# FIFTY-SECOND ANNUAL REPORT

OF THE

# SANITARY COMMISSIONER FOR THE GOVERNMENT OF BOMBAY

# 1,915

WITH

# A P P E N DICES

IECTOPU

The Annual Report of the Sanitary Board, Bombay Presidency,

ABD

The Annual Reports of the Health Officers of the Ports of Bombay, Karachi and Aden.



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## SECTIONS I TO IV.-No remarks.

### SECTION V.

#### GENERAL POPULATION AND VITAL STATISTICS.

In accordance with Government Notification in the General Department No. 2694, dated 29th March 1915, published at page 930 of Part I of the *Bombay Government Gazette*, dated 1st April 1915, the Cantonment of Jacobabad was closed from 1st April 1915.

2. Throughout this report figures for population are those at the time of the last census taken in March 1911.

3. During the year, among 30,192 Europeans 323 births and 200 deaths

Europeans. Europeans. in 1914 and the death rate 6.62 against 9.27. One hundred and fifty-seven male and 166 female births were recorded against 137 and 151 in 1914, while 127 male and 73 female deaths were reported against 179 and 101 in 1914.

4. In a population of 8,902, 198 births were registered against 173 in 1914 and 138 deaths against 152; the birth rate was 22.24 per mille against 1944 in 1914 and the death rate 15.50 against 17.08.

Of the births 107 were males and 91 females against 97 and 76 in 1914, whilst of the deaths 76 were males and 62 females against 74 and 78 in 1914.

5. The population including Sind is 19,587,383. There are now, including Indian population. Bombay City, 27 Collectorates comprising 248 rural

and 8 Cantonments: in addition statistical returns are received from 7 Cantonments in quasi-foreign territory.

The population of the rural circles is 16,407,762; of the town circles 3,106,656; of the Cantonments in British territory 72,965; and of the Cantonments in Native States 100,089 persons.

6. 726,780 births were registered showing a decrease of 6,296 from the figure for 1914 and increase of 66,812 over that for the decennial mean. The number of births recorded annually since 1905 is given below :---

1905	• • •	 611,173	1911	•••	•••	705,090
1906 *	•••	 625,486	1912			684,890
1907	•••	 610,533	1913	•••	•••	684,803
1998		 660,201	1914			
1909	* * *	 657,685	<b>1</b> 915			726,780
1910		 689,701	*			

7. The birth rate for the year was 37.10 and is compared below with the rates recorded in other parts of India—

	Bengal		•••	31.80	Bihar and Orissa		40.40
L:5.231r	Madras	•••		31.2	United Provinces		43.49.
J8	Assam	•••			Punjab		43.60
058642	Burma	•••	•••	3 <b>5·1</b> 3	Central Provinces	•••	47.95

Sind and Bombay City be excluded the birth rate for the Presidency was 41.37 against 42.1 in 1914. As usual a wide divergence between the birth rate for rural areas (42.67) and that for urban areas (31.73) has to be recorded.

50

S. Over rural areas the variation in birth rate was from 57.16 for Man Taluka in Satara District to 26.48 for Yellapur Taluka

Birth rate for ruml sreas in Presidency. under 35 per 1,000. Of these, 10 (Malvan, Vengurla, Devgad, Rajapur, Ratnagiri, Chiplun, Guhagar, Khed, Dapoli, and Mandangad) were in Ratnagiri,

7 (Karwar, Kumta, Ankola, Sirsi, Haliyal, Yellapur and Supa) in Kanara, 2 (Walwa and Malcompeth) in Satara, 2 (Bassein and Salsette) in Thana, 1 (Mawal) in Poona and 1 (Hubli) in Dharwar.

Registration in rural areas shows signs during the past two years of great improvement which is probably an index of increased interest taken in the matter by District officers. This improvement should be maintained and further advance is possible: the attainment of accuracy in registration is so important for the future of the Presidency that District officers may rest assured that time spent by them in the examination of village registers is well spent.

9. Out of 85 towns 22 returned hirth rates of over 40, viz. Dohad (61.81), Borsad (51.94), Dholka (51.78), Umreth (51.72), Birth rate for urban areas in Presidency. •Erandol (49.75), Jambusar (49.72), Dhanduka (49.01), Presidency. Gokarn (48.27), Ranebennur (47.39), Sholapur (46.53), Kapadvanj (45.94), Kaira (45.91), Nadiad (45.78), Gadag-Bettegiri (44.23), Mehmadabad (42.97), Barsi (42.88), Nasirabad (42.81), Ahmedabad (42.31), Parola (41.96), Bagalkot (41.05), Dharwar (40.72), Gokak (40.68).

For 51 towns or 60 per cent. (against 12.3 per cent. for rural areas) the recorded birth rates were less than 35 per 1,000 : for 7 towns-against 13 in 1914-the recorded birth rates were less than 20, viz. Lonavla (19.25), Islampur (19.01), Kalyan (18.88), Kurla (18.63), Uran (15.78), Junnar (14.17), and Poona (11.01).

The reason for disparity in birth rates for urban areas needs investigation for each area, but it may be said that generally the cause is inefficient registration. The effect of active interest is evidenced in the cases of Ahmedabad and Surat cities. In 1912 the recorded birth rate for Ahmedabad was 23.4: it rose in 1913 to 30.84; in 1914 to 34.56 and in 1915 to 42.31. In 1914 the birth rate for Surat was 11.44; in 1915 it was 24.61. These improvements are undoubtedly due to the supervision exercised by the Health Officers and the members of the staff working under them : it would be difficult to find more ample justification for the policy leading to the appointment of Health Officers. unfortunately a similar result is not forthcoming for Poona City, which again returns the lowest birth rate recorded in the Presidency. The matter is engaging the attention of the Health Officer.

10. In Bombay City 19,732 births were registered against 19,360 in the previous year, the birth Birth-rate-Bombay City. rate being 20.48.

11. In Sind the birth rate was 23.29 against 21.95 in 1914. It is again noted that the birth rate for urban areas (32.17) is Birth-rate-Sind. much in excess of that for rural areas (22.07), a reversal of the condition existing in the Presidency.

The registration of births is still very defective in Sind. Of 19 urban circles two—Karachi (41.60) and Rohri (41.13)—returned birth rates of over 40; four—Ratodero (37.33), Kambar (36.43), Larkana (35.90), Tatta (35.39)— between 35 and 40; and four—Sukkur (33.54), Jacobabad (32.22), Shikarpur (32.05) and Umarkot (31.68)-between 30 and 35.

Registration in rural areas in Sind presents many difficulties and for this reason deserves progressive attention.

12. The birth rate in Karachi Cantonment was 20.49 while for remaining cantonments it was below 20, varying between 17.96 Birth-rate-Cantonments. for Kirkee Cantonment and 5.94 for Ahmednagar.

General Population and Vital Statistics. SANITARY COMMISSIONER FOR THE GOVERNMENT OF BOMBAY. 3

13. Out of 726,780 births 376,930 were males and 349,850 were females. The ratio of male to female births was as 107.74 to

Births by sexes. 100. The corresponding figure for males last year was 107.29. The proportion of male to female births varied from 102.32 in Dharwar to 136.35 in Nawabshah Collectorate.

#### 14. 10,764 still births, or 1.48 per cent. of the total live births, were still births. The corresponding figures for 1914 were 10,034 and 1.37 per cent.

It is impossible to estimate the percentage of still births which remain unrecorded: an indication is given by taking extreme instances thus: the percentage of still to live births varied from 0.13 for Ahmednagar to 7.72 for the City of Bombay. In Belgaum (2.62), Dharwar (3.91), Bijapur (2.89) and Kanara (5.90) districts the percentages of still to live births are high as compared with Ratnagiri (.29), Satara (.35), West Khandesh (.46), Nawabshah (.47) and Sholapur (.55). These variations are not entirely caused by differences in conditions affecting viability.

15. 511,613 deaths were registered against 577,504 in 1914. Of the total deaths registered 263,672 occurred among males and 247,941 among females against 298,988 and 278,516 in 1914.

The number of deaths recorded in each year since 1905 is given :---

1905		588,394	[	<b>1</b> 909	 505,936	1	1913		521,539
1908	***	348,019	· ·	1910	560,003		1914		577,504
1907	•••	603 <b>,606</b>		1911	555,312		1915	•••	511,613
1908		50 <b>1,838</b>		19 <b>12</b>	 683,210	J			

1915 must be considered, therefore, in spite of the high incidence of plague, as a comparatively healthy year.

16. The recorded death rate was 26.12 against 29.48 in 1914 and a decennial mean of 30.39.

The death rates recorded in other parts of India are given :---

Madras			22.0	Bihar and Orissa	tap	32.2
Bengal			32.83	Punjab		36·33
$\Delta$ ssam	•••		<b>3</b> 0·86 -	United Provinces	314	30.02
Burma		•••	27.99	Central Provinces	• • •	35.91

17. Excluding Bombay City and Sind the death rate for the Presidency Death rate for Presidency. Beach rate for Presidency. 17. Excluding Bombay City and Sind the death rate for the Presidency was 28.13 against 32.12 in 1914. The death rates for rural and urban areas were 27.56 and 32.36 against 31.82 and 33.76 in 1914 respectively.

For Collectorates the highest death rate (38.02) was recorded in Nasik District and the lowest (17.07) in Panch Mahals.

Of the 187 talukas, pethas and mahals two returned death rates above 50; viz. Niphad (59.94) and Athani (51.22); 9 returned rates above 40, viz. Sinnar, Chandor, Baglan in Nasik, Sholapur and Barsi in Sholapur, Ranebennur and Kod in Dharwar, Mundgod and Supa in Kanara.

For urban areas there was a very wide variation in the death rates between 85.27 for Sholapur and 13.78 for Dhulia. Out of 85 towns 10 against 16 in 1914 returned death rates over 49, viz. Sholapur (85.27), Ranebennur (75.93), Barsi (71.45), Islampur (57.61), Gokak (49.96), Athani (47.30), Nasik (47.13), Dohad (44.18), Malegaon (41.55) and Ahmedabad (40.67).

18. The death rate for Bombay City was 24:17, the registered number Death rate for Bombay City. Death

S. Over rural areas the variation in birth rate was from 57.16 for Man Taluka in Satara District to 26.48 for Yellapur Taluka Birth rate for rural areas in

Presidency.

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Birth-rate-Bombay City.

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General Population and Vital Statistics. SANITARY COMMISSIONER FOR THE GOVERNMENT OF BOMBAY. 3

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The number of deaths recorded in each year since 1905 is given :---

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1906	•••	648,019	-	1910	•••	560,003	1914	•••	577,504
1907	***	603 <b>,606</b>		19 <b>11</b>		555,312	1918	· · · ·	51 <b>1,</b> 613
1908		50 <b>1,838</b>		19 <b>12</b>	•••	683,210	J		

1915 must be considered, therefore, in spite of the high incidence of plague, as a comparatively healthy year.

16. The recorded death rate was 26.12 against 29.48 in 1914 and a decennial mean of 30.39.

The death rates recorded in other parts of India are given :---

Madras			22.0	Bihar and Orissa		32.2
$\mathbf{Bengal}$		• • •	32.83	Punjab		36·33
Assam			30.86	United Provinces		30.05
Burma	***		27.99	Central Provinces	• • •	<b>3</b> 5·91

17. Excluding Bombay City and Sind the death rate for the Presidency Death rate for Presidency. 31.82 and 33.76 in 1914 respectively. The death rates for against 32.12 in 1914. The death rates for against 32.36 against 31.82 and 33.76 in 1914 respectively.

For Collectorates the highest death rate (38.02) was recorded in Nasik District and the lowest (17.07) in Panch Mahals.

Of the 187 talukas, pethas and mahals two returned death rates above 50; viz. Niphad (59.94) and Athani (51.22); 9 returned rates above 40, viz. Sinnar, Chandor, Baglan in Nasik, Sholapur and Barsi in Sholapur, Ranebennur and Kod in Dharwar, Mundgod and Supa in Kanara.

For urban areas there was a very wide variation in the death rates between 85.27 for Sholapur and 13.78 for Dhulia. Out of 85 towns 10 against 16 in 1914 returned death rates over 40, *viz.* Sholapur (85.27), Ranebennur (75.93), Barsi (71.45), Islampur (57.61), Gokak (49.96), Athani (47.30), Nasik (47.13), Dohad (44.18), Malegaon (41.55) and Ahmedabad (40.67).

18. The death rate for Bombay City was 24 17, the registered number of deaths being 23,287 against 31,500 in 1914. The mean death rate for the previous 10 years was 42.39.

,			such correction			
			Standard death rate.	Factor for correction.	Recorded death rate, 1915.	Corrected death rate.
Presidency			37.7	1.	28.13	28.13
Bombay City			31.2	1.21	24.17	29.24
Ahmedabad	•••		36.3	1.03	40.67	41.89
Karachi			35•6	1.06	37.03	39.23
Surat			36.0	1.03	83.09	34.08
Poona		•••	56.2	1.03	32.31	<b>35 27</b>

1.03

85.27

Sholapur

...

19. The following table gives death rates corrected in accordance with age and sex distribution for the few towns for which Corrected death rates. - Atom in more it to

Comparison between different towns is only possible by the use of corrected death rates: the variations in the death rates for the towns mentioned in the table is very largely governed by the incidence of plague, but there is one other point which requires emphasis. The high death rate for Ahmedabad is not caused by plague; some of it is caused by intestinal diseases which have in Ahmedabad a tendency to seasonal prevalence during the monsoon. The comparatively low death rate in spite of plague in Poona City is due to a saving of child life by sterilisation of the water-supply : similar attention to the water-supply of Ahmedabad may be followed by like results.

36.3

20. The death rate for Sind was 18.00. The variation between the rate for urban areas (35.32) and that for rural areas Death rate in Sind. (15.63) is very marked. The urban death rates range between 17:08 for Hala and 60:13 for Mirpurkhas.

21. The lowest death rate 5.56 was recorded in Death rate in Cantonment. Ahmednagar and the highest 30.89 in Deolali.

22. Over the Presidency as a whole the births exceeded the deaths 215,167. Figures for collectorates are given in Natural increase or decrease in columns 6 and 9, Annual Form II, and the following population table gives the natural increase or decrease in population for the principal registration areas :---

	Excess of births over deaths.	Percentage increase on population of 1911.	Excess of deaths over births.	Percentago decrease,
Presidency excluding Sind and Bombay City Sind Bombay City	200,180 18,542 	1·3 • <b>5</b> 3 •••••	3,555	····· ·37

23. 263,672 male and 247,941 female deaths were recorded giving death rates of 25.88 and 26.38 respectively against 29.34 Deaths by sexes and ages. and 29.63 for 1914. For every 100 females 106.34 males died. The corresponding figure for 1914 was 107.35. In Sind the ratio of male to female deaths was as 122.30 to 100.

24. The following is a short extract from the report of the Executive Health Officer of Bombay City :-Infant mortality.

For the Presidency the infant death rate per 1,000 registered births was 172 aginst 19581 m 1914. The male and female rates were 17892 and 16455 as compared with 20186 and 185.15 in the previous year.

Further observations on the percentages of deaths occurring at different periods during the first year of life were made in the Belgaum, Dharwar,

87.82

General Population SANITARY COMMISSIONER FOR THE GOVERNMENT OF BOMBAY. 5 and Vital Statistics.

Bijápur and Kánara Districts: the results are incorporated in the following table and compared with figures for Bombay City :-

District.				Under 1 month.	Between 1 and 6 months	Between 6 and 12 months.	
Belgaum		•		48.49	26.99	24.52	
Dhárwár				42.36	31.97	25.67	
Bijápur	•••			42.82	23·21	23.97	
Kánara	••		•••	56*78	24.32	18.90	
Bombay City	•••	***	•••	. 26.61	30.34	33.24	

The fact that over 62 per cent. of all child births in Bombay are attended by municipal nurses and midwives may well account for the comparatively low percentage of deaths during the first month of life. The circumstances attending child birth in the mofussil are often dangerous to the life of the infant and of the mother, and schemes for their amelioration must exercise the attention of social reformers of the present day. Apart from these unfavourable circum-stances there are other factors which influence largely the viability of the infant; the more important are diseases which sap the vitality of the mothers. Malaria and the evil results of prostitution are potent causes of the early death of the infant.

> 25. The deaths by classes in each Collectorate are recorded in Annual Form V, Appendix IV.

Deaths by castes or classes.

Ahmedabad City.

26. The general death-rate in Ahmedabad City fell from 41.66 to 40.67. The mean death-rate for the past 5 years being 47.23.

Ahmedabad City. Plague caused 1, fever 4,152, dysentery 240 and respiratory diseases 2,530 as against 4, 4,487, 168 and 2,279, respectively, in 1914. There were 9,054 births recorded or 42.31 per mille of population. The deaths registered under 1 year were 2,559 corresponding to a ratio of 282.64 per 1,000 of registered births.

27. The subjoined table shows the number of deaths in 1915 arranged according to causes and contrasted with the results for 1914, and with the mean of preceding five years :---

		r 5 years -1914.	19	015.	1914.		
	Number.	Ratio per 1,000 of population.	Number.	Ratio per 1,000 of population.	Number.	Ratio per 1,000 of population.	
Cholera Small-pox Plague Fever Dysentery and Diarrhow Respiratory diseases Injuries Other causes	 $\begin{array}{c} 19,386\\ 5,940\\ 39,955\\ 255,671\\ 42,442\\ 61,434\\ 7,378\\ 147,257\end{array}$	·99 ·30 2·05 13·21 2·19 3·18 ·38 7·61	377 1,425 43,824 224,797 31,707 63,364 8,113 139,006	02 -07 2•24 1]•43 1·62 3·23 -41 7·05	17,779 4,209 20,060 259,164 42,961 65,941 7,670 159,720	·91 ·21 1·02 13·23 2·19 3·37 · ·39 8·15	
All causes	 579,513	29.91	511,613	26.12	577,504	29.18	

For comments on the causes of deaths, vide Section VI.

The total number of births registered in those Cantonments which 28.are situated in quasi-foreign territory during the year Cantonments in qud i-foreign 1915 was 2,117 against 2,513 in 1914; the birth-rate territory.

being 21.15 per mille as against 25.77 in 1914. There were 3,690 deaths giving a ratio of 36.86 per mille against 3,880 and a ratio of 38.76 in 1914.

The high death-rate for Aden is noteworthy, caused as it is very largely by deaths from dysentery and diarrhea. The contrast in this respect between ь 2—2

the civil population of Cantonment and those living within municipal limits is very marked.

The statistics are tabulated below :---

Statement showing the names of Cantonments with Population, Births an	d
Deaths from diseases for the year 1915.	

1	g to		1 per		1,000			N	umber	of deat	hs from	n				R	atio of	deaths	s per 1,	000 ot	l popu	lation
Cantonments.	Population accordi- census of 1911.	Area in square miles.	Average population square mile.	Number of births.	Ratio of births per of population.	Cholern.	Small-pox.	Plague.	Fover.	Dysentery and Diarrhea.	Respiratory diseases.	Injuries.	Other causes.	All causes.	Cholera.	Small-pox.	Plague.	Fever.	Dyscutory and Diarrhea.	Respiratory discusses.	Injurics.	Other causes.
Manicipa limits.	I 40,624	67§	<b>C</b> 02	713	17'53	· ,	36		323	993		19	976	2,317		•88		7.91	24-41		<b>*</b> 47	2 <b>3</b> 10
E Purely civil po pulation o Cantonment.		73	42	1	3.26					1	71		6	7					3'26		•••	1915
Baroda	3,478	1	8,478	73	20.90			1	26	4		1	29	61		·	•29	7:47	1:15		•29	6·3
Deesa	7,120	5	171,320	115	<b>1</b> 6·13				21	11	12	1	46	91				2.02	1.21	1 63	·14	6-4
Mhow	22,360	6.2	3,140	247	11.05		1	60	234				300	595		•04	2.08	10.46				13•4
Nasirabad	16,144	8-58	1,881	603	41.38	•••			185		•••	•••	210	366				11:52			•···	13-0
Neemuch	9,7:0	<b>4</b> ·52	2,165	299	30.52			•••	73	8	22	1	87	191				7.46	•82	2.25	•10	8.8
Rájkot	201	•56	359	1	4.92			•••	• 1	•••	•••	•••	1	2			•••	4197				4.0
Total	10:,039	100.87	992	i2,117	21-15		37	61	<b>864</b>	1,017	31	22	1,655	3,690		•37	•61	8*63	10-16	•34	•22	16.5

29. The rainfall during April and May over the Deccan was well distributed with the exception of Khándesh, the Karnátak and the Konkan. Practically no rain fell in Gujarát

during these months.

The south-west monsoon burst after the middle of June, and at first caused rainfall much above the average except in parts of Bijápur and on the coast of Kánara and north Gujarát. The excess was particularly noticeable in Kolába, Thána, East Khándesh, Ahmednagar and Poona Districts.

In July the rainfall was in excess generally over the Deccan and eastern portion of the Karnátak: it was in great defect in the Konkan and Gujarát.

In August the rainfall was markedly in defect over the whole reporting area, to be remedied except in Gujarát by a considerable excess in September. The condition in Gujarát by the end of September caused considerable anxiety, but timely rain fell in October.

The total rainfall in Broach, Kaira and Ahmedabad Districts was much below the average, and it was anticipated that in certain areas the supply of water might be scanty in the following dry seasons: such scantiness is often associated with epidemic cholera. Precautionary measures were suggested.

The prices of food-grains in the Presidency were normal: in Sind low-paid servants of Government were granted grain compensation between the 1st June and end of October.

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History of Chief SANITARY COMMISSIONER FOR THE GOVERNMENT OF BOMBAY. 7

## SECTION VI.

## HISTORY OF CHIEF DISEASES.

### CHOLERA.

30. Three hundred and seventy-seven deaths were recorded compared with 17,779 in 1914. The mortality for each year since 1896 is given in the following table:—

3	fear.		Numbe <b>r</b> of deaths.		Year,		Number of deaths.	Year.		Year.		Year.		Year.				Year. Number of deaths.		Year.	Namber of deaths
1993 1997 1998 1999 1900	• • • • • • • • • • • •	•••	25,404 57,109 4 388 8,379 163,889	1901 1902 1903 1904 1905	···• ····	••••	13,600 3,229 1,825 13,156 5,396	190 <b>6</b> 1907 1908 1909 1910	   	•••• ••• •••	46,119 7,658 1,759 28,714 3,694	1911 1912 1913 1914 1915	   5,817 64,505 5,134 17,779 377								

Only once in the past 50 years have the inhabitants of the Presidency been so fortunate in the incidence of this disease : the comparative freedom in 1915 cannot, however, be taken as an index of sanitary progress, for, in the main cause of cholera—the indiscriminate fouling of the soil—there is little sign of improvement. So long as this can be said repetition of the experience of 1906, 1909, 1912 and 1914 may be expected. The elimination of cholera is in itself worthy of great effort, but when it is remembered that cholera is associated with excessive incidence of diarrhœa and dysentery and even of "fevers" the matter becomes of supreme importance. The future is not altogether without hope, for the past few years have seen the inauguration of several District Sanitary Associations : if the officials and members of these Associations keep in front of them the primary object of sanitary reform—the prevention of the contamination of water and food—the outlook for coming generations is bright.

31. Distribution :- Deaths were reported from 17 Collectorates in the Presidency and from 2 in Sind.

Thirteen towns and 61 villages reported deaths.

32. The only serious urban epidemics were in Godhra and Dohad Towns resulting in 55 and 45 deaths, respectively. Dr. Munsiff, the Deputy Sanitary Commissioner, visited Godhra and with the Civil Surgeon took steps to quash the disease. The origin of the disease was not ascertained, although in the case of Godhra suspicion rested on the river water. From these two towns the infection was carried to 12 villages, and gave rise to 36 deaths.

In the last quarter of the year 56 deaths were recorded from East and West Ehinlesh. Colonel Anderson, I. M. S., considers that the epidemic started in Ehusáwal Town with the introduction of infection on the 15th October from Ehusáwal Town with the introduction of infection on the 15th October from Ehusával resulted, the last case being reported on 30th October. No further deaths were registered till early in December, when two neighbouring villages on the banks of the Tápti river—Vitner an i Anwarde Khurd were infected. The connecting link was probably the unrecognised infection of certain villages on the Tápti river. Colonel Anderson found that in Nánded Town in the Erandol Táluka 10 deaths in November really due to choleraic diarrhœa were registered as caused by fever. From Vitner and Anwarde Khurd the disease spread to other villages on the banks of the Tápti and Aner rivers. The disease was of a mild type and many recoveries were reported.

23. A very marked advance in the method of saving the lives of sufferers from the disease was made during the year by the issue of cholera "treatments". Each "treatment" consists of 24 pills made to Sir L. Roger's formula. This measure must result in good: the extent of benefit will depend on the rapidity with which treatments can be placed in the hands of village officers. To facilitate the early adoption of preventive and curative measures a post-card system of notification is being introduced.

#### DYSENTERY AND DIARRHEA.

34. 31,707 deaths, of which 16,614 were males, and 15,093 females, were recorded against 42,961 in 1914, and 45,696 the mean of the previous 10 years.

The annual number of deaths registered under this head since 1904 is tabulated below:-

	Year.	•		Number of deaths from dysentery and diarrhœa.			Number of deaths from dysentery and diarrhœa.		
1904 1905 1906 1907 1908 1909	··· ··· ···		•••	61,470 55,488 61,736 53,708 40,781 85,039	1910 1914 1912 1913 1914 1915	· · · · · · · · · · · · · · · · · · ·		•••	46,643 31,549 57,039 34,021 42,961 31,707
		Tetal	•••	308,222	•		Total		243,920
•		Mean		51,370			Mean	•••	40,653

35. The urban death-rate was 2.23 and the rural 1.50.

The following table gives the towns in which the death-rate was over 2 per 1,000, and compares the death-rate for the year with the quinquennial mean :—

То	WD.	·	Death- rate.	Mean.		Town.		Death- rate.	Mcan.
Erandol			2.36	0*95	Karád		]	2.76	4.19
Nasirabad			3.61	3.20	Ashta			2 24	1.86
Frimbak			2.94	1.96	Ratnágiri			7.58	2.43
Deoláli			3.43	2.88	Vengurla			4.86	2.24
Thina			2.24	2.55	Gokák			2.73	5.37
Kurls			2.45	2.65	Athni			2.24	6.60
Bhiwndi			2 56	1.39	Dhárwár			2.62	1.82
Bombay			2.20	3.23	Nipáni			2.50	2.55
Ahmeduagar	• • •		2.77	2.07	Gadag			4.53	2.12
Poona			5.38	9.49	Bijápur			2.14	1.32
Bàrámati			2.76	1.56	Bágalkot			3.41	3.02
Khed	•••		3.10	1.61	Kárwâr		!	3.16	2.71
Kirkee			4.43	5.64	Gokarn			8-77	4.08
Sholápur			14-06	11.25	Honáwar			2.59	2.93
Bárai	•••		3.20	5.01	Bhátkal ·			2.80	2.45
Pandharpur			7.39	9.06	Surat	·	···]	2.85	1.12
Sátára			4.23	7.18	Borsad	***	]	2.36	8.92
Wai			3.16	8.15	Dákor			2.31	2.07

36. The dysentery death-rate in all these towns represents a very serious loss to the community and deserves attention. The disease, though rife during the hot weather in many places, is mainly a monsoon epidemic: that is from 60 to 80 per cent. of the deaths are reported during the last half of the year. The line of action from which benefit is most likely to result is sterilization of the drinking water-supply. This was tried after the beginning of July in the case of Poona City and the death-rate in the year fell from 9:49 to 5:38. The important point is that only 40 per cent, of the deaths were registered in the last half of the year instead of the usual 70 or 80 per cent. : again the reduction in the death-rate between the ages of 1 and 5 was very marked during the same period: this brings forward another fact that the chief cause of death at this age period are diseases of which diarrhœa is a prominent symptom. A study of the dysentery death-rates by age periods for the districts of Pcona, Sholápur, Ahmednagar, Sátára and Ratnágiri emphasises the two facts that dysentery and diarrhœa are diseases especially fatal to children under the age of 5 during the monsoon months.

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			lnagar rates,		death- tes.	Sholi death-		Sátára rat	death- es.	Ratn death-	ágiri rates.
Age period.		Aug.	Dec.	Aug.	Dec.	Aug.	Poc.	Aug.	Dec.	Aug.	Dec.
0-5	<i>,</i>	2.09	0.76	1.48	0*45	2.59	0.95	2.17	0.67	1.13	0.82
5-10		0.08	0.02	0.12	0.06	0.12	0'05	0.52	0.09	0•24	0.23
<b>J0-60</b>	•••	0.02	0.02	0.07	0.02	0.02	0.09	0.10	0.02	0.12	0.
Over 60	•••]	0.72	0.41	0.79	0.45	1.0	0.72	0.95	0.48	0.42	0.61

These figures would be still more striking if the population figures given in the census report permitted the calculation of death-rates for the 1-5 age period, for the majority of deaths occur between these ages. If the number of deaths from these diseases registered during August among children under 5 in Sholápur District had been maintained throughout the year a death-rate of 31 per 1,000 children would have been returned. The deaths during December were also of serious proportions, but represented, in comparison, a death-rate of 8 per 1,000. The liability to death falls rapidly in all 5 Districts with advancing years until old age is reached. The figures for Ratnágiri District are interesting in that rise in the death-rate among adults occurred in December as compared with August. It is possible that this rise is due to deaths of adults from diseases of which diarrhœa is often a terminal symptom, for instance malaria and tuberculosis.

37. The monsoon epidemic is undoubtedly largely due to the washing of surface impurities into the water supplies, and a great reduction in the sickness and mortality in Poona City was obtained by sterilization of the water with chlorine. In time this benefit can be extended to other towns provided with a general water-supply. Smaller towns especially those to which pilgrims are attracted need not be neglected, for Professor Cree Brown of the Engineering College has invented an apparatus for adding chemicals in correct proportion to small quantities of water : this apparatus can be worked wherever a reliable pump can be installed.

#### FEVERS.

38. During 1915, 224,797 deaths were recorded from fevers, against 259,164 in 1914 and a decennial mean of 252,597. The death-rate was 11.49 against 13.23 in 1914 and a quinquennial mean of 13.21.

