooping cough
	8 Enterio fev	191	9 Yellow fever
	9 Piague	·	10 Influenzal pneumonla
	10 Cerebrospi	inal Meningitis	11 Leprosy
	- 11 Diphtheria		12 Epidemic dropsy
	12 Leprosy		13 Diphtheria
	13 Tuberculo	sis (all forms)	III—In Bural Areas
	14 Anthrax		1 Cholers
		(Amoebic and Bacillary)	2 Small-pox
	15 Dyseuvery		3 Influenza

-

4 Typhoid fever

5 Typhus fever

8 Beri Beri 9 Plague

6 Relapsing fever

7 Cerebrospinal meningitis

16 Relapsing fever

17 Typhus fever

18 Epidemio Dropey

19 Elephantiasis

20 Dengue

21 Malaria

.

66

APPENDIX IV

Births and Deaths since 1870 in Districts of West Bengal

.

	Burdwan	Birbhum	Bankura	Midnapur	Hooghly	Howrah	24-Parganas
Years	B D	B D	B D	B D	BD	вр	B D
1870 · · · · · · · · · · · · · · · · · · ·	9,726	2.032	2,298	3,174	. 8,325	512	6,326
1872 · · · · ·	29,864 333 25,963	14,941 192 13,274	2,793 538 4,077	11,381 21,210	5,566 1,642 5,841	3,312 6,057	. 17,173 874 19,725
1873 · · · · · · · · · · · · · · · · · · ·	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 2,342 4,226 2,707	2,629 3,171 4,042 6,390	2,606 5,652 2,018 3,781	1,288 1,724 979 1,697
1877 · · · · · · · · · · · · · · · · · ·	2,155 25,317 1,139 39,360	14,215 17,937	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 37,412 5,402 55,478
1879	1,026 85,825	143 11,816	947 9,452	886 30,020	665 5,764	1,098 7,465	4,623 25,466
1880 1881	632 29,327 739 41,010	$ \begin{array}{r} 17,971 \\ 25,557 \end{array} $	1,242 14,694 1,101 27,284	715 39,511 625 56,871	756 11,874 858 15,686	1,979 10,285 2,079 11,652	4,406 41,413 5,102 38,667 5,470 33,520
1882 . · · · · · · · · · · · · · · · · · ·	940 49,297 966 39,092	27,285 20,634	1,037 33,559 1,150 21,121	405 52,019 518 51,846	871 16,378 802 14,205	1,863 9,589 1,951 12,145	5.559 32.403
1884	882 83,198 936 85,526	20,668	1,220 19,033	716 50 773	1,022 13,486 963 16,391	2,789 12,357 2,470 13,592	6,418 31,713 5,429 31,703 5,017 40,539 8,338 46,534
1885 1886	763 27,126	16,256	1,100 18,943 894 17,615	611 51,324 517 53,114	1,679 13,994-	2.191 11.870	5,017 40,539
188 6	1,141 27,046 1,458 29,627		815 16,624 870 19,498	1,452 55,424 1,603 59,209	1,925 13,384 2,285 15,464	2,022 12,682 2,152 14,867	8,338 46,534 8,803 48,197
1889 · · · · · · · · · · · · · · · · · ·	1,643 33,918 1,357 28,251	129 21,738 117 19,474	941 21,711 1,105 18,601	1,886 58,299 2,015 61,832	301 16,623 2,619 16,595	2,418 15,107 2,221 16,064	5.035 32.578
1891	1,391 36,825	122 24,512	1,263 20,678	2,138 7,458	1,272 19,593	2,351 18,500	5,170 ,45,785
1892 · · · · · · · · · · · · · · · · · · ·	84,977 46,443 48,430 36,196	22,204 26,297 32,409 23,172	25,882 23,727 34,966 20,943	66,814 81,207 87,105 66,515	23,014 35,565 38,638 33,588	20,250 3,307 24,773 18,488	54,708 41,101
1894 1895	40,980 48,119 41,638 48,002	25,925 28,686 28,888 26,448	34,869 33,067 34,837 30,771	77,487 73,066 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	29,530 26,120	41,698 32,557	88,773 80,637	27,794 40,159	24,973 25,081	48,863 55,882
1897 1898	46,111 41,559 45,822 29,866	82,062 23,738 31,983 17,157	38,431 28,546 38,101 20,104	91,108 64,040	31,885 33,999 27,799 29,395	27,970 22,391 25,975 22,156	59,607 46,212 52,938 42,135
	52,454 36,168 47,271 45,292	\$5,054 20,526 \$2,387 22,355	44,063 22,480 40,654 25,493	105,235 66,188 95,574 76,314	81,214 31,006 29,511 35,569	27,720 25,386 27,528 28,802	60,533 51,730 60,625 56,127
Census population 1901	1,528,290	906,891			• •	850,514	•
			1,116,411	2,789,114	1,049,041		2,155,981
1901 · · · · · · · · · · · · · · · · · · ·	48,451 45,310 51,123 52,553	34,401 23,089 34,367 24,117	40,299 30,203 37,222 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	87,169 35,687 43,269 27,883	93,543 86,759 102,860 71,948	30,311 39,465 36,662 34,583	25,970 28,942 31,253 26,186	66,901 64,799 69,657 58,528
1905	50,332 54,529 45,384 53,699	30,918 29,876	40,488 34,364	93,056 93,839	33,796 87,621	29,084 28,288	68,647 60,477
1907	50,953 64,901	50,953 64,901	39,735 34,010 41,550 38,331	87,844 100,698 91,789 99,272	30,363 34,138 34,274 42,729	26,280 26,198 28,862 29,309	64,111 59,214 63,952 66,974
1908	40,326 68,392 48,872 39,763	25,956 44,117 31,855 25.397	33,872 42,576 38,463 30,317	91,204 85,911 97,799 62,836	31,787 37,579 36,232 30,329	28,216 24,932 28,203 22,033	71,580 59,944 79,988 49,148
1910	52,894 40,951	36,052 24,879	48,529 31,987	97,522 67,211	35,986 29,765	28,890 20,153	74,489 51,630
Census population 1911	1,533,874	940,162	1,138,670	2,821,201	1,090,097	943,502	2,478,335
