

# Annual Report on Public Health in Sind

for the year 1936.

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# ANNUAL REPORT ON PUBLIC HEALTH, 1936.

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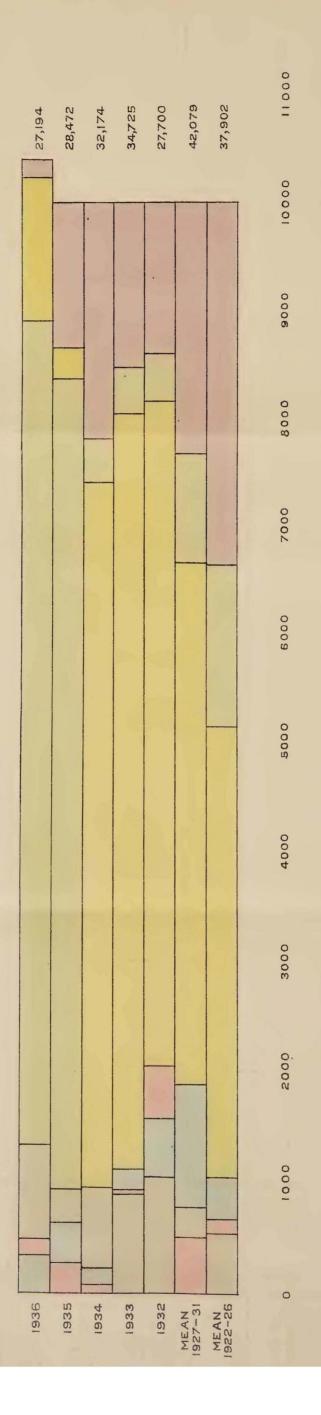
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G. P. Z. O. POONA, 1938.

CHART I.

DEATHS IN 1936 AND PREVIOUS YEARS.



| PLAGUE, CHOLERA & SMALL-POX. | INFLUENZA MEASLES ETC. | DYSENTERY & DIARRHOEA. | OTHER CAUSES & INJURIES. | RESPIRATORY DISEASES. | FEVERS. |

THE ACTUAL DEATHS FROM FEVERS ARE MENTIONED IN FIGURES.

# Annual Report on Public Health for 1936.

#### CHAPTER I.

METEOROLOGY: ECONOMIC CONDITIONS, i.e., PRICES OF FOOD GRAINS, ETC.

- 1. Rainfall.—During the year 1936, the rainfall in Sind was below normal except in the Guni taluka of Hyderabad district and the Shahbandar Division of Karachi district in which regions it was slightly in excess of normal. Rainfall was very scanty in the Desert Division of Thar Parkar district, in Kohistan mahal of Dadu district, and in the Tatta and Karachi talukas of Karachi district.
- 2. Economic Conditions.—The working of the Lloyd Barrage and Canal Systems on both banks was generally satisfactory during the year. There was considerable increase in the cultivation of cotton specially in Nawabshah district and in the Mirpurkhas and Nara Divisions of Thar Parkar district. Generally, crop conditions in the Barrage area were good. Crops were however poor in the non-Barrage areas, except in the Fuleli area where there was improvement as compared with the previous year. On account of scarcity of rain, crops failed in the Desert Division of Thar Parkar district and Kohistan Mahal of Dadu district. Fodder was scarce in these areas. These conditions caused much hardship. There were no extensive floods during the year. Hill torrents partly damaged some of the crops in the Shahdadkot taluka of Larkana district.
- 3. The prices of food grains continued to be low during the year. The price of cotton increased slightly.

#### CHAPTER II.

# VITAL STATISTICS (INCLUDING POPULATION AND EMIGRATION AND IMMIGRATION).

- 1. The province of Sind is made up of 8 Revenue Collectorates (including Karachi City). There are 61 Rural Circles (talukas and mahals), 26 Town Circles and 2 Cantonments. These divisions are shown in Appendix III to this report.
- 2. Population.—The birth and death ratios are worked out on the census population of 1931. According to this census the population of the province is 38,76,388 and is distributed as follows:—

Rural Circles 32,25,631, Town Circles 639,987, and Cantonments 10,770. This population is inclusive of the figures for Europeans and Anglo-Indians. Separate information by localities for these communities is not available.