	Year.		•	Number of deaths from fever.		Yea	r.		Number of deaths from fever.	
1904				251,330	1910				263,528	
1905				245,373	1911			[	223,027	
1906		•••		274,653	1912				286,321	
1907		•••		260,329	1913				246,319	
1908				243,872	1914			•••	259,164	
1909		•••	•••	223,888	1915		•••	•••	224,797	
	Total	•••	•••	1,398,945		Total	•••	[	1,503,156	
	Mean	•••		233,158		Mean	•••	•••	250,526	

The annual mortality attributed to fevers since 1904 is given below :---

39. It is obviously important to investigate as far as possible the conditions underlying a death-rate which amounts to rather over  $\frac{1}{3}$ rd of the total deathrate. The most elementary part of such investigation consists in classifying the deaths according to age periods and seasons. This has been done for the past 8 years in the Southern Registration District, and the death-rates per age period for the 4 Collectorates are given below :---

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	,		0—5.	5-20.	20-40.	4060.	Over 60.
Belgaum Dhárwár Bijápur Kánara	••• ••• •••	•	13·2 16·02 21·53 - 19·48	4·49 4·49 4·07 3·73	3-68 4-99 3-97 7-99	5.77 8:24 8:08 18:79	$   \begin{array}{r} 13.08 \\     22.46 \\     34.94 \\     60.74 \\   \end{array} $

The high death-rates for all Districts at the age period 0-5, and the comparatively high death-rate for Kánara between the ages of 20 and 60 at once arrest attention. During the last 6 months of the year a similar analysis has been made of the figures for the Collectorates in the Central Registration District, and the result is tabulated :--

•			0-5.	5—20 <b>.</b>	20-40.	40-60.	Over 60.
Ahmednagar Pcona Sholápur Sátára Ratnágiri	••• ••• ••• •••	82 84 84 84 84 84 84 84 84	$     \begin{array}{r}       15.73 \\       18.91 \\       18.25 \\       17.42 \\       7.45     \end{array} $	1.65 2.02 1.83 1.81 1.72	1·96 1·93 1·75 2·07 2·62	3·84 3·95 2·77 3·98 5·22	9·59 22·07 14·09 26·51 25·02

As the figures are for 6 months only each death-rate requires multiplication by some factor between 1 and 2 to bring it to an annual rate. In these Districts again the high incidence of fatal fevers during the first five years of life is very marked. In all the districts with the exception of Kánara and Ratnágiri from 40 to 60 per cent. of the deaths registered from fever between June and October are among children under 5. It is well known that intestinal disorders during early years of life commonly cause fover, and are very fatal. It has been pointed out in the section on cholera that in one village 10 deaths from choleraic diarrhæa were included under the heading fever, and this is no isolated instance. It is also certain that in infective intestinal affections of children death may occur before diarrhoea has had time to set in and when fever is probably the only symptom. The experience of past years has proved that the fever death-rate is exceptionally high in those years in which cholera is epidemic. All these facts point to intestinal disorders causing some portion of the fever mortality. The causes of intestinal disorders in children are the drinking of contaminated water and the eating of impure and unsuitable food, and there can be no reasonable doubt but that measures designed with the object of eliminating impure water and food will result in a lowering of the fever death-rate in addition to improvement in the mortality from cholera and diarrhœal diseases. Impure water and food are at the bottom of the high mortality in this Presidency, and must receive attention before any material and continued improvement in morbidity and mortality can be expected.

40. The adult fever death-rate presents a more difficult problem so far as suggesting a remedy. In Kánara and probably in Ratnágiri the high deathrates between the ages of 40 and 60 are mainly due to malaria: a similar tendency to high mortality at this age period is observed in all Districts, and the season is the same for all—the last quarter of the year. In some Districts plague is a contributing factor, but probably not to a very large extent, for in severe plague years the fever mortality is usually lower than the average. It is impossible to give a definite reason for the high adult death-rate for each District without an investigation over a certain area of each District. The carrying out of such investigation can only be done as opportunities arise and must naturally be slow.

41. The investigation into malaria in Kánara concluded in August last, and a report by Dr. Mhaskar has been submitted. The medical practitioners of Hubli Town complained of the prevalence of malaria within the municipal limits and a special investigation was carried out by Mr. deMello, the asting Deputy Sanitary Commissioner of the District. Distory of Chief Diseases-Fevers. SANITARY COMMISSIONER FOR THE GOVERNMENT OF BOMBAY. 11

42. The preventive measures against malaria in the Presidency and Sind were limited practically to the treatment of sufferers with quinine. In Sind 8 Sub-Assistant Surgeons were appointed to travel in the Districts of Hyderabad (3), Nawábshah (2), Sukkur (2), and Thar and Parkar (1). They treated 7,174 cases of malaria.

In addition 2,987 lbs. of quinine were sold and distributed free in the Presidency and Sind. The agencies for sale and distribution were (a) District Local Boards, (b) Municipalities, (c) Post Offices.

The Municipalities and District Local Boards issued quinine mainly in the form of treatments, but some in powder and pill; while at the Post Offices it was sold in pice packets.

In Sind the District Local Boards sold in the form of treatments 107 lbs. and in powder 14.5 lbs.; and distributed free 380 lbs. as treatments, 48 lbs. in powder and 54.5 lbs. in pill. The Post Offices of the Karáchi, Hyderabad, Sukkur and Indus Right Bank Division sold 221 lbs. of quinine powders.

In the Lárkána District 244 5 lbs. of quinine treatments were distributed free and 10 lbs. sold. The prophylactic administration of quinine to school children was carried out in Lárkána and Hyderabad Districts. The reports from Bádin Táluka of Hyderabad District indicate that only 15 per cent. of. treated children were attacked by fever against 95 per cent. of untreated children.

There was a general complaint of the inability to obtain sufficient quinine especially in treatment form. The rise in the price of the drug will have serious results on the future health.

In the Presidency the District Local Boards and Municipalities sold in the form of treatments 222 lbs. and 5.5 lbs. in powder: they distributed free 206 lbs. as treatments, 60 lbs. in powder and 12.5 lbs. in pills. The sales were largest in East Khándesh (93 lbs.), Belgaum (30 lbs.), Dhárwár (18 lbs.), Ahmedabad (18 lbs.), and Thána (15 lbs.), while free distribution was greatest in Dhárwár (86 lbs.), Kaira (69 lbs.), and Broach (51 lbs.). In the Post Offices 1,654 lbs. of powders were sold, and represented a fairly even distribution except that sales were low in the Konkan and Belgaum Divisions.

43. In compliance with orders in Government Order, General Department, No. 6007 of 2nd August 1915, attention was drawn by the Deputy Sanitary Commissioner, Sind Registration District, to the existence of borrow pits near 6 villages in Lárkána District and 2 in Karáchi District and to the part they played in causing malaria in those villages. The borrow pits near the villages in Karáchi District have been filled up by the District Local Board.

The Deputy Sanitary Commissioner, Gujarát Registration District, reported that the tank on the Salál-Sonásan-Nánápur Road is a permanent breeding place for mosquitos and a feeder to numerous temporary breeding places: he also advised the prohibition of "Shingodi" cultivation in the tank between Prántij and Kamalpur owing to the provision thereby of innumerable breeding grounds for anopheline mosquitos. Both these tanks are in Prántij Táluka of Ahmedabad District. The Irrigation Department are taking steps to carry out the Deputy Sanitary Commissioner's recommendations.

44. The Deputy Sanitary Commissioners continued the taking of a spleen census, and a map for the Presidency showing the distribution of malaria is a possibility of the near future.

45. In the last annual report mention was made of an outbreak of sandfly fever, which was investigated by the Acting Deputy Sanitary Commissioner of the Southern Registration District. The disease first appeared in the Navalgund Táluka in Dhárwár District in September 1914, and spread to 30 out of 58 villages in the táluka and attacked about 6,000 persons. Between September 1914 and June 1915 the adjacent tálukas of Dhárwár, Belgaum and Bijápur Districts were infected and over 14,000 attacks were reported. In no case was the result fatal. The breeding places of the sand-fly were found to be the tone-built pit privies and the drains in connection with bath-rooms. The disease is often attended by severe pains and lassitude, and though not fatal is of importance in its possible effect on labour: the line of prevention is obvious.

#### PLAGUE.

46. Forty-three thousand eight hundred twenty-four deaths (21,943 males and 21,881 females) were recorded against 20,060 in 1914 and a decennial mean of 46,793.

Year	r.	Denths.	Year.	Deaths.	Year.	Deaths.	Year.	Deaths.
1904 1905		<b>#1 969</b>	1907 1908	07 945	1910 1911	25,043 100,399	1913 1914	00.000
1906	. •••	51 505	1909	84 510		28,984	1915	40.004

The annual number of deaths recorded since 1904 is given below :---

Taking the figures from 1907 onwards there is a suggestion of a 4 years cycle; should subsequent experience bear this out there is some comfort in the fact that the epidemic of 1915 was much less severe than in either 1907 or 1911. This possibility must be borne in mind in estimating the value of such preventive measures as were taken.

47. The death-rate was 2.24 against 1.02 in 1914 and a quinquennial mean of 2.05. The disease was widespread in that all collectorates and 209 out of 360 registration circles reported deaths. In 1914 two collectorates escaped and only 189 registration circles were infected. In 1915 the disease was confined to 1,536 towns and villages against 941 in 1914. In a few collectorates only was a really severe epidemic experienced, for instance, in Belgaum, Dhárwár, Sholápur, Sátára and Násik Districts in the Presidency, and in Karáchi and Hyderabad in Sind.

48. In Belgaum District 9,526 deaths were recorded : the death-rate was 10.11 against a quinquennial mean of 5.19. The urban death-rate was 13.59 and the rural 9.82. In ordinary years the death-rate from plague falls steadily in the first half of the year, but in 1915 the fall did not commence till April. The reason for this rise in mortality in the beginning of 1915 has not been ascertained ; whatever the cause, this unusual seasonal rise had a marked effect on the subsequent plague history of the year, for it resulted in the late infection of several important villages in Athni and Chikodi Tálukas, and added to the number of villages in which the infection was carried over during the hot months. In May the following towns and villages reported cases :--Athni Town and Jugal in Athni Táluka; Sadalgi, Ankli, Borgaon and Mankápur in Chikodi Táluka; Sankeshvar and Solápur in Hukeri Táluka; Belgaum in Belgaum Táluka; Mouze Nandgad in Khánápur Táluka. Thus, in the northern part of the district the infection during the hot weather was firmly implanted in 3 talukas (Atbni, Chikodi and Hukeri) and in 2 talukas (Belgaum and Khánápur) in the south. From these centres the infection rapidly spread with the onset of favourable climatic conditions and Gokák Táluka was infected by road from Athni, its neighbour. In the 3 northern talukas 7,137 deaths were reported out of 9,526 for the whole district and 48 per cent. of villages situated therein were infected. Gokák Táluka, infected directly from Athni, was responsible for 860 deaths, and the talukas of Khanapur and Belgaum returned 565 and 710 deaths respectively. In the 4 talukas, in which no carrying over centres existed, there were only 284 deaths.

It is impossible to avoid the conclusion that, if it had been possible completely to stamp out infection during April and May in the towns mentioned above, the plague history of the district would have been altered materially. A temporary Assistant Surgeon was appointed with a staff to carry out rat destruction. Between July and September 648,520 baits were laid in Athni Town, Sankeshvar in Hukeri, Kagwad in Athni, Sadalgi in Chikodi and Belgaum, Gari Gunji and Santibastwad in Belgaum, and 25,027 rats were

#### History of Chief SANITARY COMMISSIONER FOR THE GOVERNMENT OF BOMBAY. 13 Discases--Plague.

destroyed. Four hundred and forty-three thousand five hundred and cightynine baits or 68 per cent. of the total were laid in Belgaum Town. The cost of the operations which were not efficiently carried out, excluding the pay of the temporary Assistant Surgeon, came to Rs. 1,203.

The disease was reported from 228 towns and villages, of which 171 were in the 4 northern tálukas. Inoculation was carried out in 35 towns and villages. At the height of the epidemic, 2 Assistant Surgeons were appointed, who between them inoculated 5,323. The Medical Officers in charge of dispensaries inoculated 1,072, and 1,557 were inoculated by private medical practitioners and others. Out of 7,952 inoculations, 4,050 were performed in Belgaum and Athni Towns.

49. In Dhárwár District 5,976 deaths were registered: the death-rate being 5.83 against a quinquennial mean of 10.36. The urban death-rate was 4.92 and the rural 5.97. In May the infection was firmly established in 10 villages of 5 tálukas—Ránebennur, Kadarmandalgi and Kuppelur of Ránebennur Táluka; Herur and Alur in Hángal Táluka; Chikkabur, Kervádi and Kadur in Kod Táluka; Mallur in Karajgi Táluka; and Tadas in Bankápur Táluka. These tálukas returned 5,271 deaths out of the total number registered.

Rat destruction work was carried out by temporary Assistant Surgeon Gokhale at two places only for a limited period. Dhárwár Town was baited for about a month and Hángal for a week in July and August. In Dhárwár 21,844 baits were distributed and 1,666 rats were destroyed. In Hángal 10,870 baits were laid for the destruction of 1,132 rats.

Three hundred and sixteen towns and villages were infected, and in 156 of them inoculation was carried out. Five temporary Assistant Surgeons were appointed, who worked under the Assistant Surgeon whose services have been lent to the Dhárwár Sanitary Association. The total number of inoculations was 30,392, of which 13,715 were done by the special plague staff, 15,732 by Medical Officers in charge of dispensaries, and 704 by private medical practitioners and others.

50. In Sholápur District 7,769 deaths were recorded against 6 in the previous year. Sholápur City was infected in December 1914 and suffered from a fairly severe epidemic during the early months of 1915. From Sholápur the infection was carried between January and May to 16 villages in Sholápur Táluka, to Pandharpur, and to Randweechi in Mádha Táluka. During the hot weather infection was carried over in Sholápur City, and in Dhotri, Musti and Darganhali villages of the táluka, and from these centres the infection spread rapidly from September onwards. During the second half of the year the important epidemiological points are the infection of Bársi Town from Sholápur in September, and the second infection of Pandharpur towards the end of the year. Sholápur, Bársi and Pandharpur served as distributing centres. It may be taken for granted that, had it been possible to prevent the infection of these places, the epidemic in the district would not have occurred. The significance of this statement will be apparent when preventive measures are considered. During the last half of the year 58 out of 302 towns and villages in Sholápur Táluka were newly infected: 77 out of 245 towns and villages in Bársi Táluka, and 11 villages out of 171 in Pandharpur Táluka.

The special plague preventive staff under Major Kunhardt and Dr. Chitre worked in Sholápur District throughout the year. Three inoculators were appointed and performed 219 inoculations in 43 towns and villages. Two hundred and eighty persons were inoculated by Medical Officers in charge of dispensaries and 10,569 by private medical practitioners and others. There was a total of 13,040 inoculations in the district, of which 11,108 were in Sholápur City itself. The special inoculators did not move about the district sufficiently.

51. In Sátára District 3,633 deaths were recorded against 2,033 in the previous year. At the end of 1914 infection persisted in the tálukas of Wálwa, Shirála, Koregaon, Tásgaon, Karád, Mán, Khatáv, Khánápur and Wái. It was fairly well spread: it died down rapidly till in May it persisted in Tásgaon and Turchi of Tásgaon Táluka, in Islámpur of Wálwa Táluka, and Shirváde of

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Karád Táluka. From June on the infection spread rapidly and 94 towns and villages were infected before the end of the year: of these, 30 were in Wálwa Táluka, 22 in Tásgaon Táluka and 16 in Karád Táluka.

The special plague preventive staff under Major Kunhardt and Dr. Chitre worked in the district throughout the year. Inoculation was practised in 17 towns and villages, and 5,017 persons were inoculated against 4,022 in 1914. Two inoculators were appointed and performed 1,231 inoculations in 12 towns. Ninty-five were done by Sub-Assistant Surgeons and 369 by private medical practitioners and others.

In Sátára City the rat trapping campaign was continued: 38,541 rats were destroyed against 31,413 in 1914. The cost of the operations, excluding the pay of the temporary Assistant Surgeon in charge, came to Rs. 3,144. Two imported cases died in Sátára during February, but there was no epidemic in the city for the second year in succession.

52. In Násik District 7,139 deaths were recorded against 1,118 in 1914. It will be remembered that the district was infected in the latter half of 1914 through Igatpuri, and in December the epidemic was felt in Násik City, in 4 towns of Niphád Táluka, and in Manmád of Chandwad Táluka. Up to March the disease spread, and then died down till in May the infection persisted in 3 towns in Niphád Táluka, 1 in Násik Táluka, 1 in Chandwad, 1 in Dindori and 1 in Sinnar.

From July onwards 151 towns and villages were infected; of these, 47 were in Niphád Tátuka, 15 in Chandwad, 14 in Sinnar, 13 in Dindori and 12 in Násik.

Thirty-nine of the remaining 50 villages were in Báglán Táluka, and the important epidemiological factor here was the infection in July of Satána, a town with a population of nearly 4,000.

Two temporary Assistant Surgeons were appointed, one of whom was instructed to carry out rat destruction operations.

Destruction of rats was taken in hand in Násik, Pimpalgaon Baswant, Vadner, Vinchur, Nanduri, Thergaon, Shivádi, Rawalas, Kotháre, Mouze Sukene, One, Páchora Budruk, Velápur and Vadalibhoi. Násik was baited from 28th August to December 1915. Forty-seven thousand five hundred and eighty-two baits were laid but only 1,689 rats were destroyed. The number of rats destroyed in the various towns and villages could have no effect on the course of the disease. The measures were very inefficiently carried out.

Four thousand five hundred and sixty-eight inoculations were carried out in 30 towns and villages. Two thousand one hundred and five persons were inoculated by the special inoculators, 2,406 by Medical Officers in charge of dispensaries and 57 by private medical practitioners and others.

53. In Poona District the epidemic was a great interest. One thousand eight hundred and thirty-eight deaths were recorded against 1,810 in 1914. In the early part of the year Poona City suffered fairly severely, but in June no cases or deaths were reported. In the latter half of the year the disease never really caught hold, although there were several small centres of infection following imported cases. Haveli Táluka, outside Poona City and Cantonment, was practically free from plague during the last half of the year. Junnar Táluka was badly infected during the first half of the year, and the infection was undoubtedly carried over during the off season in the village of Pimpalwandi: during the last half of the year 13 villages of this táluka and 7 of the adjacent Khed Táluka, and followed the infection of Lonávla. Since the introduction of the hydro-electric works Lonávla has become an important labour centre, with ready opportunity for the importation of infection. Lonávla was re-infected in July and passed through a severe epidemic.

The special plague staff under Major Kunhardt and :Dr. Chitre worked in the district throughout the year and the failure of the epidemic to lay hold of Poona City may possibly be due to their efforts. Two temporary Assistant History of Chief SANITARY COMMISSIONER FOR THE GOVERNMENT OF BOMBAY. 15 Discusses-Plague.

Surgeons were appointed and inoculated people in 23 towns and villages. Four thousand nine hundred and eighty-six persons were inoculated against 12,269 in the previous year. The temporary staff performed 4,335 inoculations, Medical Officers in charge of dispensaries 298, and private medical practitioners and others 353. Two hundred and thirty-five inoculations were performed in Poona City by private medical practitioners.

54. In Sind 3,135 deaths were registered against 1,531 in 1914. The year opened with a very severe epidemic in Hyderabad City and the infection of Karáchi and Kotri. During the early months of the year every district in Sind reported cases, but the epidemic only persisted in Karáchi, where deaths were reported up to November.

<sup>•</sup> Inoculation was confined practically to Karáchi, Shikárpur and Hyderabad Cities, and reached the total of 9,959. Only 23 inoculations were performed by private medical practitioners. In Hyderabad a temporary Assistant Surgeon was appointed and he performed 1,435 inoculations.

55. One hundred and twenty-eight thousand and eight hundred persons were inoculated as against 62,497 in 1914. There was

progress in Native States, 21,392 inoculations being performed against 435 in 1914. In Native States the inoculation was performed by Medical Officers of the States. The number of inoculations performed is as follows :—

Native States.

Jamk <b>handi</b> Kolháp <b>ur</b>	•••			6,19 <b>4</b> 5,74 <b>1</b>	171	6 <b>8</b> -	252 201
Sángli		•	•••	2,396	4.7 - 13 7 4		107
Miraj Senior				2,314	Dhar	••	76
Savnur	•••			1,079	Mewás	••	68
Miraj Junior	***			825		••	68
Mudhol	•••			591		••	65
Vishalgad	•••		•••	444		••	8
Ichalkaranji	•••			438	Káthiáwar Agency .	••	6
Jath			•••	509	•		

Nineteen temporary Assistant Surgeons were employed for portions of the year: 5 were employed in Dhárwár District, 2 in Belgaum District, 2 in Bijápur District, 2 in Násik District, 3 in Sholápur District, 2 in Sátára District, 2 in Poona and 1 in Hyderabad (Sind).

They inoculated 44,213 persons in 285 towns and villages. The total cost of the temporary staff came to Rs. 29,014, and the average cost of each inoculation was 10.5 annas against 15.6 annas in 1914.

At Civil Hospitals and Dispensaries 29,925 persons were inoculated two thousand two hundred and ninty-four in Násik District, 298 in Poona, 280 in Sholápur, 95 in Sátára, 1,072 in Belgaum, 4,559 in Bijápur, 15,732 in Dhárwár, 794 in Thána, 121 in Kolába, 1,291 in Ahmednagar, 84 in Ratnágiri, 436 in Kánara, 528 in Surat, 38 in Broach, 57 in Ahmedabad, 9 in Thar and Párkar, 2,108 in Sukkur and 17 in Karáchi.

Three thousand nine hundred and eighty-five inmates of Jails were inoculated, and private medical practitioners in Poona City, Wái and Islámpur in Sátára District; Athni, Belgaum and Ankli in Belgaum District; Bijápur, Hubli and Herinarti in Dhárwár District inoculated 3,456 individuals. In Bombay City the number of inoculations was 3,921.

Inoculation is still looked on with disfavour by the bulk of the rural population; the fluctuation in the number of inoculations each year depends very largely on the risk of infection run by the inhabitants of large towns. If any towns or villages in their vicinity are infected the numbers of inoculations for that year will be large. The difference in the attitude towards inoculation of rural and urban populations is seen in all districts, and the number of villages in which persons are inoculated is a small percentage of the total infected.

56. One hundred and eighty-eight persons who had been inoculated were attacked by plague, of whom 91 died; in 1914 the corresponding figures were 92 and 40. Detailed information is given in the table :--

#### FIFTY-SECOND ANNUAL REPORT OF THE

-	District.			Number of inoculation.	Total plague deaths.	Attacks among inoculated.	Deaths among inoculated.
Dhárwár Bijápur Poona Sholápur Ahmednagar Belgaum Kánara Násik Sátára Sukkur Karáchi	···· ···· ···· ····	···· ···· ···· ····	···· ···· ···· ···· ····	<b>30,392</b> 19,694 4,986 13,040 1,812 7,952 436 4,568 5,017 2,718 5,894	5,976 969 1,838 7,769 445 9,526 46 7,179 3,638 374 1,429	67 37 21 17 13 11 8 6 4 3 1	26 18 12 12 7 6 2 2 2 4 4 2 2 0
,						188	91

Sixty-three or nearly 70 per cent. of the fatal cases among inoculated occurred within one month of inoculation.

57. Two facts are brought out by the epidemic of the year :

(a) the danger of villages which are infected late in the preceding epidemic.

(b) the rapid dissemination of infection from large towns which are trade or labour centres.

It seems very clear that the elimination of plague depends on the possibility of stamping out infection wherever it exists during the off season and on the protection of important towns from infection. Into the former the enquiry under the Indian Research Fund is continuing: a small area—Poona District—is under observation for the coming year. It must not be considered that the result of this work up to date has been unsuccessful. The history of the epidemic in Poona District during 1915 is very encouraging.

58. The protection of important towns presents many problems incapable of solution in the immediate future; among them are the grain trade, weekly markets, fairs and the ever present housing question. In the meantime these towns can be protected by continuous trapping; this has been proved in the past in the Punjáb, and the experience gained there has recently been applied to Sátára in this Presidency. The two secrets of success are continued operations throughout the year, and a sufficiency of traps. Sátára has been free from plague for two years at a cost of about rupee one per inhabited house. The question which inhabitants of important towns in the plague area have to decide is "Is freedom from plague worth the average annual expenditure of rupee one per house."

#### SMALL-POX.

59. 1,425 deaths were registered as compared with 4,209 in 1914 and a decennial mean of 6,015. 772 deaths were among males and 653 among females. The annual mortality since 1904 is given below :---

	Year.		Number of deaths from Small-pox.		Year.			Number of deaths from Small-pox.
1904 1905	•••		 4,289	1910				4,600
1905	***		 $16,985 \\ 4,063$	1911 1912	***		•••	4,727 6,331
1907	•••		 1,862	1913	•••			9,833
1903			 2,526	1914	***			4,209
1909	•••		 5,019	1915				1,425
	•	Total	 34,744			Total		31,125
		Mean	 5,791	1		Mean		5,187

History of Chief Diseases—Respiratory Diseases. SANITARY COMMISSIONER FOR THE GOVERNMENT OF BOMBAY. 17

The ratio per 1,000 was 0.07 as compared with 0.21 in 1914 and a quinquennial mean of 0.30.

The highest death-rates were returned from Kánara (0.64), Násik (0.28) and Thána (0.11).

60. Towards the end of the year the town of Málegaon in Násik District was infected, and a death-rate of 6.81 resulted. Small-pox is almost always present in this town, and epidemics are frequent. A certain section of the population consistently refuse vaccination, and the deaths are confined almost without exception to the children belonging to this community: the advent of an epidemic is timed by the collection of sufficient children since the date of the last epidemic. Gokarn Town suffered fairly severely with a death-rate of 0.94; and Poona City and Bombay City returned death-rates of 0.41 and 0.37, respectively.

61. In the Southern Registration District 182 cases in 9 infected villages were investigated, and it was found that 74 had been vaccinated previously and 108 unvaccinated. Of the vaccinated none died, of the unvaccinated 26.

A similar investigation into 288 small-pox cases in other Registration Districts revealed a case mortality of 6.04 among vaccinated against 20.75 among the unvaccinated. Taking the Presidency as a whole the case mortality among vaccinated was 4.3 against 21.9 for unvaccinated.

These figures afford very striking evidence of the protection afforded by vaccination: the contrast would be still more remarkable if the people would accept the principle of revaccination.

## RESPIRATORY DISEASES.

62. 63,364 deaths (33,588 males and 29,776 females) were registered as compared with 65,941 in 1914 and a decennial mean of 59,874.

The annual number of deaths registered since 1904 is given in the following table:---

	Year.	,	Number of deaths from Respiratory diseases.		Year.			Number of deaths from Respiratory diseases.
1904 1905 1906 1907 1908 1909	···· ••• ··· ···	•••	59,579 54,537 60,615 58,068 54,671 55,433	1910 1911 1912 1913 1914 1915				59,880 51,470 70,712 59,418 65,941 63,364
	T	otal	340,903			Total		370,785
	М	ean	56,818	-	:	Mean	•••	61,798

The death-rate per 1,000 of population was 3.23 against 3.37 in 1914 and 3.18 the mean of the previous 5 years.

63. In rural areas the death-rate was 2.58 against one of 6.61 for urban areas. The highest death-rates for urban areas were recorded in Kaira (14.12), Mirpurkhas (13.18), Borsad (12.14), Ahmedabad (11.82), Broach (10.91), Umreth (10.91), Jambusar (10.68), Nadiád (9.98), Surat (9.88), Ahmednagar (9.39), Hubli (9.27), and Bombay City (8.16).

64. In Gujarát Registration District 3,204 deaths from phthisis were recorded giving rise to a death-rate of 1.14 per mille. The urban death-rate was 2.76 against one for rural areas of 0.71.

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	Town,			Total death-rate,	Ma le death-rate.	Female death-rate.
Ahmedabad			· • • •	4.14	3.83	4.52
Dákore	•••	•••	•••	2.95	3 05	2.84
Nadiád				2.65	2.16	3.21
Dhandhuka				2.61	2.89	2.36
Ránder		••••		2.52	1.39	3.23
Broach	67.6			2.49	2.08	3.03
Kaira	•••			2.47	2.99	1.88
Dholk <b>a</b>				2.43	S.55	1.82
Surat		•••	•	2.37	1.91	2.86
Viramgám	***			2.31	2.80	1.82

The principal urban death-rates are given in the following table :-

For the whole District the disease was rather more prevalent in males than in females, but the above table shows that in a few towns the female death-rate is higher than the male. 2,187 deaths or nearly 70 per cent. occurred in persons between the ages of 20 and 50.

65. In the Southern Registration District (Belgaum, Dhárwár, Bijápur and Kánara) 1,539 deaths from phthisis were registered against 1,574 in 1914. The death-rate was 0.47. The urban death-rate was 1.22 against one of 0.39 for rural areas.

The highest urban death-rates were recorded in Navalgund (3.69), Gokák (3.55), Gokarn (2.82), Ránebennur (2.2), Belgaum (2.16), Nipáni (1.67), and Gadag-Bettigiri (1.28).

66. In the Central Registration District (Poona, Ahmednagar, Sholápur, Sátára and Rátnagiri) the most serious feature in the history of phthisis is the gradual infection of the Ratnágiri Districts—urban and rural areas—by persons returning from Bombay City. Emigration to Bombay is common, the infected individual returns to the District in the advanced and infectious stage of the disease to die a few weeks after return. A partial investigation has been made by Mr. Da Gama, the acting Deputy Sanitary Commissioner : out of 168 cases examined 50 had come direct from Bombay City. This importation of infection is a serious matter for those districts which supply Bombay with labourers.

67. In Sind 641 deaths from phthisis were recorded, the great majority (518) being from the towns of Hyderabad, Tando Adam, Kotri and Karáchi; the respective death-rates were 4.16, 2.99, 1.65 and 1.33. Of the 518 urban deaths 280 were in females and 238 in males.

68. In the prevention of tuberculosis the provision of hospitals for advance cases, tuberculosis dispensaries and sanatoria in which individuals can be cured or trained in the disposal of infectious expectoration, are undoubtedly wise measures. The experience of Great Britain has shown, however, that such measures, though limiting the spread of infection will not eliminate the disease. The removal of the cause of the disease is required, and the essential cause is the unsatisfactory manner in which the people are housed.

In dealing with phthisis, as with all sanitary problems, it is necessary to remember that there are usually two distinct sides—measures of immediate urgency, in which may be classed the provision of sanatoria, etc., and measures which uproot the cause. The latter owing to financial and other reasons may have to be relegated to the future, but it is of importance, while making provision for the former, to keep them in mind with a view to their ultimate realisation.