	49,484 41,890 46,572 48,894	34,687 27,499 32,109 32,288	43,607 32,122 40,734 33,801	95,202 72,109 89,815 94,875	36,818 33,561 34,446 38,333	30,320 22,488 31,189 26,598	80,616 60,424 76,645 72,857
1913 1914	45,075 48,781 46,796 59,907	83.419 80.819	40,064 40,389	81,877 88,531	29,930 37,824	28,318 28,368	67,677 64,385
1915	38,933 53,728 49,672 49,616	22,598 41.649	38,681 46,062 33,451 38,196	88,125 88,003	31,387 35,601	28,913 27,076 28,400 26,917	66,698 71.688
1917	53,386 45,935	31,276 30,703 35,405 24,568	86,012 35,777 84,617 31,144	83,869 82,657 85,662 78,969	33,640 34,018 35,945 33,704	31,012 22,610 29,846 24,344	67,443 64,192 75,129 51,184
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	44,586 79,689 82,667 77,676	32,338 46,418 22,174 58,252	37,219 56,981 28,482 41,588	78,206 107,385 68,410 113,260	 27,995 51,459 23,454 39,361 	27,242 30,369 25,432 33,086	69,509 73,219
1920	39,675 56,642	25,836 40,876	\$4,386 \$8,428	75,531 97,895	29,955 38,759	28,055 34,011	87,667 85,436 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
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	39,439 52,532 42,752 39,007	28,342 32,548 29,970 22,436 31,662 22,969	82,134 39,035 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 36,352	\$1,662 22.969 \$1,371 24.221	35,961 27,403 34,369 24,732 34,188 28,387	76,589 64,396 77,033 62,874 72,568 65,889	30,720 27,367	29.175 22.164	66,254 61,414
1925 1926	47,368 35,276 45,038 36,880	37,010 21,076	38,268 24,201	79.273 60.044	28,831 27,804	27,506 24,434	58,452 63,212 64,125 58,987 64,441 65,819
1927	42,888 37,921	31,036 24,663	40,070 25,640 32,435 25,798	82,205 67,235 69,936 64,229	26,958 26,504 24,291 26,229	28,207 30,728 24,345 29,010	64,441 65,819 57,008 63,225
1928 1929	41,636 37,576 45,061 35,297	31,762 25,059 85,290 21,701	35,214 23,986 38,048 27,187	79,848 63,838 87,651 57,313	27,510 27,922 27,643 21,828	24,345 29,010 27,754 26,062 26,960 21,829	68,067 59,597 73,749 52,451
1930	36,310 33,817	34,901 24,338	31,086 25,936	74,225 55,730	25,840 22,045	24,820 21,202	66,184 48,616
Census population 1931	1,575,699	947,554	1,111,721	2,799,093	1,114,255	1,098,867	2,888,694
1931 1932	42,599 35,253 39,310 34,511	35,699 27,827 31,482 27,145	31,468 25,434 28,132 21,406	78,016 62,958 72,045 58,734	27,835 22,804 27,314 23,856	28,208 20,325 27,270 19,537	73,761 48,582 68,819 48,217
1933	46,649 39,103 40,187 39,216	88,181 29,752 80,670 31,496	34,102 27,440	81,727 61,497 78,173 62,202	31,721 26,000	29.420 21.294	71,532 45,397
1935 1936	43,923 31,522 46,833 27,210	\$5,536 24,549	34,433 30,005 35,708 26,449	91,998 62,167	30,169 25,345 38,030 24,506	32,821 22,515	77,640 52,522 87,320 56,880
1937 1938	44,411 29,260	87,519 23,113 25,621 24,713	42,295 23,715 41,019 27,210	87,844 63,331 84,813 61,274	37,841 20,562 38,550 25,458	33,155 25,356 32,831 21,124	79,719 63,429 79,621 58,449
1939	46,847 43,688 45,778 45,059	84,091 28,623 80,894 29,217	39,774 28,512 38,593 28,634	81,463 66,290 89,885 61,052	31,983 30,769 30,221 24,319	28,036 24,127 81,343 21,097	71,967 59,329
1940	52,208 86,769	84,761 22,246	88,642 24,800	90,667 51,958	37,436 20,680	31,159 18,196	86,314 47,991 90,785 48,933
Census population 1941	1,890,732	1,048,317	1,289,640	3,190,647	1,377,729	1,490,304	3,669,490
1942	50.502 36,518 52,345 34.301	86.014 23.173 87.098 22.840	36,930 27.042 38.816 25.381	82.120 54,342 71,786 50,635	36,450 22,216 36,324 21,159	29,404 20,656 23,528 17,027	88,790 57,903 80,868 49,170
1943 1944	42,328 47,467 35.357 48,651	3 3,221 4 0,489	33,808 40,170 • 24,160 31,484	74.319 124,739 65,792 79,124	82,840 27,495	25,590 34,674	63,335 90,831
1945	88,797 86,349 48,843 85,519	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	40,816 85.614	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	88.430 28.234 29.471 26.542	90 265 53,279 71,924 57,634	35,056 22,199 30,039 22,904	26,775 24,509 21,547 21,313	74.574 48,340
1949	37.171 84.844 40,115 82,520	26.247 22.997 26.588 24.680	27,480 24,529 29,945 23,156	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
1950	85,548 80,413	20,431 23,410	25,421 21,484	74,704 53,427	26,254 20,645	21,087 22,076 21,337 20,589	64,172 47,453 60,584 42,172
Census population 1951	2,191,667	1,066,889	1,819,259	3,359,022	1,554,320	1,611,373	4 600 000
N.B.—Bitth figures from] Bot available for the year 1871 as	Hunicipality and to the report is missi	wn only for 1873, ng. Birth floured	1874, 1878-1891.	District birth figu	res are not comple		6. Figures are
	· · · · · · · · · · · · · · · · · · ·	nEuton	une avauable	tor the year 10/01	and 1912 due to no	m-registration.	-