3. Estimated population.—In accordance with Government of India's letter, Department of Education, Health and Lands, No. F.-96-43/32-H., dated 15th August 1932, printed in the preamble to (Bombay) Government Resolution, General Department No. 9227, dated 26th November 1932, the estimated population for the year 1936 for the province by Collectorates and the birth and death rates calculated thereon are shown in the following table:—

Name of C	Collectorat	Census Population. 1921		Census Population 1931.	Estimated Population 1936 (mid- year).	Birth rate based on Population of 1931.	Birth-rate based on estimated Population 1936 (mid- year).	Death-rate for 1936 on census Population for 1931.	Death-rate for 1936 on estimated Population 1936 (mid- year).
	1		2	3	4	5	6	7	8
Karachi	•••	•••	•••	5,79,432	•••	30:77		18:10	•••
Dadu	•••	•••	•••	3,34,282	•••	19:43	•••	11.16	•••
Larkana	•••	•••	•••	4,52,141		23.61	•••	11:93	•••
Upper Sind	l Frontier	•••	•••	2,60,326	•••	14.80	•••	7·10	•••
Hyderabad	•••	***	5,73,450 -	6,61,776	7,08,884	15.83	14.77	12.61	11.65
Nawabshal	ı	•••	4,18,660	4,96,612	5 <b>,</b> 43 <b>,5</b> 20	15:36	14:02	10:40	9:50
Thar Park	ar	<b>.:</b> .	3,96,331	4,68,040	5,06,231	17'32	16.02	11:26	10 <b>·63</b>
Sukkur	•••	•••	5,10,292	6,23,779	<b>ნ,84,30</b> 5	23:18	21.13	13:06	11.90
	Total	•••	32,79,377	38,76,388	41,94,793	20.2	18.96	12:49	11.24

The estimated population for the first four Collectorates, viz., Karachi, Dadu, Larkana and Upper Sind Frontier and the birth and death rates based on the estimated population could not be calculated on account of the territorial changes that took place in the Collectorates in 1931.

The birth and death rates on the estimated population for the year 1935 were 19'04 and 11 42, respectively.

2. Changes in Area.—During the year under report the area was the same as in the previous year.

### EUROPEAN AND ANGLO-INDIAN VITAL STATISTICS.

3. Europeans.—According to the census of 1931 the European population in the province of Sind is 6,576. During the year under report, 37 births (23 males and 14 females) were recorded giving a birth rate of 5.62 per mile of population There were 10 deaths, the death rate being 1.52.

Anglo-Indians.—The population according to the census of 1931 is 1,930. The number of births registered during the year 1936 was 24. The birth rate per mille was 12.44. Of the births 11 were males and 13 females. The total deaths were 15, the death rate being 7.72.

Deaths by Ages.—The following table shows the age distribution of the deaths among Europeans and Anglo-Indians:—

			DEATHS.			
	Age periods.	census	Europeans.	Anglo-Indians		
Under 1 year	•••	•••	I	2		
1—5 years	•••	•••	I	•••		
5—10 "	•••	•••	•••	1		
10-15 "	•••	•••	•••	•••		
15-20 ,,	•••		•••	I		
20-30 ,,	•••	•••	•••	3		
30—40 ,,	•••	• • •	2	•••		
40—50 ,,	•••	20.0	1	3		
50—60 ,,	₽ • •	•••	I	•••		
60 and over	•••	•••	4	5		
		Total	10	15		

The causes of deaths among Europeans and Anglo-Indians were as shown in the following table:—

	Year.	Cho- lera.	Small- pox.	Fevers.	Dysen- tery and Diarr- hoea.	Respira- tory dis- eases.	Injuries.	All other causes.	Total.
Europeans Anglo-Indians	1936 1936	•••	•••	2 I	 I	2	•••	8	10

### VITALS STATISTICS OF INDIANS.

4. Births.—The total number of births registered during the year under report was 79,536 showing an increase of 693 over the figure for 1935, and also an increase over the previous 3 decennial means, viz.:—

1901—1910	66,578,
1911—1920	71,306 and
1921—1930	73,693.