#### INJURIES.

69. There were 8,113 deaths recorded, of which 4,581 were among males and 3,532 among females. The figures for the previous year were 7,670 and the mean of the preceding ten years was 7,125. History of Chief Diseases-Injuries. } SANITARY COMMISSIONER FOR THE GOVERNMENT OF BOMBAY. 19

The number of deaths registered annually as due to injuries since 1904 is shown below :---

	Year.			Number of deaths from injuries.		Year.	•		Number of deaths from injuries.
1904 1905 1906 1907 1908 1909	••• -•• ••• •••	•		6,333 3,586 6,830 6,799 7,109 7,029	1910 1911 1912 1913 1914 1915	••• ••• ••• •••		• • • • • • • • • • • • •	6,885 7,452 7,175 7,711 7,670 8,113
	To	tal .	•••	41,683	, .		Total	•••	45,006
	Me	an .	••[	6,948			Mean	•••	7,501

70. Deaths by sexes are arranged under the various heads and compared with those in 1914 in the following table :--

		1915.		1914.				
Cause	8.		Male.	Female.	Total.	Male,	Female.	Total.
Drowning Poisoning Hanging Wounding Wild beasts Sanke-bite Rabies Railway accidents Other causes	···· •·· •·· •·· •··	····	1,410 87 132 875 37 1,104 145 78 713 4,581	1,746 60 74 434 10 646 67 9 434 3,532	3,156 147 206 1,309 47 1,750 212 . 87 1,199 8,113	1,304 108 124 780 24 1,008 122 65 756 4,299	1,744 68 84 352 7 527 60 19 518 3,379	3,048 176 208 1,132 31 1,535 182 • 84 1,274 7,670

71. There was an increase of 215 in the deaths caused by snake-bite over the previous year's figures. The highest number of deaths occurred in Ratnágiri (271), Thána (178), Sátára (139), Kaira (109), Ahmedabad (105), Lárkána (83), while the lowest (5) was recorded in the City of Bombay.

There is always difficulty in identifying the species of snake responsible for the death and no information is available as to the number of persons bitten who recovered. Some indication as to the class of snake (chiefly) is afforded by a study of the interval clapsing between bite and death.

The following table gives the information for certain districts :---

	Distric <b>t</b> .			Number of deaths.	Under 6 hours.	Por cent.
Ratnágiri Sátára Sholapur Ahmednagar Poona Belgaum Dhárwár Bijápur Kánara	···· ··· ··· ··· ··· ··· ···	···· •·· ··· ···	•••• ••• ••• ••• ••• •••	87 07 31 35 47 47 36 26 14	21 53 29 23 29 35 25 18 7	24 54 93 66 62 74 69 69 50

It is probable that in Ratnágiri District, where over 24 hours elapse between bite and death in 70 per cent. of the cases, the common snake belongs to the viper class. In Belgaum, Dhárwár, Bijápur and Kánara Districts 37 out of 130 deaths were definitely ascribed to the cobra.

In the majority of instances no treatment was adopted : evidence of only three cases being taken to local dispensaries is forthcoming : in three instances Brunton's lancet was used.

72. 212 deaths were reported from rabies. The highest number (28) was reported from Sátára District. Am ong towns the highest number (10) was returned from Bombay.

73. There were 539 suicidal deaths (271 males and 268 females) against 531 (260 males and 271 females) in 1914.

The highest number of suicides were reported from Thána (65), Bombay City (59), Dhárwár (54) and Bijápur (48). Of the 65 deaths in Thána, 30 were the result of drowning, 33 hanging and 2 wounding; of the 59 deaths in Bombay City, 13 were the result of drowning, 5 hanging, 9 wounding and 32 poisoning; of the 54 deaths in Dhárwár, 24 were the result of drowning, 24 hanging and 6 poisoning; and of the 48 deaths in Bijápur, 21 were due to drowning, 24 hanging and 3 poisoning.

#### OTHER CAUSES.

74. 138,006 (70,900 males and 67,106 females) deaths were registered - as compared with 159,720 in 1914 and the decennial mean 133,877.

The number of deaths registered under this heading since 1904 is as follows:---

•	Year.			Number of deaths from other causes.		Year,			Number of deaths from other causes.
1904 1905 1906 1907 1908 1908	···· ··· ···		· · · · · · · · · · · · ·	144,800 132,666 142,478 124,575 124,275 128,495	1910 1911 1912 1913 1914 1915	••••		<b>**</b> *	1 49,735 130,871 162,143 133,815 159,720 138,006
		Total		797,289	1		Total	•••	874,290
		Mean	••••	132,881			Mean	•••	145,715

The death-rate was 7.05 against 8.15 in 1914.

75. In the Southern Registration District 106 deaths were recorded from measles against 1,303 in 1914: 81 were among children under 5. In the Gujarát Registration District 231 deaths were registered; of these 163 were in— Ahmedabad (84), Surat (45) and Broach (34)—towns. In Ahmedabad during November and December there was a fairly serious epidemic associated with broncho-pneumonia.

Out of the 231 deaths 207 were in children under 5.

76. The numbers of deaths from chief diseases occurring in each Collectorate by months are shown in annual Forms Nos. VII to XII. Sanilary Works<u>—</u> Civil.

#### SECTIONS VII and VIII.—No remarks.

### SECTION IX.

#### SANITARY WORKS-CIVIL.

77. One hundred and fifty-seven city and town Municipalities worked in Municipal Work. Mu

District and Gokarn and Ulvi in the Kánara Collectorate—were as usual appointed for short periods to deal with the sanitary conditions during seasons of pilgrimage.

The combined municipal income amounted to Rs. 1,24,87,579, of which a sum of Rs. 60,67,924 or 48.5 per cent. was expended on "public health and convenience"; an increase of Rs. 4,06,204 over the corresponding expenditure in the previous financial year. On water-supply, drainage and conservancy the expenditure was Rs. 34,43,269 or 27.57 per cent. The details of improvement in water-supplies and drainage are given in Appendix 1. The sanitary Board sanctioned the preparation of 4 new projects; 20 schemes of water-supply and drainage were either completed or made progress, and 56 others were under investigation. Deep borings for water were undertaken in 7 towns and for ascertaining rock foundations in 4 towns.

The extreme variations in climatic conditions must lead to great variations in the quality of waters supplied to towns from rivers, lakes and shallow wells. The object of every public health authority should be the issue of a water of uniform quality: this will not be attainable until by frequent analysis it is possible to ascertain the variations in quality, the reasons for variations and the success of any methods adopted for the purification of the water. The institution of laboratories for the routine examination of waters is an urgent public health requirement: a scheme with this object in view was submitted during the year.

In conservancy methods there is considerable room for improvement everywhere: some progress was made during the year in the disposal of waste matter, but little in the equally vital matter of collection. The Municipality of Surat acted on a personal suggestion to depute the Health Officer to Násik to study the system of night-soil disposal. Dr. Pinto adopted the system and by introducing certain modifications necessitated by local climatic conditions, made it such a success that Surat is now the centre for instruction of Municipal Officers in the Northern Division. Dr. Munsiff, the Deputy Sanitary Commissioner, has taken up the matter very energetically with the result that the system has been or is likely to be adopted in Broach, Dholka, Viramgám, Prántij, Godhra and Bulsár.

Thána Municipality has also commenced work on these lines.

In the Southern Division the chief Officers of Dhárwár, Hubli and Bijápur were met at Násik and the system explained. The local adoption is still under consideration.

The incidence of taxation per head of population decreased from Rs. 2-8-3 to Rs. 2-7-7 and that of income from Rs. 4-3-6 to Rs. 3-13-6.

The individual rate of contribution to the Municipal income varied as usual within wide limits from annas 4.2 in Yankanmardi in Belgaum District to Rs. 10.3 in Karáchi Town.

78. Under the scheme for the appointment of Health Officers and Sanitary Inspectors, a portion of whose salaries is borne by Government, first class Health Officers were employed during the year at Ahmedabad, Surat and Poona; one second class Health Officer at Broach and one temporarily at Pandharpur; and Sanitary Inspectors at Ahmedabad (5), Surat (4), Broach (2), Nadiád (1), Viramgám (1), Lárkána (1), Sukkur (2), Belgaum (1), Gadag-Bettigiri (1), Hubli (3), Bijápur (1), Dhulia (1), Násik (1), Poona (4), Sholápur (2), Ahmednagar (1) and Pandharpur (1).

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In addition the Municipalities of Karáchi and Hyderabad in Sind maintained independent Health Officers: but the gentleman employed in Hyderabad has no public health qualification.

At present these Health Officers and Sanitary Inspectors do not submit copies of their reports to Government through the Sanitary Commissioner. An account of their work and the difficulties experienced can only be given as a result of inspections by Deputy Sanitary Commissioners.

In Ahmedabad the improvement in the registration of births noted in a previous portion of the report is a great achievement, and is an index of activity and keenness on the part of the Health Officer.

Dr. Pinto in Surat has already done much in improvement of registration in the training of dais, and in the appointment of lady health visitors.

In Poona there is little progress to report as a result of the appointment of a Health Officer: this may in some measure be due to change in the incumbent, for, the permanent Health Officer accepted a temporary appointment in the Indian Medical Service.

Three changes in the health officership of Broach checked advance: the present holder of the appointment has been bound down for two years and improvement may be expected in the coming year. Pandharpur enjoyed the services of a Health Officer for a short time only.

The chief grievances of Health Officers lie in the lack of control over the public health staff, and the expense of maintaining a conveyance necessary for efficient inspection. Municipal Commissioners and Chief Officers, who must necessarily be the Chief Executive Officers of Municipalities, are empowered to depute control of subordinates, and it would help Health Officers if this power were exercised in the case of those subordinates with whom they must come in intimate contact in the course of their work. The question of conveyance allowance will appeal to the sense of justice and desire for efficiency on the part of Municipal Councillors, for it is only right that the Municipality should defray expenses necessitated by its service, and in a large town efficiency of inspection is only possible in the case of rapid transit between different portions of the town.

79. The 26 District Local Boards and 216 Táluka Local Boards dealt with District and Táluka Local Boards. a population of 18,062,041.

The income during the year ending 31st March 1915 was Rs. 84,74,757 against an expenditure of Rs. 84,42,463. The sum of Rs. 3,86,398, less than 5 per cent. of the income, was spent on water-supplies, drainage and other public health works. The incidence of income per head of population decreased from annas 7 and pies 7 to annas 7 and pies 3, while the incidence of taxation decreased from annas 3.2 to 2.10.

80. Under Government Resolution, General Department, No. 3617, of Ist May 1915, a grant of Rs. 62,000 was made for the improvement of village water-supplies and it was distributed as follows :--

		Rs.	1		Rs.
Northern Division Central Division	••••	20,000 - 20,000	Southern Division Sind Division	•••	10,000 12,000

The allotments were expended in making new tanks and deepening existing tanks; in constructing new wells, and boring operations; repairing old wells and in building water troughs and cisterns.

Owing to the greatly reduced rainfall in certain parts of Guzerát inquiries were made into the possibility of shortage in the water-supplies and the Deputy Sanitary Commissioner circulated instructions for the protection of scanty supplies with a view to warding off cholera during the spring of 1916.

81. Under Government Resolution No. 3965, dated 13th May 1915, the grant of Rs. 7 lákhs made by the Government of

Government of India grant of 7 lákhs.

grant of Rs. 7 lákhs made by the Government of India was distributed among the District Local Boards of the Presidency and Sind :--

a Field and Northern Division 1.89,000 Central Division 9,00,000 G			}	1		
Cited District #1.54.000 Northern Division 1.82.000 Central Division 2.08.000 Southern 7 res		Rs.	ts.	Rs.		Rg.
Karáchi        22,000       Ahmedabad        33,000       East Khándesh        41,100       Division.         Hyderabad        20,000       Kaira        36,000       West Khándesh        41,100       Division.         Sukkur        20,000       Fanch Maháls        25,000       Násik        29,200       Belgaum        36,000         Nawábshah        20,000       Broach        31,000       Ahmednagar        29,200       Bijápur        38,000         Thar and Párkar.       20,000       Surat        36,000       Poona        26,700       Kianara       15,00         Lárkána        28,000       Thána        21,000       Sátára        30,000       Kolába        19,00	Karáchi Hyderabad Sukkur Nawábshah Thar and Párkar. Lárkána Upper Sind Fron-	2,000         Ahmedabad            0,000         Kaira            0,000         Panch Maháls            0,000         Broach            0,000         Surat            8,000         Thána	33,000         East Khándesh            36,000         West Khándesh            25,000         Násik            31,000         Ahmednagar            36,000         Poona            21,000         Sátára	41,100 29,200 29,000 29,200 26,700 30,000	Belgaum Dhárwár Bijápur Kanara Kolába	30,000 38,000 29,000 15,000 19,000 25,000

\* Ealance in reserve with the Commissioner in Sind, Rs. 10,000.

The sums were incorporated in the general revenues and were expended mainly on the improvement of communications; aid was given to the equipment and maintenance of Medical and Veterinary dispensaries; to the repair and construction of wells and tanks; and to the provision of dharmashalas.

As a portion of the money is spent on the repair and construction of wells it may be possible in the future to devote a moiety of similar grants to the eradication of guineaworm by the conversion of step-wells into draw-wells. The distribution of guineaworm has received a great deal of attention during the past 7 or 8 years, and many suggestions for dealing with step-wells have been sent in. A remarkable instance of the benefit given by such a simple measure is furnished by the village of Palus in Sátára District, with a population of about 4,000. In the old days a very large percentage suffered from guincaworm, it is said about 50 or 60 per cent. The favourite source of water was a step-well. Through the foresight of a revenue official the step-well was converted into a draw-well about 20 years ago. Guineaworm has almost disappeared : there are now only 7 cases against as many hundreds in old days. The 7 cases existing now live in two houses (5 in one and 2 in the other), and draw water from a small step-well.

Palus is situated in an area in which guineaworm is very prevalent, and Dr. da Gama, the Acting Deputy Sanitary Commissioner, has made a close enquiry into the conditions existing in 11 towns and villages. The population of these villages is 42,814—21,900 being males and 20,914 females. At the time of the investigation there were 1,606 persons suffering or nearly 4 per cent. The incidence on males was nearly double that on females, and the largest number of sufferers was found among adults between 15 and 40.

The conversion of step-wells into draw-wells will not eradicate all ailments due to impure water, but, if properly done, will do away with guineaworm, and show the inhabitants of the affected areas the value of simple sanitary improvements.

Under the same Government Resolution noted above the sum of Rs. 25,000 was allotted to Sind for the improvement of communications :---Rs. 5,000 were given to Lárkána District; Rs. 4,000 to Sukkur; Rs. 3,500 each to Hyderabad and Thar and Párkar; Rs. 3,000 each to Karáchi, Nawabshah and Upper Sind Frontier.

82. Since 1908 improvement schemes have been completed in the following towns :--

Northern Division.	Central Division.	Southern Division.
Abmedabad. Broach. Bándra. Surat. Bulsár.	Faizpur. Bhusával. Násik. A hmednagar. Poona. Sbolápur. Pandharpur.	Belgaum. Dhárwár. Hubli. Alibág.

and Rs. 10,43,882-13-1 have been given by Government towards their execution. Schemes are in progress in the following towns :---

Northerp Division, Kalyáu. Oentral Division. Ahmednagar. Lhingár Panchgani. Ehusiyal. Southorn Division. Bijápa**r.** 

and grants totalling Rs. 67,720 have been sanctioned by Government.

Section I.Y.

83. Out of discretionary grants placed at their disposal the Commissioners

Discretionary grants. Discretionary grants. projects, such as pumps for wells, improvements to tanks, boring plant, playing fields for hostels, and grants to Sanitary Committees.

Overerowding in villages. 84. Considerable progress has been made in the extension of village sites.

In Bársi Táluka of the Sholápur District extensions have been effected in 3 villages, and 3 further proposals are under consideration. The principle generally adopted has been exchange of land for that which is acquired instead of making cash payments.

In Bijápur District acquirement and allotment of land has been completed or is in course of completion in 7 villages of Bágalkot, Indi, Sindgi and Muddebihál Tálukas. The Collector has issued orders to all Revenue Officers to investigate and report monthly on any need for extension in the villages visited by them.

In Sátára District 41 acres of Inám land valued at Rs. 3,640 have been acquired for the extension of the village site of Lonand village in Khandála mahál. The owners of the land are being compensated by an annual payment of Rs. 127.

In Kaira District land for extension has been acquired in two villages in the Nadiád Táluka, 4 villages in Borsad Táluka and 2 in A'nand Táluka. Steps are being taken for extension of 3 more village sites—2 in A'nand Táluka and 1 in Borsad Táluka.

In East Khándesh Rs. 10,024 have been taken from 7 villages for the acquirement of land for extension. In Yáwal Táluka the village of Bhalod has paid Rs. 3,805 : in Chálisgaon Táluka the villages of Munkhede, Hingone Sim, Uhambhurdi, Bhambre Budruk and Tambole Khurd have paid Rs. 2,242, Rs. 1,550, Rs. 1,150, Rs. 1,092, and Rs. 184 respectively: in Bhadgaon peta the village of Valvadi has paid Rs. 690.

In Kolába District proposals for extension of village sites are under consideration.

In Násik District preliminary steps have been taken with regard to 4 villages in Násik, Chándor, Dindori and Málegaon Tálukas.

85. The number of notified areas was 23 exclusive of 6 in the Thána Notified Areas. District created to exercise control over building operations.

The following statement shows the income and expenditure of these notified areas :--

District.		No.	Names of village and towns.	9	Income incl ing openin balance.	ıg	Expenditu	re.	Closing balance.	Remarks.
Thána	{	1 2 3 4 5 6 7 8 9 10	Andheri Borivli Ghatkupar-Kirol Malad Santa Cruz Vile Padle Goregaon Muland Eandioli Vikhroli	· · · · · · · · · · · · · · · · · · ·	Rs.         s.           17,959         0           \$,184         0           25,798         0           8,620         0           16,763         0           9,155         0	0 0 0	_,	0 0 0 0	Rs. 4, p. 3,622 0 0 2,042 0 0 18,678 0 0 3,569 0 0 10,929 0 0 6,446 0 0	
Broach Sholápur East Khándesh	· (	11 12 1 1 2 1	Bhandnp Bhayandar Palej Madha Kurduwadi Chalisgaon		3,641 14 4,256 5 22,473 14	10 2 8 8	2,909 8 2,261 8 2,205 5 16,792 7	2 11 5 9	2,504 0 S 1,380 5 3 2,051 0 3 5,681 6 11	
Násik		2 1 2	Pachora Manmad Nandgaon	•••	7,901 7	6	5,943 8	0	2,012 15 6	Informiation not received
Bijápur Rotnágíri Belgaum	••• ••• •••	1 2 1 1 2	Muddebihal Hungund Dapoli Bail Hongal Kbanapur			3 4 2 10	881 0 1,032 5 2,484 5 3,240 11 994 6	0 0 8 9 0	$\begin{array}{c} 1,817 \ 12 \ 10 \\ 424 \ 10 \ 3 \\ 2,637 \ 11 \ 8 \\ 3,522 \ 4 \ 5 \\ 819 \ 11 \ 10 \end{array}$	
Koláts Dhárwár Poons	 997	3 1 1 2 1	Chikodi Karjat Hangal Hirekerur Dhond		Mon G	25942	3,629 13 1,187 9 595 9 75 0 333 13	4 6 9 0 7	686 12 10 1,914 14 11 1,037 10 6 374 9 4 397 5 7	

Sanilary Works-Civil.

Several of these towns (*i.e.*, all notified areas in Sálsette, Muddebihál and Hungund in Bijápur District, Manmád and Nándgaon in Násik District, Chálisgaon and Páchora in East Khándesh District and Dápoli in Ratnágiri District) were inspected during the year and in some cases detailed reports were forwarded; action on the reports is being taken.

86. Three Sanitary Boards worked during the year in place of 2 in 1914: a Board replaced the Sanitary Committee at A'mod in Broach District with satisfactory results.

87. Excluding the district of Násik for which no information has been village Sanitary Committees. Village Sanitary Committees.

In the Southern Division comprising the districts of Belgaum, Dhárwár, Bijápur, Kolába, Ratnágiri and Kánara there were 62 Sanitary Committees, of these 12 were newly established, viz., 4 in Belgaum District (Konnur, Mamdápur, Wantmuri and Turkewádi), 1 in Bijápur District (Almel) and 7 in Dhárwár District (Unkál, Amargol, Shirguppi, Gajendragad, Tumminkatti, Kurtakoti and Dámbál).

Belgaum District.—Eighteen Sanitary Committees. The total income was Rs. 14,535-15-1, of which Rs. 5,477-6-4 were made by popular contribution. The expenditure came to Rs. 8,933-13-5 $\frac{1}{2}$ .

Bijápur District.—The total receipts of the 7 Sanitary Committees were Rs. 3,083-15-6 and the expenditure Rs. 3,635-14-10. Of the income, Rs. 1,031-8-11 were raised by popular contribution. It is proposed to replace the Sanitary Committee at Bádámi by a Notified Area Committee.

Kolába District.—Nine Sanitary Committees. The total popular contributions amounted to Rs. 559-10-0 out of the total income of Rs. 1,921-0-7. The expenditure came to Rs. 1,624-7-4. Increase in the number of Committees and the rates of popular contributions is proposed.

Ratnágiri District.—Two Sanitary Committees at Khed and Málwan. The receipts during the year come to Rs. 2,775-7-11, of which Rs. 1,177-14-8 were raised by popular contribution. The expenditure came to Rs. 2,891-13-6.

Dhárwár District.—The receipts of the 26 Sanitary Committees amounted to Rs. 14,365-14-10, of which Rs. 6,588-13-2 were raised by popular contributions. The expenditure and closing balances came to Rs. 13,523-7-8 and Rs. 12,011-14-1 respectively.

In the Sátára, Sholápur, East and West Khándesh, Ahmednagar, Poona and Násik Districts of the *Central Division* 56 Sanitary Committees worked, of these 7 were established during the year: 4 (Bhilawádi, Vasagade, Khánápur and Bagni) in Sátára District: 1 (Neri Budruk) in East Khándesh District; 1 (Natepute) in Sholápur District and 1 (Kánhur) in Ahmednagar District.

Sholápur District.—Three Sanitary Committees of which the receipts, expenditure and closing balances were Rs. 1,404-12-3, Rs. 549-5-0 and Rs. 855-7-3 respectively.

*Poona District.*—The receipts of four Sanitary Committees during the year came to Rs. 2,096-7-6 towards which Rs. 277-0-10 were raised by popular contribution. The expenditure and the closing balances were Rs. 1,045-5-9 and Rs. 1,051-1-9 respectively. The Sanitary Committee at Dhond was converted into a Notified Area in July 1915 and its closing balance was credited to he Accounts of the Notified Area Committee.

Sátára District.—The receipts of the 14 Sanitary Committees during the year came to Rs. 3,588-14-8, of which Rs. 2,359-13-8 were raised by popular contribution. The expenditure and closing balances were Rs. 4,989-5-11 and Rs. 2,066-10-2 respectively.

West Khándesh District.—Receipts of 9 Sanitary Committees were Rs. 7,510-3-6, of which the inhabitants contributed Rs. 3,065-5-0. Expenditure came to Rs. 8,079-13-8.

ь 2—7

East Khåndesh District.—Eleven Sanitary Committees. The total receipts amounted to Rs. 18,330-10-5, of which Rs. 7,390-8-0 were raised by popular contributions. The expenditure and closing balances came to Rs. 18,956-13-3 and Rs. 9,953-1-4 respectively.

Ahmednagar District.—The total of the 15 Sanitary Committees amounted to Rs. S,841, of which Rs. 3,579 were raised by popular contributions. The expenditure and closing balances were Rs. 9,545 and Rs. 5,749 respectively.

In Northern Division comprising the districts of Thána, Ahmedabad, Surat, Kaira and Panch Maháls, 71 Sanitary Committees are established, of which 4 were created during the year-2 (Mota and Saribujraj) in Surat District; 1 (Ajarpara) in Kaira District; and 1 (Dáhánu) in Thána District.

Thána District.—The income of the 6 Sanitary Committees amounted to Rs. 5,783-10-2, of which Rs. 1,607-3-0 were raised by popular contributions. The expenditure came to Rs. 3,788-15-5.

Ahmedabad District.—The receipts during the year of the S Sanitary Committees came to Rs. 7,113, of which Rs. 3,119 were raised by popular contribution. The expenditure was Rs. 5,320 and the closing balance Rs. 4,866.

Surat District.—The inhabitants of the 14 villages in which Sanitary Committees worked raised Rs. 4,820-3-3 towards total receipts during the year of Rs. 10,778-15-0. The expenditure came to Rs. 12,560-14-7.

Kaira District.—The expenditure of the 18 Sanitary Committees came to Rs. 9,638 against receipts during the year of Rs. 10,824-6-5 towards which Rs. 5,120-6-11 were contributed by the inhabitants.

Broach District.—The receipts during the year of the 20 Sanitary Committees came to Rs. 5,218-7-3 towards which the inhabitants raised Rs. 3,522-9-7. The expenditure was Rs. 5,196-2-0 and the closing balance Rs. 10,764-7-6.

Panch Maháls.—Five Sanitary Committees worked throughout the year and expended Rs. 5,878-15-10 out of receipts during the year of Rs. 6,279-3-3 towards which the inhabitants raised a contribution of Rs. 2,605-11-3. Closing balances came to Rs. 3,395-0-6.

One hundred and fifty-nine Sanitary Committees worked in *Sind*: of these 7 were formed during the year: 2 (Chachar and Rajo-Nizamani) in Karáchi District: 4 (Mena, Junaji, Mirokhan and Dadu) in Lárkána District and 1 (Virawale) in Thar and Párkar District.

Karáchi District.—The receipts of the 30 Sanitary Committees during the year came to Rs. 6,695-5-2, of which Rs. 3,770-8-11 were raised by popular contributions. The Annual Government grant-in-aid was supplemented by an additional grant of Rs. 2,560. The expenditure amounted to Rs. 9,025-5-11.

Hyderabad District.—The receipts of the 21 Sanitary Committees came to Rs. 18,571-2-7. The expenditure and closing balances were Rs. 10,041-1-2 and Rs. 8,530-1-5 respectively.

Navadbshah District.—The receipts of the 18 Sanitary Committees came to Rs. 13,303-13-1, of which Rs. 4,958-1-7 were raised by popular contributions. The expenditure and closing balances were Rs. 12,212-3-1 and Rs. 7,031-4-0 respectively.

Thar and Párkar District.—The receipts of the 23 Sanitary Committees during the year amounted to Rs. 25,753-13-2 and the expenditure to Rs. 12,646-4-4. The closing balances were Rs. 13,107-S-10.

Sukkur District.—The receipts, expenditure and closing balances of the 17 Sanitary Committees amounted to Rs. 13,730-7-11, Rs. 7,709-10-11 and Rs. 5,930-13-0 respectively.

Lárkána District.—Forty-two Sanitary Committees. The receipts during the year amounted to Rs. 13,254-0-2, of which Rs. 6,110-11-0 were raised by popular contributions. The expenditure came to Rs. 15,498-2-3. Sanitary Works-Civil. SANITARY COMMISSIONER FOR THE GOVERNMENT OF BOMBAY. 27

Upper Sind Frontier.—The population of the 8 villages in which Sanitary Committees were established raised Rs. 2,942-12-6 towards total receipts during the year of Rs. 16,022-5-9. The expenditure came to Rs. 5,908-13-0.

The average income of a Sanitary Committee is very small and is swallowed up by the expenditure on lighting, road repairs and a staff for keeping the village clean. Opinions may differ as to the proportion of income that should be spent on each head, but Sanitary Committees should bear in mind that their first duty lies in the cleanliness of the villages and their surroundings: when this has resulted, it will be time to look round for other improvements on which surplus funds can be expended.

From reports of Deputy Sanitary Commissioners and others it is clear that in many places the sanitary condition of the towns and villages has been improved. The chief difficulty in the attainment of uniformity in cleanliness lies in the absence of any one whose duty it is to supervise and direct the work of the scavenging staff. In the absence of funds such supervision must be in the hands of members of committees and the sanitary condition of a village is an index of the interest taken by individual members.

In many villages the improvement is appreciable, for instance in Dondaiche in West Khándesh District the Committee have taken steps to protect the water-supply and to guard the river beds : in several instances stepwells have been blocked up; this improvement is, however, much opposed in some parts of the district.

In Dhárwár District the Sanitary Committee of Chikenur are trying to improve the water-supply and take interest in the cleanliness of the village.

In Bijápur District the Sanitary Committees of Indi and Sindgi have done good work and have drawn up useful programmes for the coming year. The Sanitary Committee of Bágewádi has also done very well: this is one of the few towns in the Presidency where for many years an effort has been made to allocate definite sites for natural purposes: some success has resulted and in the programme for the coming year is the provision of a wall round the site reserved for women. The example of Bágewádi has been copied by the Sanitary Committee of Mangoli.

Ghoda and Manchar Sanitary Committees in Ambegaon peta of the Poona District have succeeded in making their villages clean and their attention has been directed by the Collector to the necessity for the destruction of prickly pear.

88. Associations are working in the districts of Dhárwár, Belgaum, District Sanitary Associations. Bijápur and Broach, and it is probable that one will be started at Surat. Much advice to Sanitary Committees and possibly help in supervision can be given by members of these Associations.

The Commissioner, Southern Division, held a conference on sanitary matters at Belgaum during July : several papers were read and lantern demonstrations were given : both were attended by appreciative audiences.

 S9. The year passed without the pilgrim centres being responsible for Pilgrim Centres. the cutbreak of a serious epidemic: the festival at Gokarn, however, was followed by the occurrence of 48 cases of small-pox in the village of Hichkod of the Ankola Táluka.

The Bombay Pilgrim Committee met during the year and visited the 9 principal places, and 5 important stations concerned with the railway traffic.

The Acting Deputy Sanitary Commissioner was present at Pandharpur during the Ashadi festival, and it was largely due to his efforts that the sanitary conditions showed such marked improvement.

The Tavra Kadod fair, last held in 1888, took place in Broach District this year. The fair lasted over a period of 5 weeks. Dr. Munsiff, the Deputy Sanitary Commissioner, gave personal attention to the sanitary arrangements.

No epidemic disease resulted. Nearly 60,000 pilgrims arrived, some from places so distant as Násik, Pandharpur and Cawnpore.

At Alandi and Bhima Shankar, the sanitary arrangements for pilgrims made under the direction and through the zeal of Mr. J. Rodgers, the District Deputy Collector, were excellent.

#### SECTION X.

90. The Deputy Sanitary Commissioners visited 611 towns and villages. Complete sanitary surveys were made of those towns which had not been visited for several years. They entered remarks in 32 village sanitary inspection books, while Inspectors of Sanitation and Vaccination wrote in 241 books. Special visits were made to enquire into epidemics, and notice is directed to the investigation into sand-fly fever in Navalgund Táluka, and into malaria in Hubli by Dr. D'Mello, and into plagne in Sholápur District by Dr. A. da Gama.