APPENDIX IV-concld.

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

ears						ے `	alcetta	_	adia	Ma	mshidabad	I West	Dinajpu	r Jal	peiguri	Dar	jeeling	لملا	da
						B	D	B	D	В	D	B	D	B	Ď	B	Ď	B	D
170 171	•	•	•	:	:	••	••		2,627	••	2,159	••	1,877	••	626-	••	355	••	1,0
172	:	:	:	:	•	••			9,842	••	7,491		11,051		2,032	••	753	••	3,2
178 174	•	•	•	•	•	••	••	1,341 1,583	1.003	274 208	283	••		864	••	85		767	
975	:	:		:	:		••	1,241	1,003	164	283		708 808	633 94	231	138 240	3 11	1,029 935	5
176	•	•	·	•	•	7,452	12,964	1,345	3,008		5,166	••	1,049	847	1,190	254	1,285	976	1.0
477 979	:		:	:	:	7,457	13,704	42,190 1,421	47,4*4 44,881	30,211 1,193	38,600 33,898	81,027 56	40,828 36,306	2,343 83	5,795 8,909	673 48	1,089	13,287	23,4
-79		•	•	•	•	6,409	13,044	1,186	85,187	1,131	23,248	66	28,879	78	5.399	38	779	238	16,1
440 441	•	•	•		•	7,552	11,681	1,611 1,144	59,450 84,846	••	24,563 37,787	••	33,899	••	7,831	58	828	•••	11,6
3-12	:		•				11,490	1,153	79,459		87,792	••	29,431 26,025	••	9,266 8,924	42 60	1,059 1,088		16,0
1-1 5 1-16	•	·	•		•	••	10,832	1,170	59,726	••	30,267	••	28,800	••	10,818	51	1,735	•••	12,8
	:		:	:	:	••		1,847 894	65,580 57,545		$33,100 \\ 29,693$		26,697 82,234		$11,391 \\ 15,116$	66 72	2.000 2,809	•••	13,0
	•	•	•	•	•	7,828	11.447	946	47,874	••	7,383	••	39,196	••	2.041	64	4,047	•••	11,0
1×7 1×13	•	:	:	:	:	7,954 8,643	10,979 11,685	1,10 0 1,152	44,591 88,380	1,553	84,172 30,328	173	49,045 45,038	• ••	1,957 19,149	73 205	4,430 5,637	120	20,1
1-9	:		•	•	•	8,752	11,682	1,947	86,125	1,769	\$2,123	292	42,569		19,339	302	5,634	263 521	22,0
190 191	•	•	•	•	•	••	••	1,825 1,857	82,676 71,582	1,527 1,699	26,438 40,599	262 214	41,802 58,283	158 208	19,477 28,186	828 876	6,280	523	16,
198	:	:	:	:	:	8,123	12,674	51,730	58,686	41,668	40,678	2,096	52,279	17,129	23,685	2,690	7,087 9,026	543 22,977	2,4 26,8
98	•	•	•	•	•	3,492	20,113	81,579	60,941	58,182	48,527	67,756	50,202	25,092	20,530	8,135	8,996	3,452	82,1
N4 N5	•	:	:	•	:	11,438 10,945	22,441 27,031	52,154 57,853	65,062 63,803	43,960 49.333	45,134 87,188	51,566 54,578	59.963 56.011	21,626 23,081	25,263 24,511	6,303 7.060	9,645 8,395	27,495 29,700	- 82.0 28,1
96	:	:	:	•	•	12,608	24,356	65,022	59,458	54,966	40,939	61,113	58,681	23,513	27,151	7,125	11,487	84,504	25,
97	•	•	•	•	•	12,584 9,530	24,665	71,480 68,664	42,919 86.304	55,847 54,531	35,606 30,824	62,640 62,562	51,581 52,405	24,854 24,388	23,169 22,743	7,297 7,450	9,415	38,628	27,
98 99	:	:	:	:	:	11,004	20,843 25.823	76,758	60,807	60,940	53,803	66.977	61,533	24,280	23,450	8,944	8,873 9,000	33,874 38,845	25, 41,
00	•	•	•	•	•	10,773	86,728	60,884	63,934	51,609	49,740	62,432	67,985	23,734	80,772	8,528	11,093	•••	,