At the Belgaum Vaccine Institute much useful work was done on the possibility of cultivating the vaccine virus in the testicular tissue of rabbits, and into the possibility of producing a bacterially pure calf vaccine by the preliminary use of bacterial vaccines.

Dr. Mhaskar worked at the malaria investigation of Kánara District up to August. His report is a valuable one and will be submitted to Government in due course.

Captain Morison continued his investigations into the association of the water-supply with the annual epidemics of dysentery and diarrhœa in Poona. He has put the clarification of water by alum on a sound scientific basis, and by instituting the sterilization with chlorine of the Poona Cantonment and City water-supplies has been responsible for a great reduction in sickness and in the death-rate, especially of young children.

During the year the following changes have occurred among the officers of the Department.

Colonel Anderson, I. M. S. (retired), returned to take over the appointment of Deputy Sanitary Commissioner, Western Registration District.

Dr. R. D. Dalal, Deputy Sanitary Commissioner, Southern Registration District, went on special leave, and Dr. D'Mello was appointed to act in his place.

The Sanitary Commissioner was a member of the Pilgrim Committee and in addition visited over 50 towns for various purposes, such as the water-supply, selection of sites for schools, plague, and general sanitary advice.

F. H. G. HUTCHINSON, M.B., C.M., D.P.H.,

Poona, 3rd July 1916.

Major, I.M.S., Sanitary Commissioner.

### APPENDIX I.

### ANNUAL REPORT OF THE SANITARY BOARD, BOMBAY PRESIDENCY, FOR THE YEAR 1915.

During the year under report there was no change in the constitution of the Board,

Three meetings of the Board were held to consider water-supply and drainage schemes and the following important questions were dealt with :---

- 1) The report submitted by the Sanitary Commissioner for the Government of Bombay on the results of his experiments in connection with the experimental Sewage Installation.
- (2) The pollution of canal water used for drinking and the means available for preventing such pollution.
- (3) Appointment of a Consulting Engineering Chemist.
- (4) Note on the examination of waters by the Sanitary Commissioner for the Government of Bombay.
- (5) Question regarding the appointment of district health officers.
- (6) Valuation of water works and sewerage installations.
- (7) Appointment of a salaried secretary.
- (8) Procedure to be adopted in connection with the preparation of sanitary schemes.

During the year the following grants were distributed to local bodies for minor sanitary works from the grant placed at the disposal of the Board :---

				Rs.
Central Division		•••		1,960
Southern Division	•••	•••	•••	9,830
		Total	••••	11,790

The Board sanctioned the preparation of the following projects :--

- (1) Chálisgaon water-supply.
- (2) Shikárpur water-supply.
- (3) Shikárpur drainage.
- (4) Sukkur drainage.

2. The projects sanctioned by Government were as follows :---

				Rs.
(1)	Mátherán water-supply 1st stage	•••	•••	1,90,408
(2)	Pen water works	•••		<b>17,7</b> 15
(3)	Water-supply at Násik-Sanction to plan	is and estir	nates	
•••	in connection with	•••		14,244
(4)	Alandi water-supply	•••	•••	1,34,760
(5)	Purification works for the Central	Distiller	7 at	
. ,	Khánápur			33,574
(6)	Nandurbár water-supply	•••	•••	2,48,836
(7)	Installation of Paterson Filter Plant	at the P	oona	
• •	Cantonment water works			1,73,133
(8)	"V" Shaped drain in extension of the	existing I	oona	
	Cantonment drain	•••	•••	12,176
(9)	Revised plans and estimates for the e	extension of	the the	
	Ahmedabad water works	***		11,94,499
(10)	Improvements to Sukkur water-supply	•••	•••	4,36,256

3. Government were pleased to grant during the year a sum of Rs. 7,81,329 as grantin aid for Sanitary Works amongst the various Municipalities in the Bombay Presidency, the principal grants being as follows :--

Ra

				TAG
Ahmedabad water-supply		•••	•••	2,75,000
Alandi water-supply		•••		1,34,760
Lonávla water-supply			•••	56,000
Sávda Municipality—Sanitary Improvements (Loan)				20,000
$t_2 = 1ap$	_	-		

4. The following project was submitted to Government for sanction :---

 Ks.

 Ahmednagar Sewerage
 ...
 8,72,050

5. The following water-supply works were either in progress or completed during the year :---

#### Sind.

Karáchi.--Two pumping plants were installed and one mile in length of masonry conduit completed. Expenditure Rs. 1,09,476.

Hyderabad Sind Improvements.—The work, with the exception of the roofing of Shahakadam Tank and high service reservoir, was completed and handed over to the Municipality. Expenditure Rs. 38,567.

Sukkur.—Project for improvements to water works amounting to Rs. 4,20,222 was sanctioned by Government and its construction is held over pending provision of funds.

Jacobabad.-Municipal Tank rebuilt at a cost of Rs. 4,246.

#### Northern Division.

Ahmedabad.—Project for improvements to water works amounting to Rs. 11,04,499 was sanctioned by Government and the works in connection with jack well, manholes, fixing of Venturi Meter and pipe laying (5,742 feet) were completed. Expenditure Rs. 1,33,042.

Surat.—The work of fixing a Venturi Meter at Head Works was nearly completed and a water testing apparatus and Workshop erected. Expenditure Rs. 5,701.

#### Central Division.

Poona City.—Six thousand feet of new mains for High Level Service were laid and subsidiary water mains in connection with the two 21'' mains completed. Expenditure Rs. 10,613. During the monsoon season and until the close of the year the supply to the Poona City Settling Tanks was treated with chloride of lime. The cost of this treatment for the year amounted to Rs. 1,321.

Poona Cantonment.—Sterilization of water by means of chloride of lime was carried on at a cost of Rs. 2,250. The raw water was also chemically treated with alum at a cost of Rs. 8,080.

Londvia.—Works in connection with the masonry dam and gravitation main were completed and the construction of the service cistern was in progress. Expenditure Rs. 1,31,229.

Bársi.—Construction of service reservoir was completed and materials for laying gravitation main collected: Expenditure Rs. 2,33,930.

Sholápur.—All the works that were in progress last year, such as, erection of engine and boiler suction, relaying gravitation mains were completed, with the exception of the workshop for which machine tools have been purchased but no building provided. Expenditure Rs. 1,56,466.

Ahmednagar.--Works in connection with the earthen dam, valve tower, waste weir and service reservoir were completed. Expenditure Rs. 1,01,744.

*Karád.*—Works in connection with intake pipe, tunnels, settling tanks, filter beds and pure water tank were completed. The pumping machinery has been delayed on account of the war but delivery is expected shortly. Expenditure Rs. 54,077.

Sátára Camp.-Resetting of valves, etc., and special repairs to service reservoirs were carried out at a cost of Rs. 4,791.

#### Southern Division.

Bijapur.--Miscellaneous works, such as laying of branch mains, erecting new stand posts, &c., were completed. Expenditure Rs. 8,853.

*Hubli.*—Chaukidars' quarters near high service reservoir were constructed and modifications in distribution system carried out. Expenditure Rs. 4,671.

Rdjápur.—Miscellaneous works such as taking out, cleaning and relaying the pipes and other repairs were carried out at a cost of Rs. 5,485.

6. The following drainage works were either in progress or completed during the year:-

#### Sind.

Karáchi.-4.28 miles of gravitating sewers were laid in Civil Lines and Frere Town. Expenditure Rs. 90,990.

#### Northern Division.

Ahmedabad.-New boiler and feed pump installed and repairs to machinery were carried out. Expenditure Rs. 57,505.

#### Central Division.

*Poona Drainage.*—About 10,860 feet of branch sewers were laid, and 870 manholes, 42 flushing tanks and 15 ventilating shafts were constructed. About 4,000 house connections were made. The work of constructing percolating filters and sludge well was completed. Expenditure Rs. 1,35,629.

The question of the distribution of the effluent from the Poona City Sewerage Purification works has been referred by Government to a Special Committee.

7. An estimate amounting to Rs. 1,87,922 for the installation of a Paterson Filter Plant at the Poona Cantonment Pumping Station was sanctioned by Government. The work is under construction and good progress has been made towards completion.

8. Fifty-six projects were under investigation by the Sanitary Engineer to Government (27 by the Executive Engineer, Southern Sanitary District, 24 by the Executive Engineer, Northern Sanitary District, and 5 by the Sub-Divisional Officer, Sind Sanitary Sub-Division). Those nearing completion are :--

- (1) Uran water supply.
- (2) Improvements to Sátára water-supply.
- (3) Islámpur water-supply.
- (4) Nipáni water-supply.
- (5) Thana water-supply.
- (6) Borsad water-supply.
- (7) Dholka water-supply.
- (8) Godhra water-supply.
- (9) Hyderabad (Sind) Improvements to water-supply.

## Projects completed in the rough.

(1) Surat Sewerage.

- (2) Hyderabad (Sind) Sewerage.
- (3) Combined scheme for Belgaum City and Cantonment water-supply.

9. Borings for artesian water supplies were in progress at the following places :----

					Dep	th reached.
(1)	Broach	***	•••	•••	·	1,5 <b>35</b> feet
(2)	Nadiád		•••	•••		932 "
(3)	Daolera		•••			610 "
(4)	Gogha	•••				445 "
(5)	Khárághoda 3rd	bore				317 "
(6)	Khandála (Sátár	a District)	•••			100 "
(7)	Viramgaum	•••	•••			190 "
• •	0			***	•••	10V ,)

The water met with in the Nadiad and Kharaghoda bores was passed as potable.

Borings for ascertaining rock foundations in connection with water-supply schemes were in progress at the following places :---

(1) Godhra.

- (2) Kapadvanj.
- (3) Jalgaon.
- (4) Párola.

10. The services of the Analyst to the Sanitary Board were lent during the whole year to the Sanitary Commissioner for the Government of Bombay in connection with the special research work on the Poona waters.

11. The Mechanical Engineer to Government gave advice to the Executive Engineers concerned in designing suitable machinery for water-supply and drainage schemes. The pumping plants in charge of local bodies were thoroughly inspected by him during the year.

12. The Sanitary Engineer to Government carried out his annual tour throughout the Presidency including Sind and gave advice to the Local Bodies generally.

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H. O. B. SHOUBRIDGE, M. Inst. C. E.,

Secretary, Sanitary Board, Bombay Presidency

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#### APPENDIX II (a).

## ANNUAL REPORT OF THE HEALTH OFFICER OF THE PORT OF BOMBAY FOR THE YEAR ENDING 31st DECEMBER 1915.

#### I.-SUMMARY.

The following summary shows the inspection and disinfection work done in the Port of Bombay in connection with outgoing and incoming vessels as well as those lying in the harbour and docks during the year ending 31st December 1915.

950 vessels of all sorts with 203,880 crew and passengers were examined as against 1,099 vessels with 309,121 crew and passengers during the preceding year.

The clothing, bedding and other articles of 61,420 members of crews and passengers of outgoing and incoming vessels and of members of crews of vessels lying in the Port were disinfected. Of these 49,530 were Asiatic and African members of crews, third class or deck European and Native passengers and pilgrims who left the Port of Bombay for ports out of India and 11,890 were members of crews, passengers and pilgrims who arrived by vessels on which cases of infectious diseases had occurred during the voyage or while lying in the Port In addition to the abovementioned numbers 4,922 baggage coolies and stevedores' men were disinfected in order to enable certain vessels to work cargo for a few hours after medical inspection and disinfection of their crews and passengers.

36 vessels on which cases of infectious diseases had occurred were disinfected and 4 vessels which carried pilgrims to Jeddah were thoroughly cleansed and freed from rats, cockroaches, etc., by means of sulphur dioxide gas generated in a Clayton apparatus. Besides the outgoing pilgrimships 9 incoming vessels (including 2 pilgrimships), 44 outgoing vessels were also fumigated. 1,621 persons among whom cases of small-pox had occurred were vaccinated. In addition to this number 2,308 outgoing pilgrims were vaccinated by a special vaccinating staff lent by the Municipality under the direction of the Police Commissioner.

#### II.-OUTGOING VESSELS.

2. In accordance with the Outward Plague Inspection Rules published under Notifications, General Department (Plague), No. 3892-P, dated 14th June 1899, and No. 2671-P, dated 2nd October 1912, which were superseded by Government Notification, General Department, No. 5331, dated the 6th July 1915, the medical examination of all vessels, crews and passengers proceeding to ports out of India, and the disinfection of the clothing and bedding of all Asiatic and African members of crews, of all passengers travelling third class who were not provided with berth accommodation, of fourth class and deck passengers and of all Asiatic and African servants who sailed on such vessels (with the exception referred to in para. 4 below) were carried out immediately before they left the Port of Bombay.

3. 791 outward bound vessels (including Asiatic sailing craft) with 78,479 crew and 84,246 passengers or a total of 162,725 persons were inspected as against 913 vessels with 88,495 crew and 167,415 passengers or atotal of 255,910 persons during the preceding year.

4. The bedding, boxes and suspected articles of clothing, etc., of 34,183 Asiatic and African members of crews and of 15,134 third, fourth class and deck passengers and pilgrims who sailed on steamers bound for ports out of India were disinfected. In addition to this disinfection, the clothing, bedding and other effects of 213 members of crews who sailed in Asiatic sailng craft for ports out of India were also disinfected.

5. A few vessels had cases of infectious diseases among their crews and passengers within 12 days prior to their departure from this port. The Bills of Health granted to these mentioned the diseases which had occurred on board as well as the measures which had been taken before their departure for the prevention of the spread of infection on board or its introduction at other ports.

#### III.--INCOMING VESSELS.

6. In accordance with the rules prescribed under the Epidemic Diseases Act, 1897, and the Indian Ports Act III of 1901, *vide* Notification, General Department (Plague), No. 1645-P, dated the 12th March 1900, Notification, General Department, No. 625, dated the 1st February 1905, subject to the exceptions made in Government letter, General Department (Plague), No. 2125-P., dated the 31st March 1900, which were superseded by Governmet Notification, General Department, No. 5331, dated the 6th July 1915, medical

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inspection and disinfection of vessels which were actually infected or suspected to be infected were carried out. All pilgrimships and all vessels which arrived from East African Ports were also inspected on arrival.

7. 146 incoming vessels of various kinds with crews aggregating 13,890 persons and 26,601 passengers were thus inspected during the year. Of the 146 vessels inspected 21 were found to have had cases of infectious diseases on board at the time of arrival or during the voyage. Four were vessels from East African Ports with 475 crew and 1,300 passengers, among whom 21 cases of jigger had occurred. The cases were removed to the Jamsetji Jijibhoy and Arthur Road Hospitals for treatment. The clothing and bedding of the passengers were thoroughly disinfected before they were allowed to proceed to their homes. The clothing and bedding of the crew were also disinfected. One was a vessel from Jeddah with 111 crew and 1,296 pilgrims among whom 1 case of small-pox had occurred. The small-pox patient was removed on arrival here to the Arthur Road Hospital for treatment. The effects of the pilgrims were disinfected before they were made over to the Protector of Pilgrims for despatch to their destinations up-country. The vessel was disinfected the bedding and effects of erew being separately disinfected. The remaining 14 vessels arrived from other ports with 2,509 crew and 3,079 passengers among whom 2 cases of small-pox, 21 cases of meales and 8 cases of chicken-pox had occurred. The vessels and the clothing and bedding of the crew were disinfected.

#### IV.—INFECTIOUS DISEASES ON VESSELS ABBIVING AND DEPARTING AND IN THE HARBOUR AND DOCKS.

8. Tabular Statement No. 1 gives the number of cases of infectious diseases which occurred on vessels arriving, departing and in the harbour.

It will be seen that 83 cases occurred on vessels arriving as follows :---3 cases of small-pox 52 cases of measles, 7 cases of chicken-pox and 21 cases of jigger.

At the inspections of crews and passengers of outgoing vessels three cases of small-pox were detected. One case of chicken-pox which was found in a convalescent stage among onward bound passengers was allowed to continue his voyage. Five cases of small-pox and one case of scarlatina were reported to have been landed at Aden from certain ships which arrived there from Bombay.

I case of plague, 12 cases of cholera, 13 cases of small-pox, and 8 cases of chicken-pox occurred on vessels including Asiatic sailing craft lying in the harbour and docks.

9. Tabular Statement No. 2 gives separately details of infectious diseases on vessels in the harbour and docks. The clothing and bedding of the crews of these vessels aggregating 664 persons were disinfected. All these vessels were throughly disinfected. The vessel on which a plague case had occurred was also thoroughly fumigated.

#### V.-DISINFECTION AND FUMIGATION OF SHIPS.

#### 10. During the year under report 93 vessels of all sorts were disinfected and fumigated.

11. Of the 93 vessels referred to in the foregoing paragraph the fumigation of 57 vessels including 4 outward and 2 inward pilgrim ships was carried out by means of the Clayton process under the direction of the Port Health Officer. 657 dead rats and innumerable cockroaches were found on these vessels after fumigation. In addition to this number the British India Steam Navigation Company had 19 of their vessels and 2 outside steamers fumigated by their own apparatus under the supervision of the Port Health Staff. This number is not included in Tabular Statement No. 1.

12. The Port Disinfection Station received every Monday clothing and bedding from various hospitals for disinfection. 527 bundles containing such clothing and bedding were disinfected as against 626 during the previous year. 1,875 blankets were also disinfected during the year at the request of the Senior Marine Transport Officer, Bombay. 4,922 bag-gage coolies to work cargo on outward bound vessels after obtaining Bills of Health were disinfected at the request of their Commanders and Agents.

#### VI.-GENERAL HEALTH OF THE SHIPPING.

13. During the year under report 1,168 persons connected with the shipping were admitted into the various hospitals in the city. The St. George's Hospital admitted 410 European patients, of whom 10 died, 384 were discharged cured and 16 remained under treatment after the 31st December 1915. The Jamsetji Jijibhoy Hospital admitted 245 Asiatic patients, of whom 15 died; the Gokuldas Tejpal Hospital 427 Asiatics of whom 59 died; and the Arthur Road Hospital 86 Asiatics, of whom 7 died and 79 were discharged cured.

14. No deaths occurred in connection with the cleansing of bilges of ships during the year. There were 252 minor accidents on board of vessels which were lying in the harbour or docks.

#### VII.-RED SEA PILGRIM TRAFFIC.

#### A .- Outward Pilgrim Traffic.

15. In accordance with the Government of India's Notification, Home Department Sanitary), No. 1606, dated the 13th July 1908, and Government Resolution, General Department, No. 4361, dated the 18th August 1909, and Government of India's Notification, Department of Education (Sanitary), No. 635, dated Simla, the 24th April 1912, reproduced in Bombay Government Notification, General Department, No. 2759, dated 30th April 1912, the Port of Bombay was open for the embarkation of Mubammadans going on pilgrimage to Mecca viâ Jeddah. Before the pilgrims embarked at Bombay the ships were thoroughly cleansed and freed from rats by means of the Clayton process. The pilgrims were subjected to a very careful medical inspection and their clothing and bedding to a thorough disinfection before they were allowed to embark.

16. The names of the ships, the numbers of pilgrims carried by them and the dates on which they left Bombay for Jeddah are given below :---

-	Name of Vess	o <b>l.</b>	•	No. of pilgrims sailed.		Date of Departure.
	S.S. "Jehangir" S.S. "Hejaz" S.S. "Akbar" S.S. "Sardar"	••• ••• •••	•••• ••• ••• •••	372 669 768 623 2,432	•••	26th August 1915. 8th September 1915. 18th do. 1st October 1915.

17. It will be seen that 2,432 pilgrims left during the season as against 11,922 in the previous year.

18. The classification of the pilgrims is as follows :----

-		10	
	14	Bombay City.	1 Mauritius.
	67	Bombay Presidency (including	13 Chinese Territory.
	47	Sind). Madras Presidency and Malabar.	172 Afghanistan.
	95	Bengal Presidency.	2 Baluchistan.
	1,496	Eastern Bengal and Assam.	8 Persia.
	90	United Provinces and Oudh.	92 Russian Territory.
	208	Punjab and North-West Fronter.	19 Arabia.
•		Central Provinces.	24 Java. 2 Nepal State.
		Ceylon (British Colony).	1 Straits Settlements.
		Native States.	11 Unclassified.
1	2,087		345
	<u> </u>		

Total ... 2,432

19. 2,308 outgoing pilgrims were vaccinated before starting by a special staff placed under the Police Commissioner by the Municipality. Besides these, some pilgrims from other Provinces and Native States had been vaccinated before leaving their homes for Bombay. It is thus probable that nearly all the pilgrims had been persuaded to voluntarily undergo vaccination and, considering that most of these were illiterate and many fanatical, it reflects the greatest credit on the Pilgrim Department under the Commissioner of Police and others who aided in persuading so large a percentage to avail themselves of the measure.

20. The pilgrim Observation Camp at Perim was not opened during the year 1915 as per Government Order, General Department, No. 6923, dated 6th September 1915, and No. 8785, dated 15th November 1915.

21. From the medical diaries of the doctors in medical charge of pilgrim ships it appears that there were 4 deaths on board these ships between Bombay and Jeddah. The causes were old age, dysentery and heart disease.

22. During the season under report no doctor was appointed to the medical charge of a pilgrim ship unless he was in possession of either a degree, or at least the license of a recognized Indian University, or the qualification of a Military Assistant Surgeon and had his name and qualifications registered in the United Kingdom or in India in accordance with the Government of India Notification, Department of Education (Sanitary), No. 14, dated the 7th January 1915.

#### B.-Inward Pilgrim Traffic.

23. During the year under report, 4,093 pilgrims, including a number who left Bombay in the previous year's Haj, arrived from Jeddah in 8 vessels. The names of the ships and the number of pilgrims brought by each vessel as well as the number of cases of infectious diseases which were found among the pilgrims on arrival in Bombay are tabulated in Statement No. 3 which is appended to this report. 24. The total number of deaths which occurred at sea among the returning pilgrims was 38. The chief causes were old age, general debility, dysentery, diarrhoa and bronchitis.

25. One pilgrim ship had during her voyage from Jeddah to Bombay I case of small-pox. The patient was removed to the Arthur Road Hospital on arrival at Bombay. 1,296 pilgrims among whom the case occurred had their clothing and bedding disinfected before they were handed over to the Protector of Pilgrims for despatch to their homes. The effects of 111 members of the crew of the infected ship were also disinfected.

#### VIII.-SANITABY STATE OF THE HARBOUR AND FORESHORE.

26. The sanitary state of the harbour and of the various bandars, basins and docks was fairly satisfactory.

#### IX .- CHOLBRA, SMALL-POX AND PLAGUE IN THE CITY OF BOMBAY.

27. During the year under report 16 deaths from cholera, 359 deaths from small-pox and 599 deaths from plague occurred in the City of Bombay as against 221 from cholera, 252 from small-pox and 2,941 for plague during the preceeding year.

#### I.-ESTABLISHMENT.

28. The undersigned was in charge of the Port Health Department during the year under report.

29. The following list shows the names of the Medical Officers and subordinates and of the members of the Sanitary Police and clerical staffs who did duty under the Port Health Officer during the year :--

Names.			Period of Service.
(1) Medical Stoff.			Y. m. d.
Dr. (Miss) S. Smith Sub-Assistant Surgeon B. M. Bhatt Do. do. F. H. Anklesaria Do. do. Z. M. Sheikh	•••• ••• •••	•••• ••• •••	1 0 0 1 0 0 1 0 0 1 0 0
(2) Sanitary Police Staff.	• •		
Mr. A Dixon, Inspector ,, W. R. Marshall, Sergeant ,, G. Beldon, Sergeant ,, H. G. Lewis, Sergeant (for Filgrim Season)	••••	•••	1 0 0 0 3 15 0 8 15 0 1 12
(3) Clerical Staff.			· •
Mr. Ramrao G. Kamalakar, Head Clerk " Shamrao S. Dhurandhar, Second Clerk " Dattatraya V. Gokhale, Third Clerk " Dattatraya N. Ratanjankar, Acting Third Clerk.	  	· ···	1 0 0 1 0 0 0 11 0 0 1 0

30. In addition to the abovementioned Medical Staff the services of a Commissioned Medical Officer had to be engaged on several occasions when work was heavy, particularly in connection with the simultaneous departures of numbers of troop-ships. An extra Lady Doctor had also to be engaged from time to time.

31. The Medical, Sanitary Police and Clerical Staffs and the members of the Launch Disinfection and Menial Establishments carried out their respective duties with energy and zeal and to my entire satisfaction.

32. Moulvi Abdulla Ahmed, the Protector of Pilgrims, Mrs. M. Lennon, the Lady Superintendent of Pilgrims, Mr. H. M. Robottom, the Inspector of the Preventive Service, and the Dock Police under Superintendent C. Priestley rendered much help to the Port Health Staff, while carrying out the inspection and disinfection of pilgrims and in connection with their despatch from the Disinfection Station to the steamers by which they travelled.

33. I am also indebted for valuable assistance in the embarkation of pilgrims and otherwise to Mr. A. R. Bennett, Assistant Collector of Customs, who gave much of his time in order to help in securing harmonious working between the different departments concerned.

34. The shipping agents and commanders of vessels, as a rule, observed the regulations and carried out cheerfully the orders framed in connection with the Paris Sanitary Convention.

W. E. JENNINGS, M.D., D.P.H.,

Bombay, Port Health Office: Town Customs House, dated 6th March 1916. Lieut.-Colonel, I.M.S., Health Officer of the Port.

## TABLE No. 1.

9

				Number					Disease	es and a	number	of eac	b case.	
Vessels including country cruit.		Number of vcssels inspect- ed.	persons inspected	of Asiatic crew and 3rd class or deck passengers dis- infected.	Numb vesse Dis- infeoted.	Funi-		Pingue.	Cholera,	Small-pox.	Measles.	Chicken-pox.		Scarlatina.
1915.				•										
Entered		146	40,491	11,226	21*	9			•••	3	52	7	21	
Left		791	162,725	49,530	2	48	$\int 1,621$			8	•••			1
In harbour during the year		13	661	604	13		2,308	1	12	13		8		
Totat		950	203,880	61,420	36	57	3,929	1	12	24	52	15	21	1
Total for 1914		1,099	309,121	80,658	39	68	9,255	• 6	9	74	9,	5		4

The following tabular statement gives a summary of the shipping of the Bombay Port and the work in connection therewith for the year ending 31st December 1915 :--

\* Two of these vessels sailed shortly after arrival for ports out of India.

## TABLE No. 2.

The following table includes all steamers, square-rigged vessels and Native sailing craft which became infected while lying in the Port of Bombay during the year 1915 :---

			persons attack	ber of who were ed with	Total	To	Number				
,	Months.			tious at the • ers and cks.	number of infected vessels.	Plague.	Cholera.	Smali- pox.	Measles.	Chicken- pox.	of crew dis- infected.
	•		Plague,	Cholera.					} .	}	
	1915.				-						· · ·
January	•••			•••	2	· •••		1	•••	7	124
February	•••	•••		•••	1	•••	•••	1	•••		143
March	· . ···		•••	12	6	•••	•••	8	•••	1	326
April		•••	•••	•••	2	***		2	•••	· • •	•••
May		•••	•••	•••	1	1		***	•••	•••	***
June	•••	•••	•••		1	***		1	•••		71
July	•••	•••	•••	•••		•••	•••	•••		••••	
August	***	•••			•••	•••		•••	•••	•••	*** .
September	•••	•••			••••	•••	•••	•••		•••	
October	***	•••	•••		•••	•••	•••	***	•••		•••
November	•••	•••	•••	•••		· • • •	•••	•••	•••	•••	•••
December	•••	•••	•••		•••	••••		. ••• ′	•••		***
	Total			12	13	1	•••	13		8	664
	Total for 1914	•••	i	· · · · ·	13	3	9	4	4		651

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## TABLE No. 3.

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Statement show	ving the num by	nbe <b>r o</b> f pil vessels du	grims w uring the	ho return 9 year 19	ned to Bo 15.	mbay from	m Mecca
· · · ·	1		1	1		1	

2 S.S 3 S.S 4 S.S 5 S.S 6 S.S	" Islami " , " Bahrein " , " Akbar " , " Lawoe "	•••	4th do.		pilgrims inspected.	during voyage.	On arrival.	During voyage,	÷
2 8.8 3 5.8 4 8.8 5 8.5 6 5.6	, "Bahrein" , "Akbar" , "Lawee"	•••	4th do	1	586	)			÷
3 S.S 4 S.S 5 S.S 6 S.S	". "Akbar" ". "Lawoe "			1.	000	4			
4 <i>S.S.</i> 5 <i>S.S.</i> 6 <i>S.S</i>	. " Lawee "	1	•	80	583	8			1
5 5.5 6 5.6			30th do	. <b>11</b> 1	1,296	80	1		I case of small-pox lande at Bombay.
6 5.5		•••	16th February	- 84	134	1			}
	. "Koweit"				101	1 1	•••		
	"Koweit"			103	650	4			
ļ				1	1	1			i.
8 8.5	. "Jehangir"		3rd December	134	302	1			
			•	763	4,093	38	1		
ļ		•••• •••	16th November . 18th do.	103 81 134	650 371 502	4		 	

## APPENDIX II (b).

## ANNUAL REPORT OF THE HEALTH OFFICER OF THE PORT OF KARACHI FOR THE YEAR ENDING 31st DECEMBER 1915.

#### I.-- OUTDOING VESSELS.

During the year under report 423 steam vessels outward bound for Ports out of India were inspected by the Health Officer of the Port and were given Bills of Health as against 432 during the preceding year.

Of this number 189 vessels were proceeding to Aden, the Red Sen and Europe, and 234 to other Ports out of India including the Persian Gulf.

Bills of Health were also given after inspection to 462 country boats, as against 289 during the preceding year.

The native crews and deck passengers of all steamers and country craft proceeding to Ports out of India were medically inspected, their boxes scrubbed and finally rinsed out with a solution of perchloride of mercury, and their bedding and clothing disinfected by steam in the Equifex Stoves at the Port Health Disinfection Station, Kiamari, immediately before their departure from the Port of Karáchi.

#### II.-INCOMING VESSELS.

Nineteen steam vessels were inspected for the existence of infectious disease, as against fifty-three during the preceding year.

Of these 19 steamers, 1 steamer arrived from East Africa, and the remainder hailed from various other ports.

No country boats arrived from East African Ports during the year under report.

#### III.-SYNOPSIS OF INSPECTION AND DISINFECTION PERFORMED.

				Vessels.		Crews and passengers.				
			Steamers.	Country boats.	Total.	Steamers.	Country boats.	Total.		
Incoming	•••	¢	19		19	7,302		7,302		
Outgoing	•••	•••	4.23	462	<b>S</b> 85	102,231	6,433	108,664		

Of the 115,966 crews and passengers who were medically inspected on their arrival at, or departure from, the Port of Karáchi, 44,631 crews and passengers also had their bedding and clothing disinfected. The corresponding figures for last year were 125,275 and 45,908, respectively.

#### IV .--- MISCELLANEOUS DISINFECTION.

On several occasions during the year the clothing and bedding of patients suffering from infectious discase as well as the clothing and bedding of "contacts" were received for disinfection from the Epidemic Diseases Hospital, the Civil Hospital, and other Institutions in Karáchi, also from private individuals, and were duly disinfected by steam in the "Equifex Stoves" at the Port Health Disinfection Station, Kiamari.

## V.-P. & O. MAIL PASSENGERS.

Three hundred and three Saloon passengers proceeding to Europe vid Bombay were medically inspected on shore at Karáchi and given passes for direct transhipment to the P. & O. Mail Steamers at Bombay. The corresponding figure for last year was two hundred and twenty.

#### VI.-PLAGUE.

No cases of this disease were detected during the year.

#### VII.-CHOLEBA.

## No cases of this disease were detected during the year.

#### VIII.-SMALL-POX.

Two cases of small-pox were removed from incoming vessels to the Epidemic Diseases Hospital, *viz.*, one from the S. S. "City of Paris" on the 19th March 1915, and the other from the S. S. "Nevara" on the 30th April 1915. The usual precautionary measures were carried out on board the steamers concerned on their arrival, and the crews of both these steamers were re-vaccinated before their departure from the Port of Karáchi.

#### IX .- CUICKEN-POX.

On case was removed to the Epidemic Diseases Hospital from the S. S. "Nordfarer" on the 25th March 1915, and the forecastle occupied by the patient (an Indian fireman), as well as the clothing, bedding and boxes of the crew were duly disinfected.

#### X.-MEASLES.

One case occurred on board the S. S. "Akbar" lying in the harbour; the patient (a Tally Clerk) was removed to the Epidemic Diseases Hospital for treatment, and the usual precautionary measures (redisinfection, etc.,) were duly carried out.

#### XI.—PAROTITIS (MUMPS).

During the year seven cases of Mumps (all of which occurred among Indian firemen) were removed for treatment to the Civil Hospital from the undermentioned hired transports, viz, two from the "Egra," three from the "Basilan," and two from the "Erinpura." The forecastles, as well as the clothing, bedding and boxes of the crews of all these transports were thoroughly disinfected before re-embarkation of troops.

#### XII.-JIGGER.

#### No cases of this disease were detected during the year.

XIII.—SIEEPING SICKNESS.

#### No cases of this disease were detected.

#### XIV .---- TYPHUS FEVER.

No cases of this disease were detected during the year.

#### XV.-CASES OF OTHER DISEASES DETECTED.

During the year under report ten cases of illness, of all sorts (viz., malaria, entric fever, pneumonia, etc..) were detected during the course of the usual Medical Inspection of crews and passengers before embarkation, and were sent to the Civil Hospital, Karáchi, for treatment.

#### XVI.-DEATHS FROM OTHER DISEASES REPORTED ON BOARDSHIP.

During the year under report, nine deaths from various diseases (e. g., pneumonia, bronchitis, phthisis, substroke, heart-failure, etc.,) were reported as having occurred on board of vessels either in Karáchi Harbour or during the voyage to Karáchi.

#### XVII.-EMIGRANTS.

During the year under report thirty-nine Emigrants proceeding to Mombassa, East Africa, vid Bombay, were medically examined by the Health Officer of the Port, as Medical-Inspector of Emigrants, and given certificates that they were in a fit state of health to undertake the voyage to East Africa, as required in section 65 (1) of the Indian Emigration Act of 1908.

#### XVIII.-RED SEA PILORIM TRAFFIC.

Owing to the abnormal shipping conditions brought about by the war, no pilgrimships sailed from, or returned with pilgrims to, the Port of Karáchi during the year under report.

#### XIX.-PILGBIM CAMP.

About 500 intending pilgrims came to Karáchi from time to time during the Haj Season which lasted from the middle of May to the end of September 1915, and of this number about

100 availed themselves of the accommodation in the Pilgrim Camp. But, inasmuch as no steamers were forthcoming to convey them to the Hedjaz, the pilgrims were induced, in their own interests, to postpone their pilgrimage and return to their native places till normal conditions were restored.

#### XX.-CLAYTON APPARATUS.

During the year three vessels were disinfected (fumigated) by means of the Clayton Apparatus before sailing hence for ports out of India, as shown in the following table :---

	No.	Name of Steamers.		Date of Fumigation.	•	Remarks.
-	. 1	S. S. "Querimba"	•••	7th August 1915	•	At the request of the Agent.
	2	S. S. "Sealda"	•••	16th October 1915	•	Do.
	3	A. Government vessel	•••	31st December 1915	•	Do.

#### XXI.-SANITARY STATE OF THE HABBOUR.

The sanitary state of the Harbour was fairly satisfactory.

#### XXII.-PORT HEALTH ESTABLISHMENT.

During the year under report Assistant Surgeon G. de S. Fylinto, L. M. & S., acted as Health Officer of the Port from 1st January to 14th June 1915, on which date the undersigned, having returned from furlough, resumed charge of the Port Health Department.

The following list shows the names of the Medical Staff who did duty under the Health Officer of the Port during the year :--

			Period of service.		
	·		Y. m. d.		
•••	•••	•••	090		
	•••	•••	0 3 0		
			100		
•••	•••		0 <b>11 0</b>		
•••			0 1 0		
	•••	••• •••	··· ·· ··		

Assistant Surgeon G. de S. Fylinto, L. M. & S., was transferred to Civil duty at Sávantvádi (Bombay Presidency, on 1st October 1915, and Assistant Surgeon S. Joseph, L. M. & S., was appointed in his place.

Mrs. Lake proceeded on one month's privilege leave from 19th November to 18th December 1915, and Mrs. Lobes was appointed to act for her.

The above Medical Staff carried out their responsible duties with tact and efficiency.

The Clerk, Mr. Mahomed Jaffer Sheikh Ibrahim, also performed his duties conscientiously and efficiently.

The office peons and all the members of the Disinfection Station, Steam Launch and Clayton Apparatus establishments worked satisfactorily.

Karáchi, 20th January 1216.

H. CAREY. VENIS, L.R.C.P., L.R.C.S., D.P.II., Health Officer of the Port, Karáchi.

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12-4 ap

## APPENDIX II (c).

## ANNUAL REPORT OF THE HEALTH OFFICER OF THE PORT, ADEN, FOR THE YEAR 1915.

#### I.-GENERAL REMARKS.

Shipping.-1,125 steamers and rigged vessels were granted bills of health during the year.

Of the above number 876 were sailing under the British flag and 249 under Foreign flags.

Bills of health issued to vessels having had cases of infectious diseases on board were annotated according to the circumstances of each case.

1,027 bills of health were issued to dhows during the year.

The accompanying Table A gives a list of vessels on board of which infection diseases existed on arrival. In the case of these vessels all sanitary precautions were taken to prevent the spread of the disease.

The following cases of infectious diseases were landed from the shipping :-

Small-pox	•••	•••		13
Scarlatina	•••	•••		1
Chicken-pox		•••		8
Measles			•••	5
Jigger	•••	•••		15

#### II .- PILGRIM TRAFFIC.

. Nine ships carrying pilgrims passed through this port during the year; all were medically inspected but they were not granted pratique.

	Year.	Number of ships.		Number of pilgrims.	Number of deaths.	Remarks.
1915	•••	•••	9	<i>5</i> ,555	7	

#### III .- TABLE A.

List of vessels on board of which cases of infectious diseases existed on arrival at this port, during the year ending 31st December 1915 :---

Date.	Name of Ship.	Nationality.	From	То	Number of cases.	Remarks.
						¢.,
• • • • • •	A hired transport	British		•••••	1 sp	Landed.
17th January 1915.	S.S. " Kaisar-i-Hind "	Do	London	Bombay	1 mls	On board.
24th ,, ".	"" Merkara" …	Do	Calcutta	London	1 mls	D0.
26th ,, ,,	1, "Arabia"	Do	Bombay	Do	1 cp	Do.
30th ,, ,, ,,	», '' Baro! si ''	Do	Colombo	Do	1 sp. ,	Landed.
th February 1915 .	,, "Falcon"	Do	D'Jibouti	S. Coast	1 sp	Do.
sə əs əş •••	""Tadjoura"	French	Do	D'Jibouti	1 cp	Do.
4th March 1915	"" Nirvana" …	British	Calcutta	London	1 sp	Do.
33 97 93	" "Cluny Castle".	Do	London	Natal	9 mls	On board landed
7th 29 20 40.	""Morea"	Do	Do	Sydney	1 ger.	On board.
11th " " …	,, "Tadjotra"	Frenc 1	D'Jibouti	D'Jibouti	1 sp	Landed.
16th " " " …	A War Ship	British	· • • • • •		1 ср. 1 ср	On board.
17th " "	S.S. "Clan Macaulay".	Do	Calicut	London	1 cp	Landed.
20th ", ",	" "Kandahar"	Do	Calcutta	New York	1 cp	Do.
33 33 3 <b>3</b>	", " Porto di Adalia"	Italy	Mombassa	Assab	1 s -p. 9 jiggs,.	Do.

Date.	Name of Ship.	Nation ality.	From	То	Number of cases.	Remaks.
26t March 1915	S.S. " Budrie "	British	Massawa	Karáchi	1 c,-p	On board.
*****	A transport	Do	*****	******	4 mls,	Do.
28th March 1915	S.S. " Kaisar-i-Hind "	Do	London	Bombay	1 mls	Do,
	A Hospital Ship	Do		*****	1 вр	Landed.
*****	A War Ship	Do	While in the	Harbour	1 cp	D0.`
18th April 1915	S.S. "Moldavia"	Do	London	Sydney	1 ger. mls.	On board.
20th ,, ,,	" "Kaisar-i-Hind".	Do	Bombay	London	1 mls	Do.
25th ", " …	", "Caledonia"	Do	London	Bombay	1 ger. mls.	Do.
27th ", "	,, "Chapra"	Do	Colombo	London		Landed.
3rd May 1915	,, "Jelanga"	Do	Bombay	Bombay	1 sp	Do.
6th ,, ,,	""Novara"	Do./	, Do	London	1 вр	Do.
13th ,, ,,	""Khiva" …	Do	Calcutta	Do	1 sp	Do
17th ,, ,,	" "Clan Macdou- gall".	Do	Manila	Port Said	1 sp	Do.
10th June 1915	1 11 Mar 2	French	. D'Jibouti	D'Jibouti	1 cp	Do.
12th " " …	" "Tadjoura"	Do	. Do	. Do	1 cp	Do.
13th " " "	""Falcon" 🗤	British	S. Coast	S. Coast	1 cp	Do.
	A transport	. Do. ,	• •••••		1 scart .	Do.
Ot August 1915 .	S.S. Malwa"	. Do	. Sydney	. London	. 1 mls,	On board.
******	A transport	. Do		••••	1 scart.	Do.
29th October 1915	S.S. "Moldavia "	. Do	. Sydney	London	4 mls	Landed.
7th Nov. 1915	" " Porto di Adalia	"Italy .		D'Jibouti	2 mls 2 jigger.	On baord. Landed.
30th ", ",	""Arabia" "	. British .	. London	. Sydney	1 cp.	On board.
1st December 1915	. ""Tuna"	Do	Zanaîbar	. Kamaran	. 4 jigger.	Landed
3rd ", "	" "Zoroaster"	. Do	Bombay		. 1 sp	Do-

N. B.-S.-P. stands for small-pox, C.-P. for chicken-pox, Mls. for measles, Scart. for scarlatina, and Ger.-mls. for German measles.

•	
IVThe following are the names and other	information regarding pilgrimships, which
passed through Aden during the year :	· · ·

							Number of	
No.	Date and month.	Names of Vessels.	Ņstionality.	· From	То 	Pilgrims.	Cases of infections discase,	Deaths.
1	22nd January 1915	S.S. "Akbar"	British	Jeddah	Bombay	1,483		4
2	22nd February 1915.	" "Koweit"	Do	Do	Do	101	*****	
3	7th September 1915	, "Jehangir"	Do	Bombay	Jeddah	374		
4	19th " "	. " " Hejaz "	Do	Do	Do	668	******	1
5	25th ,, ,,	" "Akbar"	Do	Do	Do	768		
6	11th October 1915	. " " Sardar "	Do	Do	Do	622		1
7	8th November 1915	. " "Koweit,,	Do	Jeddah	Bombay	660		1
8	.، دو دو اد	. " " Sardar "	Do	Do	Do	4S6 .		
9	26th " " "	Jehangir "	Do	Do	Do	303		

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#### V.-PREVAILING DISEASES.

Malarial fever, diseases of respiratory and digestive system, ulcers and local injuries.

*Epidemics.*—There were no epidemics with the exception of small-pox, which prevailed in sporadic form in the Cooly lines, Tawahi, from 20th March to 30th June 1915. All sanitary precautions were taken to eradicate and prevent the spread of the disease. Such as isolation of cases, isolation of contacts, and disinfection of houses. Vaccination with Bombay Glycerinated Vaccine and Vaccine lymph from Kasauli was offered to the coolies an1 to the residents of Tawahi who came forward to have it done and to others who were willing to be vaccinated.

VI.-Statement showing the number of cases treated at the Small-pox Hospital, Maalla, during the year :--

Unprote <b>ct</b> ei	Protected.	Deaths.	Admissions for small-pox, measles and contact cases.	Remaining as per last retarn.		Year.		
4.	161	6	204	16	•••	1915		
	161	6	204			1915		

8hipping.	Steamer Point.	Maalla.	Crater.	Interior.	Europeans.	Liolliai ny,
24	164	6	4	6	2 (included)	-

VII.—Statement showing the tubes received, their cost, and the vaccination operations performed during the year at the Port and in Tawahi:—

Number of tubes of Bombay Municipal Vaccine.	Cost.	Total number of vaccinations performed.	Result.	Remarks.
2,998	Rs. 749 8 0	7,114	All unknown.	

In addition to the above tubes, 20 tubes of Vaccine Lymph from the Institute, at Kasauli, were also obtained at a cost of Rs. 12-8-0 during the small-pox epidemic.

N. B.—It is impossible to have the results of vaccination of operations recorded, as those vaccinated are immigrants, who are vaccinated on landing, and a few coolies, who are homeless.

The vaccinations performed during the year are all nominally primary.

#### VIII.-ESTABLISHMENT.

Major J. L. Marjoribanks, M.D., D.P.H., I. M. S., acted from 1st January to 21st February 1915.

Captain R. B. S. Sewell, B.A., I. M. S., acted from 22nd February to 4th July 1915.

Dr. John C. Young, M.A., M.B., C.M., D.T.M., acted from 5th July to 31st December 1915.

#### Office establishment.

Mr. G. F. Andeen from 1st January to 12th March 1915, and Mr. H. C. DePenning from 13th March to 31st December 1915.

#### Peons.

Hassan Saif, from 1st January to 17th April 1915, then he resigned. Abdulla Saleh was appointed in his place from 18th April 1915 who resigned from 7th May 1915.

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Syed Ibrahim was appointed in his place from 17th June 1915 and has been working since.

#### IX .--- LAUNCH ESTABLISHMENT.

## 1. Driver Hussein Noman, 1st January to 31st December 1915.

2. Succani Ahmed Suleman was on leave up to 31st January 1915, Lascar Muhammad Magon was appointed acting Succani during his absence. The Succani rejoined his appointment from leave on 1st February 1915 and resumed his duties.

3. Baisher Hizam, Stoker, 1st January to 31st December 1915.

4. Muktar Jaffer was appointed to act for Lascar Muhammad Magon from 1st to 31st January 1915. The latter reverted to his appointment as Lascar from 1st February 1915.

#### X .- DISINFECTING STOVE.

The establishment consisted of the following :--

1 Engine Driver, 1 Fireman, and 2 Lascars.

The services of the establishment are sanctioned annually by Government.

The establishment was employed throughout the year.

The services of the establishment have now been dispensed with as a temporary measure from 31st December 1915, except those of the fireman, whose services have been retained, and are absolutely necessary for the care of the Disinfecting Stove.

Aden, 4th February 1916.

# JOHN C. YOUNG,

Acting Health Officer of the Port, Aden.

#### APPENDIX III.

The following table shows when the drainage systems and water-works were completed in the towns mentioned therein, with the average annual death-rate for the five-year period preceding the introduction and also the ratio for the five-year period ending with the year under report, exclusive of recorded plague mortality :--

The rural death-rates for each district are added for comparison.

1         2         3         4         5         6         7         8         9              Bombay          a         1879         b         1892         30°63         27°98             West Khindesh          Dhulia          Dhulia          1690         24'61         32'50         27'17            Ahmednagar          Ahmednagar           1697         24'33         55'65         24'31         '2'         '2'         '3'         '5'         5'         24'31         '2'         '2'         '3'         '5'         5'         24'31         '2'         '3'         '5'         '2'         '3'         '5'         24'31         '2'         '3'         '5'         '3'         '3'         '5'         '3'         '3'         '5'         '3'         '3'         '5'         '4'         '3'         '3'         '5'         '3'         '3'         '3'         '5'         '3'         '3'         '3'         '3'         '5'         '3'         '3'         '5'         '3'         '3'				· · ·		Date of co of wor	Ompletion ts of	denth-rate car period 5 exclusive	denth trate period pre- oduction of rrsnpply or	l circles for	r in rural 11 1015.
1         2         3         4         5         6         7         8         9              Bombay          a         1879         b         1892         30°63         27°98             West Khindesh          Dhulia          Dhulia          1690         24'61         32'50         27'17            Ahmednagar          Ahmednagar           1697         24'33         55'65         24'31         '2'         '2'         '3'         '5'         5'         24'31         '2'         '2'         '3'         '5'         5'         24'31         '2'         '3'         '5'         '2'         '3'         '5'         24'31         '2'         '3'         '5'         '3'         '3'         '5'         '3'         '3'         '5'         '3'         '3'         '5'         '4'         '3'         '3'         '5'         '3'         '3'         '3'         '5'         '3'         '3'         '3'         '3'         '5'         '3'         '3'         '5'         '3'         '3'	Distric	.t.		<sup>.</sup> Táluka.	Town.	Drainage.	Water-supply.	Average annual death-rate for the fre-year period effing with 1916 exclusive of plague.	Average annual denth-rate for the free-year period pre- ceding the introduction of drainage or water-supply or both.	Death-rate in rural circles for the year 1915.	Places for the year 1018.
Mest Khåndesh        Dulla $a$ $1892$ $30^{\circ}63$ $27^{\circ}03$ $a$ $a$ $a$ $1892$ $30^{\circ}63$ $27^{\circ}03$ $a$ $a$ $a$ $a$ $a$ $1892$ $30^{\circ}63$ $27^{\circ}03$ $a$	1			2	3	4	5	6	7	8	9
West Khändesh        Dhulia        Dhulia        1896       24'61       32'50       27'17          Ahmednagar        Ahmednagar        Ahmednagar        1697       24'33       *       55'65       24'31       *       55'65       24'31       *       55'65       24'31       *       55'65       24'31       *       55'65       24'31       *       55'65       24'31       *       55'65       24'31       *       55'65       24'31       *       *       55'65       24'31       *       55'65       24'31       *       *       *       55'65       24'31       *					Bombay	a 1879	<b>ð 1</b> 892	30.63	27.98		
Ahmednagar        Ahmednagar        Ahmednagar        Image: Strate        Ahmednagar        Image: Strate        Image: Strate <td< td=""><td>West Khándesh</td><td>***</td><td></td><td>Dhulia</td><td>Dhulia</td><td></td><td>1896</td><td>24:61</td><td>32.20</td><td></td><td></td></td<>	West Khándesh	***		Dhulia	Dhulia		1896	24:61	32.20		
Ahmedabad        Medabad        e       1893       1891       45'89       45'21       22'49          Karáchi         Karáchi         e       1893       1891       45'89       45'21       22'49          Karáchi         Karáchi         e       1895       1894       31'89       35'15       6'77       'e'         Sukkur        Sukkur        Sukkur        e       1895       26'22       28'70       27'78       1'1         Thána        Sálsette        Bándra         1896       23'88       23'01       22'54          Kolába        Panvel        Bándra         1896       23'88       23'01       22'54          Dhárwár        Panvel          1896       23'87       19'50       29'98          Ahmedabad         Hubli         1994       27'59       23'7	Ahmednagar			Abmednagar	Ahmednagar	*****	1697	24.33	• 55'65	24.31	*35
Karáchi        Karáchi        Karáchi        c       1895       1894       31.83       35.15       6.77          Sukkur        Sukkur        Sukkur        c       1895       1894       31.83       35.15       6.77                1895       1894       31.83       35.15       6.77             1895       26.22       28.79       27.78       17         Thána        Sálsette        Bándra         1896       23.98       23.01       22.54            1695       23.47       19.50       29.98           1894       27.59       23.70       27.55       3.4         Dhárwár        Hubli          1994       27.59       23.70       27.54          Ahmedabad         Viramgám         1993<	Surat	***		Chorási	Surat		1893	23.91	<b>3</b> 0 <sup>.</sup> 77	57 49	1'39
Sukkur        Sukkur        Sukkur        Sukkur        Sukkur        1695       26°22       28°70       27'78       1'1         Thána        Sálsette        Bándra         1695       23'88       23'01       22'54       7         Kolába        Panvel        Panvel        1695       23'47       10'50       29'98          Dhárwár        Hubli          1994       27'59       23'70       27'55       3'4         Ahmedabad         Viramgám         3'1893        35'59       69'28       27'54          East Khándesh        Jalgaon        Jalgaon        1009       28'86       31'56       31'32	Ahmedabad			Daskroi	Ahmedabad	c 1893	1891	45.89	45'21	22-49	*****
Thána        Sálsetto        Bándra         1896       23'68       23'01       22'54          Kolába        Panvel        Panvel        1695       23'68       23'01       22'54          Dhárwár        Panvel        Panvel        1695       23'47       19'50       29'98          Ahmedabad         Hubli         1594       27'59       23'70       27'55       3'4         Ahmedabad        Viramgám        Viramgám        d'1893        35'59       69'23       27'54          East Khándesh        Jalgaon        Jalgaon        1009       23'86       31'56       31'32          Sholápar        Pandharpar       Pandharpar        1911       44'10       49'98'       25'09       '2	Karáchi	***	•••	Karáchi "	Karáchi	c 1895	1894	31.83	95'15	6.77	•66
Kolába        Panvel        Panvel        1695       23'47       19'50       29'98       ************************************	Sukkur .	***		Sukkur	Sukkur		1895	26.22	28'70	27'78	1•15
Dhárwár        Hubli        Hubli        1994       27'50       23'70       27'55       3'4         Ahmedabad        Viramgám        Viramgám        d'       1893        35'59       69'28       27'54          East Khándesh        Jalgaon        Jalgaon        1909       28'86       31'50       31'32          Sholápar         Pandharpar        Pandharpar        1911       44'10       49'98'       25'09       *2	Thána	•••		Sálsette	Bándra	,	· 1896	23.88	23.01	22.54	,20
Ahmedabad        Viramgám        d       1893        35*59       69*23       27*54          East Khándesh        Jalgaon         1909       28*86       31*56       31*32          Sholápar         Pandharpur         1911       44*10       40*98       25*09       *2	Kolába		•••	Panvel "	Panvel		1695	23.47	19.20	29.98	-04
East Khåndesh Jalgaon Jalgaon 1909 28'86 31'56 31'32 Sholápar Pandharpar Pandharpar 1911 44'10 49'98' 25'09 *2	Dhárwár	***	***	Hubli	Hubli 11		1994	27.50	23'70	27.55	3.41
Sholapar Pandharpar Pandharpar 1911 44:10 49:98. 25:09 +2	Ahmedabad	•••		Viramgám	Viramgám	ð 189 <b>3</b>	******	35•59	69'28	27.54	
	East Khándesh	•••	•••	Jalgaon	Jalgaon		1909	28.86	31.20	31'32	*****
Násik Násik Násik a. 1913 32-15 52-73 36 69 7.7	Sholápar	•		Pandharpur	Pandharpur		1911	44.10	49.98	25.09	•25
	Násik	***	***	Násik	. Názik		1913	<b>3</b> 2·15	52·73	36-69	7.71
Bijápur Bijápur Bijápur 1013 20.99 30.03 23.67 1.0	Bijápur	•••	•••	Bijápur	Bijápar		1913	20 99	30.03	23.67	1-02

a Drainage works commenced in 1879 are still in progress.

b Tillsa water-works completed in 1892. Besides these there are Vehár and Tulshi water-workse

c Drainage system partially introduced.

# In 1893 the gradient of the channel round the town was improved to carry away the sullage water that used to accumulate and stagnate round the town

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## APPENDIX IV.

ANNUAL FORM No. I .- Showing the Births registered in the Districts of the Bombay Presidency during the year 1915.

1	2		3			4			5		6	7	8		9	
No.	Districts.		TION ACCO ENSUE OF 1			BER OP. BI BEGISTEREI		TI TI	IO OF BI BE 1,000 OPULATIO	0P	Number of males born to every 100	Excess of Births over Deaths per 1,000	Excess of Deaths over Births per 1,000	[ · 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1,000 DI 1,000 DI DUS FIVE	2018.0
		Male.	Female.	Total.	Male.	Female,	Total.	Male.	Fomale.	Total.	females born.	of Popu- lation.	of Popu- lation.	Male.	Female	Total.
	Western Registration District.															-
1	East Khändesh	521,546	512,609	1,034,314	26,912	21,941	51,853	20.03	24-12	50.14	307.90	20.03		26.32	24.97	51-24
3	West Khándesh	293,300	287,380	560,680	14,984	• 14,504	29,458	25.60	24.98	50.28	103-30	25'64	-	27:39	26-20	53*59
3	Núsik	455,045	418,599	903,641	20,906	19,917	40,823	23.14	22.04	45-18	104-91	7.29		24,30	23-11	47.41
. 4	Thúna	456,673	424,235	880,008	16,707	16,125	32,882	18.97	18-20	37.27	103-63	. 12.21		18.05	17.02	35.07
Б	Kolába	295,085	208,972	594,057	<b>12</b> ,615 -	12,145	24,760	21.23	20.41	41.62	103-86	14 <sup>.</sup> 63		20.04	18'68	38.93
6	City of Bombay Central Registration District.	629,834	333,509	963,363	10,120	,012	19,732	10.20	<b>9</b> -98	20.43	105-28		3'69	10.67	10.53	20-60
7	Ahmednagar	475,163	468,828	913,991	22,016	20,481	42,500	23*32	21.70	45 <sup>.</sup> 02	107-48	19 44		20.58	19-91	40.83
8	Poona	633,238	526,568	1,064,806	• 19,464	18,317	37,781	18-28	17-2)	35·48	106*26	9'35		17-56	16.34	33-90
9	Sholápur	391,311	376,706	768,017	17,982	17,338	35,320	23.41	22.28	45-99	103-71	6-63		21.61	20.55	42.10
10	Sátára	538,841	541,957	1,050,799	21,970	21,218	43,218	20:3 \$	19.66	3 8.90	103-40	14-40		10'19	18'45	37.04
11	Ratnágiri Southern Registration District.	553,263	650,234	1,203,602	20,612	19,232	39,864	17.12	16.00	33.12	107 06	11-25		17.23	16.21	33.43
12	Belgaum	478,458	463,490	941,948	19,819	18,909	38,728	21 04	20.02	41-11	104.80	-23		20.61	1978	40-49
13	Dhárwár	519,995	505,091	1,025,096	20,917	20,4:3	41,360	20.41	19 <b>·9</b> 4	40'35	102-32	8.81		19.33	18.57	37.80
14	Bijápur	483,866	429,061	862,927	17,350	16,765	34,115	20 <sup>.</sup> 10	19*43	89 5 3	103.43	15-87		20.70	20.00	40.29
15	Kánara	220,065	210,369	430,434	7,373	7,136	14,509	17-13	16*58	33.71	103-32	4•30		16-85	15-99	32.84
	Gujarát Registration District.															
16	Surat	326 <b>,839</b>	327,135	653,974	12,791	12,066	24,857	19*56	18.45	38.01	106.01	<b>9·3</b> 0		19.06	18-11	
17	Broach	158,219	148,448	306,667	7,146	6,547	13,693	23*30	21.35	44 65	109.12	16.40		2 <b>3</b> ` <b>4</b> 3	21.96	45 33
18	Kaira	370,174	321,468	091,643	15,831	14,184	<b>30</b> ,0 <b>3</b> 5	32.93	20-31	43•43	111.75	18.70		22.60	20•59	43-19
19	Panch Mahils	165,902	156,751	322,653	7,555	7,141	14,696	23•42	22.13	<b>45°</b> 53	105-79	27.52		22.62	21•68	44130
20	Ahmedabad Sind Registration	432,124	395,213	<b>8</b> 2 <b>7</b> ,837]	18,349	16,611	31,900	22.18	20-03	42.28	110-46	13*97		20-18	18-23	35*40
21	District. Karáchi	290,390	225,913	516,333	7,054	5,985	13,(39	13 <sup>.</sup> 68	11'50	25.25	117-50	4.10		12.77	10.52	23•72
23	Hyderabad	337,528	278,581	611,110	6,150	4,580	10,719	10:11	7.43	17•54	138-15	-11		9°75	7-28	17:03
23	Thar and Párkar	241,274	192,091	433,365	<b>F,94</b> 8	<b>4</b> ,766	10,704	13.73	10.97	24-70	125.06	0-12		11 73	9.26	20.00
24	Nawabshah	247,719	200,759	418,478	5,401	3,961	9,362	12.04	i 8 83	20-88	138-35	3.20		10.12	7.10	17-24
25	Lárkána	859,207	301,621	660,828	9,629	7,606	17,135	14-43	11.51	25193	125.28	7.78		13,36	10.02	23-93
28	Sukkur	312,732	260,803	573,535	7,968	6,425	14,393	13.80	11.20	25.00	124.02	4.06	.	13-63	10.05	24/35
27	Upper Sind Frontier	145,541	117,415	262,986	3,411	2,893	6,304	12.02	11.00	23 87	117-91	10.31		11-79	<b>8*</b> 06	20.74
	Tatal for the Pre- sidency	10,189,455	9,398,928	19,587,353	376,920	240,850	720,760	19'24	17.86	37.10	207-74	10.98		18.75	17 130	20-14

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# ANNUAL FORM NO. II.—Showing the BIRTHS and DEATHS registered in the DISTRICTS of the BOMBAY PRESIDENCY during the year 1915.