nsus	popu	lation	1901		•	920,1	33	773,	202	1,82	2,486	456,8	501	544,9	06	249,	117	603,	649
01						9.129	82,456	70,497	55,098	54,931	44,675	69,599	59,841	26,895	26,027	9,021	9,754	••	
uz	•	•		•	•	12,122	81,410	66,473	88,640	57,259	50,532	77,855	65,05 1	29,089	26,518	8,539	8,994	••	
43 3 414	•	·	•	•	:	18,182 15,250	29,765 27,323	56,643 72,904	67,930 66,370	55,242 58,236	48,479 51,753	63,358 67,782	63,351 63,578	24,953 27,600	26,103 27,443	8,013 9,058	9,767 9,852	••	
15	:	:	:	:	:	15,637	82,181	62,102	77,818	53,446	56,152	70,179	62,396	28,006	26,087	8,921	9,138	42,696	38,
06	•	•	•	•	•	15,088	80,298	52,590	65,178 75,637	50,215	49,292	••	••	••	••	8,047	10,573	••	
07 08	٠	•	•	•	:	16.224 17.043	81,942 27,689	64,055 29,898	29,755	52,323 51,017	57,684 45,086	20,213	18,703	22,968	23,766	7,457 8,510	8,955 9,950	27,000	18,
119	:	:	:	:		19,428	28,946	86,446	21,877	60,938	35,922	22,242	18,889	21,582	23,019	8,551	9,308	82,187	18
10	•	•	•	•	•	17,106	23,728	86,852	25,966	63,155	44,074	21,010	18,723	23,414	22,794	9,311	9,668	80,992	19
-	popu	lation	1911	•	•	998,0	012	775,	986	1,34	5,073	509,	557	66:	1,282	263	550	698,	,547
11			•			19,515	24,396	82,194	29,838	59,450	47,719	18,572	19,639	23,454	24,814	9,151	9,831	29,054	26,
12	•	•	•	•	•	19,426	25,209	81,518	80,065	59,411 57,140	50,702	20,042 19,706	18,681 16,464	22,383 22,117	22,991 21,364	9,218 9,074	9,860 10,741	25,558 27,696	30, 24,
18	•	•	•	:	:	18,3×6 17,3×6	26,188 25,431	30,647 29,553	30,212 40,422	57,149 56,319	52,581 70,224	19,722	17,346	23,129	21,848	8,731	9,799	27,714	29
15	:	:		•	•	16,578	25,590	22,816	81,597	44,714	62,049	20,101	18,731	23,381	21,600	9,071	9,621	23,721	28.
10	•	•	·	•	•	18,737 18,807	22,098 21,360	26,473 81,162	26,79 6 26,362	51,240 59,619	45,742 47,373	17,756 20,255	17,126 18,055	21,356 23,641	21,533 21,855	8,403 9,349	10,561 10,243	26,846 30,227	22, 22,
17 13	:	:	:	:	:	18,166	\$1,371	24,849	43,149	50,249	79,960	18,794	20,855	21,589	31,948	8,883	14,110	24,039	- 80
19	:	ş.	•	•	•	16,565	87,839	20,718	84,789	89,614	64,898	16,016	22,129 19,961	20,450 22,441	26,888 19,252	7,966 8,056	12,856 11,600	21,418 23,020	27 21
20	•	2	•	·	•	15,875	85,276	28,658	81,623	47,868	51,285	18,200		-	-	-			
11 8-118	pope	lation	1921	•	•	-	1,697	711,			4,181	490,4			4,056		2,748		,174
21	•	•	•	•	•	17,308	80,395	23,266 25,271	81,055 22,159	49,547 48,445	49,378 36,976	19,236 16,318	$18,390 \\ 15,182$	20,175 19,018	20,175 17,044	8,368 8,610	12,192 10,566	24,427 20,218	20, 14.
:1월 13월	:	• •	:	:	:	17,349 18,218	26,881 25,834	28,226	22,159	52,979	33,846	17,780	17,776	22,537	19,216	9,586	9,426	24,686	17
24	:	:	:	•	•	19,666	81,881	25,042	21,683	52,386	33,905	17,932	15,683	20,906	20,458	9,463 0.530	10,196 9,184	20,698	16, 20,