1	2	3	4			5 '			6			8			
	-	······	Average	Po	PULATIO	N (CENEU	s 1911).	E	ETHS.	-	N	CMBER O: REGIST		18	Number
Number,	Districts.	Area in square miles.	popula- tion per square mile.	Mal	Male. Female.		Total.	Total Number.	Birth-1 per 1,00 populat	0 of	Male.	1	nale.	Total.	Deaths of males to every 100 Deaths of females.
2 3 4 5 6	Western Registration District. East Khândesh West Khândesh Násik Thâna Kolâba City of Bombay Central Registration	4,559 5,439 5,879 3,570 2,169 22 5	227 106 154 246 274 41,493	521,5 203,3 455,0 456,6 293,0 629,6	35 Z	12,668 57,380 45,509 24,235 93,972 33,509	1,034,214 550,650 903,644 830,908 594,057 963,363	51,853 29,483 40,823 32,832 24,760 19,732	50°14 50°78 45°15 37°22 41°67 20°48	7.	15,84 7,61 17,20 11,17 8,18 12,71	6 0 1 4 1 0	4,547 6,930 7,033 0,897 7,871 10,569	30,194 14,596 34,233 22,071 18,051 23,287	197.53 169.11 109.28 162.54 163.93 120.35
7 9 10 11	District. Ahmednagar Poona Sholapur Satara Ratnägiri Southern Registration District.	6,613 5,366 4,556 4,818 3,989	$142 \\ 198 \\ 169 \\ 224 \\ 302$	475,1 538,2 301,3 538,8 553,3	341   5	39,828 26,565 76,70 <b>6</b> 41,957 50 <b>,2</b> 34	943,991 1,064,806 768,017 1,080,799 1,203,602	43,500 37,781 35,320 43,218 39,864	45.03 35-45 45.95 39-99 33-12	2 3 9 3	12,49 14,31 15,17 13,85 13,23	3 1 5 1 9 1 9 2	1,656  3,505  4,598  3,799  3,050	24,149 27,820 30,077 27,657 26,318	107.13 106.00 101.69 100.44 101.21
12 13 14 15	Belgaum Dhàrwár Bijápur Kánara Gujarát Registration District.	4,613 4,604 5,707 3,946	204 223 151 109	478,4 519,0 433,8 220,0	56 4	63,490 05,091 29,061 10,369	941,943 1,025,036 862,927 430,434	38,723 41,360 84,115 14,509	4111, 4033 3955 3377	5	16,35 16,21 10,25 6,42		6,509 6,115 0,123 6,234	32,861 32,329 20,424 12,658	99°05 100°61 101°70 103°05
16 17 18 19 20	Surat Broach Kaira Panch Mahála Ahmedabad Sind Registration District.	1,651 1,468 1,596 1,608 3,824	396 209 433 201 216	326,8 158,2 370,1 165,9 432,1	339 3 219 1 174 3 902 1 124 3	27,135 48,448 21,463 56,751 95,213	653,974 306,667 6+1,642 322,653 827,337	24,857 13,093 30,035 14,695 34,860	38*0 44*6 43*43 45*5 42*20	5	9,57 4,36 8,97 2,98 12,17	7 1 54	9,197 4,298 8,132 2,565 (1,240	18,775 8,665 17,103 5,819 23,412	$104 14 \\101.61 \\110.32 \\103 11 \\108 20$
21 22 23 24 25 25 25 25	Karáchi Hyderabad Thar and Párkar Nawabshah Lárkána Sukkur Upper Sind Frontier	11,782 4,417 13,639 3,567 5,053 5,585 2,644	44 138 32 116 131 103 99	290, 337, 241, 247, 359, 312, 145,	719   2 207   3 732   2	25,943 73,584 92,091 00,759 01,621 60,803 17,445	516,333 611,110 433,365 443,478 664,829 573,535 262,986	13,039 10,719 10,704 9,362 17,135 14,393 6,304	25-2 17-5 24-7 20-8 25-0 25-0 23-9	4 0 8 3 9	6,18 5,94 3,68 4,27 6,50 6,18 1,94	16 34 33 33 39	4,740 4,708 3,063 3,389 5,492 5,349 1,646	10,921 10,654 6,752 7,662 11,995 11,539 3,592	130*49 126*30 120*08 126 05 118*41 115*70 118*23
	Total for the Presidency	122,978	159	10,188,4	455 9,3	93,928	19,587,383	726,78)	37 • 10	0	263,67	2 2	£7,941	511,613	106-34
í 	2						9				•	~		10	
·	Districts.	1		. [			1	All causes.					PER	RATIO DE 1,000 DU OUS FIVE	BING
Number.		Cholera, Sr	nall-pox. P	lague.	Fever.	Dysenter and Diarrhœ	Liggan	ory s. Injuries,	All other causes.	Male,	Female.	!	Male.	Female	Total.
1 2 3 4 5 6	Western Registration District. East Khándesh West Khándesh Násik Thána Kolába City of Bombay Central Registration	-03 -04 -01 -05 -00 -01	-03 -03 -23 -11 -05 -37	*36 *01 7*90 *69 *26 *62	12.01 12.06 12.33 15.99 15.34 <b>2.13</b>	1.5 .% 1.11 .7 1.7 2.2	8 2·73 5 4·30 6 1·16 4 1·07	32 34 34 34 61 45	10°69 9°50 11°51' 5°69 8°10 10°07	30 <sup>-00</sup> 25 <sup>-97</sup> 87 <sup>-60</sup> 24•47 27·72 20·19	25.37 24.29 37.97 25.69 26.32 31.69	29.19 25.13 37.88 25.06 27.02 24.17	38*89 38*29 27*02 29*40 30*40	37-74 35-38 36-81 26-86 27-64 44-83	38-33 35-53 37-55 26-04 28-52 35-45
7 8 9 10 11	District. Ahmednagar Poona Sholapur Satara Ratnagiri Southern Registration Buthern Registration	•00 •61 •01 •00 •00	•00 •07 •05 •02 •03	•47 1•73 10•12 3 36 •01	9.36 11.50 13.25 10.61 10.74	2.6 2.5 4.6 2.6 3.2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	· 32 · 42 · 52	8*47 6*36 6*53 6*59 4*03	26-29 23-60 33-79 25-73 23-92	24 86 25 65 39 55 25 46 29 12	25.58 26.13 39.16 25.59 21.87	32*30 31*45 35*15 29*60 23*60	30.40 29.97 35.19 29.91 19.79	31 35 30 72 35 17 29 25 21 65
12 13 14 15	Belgann	•00 •01 •∪3	•01 •07 •03 •64	10·11 5 83 1·12 ·11	6-18 7-64 8-94 11-81	2*9 1*2 1*0 2*3	9 <b>3</b> -97 6 2-67	·3.) •40	12:00 12:35 6:55 12:95	34-19 31-18 23-74 29-19	35*62 31.91 23:60 29:63	34-89 31-54 23-67 29-41	31 70 35 50 33 16 31 91	32·37 38·02 33·50 30·61	32:03 3:571 33:06 31:27
16 17 18 19 20		•00 •00 •(4) •43 •04	•01 •00 •60 •60 •00	1.75 .77 .15 .27 .03	$12.30 \\ 15.05 \\ 9.18 \\ 12.31 \\ 15.17$	9 5 9 1 5	1 5.45 6 7.22 6 1.2	-48 -59 -41	5.96 640 873 3.53 4.14	20131 27160 27131 17181 1517	28.11 25.95 25.29 15.25 25.11	23.71 25.26 24.73 19.13 25.30	29-96 36-23 32-79 22-54 35-94	20 ·19 37 ·21 34 · 82 22 ·01 37 ·07	20:57 36:70 33:72 22:73 36:1 <del>3</del>
21 23 23 24 25 26 27	Karáchi Hyderabad Thar and Párkar Nawabenab Lárkhána Sukkur	.00	*04 *00 0-0 *00 *00 *00 *01 *00	2.77 1.81 .01 .25 .05 .05 .15 .2.24	10'11 12:44 13:14 15:49 16:68 16:15 11:79 11:48	*3 *2 *3 *1 *0 *2 *1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1         -27           3         -27           4         -38           2         +39           5         -365           1         +29	5*23 1**6 *65 *51 2*50 04 7*05	21·23 17·02 15·27 17·25 15·10 19·79 13·37 25·83	20:98 17:21 15:57 15:88 15:21 20:51 14:02 26:38	21.15 17.43 15.55 17.05 15.15 2.12 13.65 26.12	20161 16123 17152 15137 15137 15100 14121 20160	21.23 15.50 17.69 15.07 20.53 20.24 15.19 30.6	20194 15191 17199 15125 20164 19175 14107 20193

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No.	Districts.	January.	February.	March.	April.	May.	June.	July.	Angust.	September	October.	November.	December	Total Deaths registered during the year,	
	Western Registration District.													1	
1 2 3 4 5	Fast Khåndesh West Khåndesh Násik Thána Kolába	2,378 1,436 2,700 1,997 1,425	2,003 1,103 2,513 1,722 1,338	2,400 1,350 2,688 2,122 1,472	2,294 1,247 2,185 1,746 1,263	2,480 1,109 1,986 1,494 1,161	1,945 8.13 1,872 1,345 1,053	1,737 810 2,184 1,200 1,067	2,474 1,084 8,200 1,726 1,365	3,379 1,294 3,517 1,722 1,300	3,025 1,231 3,094 1,894 1,230	2,840 1,2~3 3,4~5 2,251 1,352	<b>3,190</b> 1,668 3,929 2,802 2,009	<b>9</b> 0,124 14,596 34,233 22,071 16,051	1 3 4 5
6	City of Bombay Central Registration District.	1,769	1,623	1,989	2,075	2,039	1,700	1,759	2,001	2,062	2,091	2,004	2,171	23,257	6
7 8 9 10 11	Ahmednagar Poona Sholkpur Sátára Ratnágiri	1,498 1,986 1,331 1,830 2,564	1,480 1,733 1,314 1,533 2,498	1,455 2,023 1,812 1,907 2,417	1,803 2,040 1,697 1,851 2,178	1,384 2,103 1,652 1,849 1,908	1,900 2,004 1,844 1,845 1,785	2,099 2,091 1,781 2,079 1,927	2,577 2,821 2,754 2,723 2,138	2,449 2,844 3,067 3,107 2,085	2,402 2,758 3,951 2,958 2,102	2,090 2,500 4,335 2,754 1,976	2,364 2,912 4,559 3,223 2,741	24,149 27,820 30,077 27,057 26,318	7 9 10 11
	Southern Registration District.														
$12 \\ 13 \\ 14 \\ 15 \\ 15 \\ 12 \\ 12 \\ 12 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10$	Belgaum Dhàrwar Bijápur Kanara	2,060 2,523 1,283 1,235	1,767 1,979 1,153 1,140	2,218 2,405 1,263 1,003	1,930 2,123 1,453 912	1,743 1,895 1,130 810	1,834 1,925 1,222 813	2,506 2,333 1,429 923	3,469 3,072 1,744 973	3,388 3,170 1,884 916	4,081 8,261 2,264 1,165	8,934 3,439 2,4-3 1,161	3,678 4,112 3,017 1,457	32,661 32,829 20,424 12,658	12 13 14 15
	Gujarát Registration District.														
16 17 19 19 20	Surat Brouch Kaira Panch Maháls Abmedabad	1,895 992 1,579 546 2,465	1,711 811 1,535 486 2,265	1,815 943 1,686 556 2,286	1,717 814 1,421 501 1,984	1,403 594 1,296 439 1,762	1,209 542 1,297 881 1,408	1,146 553 1,392 376 1,452	1,3?0 667 1,423 495 1,692	1,455 640 1,296 530 1,919	1,584 645 1,274 404 1,757	1,712 719 1,439 453 2,175	1,828 746 1,465 541 2,207	18,775 8,605 17,103 5,519 23,412	18 17 13 19 20
	Sind Registration District.								•						
21 22 23 24 25 26 27	Karáchi Hyderabad Thar and Párkar Nawabshah Lárkána Sukkur Upper Sind Frontier	1,120 1,635 794 957 1,903 1,293 479	1,095 1,273 690 856 1,222 1,038 289	1,103 1,526 794 1,038 1,221 1,184 283	1,170 1,045 548 509 854 1,021 253	1.238 706 612 403 754 771 221	848 498 349 381 641 666 219	404 461 318 3.3 658 618 157	496 423 245 309 635 603 ~ 214	664 492 304 377 701 674 233	694 583 417 612 958 943 337	876 9)1 747 823 1,742 1,250 458	1,013 1,106 1,034 904 1,306 1,403 - 419	10,921 10,634 6,732 7,602 11,095 11,539 3,592	21 23 25 24 25 26 27
	Total for the Presidency	43 <sub>1</sub> 743	38,218	43,424	38,723	93,382	32,469	34,068	42,635	45,501	48,722	50,620	55,099	511,613	
	Ratio of deaths per 1,000 in each month	2.53	1 95	2.22	1.83	1·80	1.66	1.74	<b>2</b> ·18	2.83	2.49	2.28	2*07	26-12	

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ANNUAL FORM NO. III.—DEATHS registered in the DISTRICTS of the BOMBAY PRESIDENCY during each month of the year 1915.

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# FORM No. IV.

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ANNUAL FORM NO. IV .- DEATHS registered according to Age in the

1	2			. 8	)		4		5		8
			 	Under	1 year.	l year an	d under 5.	5 and u	nder 10,	10 and a	under 15,
No,	Districts	•		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
	Western Registratio	n Distr	ict.	•							
1	East Khándesh	. ••	e4	5,938	4,988	3,177	3,196	589	578	292	318
2	West Khåndesh	•••	•••	2,738	<b>2</b> ,366	1,640	1,556	329	309	153	i [ ]4.
· 3	Násik	•••		4,467	3,797	3,112	3,151	1,134	1,316	713	875
4	Thána	•••		2,528	2,221	1,969	2,200	639	714	305	290
5	Kolába	•••	•••	2,043	1,708	1,634	1,610	340	364	187	193
6	City of Bombay	•••		8,475	3,074	1,181	1,835	306	413	287	344
	Central Registratio	n Dista	riot.								
7	Ahmednagar	•••		4,420	3,561	2,418	2,182	369	417	216	207
8	Poona	344		4,284	3,291	2,786	2,573	630	603	1	423
9	Sholápur		••••	3,842	3,091	2,922	2,831	812	908	1	828
10	Sátára			3,384	2,787	2,963	2,906	772	852		570
11	Ratnágiri			2,183	1,748	1,898	1,907	665	619	·	360
	Southern Registration	: m Dist		2,200	.,	1,000	1,507	000		000	
12	Belgaum			2,929	2,390	2,592	2,956	1,401	1,589	983	
13	Dhárwár			3,722				1,082	1,225	833	1,149
14	Dillo	•••	•••		3,034	2,514	2,631	1			893
15	Kánara		, <b>, , , ,</b>	2,684	2,167	1,816	1,964	613	566	268	310
10	Gujarát Registratio	n Distr	·ict.	1,532	1,453	723	760	2:3	246	153	99
16	Surat	•••	***	2,306	2,130	1,660	1,560	557	585	289	334
17	Broach	•••		1,355	1,247	828	779	164	155	74	63
18	Kaira	•••		2,297	2,428	1,584	1,462	313	250	177	161
19	Panch Maháls	•••		885	793	502	451	154	148	66	76
20	Ahmedabad Sind Registration	••• Distric	•••	3,287	3,048	2,036	2,050	359	369	244	253
21	Karáchi			1,537	1,270	588	532	279	256	232	21 <b>J</b>
2 <b>2</b>	Hyderabad	•••		931	806	539	468	249	243	231	211
23	Thar and Párkar	•••	· · ·	724	675	362	349	83C	154	132	<b>5</b> 3
24	Nawabshah	•••	***	690	607	419	361	191	149	167	· 94
25	Lárkána	•••	•••	1,241	1,096	560	523.	.\$00	286	201	105
26	Sukkur			1,537	1,380	716	589	$^{+}248$	251	198	172
27	Upper Sind Fronti	er	•••	531	413	258	237	103	93	68	49
	Total for the Pre	aidency	7		57,560	43,397	43,119	13,009	13,653	8,497	<b>8,8</b> 95
	Population accordin of 1911				333,705	1,033,360	1,066,128	1,286,872	1,264,044	1,129,222	.893,170
	Ratios per 1,00	0 livina		201.92	172.51	42.00	40.44	10.11	11.34	7.52	9 9g

	7		8		. 9		1	0	;	11		12	13
<b>N</b>	15 and un	nder 20.	20 and u	nder 30.	30 and un	der 40.	40 and v	nder 50.	50 and a	under 60.	60 and	upwards.	-
-	Male.	Female.	Male.	Fomale.	Male.	Female.	Male,	Female,	Male.	Female.	Male.	Female.	No
	207	325	613	852	<b>643</b>	796	910	625	866	639	2,212	2,235	1
	93	154	328	468	486	438	496	299	471	318	882	928	2
	448	689	1,251	1,668	1,509	1,528	1,408	1,042	1,182	929	1,976	2,041	3
	293	336	867	1,159	1,054	1,054	1,044	687	977	735	1,498	1,501	4
	219	290	592	795	691	573	823	559	790	795	861	980	5
	746	782	2,099	1,571	1,441	818	1,176	566	<b>9</b> 81	616	1,027	1,049	e
													}
	370	568	656	855	583	<b>4</b> 93	744	, 594	1,219	1,148	1,498	1,631	1
	321	<b>4</b> 90	812	1,115	<b>9</b> 9 <b>3</b>	<b>9</b> 56	932	682	981	773	2,218	2,599	8
	686	733	1,145	1,359	·1,077	1,107	973	9 <b>3</b> 0	920	884	2,041	2,227	1
	363	486	916	1,060	882	1,009	922	692	940	784	2,216	2,652	1
	471	581	917	1,121	964	1,038	1,079	859	1,327	1,092	3,366	• 3,755	11
	620	706	1,551	1,694	1,370	1,367	1,360	1,047	1,293	1,055	- 2,253	2,556	112
	544	658	1,355	1,821	1,346	1,368	1,317	1,028	1,323	1,113	2,178	2,354	18
	193	261	592	849	557	599	731	537	910	704	1,929	2,169	14
	179	249	589	778	729	627	706	435	667	.546	923	1,041	1
	297	336	691	888	734	770	775	581	824	516	1,445	1,497	16
	87	89	269	368	-322	<b>3</b> 29		321	365	802	505	619	17
	181	164	752	686	831	707		589	771	553	1,133	1,132	18
	57	94	209	295	252	· 229		201	246	182	329	396	19
	307	294	1,251	1,123	1,181	1,044	·	928	1,107	869	1,246	1,262	20
	285	249	814	670	. 739	491	564	321	460	231	693	509	21
	300	266	807	709	851	656	763	461	580	343	695	545	22
	141	110	411	429	459	<b>3</b> 96	430	289	384	247	450	833	23
	195	198	559	546	598	477	493	313	412	268	549	376	24
	271	279	<b>7</b> 20	894	. 801	687	794	408	672	370	943	694	25
	232	277	483	627	. 637	519	624	397	611	312	903	825	26
	71	72	150	200	159	170	170	107	147	87	289	218	27
	8,185	9,736	21,399	24,600	22,089	20,246	21,972	15,588	21,426	16,411	36,258	38,124	
	852,854	752,848	1,903,139	1,801,211	1,562,195	1,370,275	1,064,455	949,249	611,654	564,582	436,814	476,708	 
	9.60	12.93	11.24	13.66	14.14	14.78	20.64	16.42	35.03	29.07	83·01	79.97	

DISTRICTS of the BOMBAY PRESIDENCY during the year 1915.

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ANNUAL FORM NO. V.-DEATHS registered according to CLASSES

1	2			,		8			
				P	OPULATION A	COORDING TO (	CENSUS OF 1	911.	
No.	Districts.		Mahomedans.	Hindus,	Jains,	Ohristians.	Pársis.	Other Classes.	Total.
	Western Registration Distr	ict.							
1	East Khándesh	•••	99,521	902,131	9,361	748	371	22,082	1,034,214
2	West Khandesh		31,323	474,200	8,796	586	233	70,542	580,680
3	Násik	· • • •	47,705	84 <b>3,7</b> 05	7,902	1,867	840	1,625	903,644
4	Thána	· <b></b>	41,979	786,925	2,985	43,341	5,105	573	880,908
5	Kolába		28,876	560,266	1,411	1,149	303	2,052	594,057
6	City of Bombay		179,346	664,042	20,460	41,273	50,931	7,311	963,363
	Central Registration Distr	ict.							
7	Ahmednagar	••••	<b>47,</b> 959	855,676	15,284	23,622	222	1,228	943,991
8	Poona		48,936	991,738	11,731	8,250	2,695	1,476	1,064,806
9	Sholápur		55,377	703,215	7,643	1,412	334	. 36	763,017
10	Sátára		36,688	1,028,176	14,883	815	209	27	1,080,798
11	Ratnágiri		85, <b>3</b> 03	1,110,594	1,913	5,678	46	68	1,203,602
	Southern Registration Dist	rict.							
12	Belgaum		77,075	817,797	41,533	5,313	159	71	941,948
13	• Dhárwár	•••	136,943	872,885	10,413	4,526	218	101	1,025,086
14	Bijápur	•••	101,069	757,542	8,235	1,052	28	1	862,927
15	Kánara		28,731	383,624	1,251	16,729	14	85	430,431
	Gujarát Registration Dist	rict.		000,011	.,				
16	Surat	•••	55,394	571,884	9,821	1,050	11,783	4,092	653,974
17	Broach	•••	67,752	192,964	3,053	1,052	2,770	39,076	. 306,667
18	Kaira	•••	63,280	598,165	6,609	· <b>2</b> 3,490	81	17	691,642
· <b>1</b> 9	Panch Maháls	•••	22,273	274,339	1,542	. <b>1</b> ,810	204	22,485	<b>3</b> 22,653
20	Ahmedabad	•••	92,018	693,209	35,899	3,584	1,639	988	827,337
21	Sind Registration Distric Karáchi	ct.	002 094	111 740	650	0.005	9.90.9	1,774	516,333
21 22	77 1 1 1	•••	<b>3</b> 96,334	111,748	090	3,625	2,202	1,772	611,110
22	Then and Dial		1.005 407	448.903	005		309	19 670	i i
23	N	Ì	1,035,437	442,801	695	<b>2</b> 48	102	13,670	433,365 448,478
2∓ 25	Lárkéna	J	EEDENM	101 005		61		1 500	660,828
26	Sukkur		557,517	101,687	1	21	6	1,596 8,402	573,535
20 27		/ <b>'4</b> #+	414,671	155,156	3	207	96 5	3,402 506	262,986
	Total for the Presidency	•••	235,970	26,495		10	5		
	rotar for the rresidency	•••	3,987,477	14,920,914	212,074	191,438	80,596	194,881	19,587,383

N.B.-This and all the other statements refer to Natives only and not to Europeans. "Hindus"

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in the BOMBAY PRESIDENCY during the year 1915.

			4							5			
	Nv	HEER OF	DEATHS BEG	31stered	•			RATIO	OF DEATE	18 Per 1,000	OF POPUL	ATION.	<del>u</del>
lahomedans,	Hindus.	Jains.	Christians.	Pársis.	Other Classes,	Total.	Mahomedans,	Hindus.	Jains.	Christians,	Pársis.	Other Classes,	Total.
2,421	<b>2</b> 7,690	60	16	6	1	30,194	24.32	30.69	6•41	21.39	1.62	•04	29.19
539	14,050	3	4	***		14,596	17.20	29.62	•79	6.82			25.13
1,698	32,470	30	<b>2</b> 9	3	- 3	34,233	35.59	38•49	3.80	15.53	<b>3</b> ·57	<b>1</b> .85	37.8
1,034	19,943	8	<b>9</b> 66	50	10	22,071	26· <b>0</b> 6	25.34	2.68	22.29	9.79	17.45	25.0
778	15 <b>,1</b> 95	6	<b>1</b> 6	1	55	16,05 <b>1</b>	26.94	27.12	<b>4</b> ∙25	13.92	3.30	26.80	27.02
5,495	· 14,614	890	1,143	959	186	23,287	30.64	<b>2</b> 2·01	43·50	27.69	. <b>18</b> •82	25.44	24.17
1,106	22,919	17	72	1	34	2 <b>4,1</b> 49	23·04	26.78	1.11	, 3·05	4.50	<b>27</b> .69	<b>25</b> .58
<b>1</b> ,261	26,370	43	89	37	20	<b>;27,</b> 820	25.77	<b>26·5</b> 9	3.67	<b>10</b> ·81	13.73	13.56	26·1
2,109	27,773	<b>14</b> 4	34	3	14	30,077	38.08	39.49	18•84	<b>24·0</b> 8	<b>8</b> •98	388-89	39.1
971	26,322	355	. 7		2	27,657	26.47	25.60	23.85	8.59		74.07	25.5
1,812	24,404	21	. <b>7</b> 8	•••	3	26,318	21.24	21.97	<b>1</b> 0·98	13.73	•••	44 <b>.1</b> 2	21:86
2,680	28,137	1,893	144	3	4	32,80 <b>1</b>	34.77	34.41	45.58	27.10	18.87	56·34	34.83
4,036	27,907	298	80	3	5	32,329	29.47	31.97	28.62	17.68	13:76	<b>4</b> 9•50	31.5
2,234	<b>18,11</b> 8	61	11			20,424	22.10	23.92	18-86	10.46		•••	23.6
583	11,652	31	<b>3</b> 87	1	· 4	12,658	<b>2</b> 0 <sup>.</sup> 29	<b>S0</b> ∙37	2 <b>4</b> ·78	<b>23</b> 13	71.43	<b>47</b> •06	29.4
1,197	<b>15,0</b> 76	166	20	244	2,072	18,775	2 <b>1</b> ·61	<b>26·3</b> 6	· 16•90	19•05	20.71	506·35	28.71
1,736	5,893	30	• 10	52	944	8,665	25.62	30.54	9·8 <b>3</b>	9.50	18.77	24.16	28.25
1,470	<b>1</b> 5,403	72	147	•••	5	17,103	23.23	25.76	10.89	6.03		<b>2</b> 94 <b>·11</b>	24.78
473	4,010	18	10	1	1,307	5,819	<b>21</b> ·24	14.62	11.67	5.23	<b>4∙9</b> 0	58.13	<b>18</b> -03
2,645	19,764	866	91	26	20	23,412	28.74	28.51	24.12	25·39	<b>15·8</b> 6	20.24	<b>2</b> 8·29
6,757	4,044		63	38	19	10,921	17.05	<b>36·1</b> 9		17.38	<b>17·2</b> 6	10.71	21.15
6,730	3,892	5	2		25	10,654	1					·ſ	<b>17·4</b> 3
3,313	3,421	6	3		9	6,752	 	21.75	<b>17·</b> 26	24· <b>1</b> 9		3.95 {	<b>15</b> -58
5,324	2,316	1	1		20	7,662	].					- L	17.08
9,722	2,266				7	11,995	17.44	<b>22-2</b> 8		•••		4·39	18· <b>1</b> 5
6,708	4,809	2		•••	19	11,538	16.18	<b>3</b> 0•99	666.67		•••	<b>5</b> •58	20.12
2,995	59;		<u> </u>	•••		3,592	12.69	<b>22·</b> 53	•••	•••			<b>13.</b> 60
77,887	419,061	5,026	3,423	1,428	4,788	511,613	<b>1</b> 9.53	28.09	23.70	17.88	17.72	24.57	26.12

include Hindus of all castes. "Other Classes" include Buddhists, Sikhs, Jews and all others,

ANNUAL FORM NO. VI.-DEATHS registered from DIFFERENT CAUSES in the

1	2	3	4	5	6	7	8	9			
·											Ікл
No.	Districts and Towns.	Population according to Census of	Cholera.	Small-pox.	Plague.	Fevers.	Dysentery and Diarrhœs.	Diseascs.	S	nicide.	Wanadiaa
1 1		1911.						Respiratory Diseases.	Male.	Female.	Wounding or Accident.
	A.—DISTRICTS. Western Registration District.				 	•					
1 2 3 4 5	East Khándesh West Khándesh Násik Thána Kolába	903,053 538,084 813,511 791,861 567,043	24 22 9 47	29 16 121 83 37	370 2 6,284 414 40	11,120 6,755 10,451 13,354 8,933	1,449 200 877 487 1,012	3,706 1,422 2,458 872 595	9 1 25 9	7 3 1 35 3	194 108 189 227 193
	Central Registration District.		х								
6 7 8 9 10	Ahmednagar Poona Sholápur Sátára Ratnágiri	888,096 859,267 660,338 1,025,700 1,136,710	  1 1	 21 36 20 91	393 1,319 5,187 2,729 12	*8,431 10,498 8,435 11,148 12,307	2,419 1,845 2,416 2,700 3,626	3,706 2,784 1,218 1,825 3,795	3 3 4 8 13	5 4 3 17 5	180 222 216 335 211
	Southern Registration District.										
11 12 13 14	Belgaum Dhárwár Bijápur Kánara	869,243 885,871 792,582 382,278	1 15  11	4 72 26 265	8,538 5,291 684 46	5,574 7,278 7,455 4,796	2,647 984 1,554 875	2,612 2,972 1,995 390	16 17 22 5	11 31 23 	881 232 244 129
	Gujarát Registration District.	· · ·									
15 16 17 18 19	Surat Broach Kaira Panch Maháls Ahmedabad	512,580 242,979 594,309 291,248 568,530	2  40 29	··· 1	362 178 108 86 25	7,400 4,090 5,431 3,565 10,342	301 102 538 29 145	3,513 1,060 4,081 256 1,240	8 3 5 9	16 5 20 3 15	$140 \\ 74 \\ 198 \\ 65 \\ 153$
	Sind Registration District.							~			
20 21 23 24 25 26	Karáchi Hyderabad Thar and Párkar Nawabshah Lárkána Sukkur Upper Sind Frontier.	351,401 523,747 424,563 436,579 628,336 468,207 251,646	1   25	10 2   	200 438  78 6 117 	4,100 6,431 5,368 6,606 10,375 6,999 2,908	44 72 127 39 39 55 43	140 121 293 86 53 61 79	3 2 4 4 3 1	6 3 1 3 2 3	$\begin{array}{c} 65 \\ 53 \\ 60 \\ 105 \\ 151 \\ 123 \\ 48 \end{array}$
	Total of Districts	16,407,762	229	843	32,907	200,150	24,625	42,333	189	228	4,296
	BTOWNS. East Khándesh		<u> </u>								
1 2 3 4 5 6 7	District. Jalgaon Bhusáwal Chopda Dharangaon Párola Amalner Erandol	18,812 17,008 15,607 14,177 13,232		   	· 1 2 … 1 … 1	147 242 152 119 117 136 168	27 31 19 11 7 31	87 56 70 115 70 48 72	•••• •••• ••• •••	••• ••• ••• •••	6 9 9 8 2 2 4