25 • 4	•	•	•	•	•	20,346 18,199	85,195 87,876	29,956 20,332	25,709 22,791	59,812 48,599	39,076 43,627	19,600 15,676	17,043 16,455	19,914 17,482	$17,751 \\ 18,237$	9,639 9,476	8,469	27,949 20,417	19
26 27	:	:	:	:	:	16,740	\$6,820	23,046	20,931	50,596	62,669	19,517	17,396	22,294	17.897	9,152	7,928	23,598	26
28	•	•	•	•	•	22,001	84,119	24,595	21,690 24,803	53,237	37,041	$18,326 \\ 14,334$	17,629 14,498	22,308 22,244	18,627	10,336 10,044	8,894 8,755	23,016 22,601	19
29 30	:	:	:	:	:	22,7×9 23,151	82,981 81,185	24,357 20,234	24,503	55,012 48,938			14,279	21,516	18,627 17,739 17,749	9,997	8,837	19,011	22
		Jatios	1981			1,140,8		721,	•		0,677	523,6			,160	819,6	635	720,	,440
31	sugar			•	-		\$0,562		28,954	•	38,286	15,589	18,016	23,028	17,298	11,754	8,985	22,124	21
12	:	:	:	:	:	24.925	80,011	23,888	22,410	50,878	83,121	16,517	14,133	23,047	17,871	11,462	9,728	21,649	15
13	•	•	•	•	•	26,045	35,175 84,356	27,910 25,733	24,027 21,154	58,019 48,793	38,770 41,837	16,608 16,599	14,852 15,041	24,128 24,561	20,721	12,483 11,945	9,472 10,296	24,798 18,261	18
34 35	:	:	:	:	:	25,717 25,888	84,098	29,562	18,995	54,392	30,204	16,421	14,120	24,854	19,158	12,819	10,397	24,557	- 14,
36				•	:	30,495	87,144	80,525	17,0*4	58,463	35,361	18,812	16,246	25,484	21,029 21,064	12,462	10,376 10,775	26,212 26,739	16, 16,
37	•	•	•	•	•	26,638 24,25 6	88,409 85,556	81,026 24,396	21,30 5 22,01 6	60,516 51,492	85,980 87,150	15,929 15,611	$16,840 \\ 14,224$	25,347 25,494	20,068	12,238	10,441	19,128	- 14,
19	:	:	:	:	:	29,250	84,152	27,193	17,862	49,154	53,087	18,790	10,399	25,354	21,478	12,354	11,152	20,4+4	13
40	•	•	•	•	•	29,730	81,524	81,592	19,435	57,488	30,576	13,916	9,669	24,346	19,180		9,095	18,620	12,
	pope	lintive	1941	•	•	2,108,		840,		1,640,5		583,4	184 10,782	845,5 95,930		876, 11.808		844, 18,219	815, 11
41 42	•	•	:	•	:	29,290 19,837	86,176 24,594	26,828 80,496	19,818 19,122	56,788 55,116	81,431 83,833	14,379 12,4*9	9,081	23,739	19,902	10,808	10,273	12,804	6
M I	:	:	:	:	:	14,658	62,268	22,23A 17,546	37,161	36,741	65,073	14,217	12,165	19,841	26,804	9,655	11,258	10,237	11
***	•	•	•	•	•	21,931	52,845	17,546	28,186	29,123	56,916	14,636 12,897	19,86 6 15,357	16,116 18,575	21,815	7,643	11,528 10,938	15,536	26, 20,
45	•	•	:	:	:	27,728 83,411	41,878	24,141 25,#38	23,931 24,831	44,426 47,534	48,617 46,791	17,698	16,376	25,101	23,420	10,440	9,035	19,924	19,
		•	•	:		33,294	41,185	21,194	19,834	34,9%0	\$3,874	13,816	14,762	24,3*5 26,*97	18,740	11,461	8,531	13,525 20,879	- 11,
91 8 947		•	•																
P 1 4	:	:	:		•	40,342	45,178 41,862	21,795 20,790	19,032 19,147	42,026	27,546 27,566	14,8*4 17,708	12,883 18,374	27,093	15,107	11,818	8,754 8,266		12