			11	12						13		- -			14
ries,							RA	TIO OF DE	ATHS PER	<b>1,</b> 000 oj	POPULAT	210N.			
Snake- bite,			All other causes.	Total Deaths from all causes.					ry and	Discases.		All other		all Causes.	No.
or killed by wild beasts.	Rabies.	Total.			Cholera.	Small-pox.	Plague.	Fevers.	Dysentery Diarrhœa.	Respiratory Discases	Injuries.	causes.	For the year.	Mean of previous five years.	
45 56 56 180 40	7 5 7 10 9	263 173 255 477 254	9,984 5,305 9,475 4,158 4,544	26,945 13,895 30,930 19,892 15,415	· 03 04 ·01 ·06 ···	·03 ·03 ·15 ·10 ·07	·41 ·00 7·72 ·52 ·07	12·31 12·55 12·85 16·86 15·75	1.60 •38 1.08 •62 1.78	4·10 2·64 4·25 1·10 1·05	·29 ·32 ·31 ·60 ·45	11.06 9.85 11.65 5.25 8.01	29.84 25.82 38.02 25.12 27.18	38·96 36·33 37·52 26·70 28·56	$\begin{vmatrix} 1\\ 2\\ 3\\ 4\\ 5\\ \end{vmatrix}$
43 55 28 141 268	6 13  27 3	237 297 251 528 500	7,755 5,155 4,899 6,718 4,532	22,941 21,920 22,442 25,669 24,864	00  .00 .00	·02 ·05 ·02 ·08	•44 1•58 7•86 2•66 •01	9·49 12·22 12·77 10·87 10·82	2·72 2·15 3·66 2·63 3·19	4·17 3·24 1·84 1·78 3·34	·27 ·35 ·38 ·52 ·44	8·73 6·00 7·42 6·55 3·99	25.82 25.51 33.98 25.03 21.87	31.09 28.35 31.01 29.11 21.72	6 7 8 9 10
51 38 27 13	10 2 3 1	469 320 319 148	10,678 10,859 6,508 5,014	30,523 27,791 18,541 11,545	·00 ·02 · ·03	•00 •08 •03 •69	9·82 5·97 ·86 ·12	6·41 8·22 9·40 12·55	3·05 1·11 1·96 2·29	3.01 3.35 2.52 1.02	•54 •36 •40 •39	12·28 12·26 8·21 13·12	35·11 31·37 23·39 30·20	32•25. 38•73 33•35 32•39	11 12 13 14
46 31 104 47 97	6 2 17 1 15	216 115 347 121 289	2,609 1,288 3,713 874 1,331	14,409 6,833 14,219 4,971 13,404	·00  ·14 ·05	·01 ·00 ·01	·71 ·73 ·18 ·30 ·04	14·44 16·83 9·14 12·24 18·19	·59 ·42 ·92 ·10 ·25	6.85 4.38 6.87 .88 2.18	·42 ·47 ·58 ·41 ·52	5-09 5-30 6-25 3-00 2-34	28·11 28·13 23·94 17·07 23·58	30-99 37-68 33-00 22-52 32-49	15 16 17 13 19
<b>45</b> 67 49 53 83 44 22	3 1 4 1 2 1	122 126 116 168 243 173 ' 74	450 465 405 241 308 242 154	<b>5,0</b> 67 7,655 6,309 7,218 <b>1</b> 1,024 7,672 3,258	•00   •05	•03 •00   	•57 •84 •18 •01 •25	11.67 12.28 12.64 15.13 16.51 14.95 11.56	·13 ·14 ·30 ·09 ·06 ·12 ·17	•40 •23 •69 •20 •08 •13 •31	·35 ·24 ·27 ·38 ·39 ·37 ·29	1·28 ·89 ·95 ·55 ·49 ·51 ·61	14.42 14.62 14.86 16.53 17.54 16.39 12.95	12.62 13.51 17.35 15.26 20.29 16.80 14.18	20 21 22 23 24 25 26
1,732	151	6,601	107,664	415,352	•01	•05	2.01	12.20	1.20	2.58	•40	6.26	25.81	28.97	
 <sub>1</sub>	  1	6 9 11	194 171 93	462 521 345	:54		·06 ·11	8.55 13.22 8.93	1·57 1·69 1·12	5·06 3·06 4·12	•35 •49 •64	11·28 9·34 5·47	26·87 28·45 20·28	32·73	<b>1</b> 2 3
••• ••• •••	4  1 2-8 d	7 2 2 5	141 123 43 89	393 322 238 363	•••	·14	•07	7.62 8.25 10.28 12.63	·71 ·49 ·53	4·12 7·37 4·94 3·63 5·48	·45 ·14 ·15 ·38	9·03 8·68 3·25 6·77	25·18 22·71 17·84 27.62		4 5 6 <b>7</b>

DISTRICTS and TOWNS of the BOMBAY PRESIDENCY during the year 1915.

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## ANNUAL FORM No.

	1	_2	3	4	5	6	7	8	9			10
						•						INJU
	No.	Districts and Towns.	Population according to Census of	Cholera.	Small-pox.	Plague,	Fevers.	Dysentery and	Disensce.	Su	icide.	Wounding
3			1911.					Diarrhœa,	Respiratory Diseases.	Male,	Fomale.	Accident.
		B.—TOWNS— continued.					ĸ					
•		East Khándesh— District—continued.										
	8 9	Nasirabad Chálisgaon	18,033 9,453	•••	3	***	77 149	47	79 35	•••	F	4 
,		West Khándesh District.		 			•					
	10 11	Dhulia Nandurbár	30,75 <b>7</b> 11,839	•••		2	ໍ <b>145</b> 104	10 13	<b>1</b> 31 35	**; ***	1	8 2
		Násik District.										
	12 13 14 15 16 17 13	Násik Yeola Igatpuri Manmád Trimbak Deoláli Cantonment.	33,163 16,275 19,542 8,380 6,947 4,078 1,748	••• ••• •••	2   	635 7 193 10 10 	140 160 242 49 68 24 6	58 35 39 3 6 12 6	226 128 48 33 11 26 10	1	· · · · · · · · · · · · · · · · · · ·	26 4 7 2 8 2 
	÷	Thána District.										
	19 20 21 22 23 24	Thána Bándra Kurla Bhiwandi Kalyán Bassein	15,591 22,885 15,081 13,292 12,600 9,598	···· ··· ··· 1	1 8 1 • 1 	1 <b>1</b> 36 1 79 25 39	109 - 77 188 160 129 72	35 49 37 34 17 9	38 38 8 17 36 13	2 1  	1 1 	7 19 5 2 4 3
		Kolába District.										
	25 26 27 23	Alibág Panvel Mahád Uran	6 104	•••	*** *** ***	2 72  40	15 57 57 47	. 5 7 7 4	11 17 9 3	 	  	$2 \\ 5 \\ 4 \\ 2$
	29	City of Bombay	963,363	15	355	598	2,056	2,145	7,860	40	19	486
		Ahmednagar District.										
	30 31 32	Sangamner	14,269	1 		52 	292 111 3	94 25 1	318 36 24	2  	•••	10 
		Poona District.										
	33 34 35	Baramati	10,190	9	51 	255 1 1	1,267 98 50	679 28 23	770 38 34	1	***	17 2 1

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## I-continued.