N.R.-Birth figures from Municipality and town only for 1873, 1874, 1874-1891. District birth figures are not complete for the year 1876. Figures are and available for the year 1871 as the report is missing. Birth 1 gures are not available for the year 1870 and 1872 due to non-regulatation.

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.	Between 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	с 1910 г. <mark>19</mark> 1
Howrah	. Howrah Bally			
24-Parganas	 Tollyganj Khardah Panihati Barrackpur Naihati Halisahar Kanchra para Barasat Gobardanga 	 Garden Reach Barnipur Budgo Budge Rajpur North Dum Dum Garulia North Barrackpur Taki South Suburbs ¶ Jaynagar-Majilpur Bhatpara) Kamarhati Basirhat Titagarh Baduria 	Dum Dum Baranagar	21 - 1
Calcutta	• ••••	••••	Calcutta	
Nadia	. Ranaghat	• • Birnagar • • Chakdah • •	 Krishnagar Nabadwip Santipur 	
Murshidabad	• Jiaganj-Azimganj • Kandi • •	• Murshidabad • •	• Berbampur Jangipur Dhulian	
Jalpaiguri	• ••••	•••••	Jalpaiguri	·
Darjeeling • • •	• ••••		Darjeeling Kurseeng Kalimpong	
Malda 1 CENSUE	• ••••		Englishbazar Old Malda	10

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

•

	District				Below 10 p.r	0.	:	Between 10 and 20 p.m.	Above 20 p.m.
•	Burdwaa	•	• •	•	. Kulti Salanpur Khandaghoe Manteswar Jamuria	• • • • • • •	· · ·	Memari Galsi	
	Birbhum	•	•	•	•		·	Sainthia Dubrajpur Illambazar Bolpur Nanoor Rampurhat Mayureswar Suri Rajnagar Khayrasol Labpur Murarai	• • Muhammadbazar • • Nalhati
	Baakurs	•	•	•	• Indas • Barjora	::	• •	Bankura Saltora Mejhia Onda Jaypur Patrasair Gangajalghati Indpur Khatra Chhatna Simlapal Vishnupur Sonamukhi Kotulpur Raipur	• • Taldangra • • Ranibandh
	Midospur	•	•	•	Daspur - Panskura Egra - Sankrail	• • • • • •		 Khargpur Dantan Dantan Mohanpur Debra Debra Reshpur Ghatal Tamluk Sutabata Pataspur Ramnagar Midnapur Salbani Jhargram Sabang Gopiballavpur Nayagram Chandrakona Mahisadal Nandigram Contai Bhagwanpur Khedgree 	 Jambani Binpur Garhbeta Moyna Keehiari Narayangarh