			11	12				<u></u>		13					14
IDS.							Ra	TIO OF DE	EATUS PER	: <b>1,</b> 000 o	P POPULAT	cion.			
Sanke- bite,	Rabies.	<b>7</b> 1.4.1	All other causes.	Total Deaths from all <b>causes</b> ,		Smell por	- TDIa	,	ery and	ratory	 	All other		11 Causes,	No
r killed y wild Joasta		Total.			Cholera,	Small-pox.	Plague.	Fevers.	Dysënte Diarrhæa	R e s p i r Diseases.	Injuries.	causes.	For the year.	Mean of previous five years.	
•••	•••	4	<b>1</b> 60 49	367 240	••••	 ·32		5·91 15·77	3.61 .42	6∙06 3∙70	·31 	12·27 5·18	28·16 25·39		
•••• <sub>2</sub>		8 5	128 120	424 277	•••	•••	•06 	4·72 8·78	·32 1·10	4•26 2·95	•26 •42	4·16 10·14	<b>13·7</b> 8 23·39	29·22 30·45	1(
1 1 	   	28 8 7 2 8 2 	474 132 150 42 50 48 32	1,563 470 812 130 153 112 54	···· ···· ····	•06 5 81  	19·15 ·43 9·88 1·20 1·44 ···	4·22 9·83 12·38 5·84 9·79 5·88 3·43	1.75 2.15 1.99 .36 .86 2.94 3.43	6.82 7.86 2.45 3.94 1.58 6.38 5.72	·84 ·49 ·36 ·24 <b>1·15</b> ·49 	14·29 8·12 7·68 5·01 7·20 11·77 18·31	47.13 28.88 41.55 16.59 22.02 27.46 30.89	41·20 31·17   	1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1
"1  2 	 2 1 3 1 	10 24 6 7 3	$202 \\ 275 \\ 63 \\ 154 \\ 42 \\ 113$	406 507 304 451 256 255	···· ···· ·10	•06 •35 •06 •08 	•71 1•57 •06 5•94 1•98 4•06	6.99 3.36 12.47 12.04 10.24 7.50	2·24 2·14 2·45 2·56 1·35 -94	2·44 1·66 ·53 1·28 2·86 1·35	·64 1·05 ·40 ·45 ·56 ·31	12.96 12.02 4.18 11.58 3.33 12.30	26.04 22.15 20.15 33.93 20.32 26.56	33.88 28 83  26.25 29.22	19 20 21 22 23 24
```1 	 1 	2 7 4 3	50 83 86 48	85 243 163 145	•••	···· ····	•59 9·30 4·57	4·47 7·36 7·96 5·38	1·49 ·90 ·98 ·46	3·28 2·20 1·25 •34	·59 ·90 ·56 ·34	14·89 10·72 12·00 5·49	25·31 31·38 22·75 16·58	40·22 31·84 2 <b>1</b> ·16 	25 26 27 28
5	10	560	9,698	23,287	•01	•37	•62	2.13	<b>2·23</b>	8·16	·£8	<b>1</b> 0·0 <b>7</b>	24·17	35-45	29
1		13  	178 45 15	948 217 43	·03	•••	1·53 	8·62 7·78 •39	2·77 1·75 ·13	9·39 2·52 3·10	•39 ••• •••	5·25 3·15 1·94	27·98 15·20 5·56	26·55 20·25 9·28	30 81 32
  1	 	23 3 2	57	4,078 225 170	·07	·41	2·02 ·10 ·12	10.04 9.62 6.21	5·38 2·76 3·10	· 6·10 3·73 4·22	·18 ·29 ·25	8·11 5·59 7·20	32·31 22·09 21·10	43·21 29·53 19·36	334 35

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# ANNUAL FORM No

1	2	3	4	5	6	7	8	9			1
			τ								<b>1</b> 233.
No.	Districts and Towns,	Population according to Census of	Cholera.	Small-pox.	Plague.	Fevers,	Dysentery and Diarrho:a,	Diseases	St	iicide,	Wounding
		1911.		•				Respiratory Diseases.	Male.	Female,	Accident.
	B.—TOWNS— continued.									-	
	Poona District— continued.				]	,			}		
36 37 38 39	Lonávla Junnar Poona Cantonment . Kirkee do	12,295 8,820 30,958 9,019	••• ••• •••	····	166 74 20 2	132 38 125 41	23 9 /41 40	38 13 100 65		1 	9 3  6
•	Sholápur District.										
40 41 42	Sholápur Bársi Pandharpur	61,032 18,097 28,550	6. 	 1 1	1,894 653 35	985 274 482	858 58 211	317 41 94	5 	3	56 11 11
	Sátáru District.				-						
43 44 45 46 47	Sátára Wái Karád Ashta Islámpur	18,665 7,280 11,228 9,351 8,574	····	••• ••• ••	2 95 249 154 404	156 66 63 34 5	79 23 31 21 14	100 18 10 14 32	1	···· 1 ··· 1	7 1 9 4 3
·	Ratnágiri District.										
48 49 50 51	Ratnágiri Vengurla Málvan Chiplun	15,822 17,294 22,080 11,696	•••• ••• •••	 1 2 	 	146 158 210 104	120 84 31 14	41 49 59 84		••• •••	<b>9</b> 6 3 3
-0	Belgaum District.	01 151			0.10		• •				-
52 53 54 55 56	Belgaum Gokák Athni Nipáni Belgaum Canton- ment.	31,451 7,826 13,849 10,779 9,300	2	••• ••• •••	343 188 394 47 16	<ul> <li>110</li> <li>\$5</li> <li>54</li> <li>27</li> <li>20</li> </ul>	40 20 81 27 14	122 50 51 49 34	  1	···· ···· ···	7 3 13 9 
• * .	Dhárwár District.						•				
57 58 59 60 61	Dhárwár Hubli Gadag-Bettigeri Ránebennur Navalgund	29,370 61,440 80,429 10,931 7,045	· · · · · · · · · ·	•••	82 105 16 482 	134 223 145 16 30	77 88 138 14 5	199 571 207 73 44	  	2 2  	14 81 11 4 4
	Bijápur District.	}							}		
62   63   64   65	Bijápur Bágalkot Guledgudd Ilbal	15,249	 1  1	••••	257 13  15	60 70 74 51	59 59 18 5	165 72 35 85	   1	1 1 	10 0 3 3

## VI-continued.

	•		<u>n</u>	12			· • • • • • • • • • • • • • • • • • • •		1	13					14
RIE3.							BATI	O OF DEA	THS PER	1,000 0	F POPULA	TION.			
Snake- bite,			All other causes.	from all					eryand.	Diseases.			From a	all Causes.	N
r killed by wild beasts.	Rabies.	Total.		causes.	Cholera.	Small-pox.	Plague.	Fevers.	Dysente Diarrhœa.	Respiratory Diseases.	Injuries.	All other causes.	For the year.	Mean of previous five years.	
									. •					-	
• • • • • •	  	10 3  6	87 27 297 70	456 164 583 224	•••	 	13·50 8·39 ·65 ·22	10·74 4·31 4·04 4·55	1.87 1.02 1.32 4.43	3·09 1·47 3·23 7·21	•81 •34 •67	7·08 3·06 9·59 7·78	37·09 18·59 1 <u>\$</u> ·83 24:84	30.09 21.77 23.61 31.38	36 37 <b>3</b> 8 39
4 1	 1 	48 12 13	1096 254 302	5,204 1,293 1,138	·10	••06 •03*	31·03 36·08 1·23	16·14 15·14 16·38	14·06 3·20 7·39	5-19 2-27 3-29	•79 •66 •46	17.96 14.04 10.58	85·27 71·45 39·86	65·55 56·75 52·64	4( 4] 42
1   1	1  	10 1 10 4 4	176 41 70 67 85	• 523 244 433 294 494	•••	•••• ••• •••	·11 13·05 22·18 16·47 47·12	8·36 9·07 5·61 3·64 •58	$\begin{array}{c} 4 \cdot 23 \\ 3 \cdot 16 \\ 2 \cdot 76 \\ 2 \cdot 24 \\ 1 \cdot 63 \end{array}$	5•36 2•47 •89 1•50 3•73	•53 •14 •89 •43 •49	9·43 5·63 6·23 7·16 4·08	33·52 38·56 31·44	40·77 41·07 22·35 21·18 30·32	43 44 45 46 47
4) ] ] ]	••••	7 9 11 3	62 133 104 21	376 435 417 226	1 	 .06 .09	 •06 	9·23 9·14 9·51 8·89	<b>7·58</b> 4·86 1·40 1·20	2·59 2·83 2·67 7·18	•44 •52 •50 •25	3·92 7·68 4·71 1·80	23.76 25.15 18.88 19.32	16.62 26.37 19.57 21.01	48 49 50 51
1 1 1 	1  	8 4 14 11 	297 69 111 68 82	922 366 655 229 166	•06	  	1091 25.66 28.45 4.36 1.72	3·50 4·78 3·90 2·50 <b>2·1</b> 5		3.88 6.82 3.69 4.55 <b>3</b> .66	·26 •55 1·01 1·02 	9·44 9·42 8·01 6·31 8·82	20-32 49-96 47-30 21-25 17-85	25·82 63·75 28·09 28·39 18·07	52 53 54 55 56
2  	 3 	18 58 14 4 4	$396 \\ 835 \\ 283 \\ 241 \\ 46$	906 1,870 803 830 129	···· ··· ···	•••• ••• •••	2·79 1·71 ·52 44·09 ···		1·43 4·53	6·78 9·27 6·81 6·68 6·25	-81 -62 -46 -37 -57	13·48 13·59 9·31 22·05 6·53	30·44 26·39 75·93	<b>33·78</b> 37·52 42·33 48·39 35·35	57 58 59 60 . 61
  1		11 7 3 5	139	761 564 269 289	•06 ••06		9·32 •75 ••47	4∙05 4•85	3·41 1·18	5·98 4·16 2·29 3·42	·40 ·40 ·20 ·49	7·58 19·78 9·12 17·30	32·61 17·64	32-79 • 45-16 34-99	02 02 64 65

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Ňo.	Districts and Towns.	Population according to Census of	Cholera,	Small-pox.	Plague,	Fevers.	Dysentery and	Discascs.	S	ucide.	Isj 6
		1911.					Diarrhæa,	Respiratory Discases.	Male.	Female	W o u n d i n g Accident.
,	BTOWNS- continued.	, ·			•						
66 67 68 69 70	Kánara District. Kárwár Kumta Gokarn Honáwar Bhatkal	18,045 10,343 5,304 7,323 7,141	- 1	2  5 2 	 	88 74 31 44 52	57 23 20 19 20	21 35 21 9 18	••••	••• ••• •••	2 2  1 2
71 72 73	Surat District. Surat Bulsár Ránder	114,73 <b>3</b> 15,972 10,689	•••		757 21 3	509 70 63	270 23 14	1,131 103 79	32		11 6 3
74 75 76	Broach District. Broach Jambusar Ankleshwar	48,353 8,991 11,344	••••		2 55	210 129 187	<b>3</b> 9 12 4	473 96 41	2	1	20 3 3
	Kaira District.				•••			., •	-		
77 78 79 80 81 82 83 84	Kaira Mehmadabad Nadiád Borsad A'nand Umreth Dakore Kapadyanj	7,297 6,330 27,145 11,860 10,139 13,651 7,7^5 18,126	•••• ••• ••• ••• •••	···· ···· ····	····	56 34 352 61 121 62 109 121	5 8 17 28 16 14 18 17	$     \begin{array}{r}       103 \\       36 \\       271 \\       144 \\       43 \\       149 \\       63 \\       106     \end{array} $	···· ··· ··· ··· ··· 1	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	1 18 6 2 6 3 4
	Panck Maháls District.										
85 86	Godhra Dohad Ahmedabad District.	<b>22,102</b> 9,303	55 45		2 	125 281	20 4	40 1		••• •••	7 1
87 88 89 90 91	Ahmedabad Dhandhuka Viramgám Dholka Ahmedabad Canton- ment.	214,000 8,040 20,769 13,693 2,305	•••	  	1  	4,152 97 317 106 19	240 12 11 14 	2,530 63 126 96 4	, <sup>5</sup>  	2  	85 2 7 12
92 93 94 95	Karáchi District. Karáchi Tatta Kotri	140,511 11,161 7,256 6,004	  	  	1,107 15 98 9	847 113 140 21	131 8 8 1	956 17 49 	2  	•••• ••• •••	63  4 

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# VI-continued.

			11	12		-			13	<b>1</b>		· · ·			14
AILS.							RATIO	OF DEA	THS PER	1,000 ог	POPULAT	lon,	·····		
Snake- bite,			All other causes,	Total Deaths from all					Dysentery	Discuscs.		All other	<sup>\$</sup> From a	ll Causes.	No
r killed by wild easts,	Rabies.	Total.		C3,U305.	Cholera,	Small-pox.	Plague,	Fevers.	Diarrhœa,	Respiratory Diseases.	Injurics.	causes.	For the year.	Mean of previous five years.	
×										-					
"1 …	  1 	2 3  2 2	170 132 121 70 69	341 267 198 146 161	·06  	·11  ·94 ·27 	•••	4.88 7.15 5.84 6.01 7.28	3·16 2·22 3·77 2·59 2·80	1.16 3.38 3.97 1.23 2.52	·11 29  ·27 ·28	9.42 12.76 22.81 9.56 9.66	18·90 25·81 37·33 19·93 22·55	20·56 28·81 37·71 24·44 20·17	6 6 6 6 7
1 	 2	15 8 6	1,114 78 102	3,796 303 267	  	•••	6·59 1·31 ·28	4·43 4·38 5·89	2.35 1.45 1.31	9·88 6·45 7·39	•13 •50 •56	9·71 4·88 9·54	33·09 18·97 24·97	23·07 30·60 	7: 7: 7:
 3 1	•••	23 6 4	455 26 71	1,201 324 307			·04 6·12 	4.84 14·35 16·48	•88 1•33 •35	10.91 10.68 3.61	•53 •67 •35	10·50 2·89 6·26	27·70 36 04 27·05	\$2·93 32·29 	74 74 70
1  3 1 1 1  	1   1  2	3 21 8 4 8 4 8	38 75 261 98 95 129 59 117	205 155 922 339 279 362 253 369	••••	···· ··· ··· ···	••••	$7.66 \\ 5.37 \\ 12.97 \\ 5.14 \\ 11.93 \\ 4.54 \\ 14.00 \\ 9.22 \\ $	·69 1·26 ·63 2·36 1·58 1·03 2·31 1·29	14.12 5.69 9.98 12.14 4.24 10.91 8.09 8.08	·41 ·32 ·77 ·68 ·40 ·59 ·52 ·61	5·21 11·85 9·61 8·26 9·37 9·45 7·58 8·91	28.09 24.49 33.96 28.58 27.52 26.52 32.50 28.11	36·74 46·94 37·45  36·02	77 78 79 80 81 82 83 84
1 1	••• •••	8 2	187 78	437 411	2·49 4·83		•09 	5·66 30·21	•90 •43	1.81 .11	·36 ·22	8·46 8·58	19·77 44·18	7·16 42·39	85 86
4 2 1 2	2 1  2 	98 5 8 16	1,683 59 170 179 1	411	•••	···· ·04	•00 •••• •••	$19.40 \\ 12.00 \\ 15.20 \\ 7.74 \\ 8.24$	1·12 1·49 ·53 1·02 …	11.82 7.84 6.07 7.01 1.74	•46 •62 •39 1·17 	7.87 7.34 8.19 13.07 .43	40.67 29.35 3().48 30.01 10.41	47·23  36·51 43.08 12·84	88 89 90 91
•••	3	71  4 	2,082 95 20 51	245 320		·06	7.88 1.34 13.51 1.50	6.03 10.12 19.20 3.50	-93 -72 1.10 -17	0.80 1.52 6.75	·51 •55	14·82 8·24 2·76 9·16	37·03 21·95 44·10 14·32	42·33	92 93 94 95

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1	2	5	4	5	6	7	8	ø			
No.	Districts and Towns.	Population according to Consus of	Cholers.	Small-poz.	Plogue.	Fovers.	Dysentery and Diarrhoa.	Respiratory Discasc <b>s.</b>	5	aicide.	1:
		1911.					Darnœa.	Respiratory	Male.	Female.	Woundin or Acciden:
	BTOWNS- concluded.										
	Hyderadad District.	• .		x.							
96 97 98 99	Hyderabad Halla Matiari Hyderabad Canton- ment.	69,140 5,853 6,487 5,883	***	  	372 5 257 <b>8</b> 5	974 - 90 41 68	78  	542  11		• • • • • • • • • • • • • • • • • • •	28 5 2 1
	Thar and Párkar District.	· •									
100 101	Umarkot Mirpurkhas	3,946 4,856	•••	•••• •••	••• 5	116 210	2	28 64		 	•••
	Nawabshah District.										
102 103	Nawabshah Tando Adam	• 1,886 • 10,013		•••• •••	.3 44 ·	40 303	1 2	37		•••	1 3
	Lórkána District.		~								
104 105 106 107	Lárkána Kambar Ratodero Sehwan	16,046 6,286 5,411 4,749	**1 - 4 ; * * *	1 144 144 144	49  1	277 163 109 92	1 1 3 1	14 - 3 2 6		* •••• •••	4 6 1
	Sukkur District.										
108 109 110 111	Sukkur Shikárpur Rohri Garhi Yasin	<b>34,</b> 916 53,944 9,919 6,549	  	1 ••• •••	113 79 62 3	574 1,288 194 210	· 43 28 23 1	83 91 22	1 2 	· 1	12 15 2 1
	Upper Sind Frontier District.	· · ·									
112	Jacobabad	11,340		•••	39	193	*4	3	1	•••	1
	Total of Towns	8,179,621	148	582	10,917	24,647	7,082	21,031	82	40	1,269
	Total for the Presi- dency	19,587,383	377	1,425	43,824	224,797	31,707	63,364	271	268	5,565

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N. B .- Districts A in this statement do not include the population or deaths or

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			J1	12 •			•			13					14
							Rs	rio of Di	ЗЛТИВ РЕ	R 1,000	or Porul	ATION.			
Snalte-			All other	Total Deaths			{		Bnd	Dista-			From a	all Causes.	No
bite, r killed .y wild le usta	Rabies.	Total.	causes.	from all causes.	Cholera.	Small- pox.	Plague.	Fevérs.	Dysentery Diarrhoa.	Respiratory Disca- ses.	Injuries.	All other causes.	For the year.	Mean of previous five years.	
•••	••••	28 5 2 2	404  26 55	2,399 100 340 160	•••	·01  	5•38 •85 39•62 5•95	14.09 15.38 6.32 11.56	1·13 ···· ·46	7·84 1·70	·40 ·85 ·31 ·34	5·84 4·01 9·35	34·70 17·08 52·41 27·20	83·73	
	 	 1	12 10	151 292	•••	•••	 1·02	29 <b>·4</b> 0 43·25	·41	5·83 13·18	· ·21	3·04 2•06	38·27 60·13	42.05	1( 1(
•••		· 1 3	$\frac{1}{36}$	49 395	•••		1.59 4•39	21·21 30·26	·53 ·20	1 59 •70	•53 •30	•53 3•60	25•98 39•45	••1 •••	1( 1(
•••	  	4 6 1 2	173 15 12 30	518 193 128 132	••••	•••	3•05  ·21	17-26 26·73 20•14 19·37	·06 ·16 ·55 ·21	•\$7 •48 • <b>5</b> 5 <b>1•2</b> 6	·25 ·95 ·18 ·42	10·78 2·39 2·22 6·32	32-28 30-70 23-66 27-80	34·10  	1( 1( 1( 1(
  	•••	14 17 3 1	157 827 30 2	98 <b>5</b> 2,330 334 217	•••	•03  	3·24 1·46 6·25 ·46	16·44 23 88 19·56 32·07	1·23 •52 2·32 •15	2·38 1·69 2·22 	•40 •31 •30 •15	4·49 15·33 3·02 ·31	28·21 43 <b>·19</b> 33·67 33·13	27·59 39·24 	1( 1( 11 11
•••	•••	2	93	334		•••	3.44	17.02	·35	•26	•17	8.20	29•45	24.69	11
· 65	56	1,512	30,342	96,261	•05	•19	3.43	7.75	2.23	6.61	•48	9.54	<b>3</b> 0·28	32.78	
,797	212	8,113	138,000	511,613	•()2	-07	2.24	11.48	1.62	3.23	•41	7.05	26.12	<b>2</b> 9·93	

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	2		3	4							l	5							e			7		
		CIBI OP R TEAL	2G19-	VILLA	G 158.	1													FOTAL.		1.1	9 OF U 14 1,005 FC 6411	02	Previous
No.	Districts.	Number in cach	Number from when deaths from cholera ware reported.	Number in cach District.	Number from which deaths from alcolora were reported.	Janury.	Fehruary.	Murch.	April.	May.	June.	duly.	Angust.	September.	Uctober.	November.	December.	Male.	Femsle.	Tedal.	Mule.	Female.	Total.	Mean ratio per L(60) of p
_	Western Registration District.																							
12345	East Khändesh West Khändesh Näsik Tuäns Koläba	10 19 17 14	39998	1,479 1,006 1,649 1,643 1,401	8 5 2 4 		••• ••• ••	1 1 1 1 1		:29 	1 1 1 1 1	* 7 * 7 2	1 3 ° 1	1	3 1 1 o	1 1 1	21 22	19 15 4 23	16 7 5 25	24 22 9 48	-03 -05 -04 -05	-03 -02 -01 -00	103 104 101 105	1-55 1-54 1-42 -64
6	City of Bombay Central Registration District.	1	1	1	1			2	3		3	Ż	5	•••		•••	•••	'n	4	15	*Ú1	ÚÌ	τÙΙ	-43
7 8 9 10 11	Abmednagar Poona Sholapur Satara Ramágiri		1 2 1 1 1	1,249 1,291 718 1,346 1,311	1 2 1 1 1	1111	i - i - i	1 3  1	3 2 3 2 3	: 1 : : : : : : : : : : : : : : : : : :	: : : : : :	""1 3 	1 3 K M		1111	1 : 1 : :		1 7 4 1	: : : : : : :	1 10 6 1	-00 -01 -00 -00	00 001 001 00 00	0-1	2.17 2.18 1.01 2.16 1.2
	Southern Registration District.																	_		-	00	00		-12
12 13 14 15	Belgaum Dharwar Bijipur Kanara	15 13 13 16	384	1,070 1,295 1,122 1,265	2 4 2 4	*** *** ***	7	 5 1 3	3 1		 	3	 					1 9 1 8	9 6 1	3 15 2 12	•00 •02 ••• 0•4	*00 *01	-03 -01 -01	1:04
	Gujardt Registration District	-																	· ]	**	0.4	°02	<b>.</b> 03	•23
16 17 19 20	Surat	12 9 15 7 13	1  5 2	76) 409 555 66) 650	1  12 4		1111	1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·	1111	11:2	  2 2)	::1 <sup>28</sup> ai	<b>7</b> 2		1111	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	1 68 17	1  73 12	2  149 29	-41 -41 -94	  	• ••• ••• •43 •04	•22 •24 •31 •13
11224282	District, Karáchi Hrderabad Thar ard Párkar Nawabshah Lárkána Cakkar Upper Sind Prontier.	18 11 13 9 15 12 7	2	665 544 901 721 737 634 432	2	*** *** *** *** ***	11111		::: <b>:</b> 4	2 		•••••		: { ] { ] ] ] ]	: : : : : :			1 	1	2				18 1 1 7 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Total for the Presi- dency.	351	33	36,253	61	10	18	16	2)	42	19	31	73	75	17	1	46	2.2	175	377	12	20.		- 33

## ANNUAL FORM NO. VII.-DEATHS registered from CHOLERA in the DISTRICTS of the BOMBAY PRESIDENCY during each month of the year 1915.

## ANNUAL FORM NO. VIII.—DEATHS registered from SMALL-FOX in the DISTRICTS of the BOMBAY PRESIDENCY during each month of the year 1915.

| •                                                                                                 | Cr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RCLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Khändesh       19       10       1.648       53       22       21       27       19       10         Thara       17       12       1.648       53       56       12       9       16         Kolätä       14       7       1,401       23       5       6       12       9       16         Kolätä       11       1       1       17       16       51       60       68         Cestral Revistration       13       8       1,541       3       9       17       13       7         Statira       13       8       1,541       14       15       13       13       13       13       14       14       14       15       13       13       14       14       14       14       14       14       14       14       14       14       14       14       14       14<!--</td--><td>Western Repirtration       22       7       1,432       12       1       3       8       13       3         East Khändesh       10       4       1,463       5       22       21       1       3       8       13       3         West Khändesh       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30       18       16         Costrat                 <!--</td--><td>Western Replictation         District       22       7       <math>1,438</math>       12       1       1       3       6       13       1       1       1         East Rhandesh      </td><td>Western Replatration       22       7       1,438       12       1       1       3       8       13       3       1       1       1       1       1       3       8       13       3       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       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   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  1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication         District.       22       7       1,433       12       1       1       3       8       13       3       10       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       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       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication<br/>District.       22       7       1,433       19       1       1       3       6       13       3       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication         District.       22       7       1,438       12       1       1       3       8       13       3       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td></td><td>West Reprint Repri</td><td></td><td>Western Registration         Distriction         Distriction         Cast Rhandeah      </td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td></t<></td></td></th<></td></td> | Western Reprint Alignment       22       7       1,433       12       1         East Khändesh       10       4       1,466       3       3         West Khändesh       10       4       1,466       3       22       7       1,433       12       1       1         West Khändesh       10       4       1,466       3       22       21       1       1       3         Stelik | Western Replication       22       7       1,438       12       1       1       3         East Rhadesh | Western Registration       22       7       1,433       19       1       1       3       6         East Khändesh | Western Reprint Autom       22       7       1,433       12       1       3       8       13         East Khändesh       19       4       1,668       5       22       21       27       1,433       12       1       1       3       8       13         West Khändesh       19       10       1.648       53       22       21       27       19       10         Thara       17       12       1.648       53       56       12       9       16         Kolätä       14       7       1,401       23       5       6       12       9       16         Kolätä       11       1       1       17       16       51       60       68         Cestral Revistration       13       8       1,541       3       9       17       13       7         Statira       13       8       1,541       14       15       13       13       13       13       14       14       14       15       13       13       14       14       14       14       14       14       14       14       14       14       14       14       14       14 </td <td>Western Repirtration       22       7       1,432       12       1       3       8       13       3         East Khändesh       10       4       1,463       5       22       21       1       3       8       13       3         West Khändesh       10       4       1,463       5       22       21       10       1       2       3         Stälk        17       12       1,431       53       52       21       21       9       16       3         Kolkts        14       7       1,401       20       5       4       7       5       5       7         City of Dombay       1       1       1       1       1       1       1       7       3       5       6       32       9       17       15       7       5       5       7         Catrod Repirtration        13       1,345         16       13       1,311       40       15       10       15       13       1,311       40       15       10       15       13       1,311       40       15       10       13       &lt;</td> <td>Western Replatration       22       7       1,433       12       1       1       3       8       13       3       1         East Khändesh       10       4       1,463       55       23       21       1       3       8       13       3       1         West Khändesh       10       4       1,463       55       23       21       21       1637       3       3         Thans       17       12       1.647       53       23       21       21       163       3         City of Dombay       1       1       1       1       1       1       1       165       5       7       3       6         Colata       <math>e_{ittration}</math>       15       1,343                                           </td> <td>Western Registration<br/>District.       22       7       1,432       19       1       1       3       8       13       3       1         East Khändesh<br/>West Khändesh<br/>Thana       10       4       1,463       53       22       21       1       3       8       13       3       1       1         West Khändesh<br/>West Khändesh       10       4       1,463       53       22       21       27       10       13       3       7       12       1.643       53       52       21       27       10       19       10       14       7       1,641       53       52       21       27       15       3       1       1       1       1       1       1       17       16       51       65       7       3                                          <th< td=""><td>Western Replatration       22       7       1,438       12       1       1       3       6       13       1       1       1         East Khändesh       10       4       1,463       5       22       7       1,438       12       1       1       3       60       1       29       7       1,438       12       1       1       3       10       1       29       7       1,538       5       22       21       17       16       55       5       3       7       12       1,634       56       6       12       9       16       5       5       3       7       13       16       17       16       51       66       5       5       3         7       13       13       13       13       13       13       11       1       17       16       51       60       65       3       3       10       17       16       51       60       63       37       30       18       16         Costrat                 <!--</td--><td>Western Replictation         District       22       7       <math>1,438</math>       12       1       1       3       6       13       1       1       1         East Rhandesh      </td><td>Western Replatration       22       7       1,438       12       1       1       3       8       13       3       1       1       1       1       1       3       8       13       3       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       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       1       1       1       1       1       1       1       <t< td=""><td>Western Repitration       22       7       1,433       19       1       1       3       8       13       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication         District.       22       7       1,433       12       1       1       3       8       13       3       10       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       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       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication<br/>District.       22       7       1,433       19       1       1       3       6       13       3       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication         District.       22       7       1,438       12       1       1       3       8       13       3       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td></td><td>West Reprint Repri</td><td></td><td>Western Registration         Distriction         Distriction         Cast Rhandeah      </td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td></t<></td></td></th<></td> | Western Repirtration       22       7       1,432       12       1       3       8       13       3         East Khändesh       10       4       1,463       5       22       21       1       3       8       13       3         West Khändesh       10       4       1,463       5       22       21       10       1       2       3         Stälk        17       12       1,431       53       52       21       21       9       16       3         Kolkts        14       7       1,401       20       5       4       7       5       5       7         City of Dombay       1       1       1       1       1       1       1       7       3       5       6       32       9       17       15       7       5       5       7         Catrod Repirtration        13       1,345         16       13       1,311       40       15       10       15       13       1,311       40       15       10       15       13       1,311       40       15       10       13       < | Western Replatration       22       7       1,433       12       1       1       3       8       13       3       1         East Khändesh       10       4       1,463       55       23       21       1       3       8       13       3       1         West Khändesh       10       4       1,463       55       23       21       21       1637       3       3         Thans       17       12       1.647       53       23       21       21       163       3         City of Dombay       1       1       1       1       1       1       1       165       5       7       3       6         Colata $e_{ittration}$ 15       1,343 | Western Registration<br>District.       22       7       1,432       19       1       1       3       8       13       3       1         East Khändesh<br>West Khändesh<br>Thana       10       4       1,463       53       22       21       1       3       8       13       3       1       1         West Khändesh<br>West Khändesh       10       4       1,463       53       22       21       27       10       13       3       7       12       1.643       53       52       21       27       10       19       10       14       7       1,641       53       52       21       27       15       3       1       1       1       1       1       1       17       16       51       65       7       3 <th< td=""><td>Western Replatration       22       7       1,438       12       1       1       3       6       13       1       1       1         East Khändesh       10       4       1,463       5       22       7       1,438       12       1       1       3       60       1       29       7       1,438       12       1       1       3       10       1       29       7       1,538       5       22       21       17       16       55       5       3       7       12       1,634       56       6       12       9       16       5       5       3       7       13       16       17       16       51       66       5       5       3         7       13       13       13       13       13       13       11       1       17       16       51       60       65       3       3       10       17       16       51       60       63       37       30       18       16         Costrat                 <!--</td--><td>Western Replictation         District       22       7       <math>1,438</math>       12       1       1       3       6       13       1       1       1         East Rhandesh      </td><td>Western Replatration       22       7       1,438       12       1       1       3       8       13       3       1       1       1       1       1       3       8       13       3       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       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       1       1       1       1       1       1       1       <t< td=""><td>Western Repitration       22       7       1,433       19       1       1       3       8       13       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication         District.       22       7       1,433       12       1       1       3       8       13       3       10       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       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       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication<br/>District.       22       7       1,433       19       1       1       3       6       13       3       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication         District.       22       7       1,438       12       1       1       3       8       13       3       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td></td><td>West Reprint Repri</td><td></td><td>Western Registration         Distriction         Distriction         Cast Rhandeah      </td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td></t<></td></td></th<> | Western Replatration       22       7       1,438       12       1       1       3       6       13       1       1       1         East Khändesh       10       4       1,463       5       22       7       1,438       12       1       1       3       60       1       29       7       1,438       12       1       1       3       10       1       29       7       1,538       5       22       21       17       16       55       5       3       7       12       1,634       56       6       12       9       16       5       5       3       7       13       16       17       16       51       66       5       5       3         7       13       13       13       13       13       13       11       1       17       16       51       60       65       3       3       10       17       16       51       60       63       37       30       18       16         Costrat </td <td>Western Replictation         District       22       7       <math>1,438</math>       12       1       1       3       6       13       1       1       1         East Rhandesh      </td> <td>Western Replatration       22       7       1,438       12       1       1       3       8       13       3       1       1       1       1       1       3       8       13       3       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       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       1       1       1       1       1       1       1       <t< td=""><td>Western Repitration       22       7       1,433       19       1       1       3       8       13       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication         District.       22       7       1,433       12       1       1       3       8       13       3       10       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       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       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication<br/>District.       22       7       1,433       19       1       1       3       6       13       3       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication         District.       22       7       1,438       12       1       1       3       8       13       3       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td></td><td>West Reprint Repri</td><td></td><td>Western Registration         Distriction         Distriction         Cast Rhandeah      </td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td></t<></td> | Western Replictation         District       22       7 $1,438$ 12       1       1       3       6       13       1       1       1         East Rhandesh | Western Replatration       22       7       1,438       12       1       1       3       8       13       3       1       1       1       1       1       3       8       13       3       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       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       1       1       1       1       1       1       1 <t< td=""><td>Western Repitration       22       7       1,433       19       1       1       3       8       13       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication         District.       22       7       1,433       12       1       1       3       8       13       3       10       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       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       1       1       1       1       1       1       1       1       1       1       1       1</td><td>Western Replication<br/>District.       22       7       1,433       19       1       1       3       6       13       3       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      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     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       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td></td><td>West Reprint Repri</td><td></td><td>Western Registration         Distriction         Distriction         Cast Rhandeah      </td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td></t<> | Western Repitration       22       7       1,433       19       1       1       3       8       13       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 | Western Replication         District.       22       7       1,433       12       1       1       3       8       13       3       10       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       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       1       1       1       1       1       1       1       1       1       1       1       1 | Western Replication<br>District.       22       7       1,433       19       1       1       3       6       13       3       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 | Western Replication         District.       22       7       1,438       12       1       1       3       8       13       3       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       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       1       1       1       1       1       1       1       1       1       1       1       1       1 |                                      | West Reprint Repri |                                 | Western Registration         Distriction         Distriction         Cast Rhandeah | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ |

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ANNUAL FORM NO. IX DEATHS registered from Fever in the DISTRICTS of the BOME.	AY PRESIDENCY
during each month of the year 1915.	

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ء 		Rad	IRCLES OP DISTEA-		AGES.														Total.		PEB	0 of D 1,0%	OF	1,000 of	
5 Q.	pistricts.	unch (	u which a fover		n which n fever od.						•								1		Po:	PULATI	ох.	por yoars.	No.
		Number in District.	Number from deaths from were reported	Number in District.	Number from deaths from were reported.	January.	February.	March.	April.	May.	June,	July.	August.	Soptember.	October.	November.	December.	Male.	Fomalo.	Total.	Male.	'emale.	Total.	Mean ratio previous five	
	Western Registra-	4	1	<u>~ /</u>	<u>~  </u>		(		<u> </u>		1	, <u> </u>		<u></u>	<u> </u>	~ ]		• ~ }				<u><u></u></u>		87	
14 0 10 4	tion District. East Khaudesh West Khandesh Nisik Thana	19 17	22 10 19 17 14	1,438 1,096 1,649 1,643 1,461	1,022 1,445 1,486	951 729 1.118 1,289 811	749 578 912 1,101 803	873 650 949 1,289 859	900 593 783 1,051 699	1,059 504 714 848 607	797 390 670 793 559	664 365 676 636 548	923 490 891 996 655	1.456 630 966 1,100 691	1,342 617 1,052 1,283 657	630 1,029	826 1,390 2,055	6,191 3,510 5,643 6,949 4,540	6.234 3,194 5,497 7,140 4,569		11.97 12.40 15.22	12•16 12•15 12·25 16·83 15·28	12-06 12-33 15-99	13.66 16.71 14.22 16.51	2 3 4
- ē ļ	Kolaba		1	-,- <u>-</u> ,1	1	151	131	150	194	201	147	165	214	211	177	159		1,236	820		1 1	2.46		15·36 3·22	Ŭ
61	City of Bombay Central Registration District.	•			]. ]											100		- ,	-20	-,	1.00	- 10	210		6
	Ahmednagar Poona Sholápar Sitára Ratnágiri	15 18 10 19 15	15 13 10 19 15	1,349 1,201 718 1,346 1,311	1,041 699 1,231	580 828 606 788 1,277	515 699 494 624 1,309	573 901 618 760 11,279	741 928 819 855 1,093	746 977 790 917 735	722 904 373 840 824	731 903 772 825 779	862 1,270 1,052 1,091 1,029	835 1,228 1,109 1,203 996	877 1,094 1,048 1,095 1,040	771 1,065 1.081 1,146 1.019		4,633 6,226 5,029 5,729 6,064	4,205 6,023 5,147 5,:43 6,861	8,837 1,2249 10,176 11,472 12,925	10.63	8-97 11-44 13-66 10-6:) 10-55		10.96 13.60 15.45 11.13 12.41	: 1ă -
	tion District.		!					1		. [															
11	Belgaum Dhàrwàr Bijāpur Kāuara	15 18 13 16	15 18 13 16	1,070 1,295 1,122 1,265	933 1,132 1,021 983	335 638 486 432	317 507 394 460	406 762 463 433	426 618 602 367	368 400 438 320	414 479 469 316	374 462 506 375	477 515 626 349	471 601 673 870	606 728 839 493	724 844 1,009 497	852 1,192 1,152 623	2,874 3,783 3,811 2,546	2,943 4,048 3,890 2,539	5,820 7,836 7,710 5,085	6*01 7*28 8*79 11*57	6 36 8 01 9 09 12 07	6'13 7'64 8 84 11'81	5°33 7°86 10°03 13°33	13 14
	Gujarát Registra- tion District.										•							•							-
3 3	Surat Broach Kaira Panch Maháls Ahmedabad Sind Reyistration	12 9 15 7 13	12 9 15 7 13	760 409) 586 660 880	716 394 544 5×5 802	1,018 567 641 494 1,859	877 461 679 951 1,618	895 49 775 423 1,641	634 423 551 371 1,368	606 336 459 317 1,168	490 271 413 26-) 894	443 281 449 219 895	530 353 487 283 1,002	513 332 392 308 1,172	593 347 438 316 1,017	655 393 551 382 1,171	739 365 502 337 1,228	3,999 2,299 3,354 2,043 7,811	4,013 2,317 2,993 1,928 7,222	8,042 4,616 6,347 3,971 15,033	12·24 14·53 9·03 12·31 18·18	12.36 15.61 9.31 12.30 18.27	12·30 15·05 9·18 12·31 18·17	15·96 22·78 12·53 17·78 25·03	
	Nawabshah Lurkána inkkor pper Sind Frontier	16 11 13 9 15 12 7	16 11 13 9 15 12 7	665 864 901 721 737 654 422	631	656 1,150 642 896 1,770 1,097 433	667 819 561 767 1,123 860 257	596 926 629 906 1,139 922 256	390 589 451 548 754 633 201	396 518 426 375 697 585 173	258 388 292 335 587 516 187	239 372 273 358 578 511 157	221 309 207 257 560 479 181	324 387 260 322 619 524 188	363 500 370 554 877 816 307	511 745 679 778 1,079 1,089 395	863 1,245 1,213	2,932 4,271 3,094 3,804 5,974 4,982 1,671	2,283 3,333 2,600 3,075 5,047 4,243 1,430	5,221 7,604 5,694 6,949 11,021 9,265 3,101	$\begin{array}{c} 10^{\circ}10\\ 12^{\circ}65\\ 12^{\circ}82\\ 15^{\circ}64\\ 16^{\circ}63\\ 15^{\circ}93\\ 11^{\circ}43 \end{array}$	12 18 13 5 1 15 32 16 73	10.11 12.44 13.14 15.49 16.68 16.15 11.79	9.13 12.15 16'39 12.98 18.89 16.53 13.49	23 23 24 25 26
1	Total for the Pre- sidency	361	361	26,253	24,254	22,232	18,633	20,577	17,646	15,770	14.115	13,556	16,314	17,881	19,496	22,140	26,431	115,072	109,725	221,797	11-29	11.67	11.48	13-21	

ANNUAL FORM No. X.—DEATHS registered from DYSENTERY and DIARRHEA in the DISTRICTS of the BOMBAY PRESIDENCY during each mouth of the year 1/15.

1	2		3		4													i	6		L	7	.	8	19
		R B	CLES OF GISTRA- TION.		LAG BS.														Тотац	•	PE			1,000	-
No.	Districts.	Number in ouch District.	Number from When deaths from Dyscatery and Diarrhoa wero reported.	Number in cach District.	Number from which deaths from Dyscatery and Diarrhoa wow reported.	January.	February.	March.	April.	May.	June.	July.	Ångust.	September.	Octabe <b>r</b> ,	November.	December,	Malc,	Female.	Total.	Male.	Femalo.	Totni.	Mean rutio por of previous five years.	No.
1 2 3 4 5	Western Registration District. East Khändesh West Khändesh Näsik : Thána	10 19 17	23 10 19 17 14	1,433 1,096 1,649 1,643 1,461	123 406 270	73 16 56 41 92	73 10 41 39 59	78 12 43 47 59	89 13 56 47 52	90 7 63 37 73	109 10 84 62 58	101 14 97 55 83	247 37 191 91 197	3)5 35 153 68 143	204 32 105 54 89	130 17 81 57 51	134 15 86 71 80	862 132 554 380 541	771 91 492 289 494	2:3	$^{+45}_{-83}$	-68	-33 1•15	2-10 -77 1-60 -90 1-50	1 2 3 4 5
6	City of Bombay Central Registration	1	1	1	1	172	153	197	179	163	13)	152	<b>24</b> 5	329	179	159	197	1,159	936	2,145	1.84	2-96	<b>2</b> ·23	8.23	8
7 - 5 - 9 - 15 - 11	District. Ah meduagar Poona Sholápur Sučíra Ratnágiri	18 19 19 19	15 18 10 19 15	1,348 1,201 718 1,348 1,311	565 535 661	$131 \\ 142 \\ 208 \\ 142 \\ 420 \\$	116 137 183 109 350	104 140 222 129 323		213 199 253 167 116	197 220 294 222 265	245 252 249 244 175	302 415 533 451 364	360 375 453 530 418	251 270 400 351 305	210 179 285 231 336	178 167 211 177 414	1,3 18 1,471 1,853 1,443 2,100	1,233 1,219 1,690 1,425 1,769	2,539 2,699 3,543 2,663 3,875	2.73 4.74 2.68	4·49 2·63	2.53 4.61 2.65	4·49 4·62 6·37 4·11 2·81	
12 13 14 15	Southern Registration District, Belgaom Dhirwar Eijapur Kunara Gujardt Registration District,	. 15 . 18 . 13 . 16	13	$1,070 \\ 1,295 \\ 1,122 \\ 1,255$	364 525	145 95 89 87	121 76 71 84	149 85 77 53	161 91 80 53	202 91 74 37	234 89 92 49	274 114 149 66	<b>3</b> 35 131 217 110	360 127 251 110	318 145 235 133	237 130 150 133	213 133 177 97	1,352 670 793 576	1,427 656 807 438	2,779 1,303 1,695 1,014	1.25 1.84	2.09	1.58 1.96	4*21 1*32 2*45 2*45	11
15 17 18 19 19	Surat Broach Kaira Panch Mahils	. 9 . 15	9 15 7	760 493 589 664 880	6) 191 24	49 12 50 2 13	40 9 29 4 15	37 17 40 2 38	54 15 53 5 37	59 16 57 4 17	50 9 68 2 25	57 16 76 9 24	69 20 80 13 <b>37</b>	72 14 73 4 44	39 -12 -53 -1 -36	39 7 45 3 60	35 9 40 4 63	303 84 343 30 226	305 73 313 23 196	608 156 601 53 422	-93 -53 -94 -13 -52	•93 •43 •97 •15 •50	•93 •51 •96 •16 •51	•67 •76 1•64 •21 •76	16 17 18 19 20
21 22 23 24 25 25 25 27	Kaváchi   Hyleraind   Thar and Párkar   Nawabshah   Lási ina	. 7	9 12 7 15 12	544 941 721	76 82 20 34 31	19 19 45 4 5 16 6	18 19 8 3 8 9 3	16 17 11 4 6 19 3		25 12 11 1 3 12 5	13 10 7 3 5 6	8 3 1 2 8 	20 7 5 3 2 8 4	20 9 1 4 6 11 2	17 8 6 7 3 11 3	$     \begin{array}{r} 7 \\       14 \\       10 \\       5 \\       2 \\       12 \\       9 \\       \hline       3       \end{array} $	0 17 13 6 1 • 6 6	113 79 74 23 23 94 29	79 74 55 14 22 50 19	$     \begin{array}{r}       192 \\       153 \\       129 \\       42 \\       45 \\       150 \\       47 \\     \end{array} $	·39 ·24 ·31 ·11 ·05 ·30 20	·35 ·27 ·29 ·07 ·07 ·07 ·21 ·15	•37 •25 •34 •10 •07 •26 •18	•10 •36 •04 •19 •01 •13 •04	24 22 24 24 24 24 24 24 24 24 24 24 24 2
-		331	352	26,2 🕄	7.763	2,111	1,7:55	1,936	2,09.4	2,005	2,283	3,175	4,239	4,158	3,335	2,639	2,553	16,611	15,093	91,707	1.63	1.61	1.63	2.19	

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No.         Distriction         Total State         T			RE	OISTRA-							•						·.		I	`OT&&,		DBATH	IS PBR	1.000	revious]
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	N-).	Districta,	Ξ	from ary Di-	uj	deaths from deaths kexpiratory Di were reported	January.	February.	Match.	d pril.	May.	Jane.	Juls.	August.	September.	October.	November.	December.	Male.	Female.	Total.	Mule.	Female.	Total.	Tatin per L, 103 of
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	4	tion District. East Khandesh West Khandesh Nasik Thana	10	19 17	1,096 1,649 1,643	528 957 434	158 . 371 . 99	152 355 89	166 342 108	126 305 - 74	90 213 68	61 217 80	72 254 99	107 304 81	116 849 68	136 363 66	168 306 8≸	236 471 108	877 2,002 601	711 1,985 421	1,588 3,949 1,022	2·99 4·40 1·32	2:47 4:32 9/9	$2.7 \\ 4.3 \\ 1.1$	2 2 8 1
e       Pona        18       1, 910       1, 922       901       257       831       306       12       129       130       301       306       301       306       233       301       306       236       902       952       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125 <t< td=""><td>6</td><td>Central Registra- tion District.</td><td></td><td>· ·</td><td>1.348</td><td>914</td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	6	Central Registra- tion District.		· ·	1.348	914					1														
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10 10	Poona Sholapur Sàtara Ratnágiri Southern Registra	18 10 19 15	18 10 19	1,301 718 1,346	732 353 551	801 122 177	257 114 180	831 125 139	\$09 122 149	816 102 133	259 100 117	812 82 135	829 125 178	867 125 228	337 196 183	801 215 209	395 242 233	1,910 782 924	1,932 895 1,075	3,+42 1,670 1,999	8.55 2.00 1.71	3-67 2*36 1*93	3.61 2.17 1.85	3-20 1085 1-14
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	13 14	tion District. Belganm Dhàrwar, Bijipur, Kanara	15 18 13 16	. 18	1,295	798 646	<b>366</b> 173	279 163	415	834 203	269 149	228 129	293 158	-859 199	282 162	349 187	413 254	485 362	1,907	2,068 1,063	<b>4,0</b> 0% <b>2,</b> 303	3 84	410	3.87 2.67	3·25 2·53
17       Broach, 9       9       9       400       248       176       104       170       111       111       110       119       163       182       9934       738       1.670       540       406       545       540         18       Iniro        15       15       586       606       459       439       436       433       376       430       403       393       379       334       430       661       2882       2.144       103       2971       177       660       737       769       073       727       769       073       727       769       073       727       769       073       727       769       073       727       769       073       727       769       073       727       769       073       727       769       073       727       769       073       727       769       073       752       176       073       759       176       073       759       176       073       160       173       160       162       237       1825       237       482       492       492       492       492       492       492       172       176 <td></td> <td>tion District.</td> <td>1</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td>		tion District.	1	-						,															
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	17 18 19	Broach Laira Pauch Mahála	9 15 7	9 15 7	409 556 660	248 505 132	175 459 29	165 439 22	170 446 18	144 423	98 376 15	127 430 16	111 403 20	111 393 15	110 579 28	119 334 80	153 450 39	182 464 43	934 2,832 194	788 2,164 103	1,670 4,996 297	5.90 7.65 1.17	4 90 8 73	6145 7122 192	
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Presidency 361 353 26,253 11,066 5,724 5,313 5,665 5,197 4,483 4,194 4,290 4,895 5,006 5,264 6,063 7,375 33,588 29,776 63,364 3:30 2:17 3:23 3:18	- <b>4</b> 7	tier									·	·										لسمما	'		

ANNUAL FORM NO. XI.-DEATHS registered from Respiratory Diseases in the Districts of the BOMBAY PRESIDENCY during each month of the year 1915.

## ANNUAL FORM No. XII.—DEATHS registered from PLAGUE in the DISTRICTS of the BOMBAY PRESIDENCY during each month of the year 1915.

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		RE	CLES OF GISTRA- MON.	VILI	LAGES,				,										Тотаг.	,	DEAT	ATIO HS PE OPULA	09 B1,000 TION.	previous	
Ne.	Districts.	each	which Plague	each	which Plague																			000 ef	 
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		Number District	Number deaths were re	Number District.	Number from deaths from 1 were reported.	January.	February	March.	April.	May.	June.	July.	August.	September,	October.	November.	December.	Malo.	Female.	Total.	Malo.	Female.	Total.	Mean rati	
	Western Registra- tion District.																								
12345	East Khöndesh West Khöndesh Násik Thána Kolába	10 19 17	8 2 16 14 8	1,438 1,696 1,649 1,643 1,461	85 2 212 49 18	32 416 37 5	63 462 98 12	216  .477 169 78	49 220 106 80	19 65 63 6		234 26 2	1 831 40 1	1 1,037 27 1	1,438 15 2			190 4 3,321 301 93	304	374 4 7,139 605 154	+01	.72	136 101 7190 169 126	2:04 2:04	924
6	City of Bombay Central Registra- tion District.	1	1	1	.1	7	17	77	159	131	93	40	31	28	22			441	157	598	•70		62	<b>3</b> •10	۲ <b>۰</b>
7 9 10 11	Ahmednagar Poona Sholápur Sátára Ratuágiri Southera Registra	18 10 19 15	.17	1.348 1,201 718 1,340 1,311	130	93 248 91 170 6	16 151 196 191 8	49 137 493 250 3	16 46 110 92	1 14 35 50	 7 56 	19 11 19 164 **	96 69 272 240	74 180 583 403	56 394 1,513 582	332 2,063	251 2,450	199 859 8,955 1,707 8	950 3 914	445 1.835 7,709 3,633 13	1.60 9.65 3.17	1.86 10:30 3:55	1•73 10·12	*51 1*32 2*10 3*61 *19	8 9 10
12 13 14 15	tion District. Belgaum Dhárwác Bijápur Kánara	15 18 13 10	15 11	1.070 1,295 1,122 1,265	304 70	300 994 37	357 280 39 1	458 304 23	273 93 1	166 123 •	231 159 	725 496 5	1,422 915 10 2	1,349 948 49 17	1,770 770 +168 9	747	766	4,696 3,049 447 24	2,927 52:	9,520 6,978 909 \$6	5.F0 1.03	10:42 5:84 1:21 10	5-83 1-12	8*19 30*35 6*59 *29	1. 13
	Gujardt Registra tion District.	·			[																				
16 17 19 19 20	Surat Broach Kaira Panch Maháls Ahmedabad	9 15 15 13	5 9 9	760 409 590 660 680	17 9 8	29 15 1 21 14	15 14	124 100 21 44 1	189 74 15 9 6	44 9  1	10  	7	42 11	102 19 11	158 20	227 2  	130 11 11 11	612 110 6) 44 13	531 125 48 41 13	1,153 235 108 65 20	1187 170 18 18 19 19	1.62 -84 -15 -25 -03	1.75 -77 -15 -27 -03	145 95 93 93 93 97	16 17 19 19 20
	Sind Registration District.																						1	1	
21 23 23 24 25 26	Thar and Párkar Nawabshah Lárkána Sukkur	. 15	10 1 6 7	901 721 737	42 1 7 8	21 182  3 1 2	1 27	198 301 72 3 89	411 803 20 43 220	4D1 47  2 4 53	234 2 ~~1 ~~	22   	10	23 2	12  	12   	2	652 633 5 79 89 255	617 474 55 17 118	1,429 1,167 125 125 874	3.04 1.54 102 102 102 11 11 153	2·42 1·72 0.0 0.0 0.0 0.0 0.0 10	977 1551 101 205	2.95 30 705 70 70 70 70 70 70 70 70	1211
27	tier Total for th	e _ 7		429		•	<i>i</i>		29	11								20	13	59	•18	•11	·15		27
	Presidency	- 391	209	26,253	1,536	2,005	2,313	<b>3</b> ,705	2,521	1,323	810	1,758	<b>3</b> ,903	4,926	6,959	6,743	0,761	21,54	21,850	43,524	2.35	2133	2:21	2.0 [	

N. D .- These figures do not include deaths among Europeans, Anglo-Indians and Fighting men.

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