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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 Polba Haripal Khanakul Jangipara Uttarpara Bhadreswar Chinsurah	 Pandua Dhaniakhali Balagarh Tarakeswar Arambag Goghat Pursura Serampur Singur 	• Chanditala
Howrah	Bally Domjur Sankrail Jagacha Jagatballavpur Panchla Uluberia Amta Bauria	. Bagnan . Shyampur	
24-Parganas	Tollyganj Metiabruz Budgo Budgo Baruipur Sonarpur Bhangar Jaynagar Jaynagar Jaynagar Jaynagar Jaynagar Jaynagar Jaynagar Bhangar	 Dum Dum Amdanga Rajarhat Basirhat Hasnabad Sandeshkhali Baduria Haroa Diamond Harbour Kulpi Falta Sagar Deganga 	• • •
Nadia	Chakdah	 Krishnagar Nabadwip Nakasipara Tehatta Ranaghat Santipur Kaliganj Karimpur Krishnaganj Haringhata Hanskhali 	• Chapra
Murshidabəd • • • •	Berhampur Town . •	 Nawada Raninagar Murshidabad Bharatpur Khargram Khargram Hariharpara Nabagram Jiaganj Bhagwangola Lalgola Burwan Suti Beldanga 	 Domkal Sagardighi Raghunathganj Jalangi Samserganj

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

District			Below 10 p.m.	•	Betw	veen 10 and 20 p.m.		Above 20 p.m.
Maida	•	• •	Kharba Kaliachak	• •	•••	Harishchandrapur . Ratua Gajol	· · · ·	Englishbazar Manikchak Bamangola Malda Habibpur
West Dinajpur	•	• •	••••			Kushmandi Tapan Gangarampur . Balurghat Itahar Banshihari	• • • • • •	Kumarganj Raiganj Hili Kalisganj Hemtabad
Jalpaiguri .	•	•••	Məinəguri ´	• •	• •	Jalpaiguri Alipur Duars	: :	Rajganj Mal Falakata Kalohini Nagrakata Madarihat Matiali Kumarganj Dhupguri
Darjeeling •	•	•••	••••			Siliguri Pulbazar Jore-Bunglow . Kalimpong	• • • • • •	Kurseong Phansidewa Sukhiapokri Rangli Rangliot Mirik Darjeeling Kharibari Garubathan

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

Burdwan	•	•	•	•	Burdwan Dainhat Raniganj	•	•	•	•	• • • •		•		Kaln a Katwa
					Asansol									
Birbhum	•	•	•	•	Suri									
Bankura	•	•	•	•	Bankura Vishnupur	•	•	•	•	Sonamukhi				
Midnapur			-	-	Kharar					Ghatal .	_	•	-	Midnapur
Transhar	•	•	•	•		•	•	•	•	Tamluk	•			Khirpai
										Ramjibanpur Chandrakona	•	•	•	TTTT Par
Hooghly		•			Rishra 🖌	•		•		Bansberia	•			Hooghly
	•	•	•	•	Kotrung					Arambag .				Serampur
•					Champdani					Baidyabati	•	•	-	2000- <u>-</u> 200
					Konnagar			•		Bhadreswar				
•					Trounsker	•	•	•	•	Uttarpara				
Howrsh					Bally .					-				Howrah
	. •	•	•	•	Tollyganj	•	•	•	•	Budge Budge				Bhatpara
24-Parganas	•	•	•	•	Garden Reac	. `	•	•	•	n 10	•	•	•	Baranagar
						n	•	•	•		•	•	•	Daranagar
					Baruipur		•	•	•	Naihati				
					Jaynagar Ma	jilpur	•	•	٠	South Suburbs				
					Dum Dum	•	•	•	٠	Titagarh				
					North Dum I									
					South Dum 1	Dum				•				
					Garulia									
		•			North Barrac	kpur								
					Barrackpur	• •								
,					Halisahar									
					Kanchrapara									
					Kamarbati									
					Barant									
					Khardah									
					Panihati									
					Basirhat									•
					Gobardanga									
					Taki									
				•	Beduria				•					

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

District					Below 10 p.m	•		В	etwe	Above 20 p.m.				
N7 N1	•	•	•	:	Ranaghat	•	•	•	•	Krishnagar Birnagar Santipur Chakdah	•	•	•	Calcutta Nabadwip
Murshidabad	•	•	•	•	Kandi Jiaganj Jangipur Dhulian	•	•	•	•	Murshidabad	•	•	•	•
Jalpaiguri	•	•	•							Jalpaiguri				
Darjeeling	•	•	•	•	••••					Darjeeling Kurseong Kalimpong				
Malda .	•	•	•	•	Englishbazar		•	٠	•	Old Malda		•		

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

• 2 • • •

District					Below 15 p.m	le l			Betw	een 15 and 25	p.m.				Above 25 p.m.
Burdwan	•	•		•	Asansol Raniganj Ondal . Jamuria Barabani Salanpur Kulti . Khandaghosh	•	• • • • • • • • •	•	~	Burdwan Jamalpur Raina Memari Galsi Kalna Manteswar Bhatar Ausgram Purbasthali Katwa Mangalkot Faridpur	•	•		:	Ketugram Kanksa
Birbhum	•	•	•	•						Murarai. Sainthia Bolpur . Nalhati Rampurhat Muhammadl Khayrasol Mayureswar		•	• • •	• • • •	Suri Rajnagar Dubrajpur Illambazar Labpur Nanoor
Bankura	•	•	•	-	Saltora . Simlapal Indas .	•	•	•	•	Chhatna Mejhia . Onda . Taldangra Indpur Khatra Raipur Ranibandh . Jaypur Patrasair Kotulpur Bankura Vishnupur	•	•	•	•	Gangajalghati Barjora Sonamukhi
Midnapur	•	•	•	•	Tamluk 1 Nandigram Sutahata Contai Ramnagar Khedgree	• • •	•		•	Khargpur Garhbeta Salbani . Jhargram Binpur . Gopiballavpu Nayagram Daspur Mahisadal Panskura Bhagwanpur Midnapur Dahtan Mohanpur Debra Keshpur Jambani		•		•	Narayangarh Keshiari Pingla Pataspur Sabang

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

Districe				Below 15 p.m	•		В	etween 15 to 25 p.	m .			Above 25 p.m.
Midne pur—conto	L.	•	•	••••		• • •	•	Ghatal Chandrakona Moyna Egra				
Hooghly .	•	•]]] [Chinsurah . Magra Balagarh . Uttarpara . Bhadreswar . Singur . Haripal .	• • •	• • • •	•	Serampur • Tarakeswar Jangipara Arambag Pursura Khanakul Polba	•	•	•	Chanditala
				Goghat .	•	•	•	Pandu a Dhaniakhali				
Howrah .	•	•	1 8 J J J 1 1	Bally Domjur . Sankrail . Jagatballavpur Panchla Uluberia Bauria	•	•	•	Amta Bagnan Shyampur				
24-Parganas .	•	•]]]]]	Follyganj . Behala . Maheshtala . Baruipur . Bhangar . Jaynagar . Noapara .	• • • • •	• • • • • • • • •	•	Amdanga Deganga Habra Gaighata Bangaon Kulpi Magrahat				
			7 1 1 1 1 1	Dum Dum . Fitagarh Metiabrus Budge Budge Sonarpur Bishnupur Canning	•	•	•	Mathurapur				
		, ⁻		Khardah Naihati Jagaddal Bijpur Barasat . Rajarhat .					•			
			1 1 8 8 1	Basirhat Hasnabad Sandeshkhali Swarupnagar Baduria Haroa	•					•		
			1	Diamond Harbo Kakdwip Sagar Falta								
Nadia .	•.	•	•	• • • • • • • • • • • • • • • • • • •	•			Chapra Nakasipara . Kaliganj . Tehatta . Karimpur Santipur Chakdah Kotwali Nabadwip	•	•	•	Ranaghat Haringhata Hanskhali Krishnaganj
Murshidabad .	•	•		Berbampur . Raninagar . Rhagwangola Lalgola Nuti Raghunathganj	•	• • •	• • • • • • •	Domkal • Jalangi Beldanga Hariharpara Nawda Nabagram Murshidabad	•	•	•	Burwan

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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.m.	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 Mainaguri Alipur Duars Nagrakata Dhupguri Matiali Kalchini Falakata Kumargram	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 rate for Municipalities and Police Stations respectively are good registration areas.

[Continued from inner side of the front cover.]

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