The number of births recorded in the previous years and the corresponding birth rates were as follows:—

Years.		Number of Birth	Birth-rates.	
1901-10 (Mean)	•••	66,578		20.77
1911-20 ( " )	•••	71,306	•••	<i>2</i> 0.33
1921-30 ( " )	•••	<b>7</b> 3,693	•••	22.57
1931	•••	88,261	•••	22.77
1932	•••	77,976	•••	20'I I
1933	•••	77,789	•••	20.07
1934	• • •	75,729	•••	19.23
1935	•••	78,843	•••	20.33
1936	•••	<b>7</b> 9,536	•••	20.52

5. Provinceal Birth-rate compared with birth rates of other Provinces.—The birth-rate during the year for the province of Sind was 20'52 against 20'33 in the previous year. The rates recorded in the provinces of India for the last two years show an increase, as compared with the previous year, in all provinces, except Central Provinces as will be seen from the following figures:—

Province.		1935.		1936.
Madras	•••	36.99	•••	37.76
Bengal	•••	3.2.74	•••	33.53
Assam	•••	30.56	•••	•••
Bihar } Orissa }	• • •	35 <sup>-</sup> 34	•••	{ 35.34 36.63
United Provinces	•••	36.04	•••	38.99
Punjab	•••	45.57	•••	46.85
Central Provinces	• • •	44.93	•••	<b>42.</b> 50
Bombay	•••	37°00	•••	41 <b>°</b> 40
North-West Frontie	r	•••	•••	32.64
Sind	•••	20.33	•••	20.2

The birth-rate in the province of Sind is low in comparison with the birth-rate in other provinces.

- 6. Birth-rates in Collectorates.—Of the 8 districts in the Province the highest birth-rate was recorded in Karachi district (30.77) and the lowest (14.80) in Upper Sind Frontier district. One district returned a birth-rate of more than 30 per mille of population, and two between 20 and 30 and the remaining 5 under 20. Details of births and birth-rates in Collectorates are shown in Annual Form No. I.
- 7. Birth-rates in rural areas.—The birth-rate for the rural areas of the Province during the year was 16:38 as compared with 16:81 in the previous year. There was a decrease of 1,372 births. Of the 61 talukas in the province, 18 returned rates over 20 per mille 18 returned between 15 and 20, 15 between 10 and 15 and the remaining 10 under 10 per mille of population. The rates varied from 29:47 per mille in Sehwan taluka (Dadu district) and 28:33 in Shahdadkot taluka (Larkana district) to as low a figure as 6:56 per mille in Khipro taluka (Thar Parkar district).
- 8. Birth-rate in urban areas.—In urban areas there was an increase of 2,065 births. The birth-rate for the urban areas of the Province was 40.99 as against 37.80 in the previous year. Out of the 20 urban areas in the province, one returned a birth-rate exceeding 50 per mille, one exceeding 40 per mille, 3 between 30 and 40 per mille, 3 between 20 and 30 per mille, and the remaining 12 under 20 per mille of population.
- 9. Births in Karachi City.—The births recorded in Karachi City were 13,937, i.e., 1,334 more than in the previous year equivalent to a birth-rate of 56.24 per mille as compared with 50.86 for the previous year.
- 10. Births in Cantonments.—Of the two Cantonments, Karachi recorded a rate of 64.90 births per mille while Hyderabad recorded a rate of 12.35 per mille.
- were males and 35,361 females, the ratio of male to female births being 124'92 to 100. The previous year's ratio was 126'44 to 100. The excess in male births recorded in Sind is usual in Sind.
- 12. Still-births.—During the year 969 still-births were registered, i.e., 1.22 for every 100 live-births. The percentage of still-births to live-births recorded varied from 0.21 in Nawabshah district to 1.98 in Karachi district. Distribution of still-births by classes, sex and Collectorates is shown in Annual Form No. I-A.
- 13. Verification of vital statistics.—The officials of the Public Health Department detected 246 births which had not been registered. Omissions were pointed out to the Collectors concerned and necessary action was taken against the village officials responsible.

14. Deaths.—The year under report shows a slight increase in the recorded deaths as compared with the previous year. The total number of deaths registered was 48,425 in 1936; 47,249 in 1935, the quinquennial average being 51,151—(Graph No. I). The number of deaths recorded in the previous years is given in the following table:—

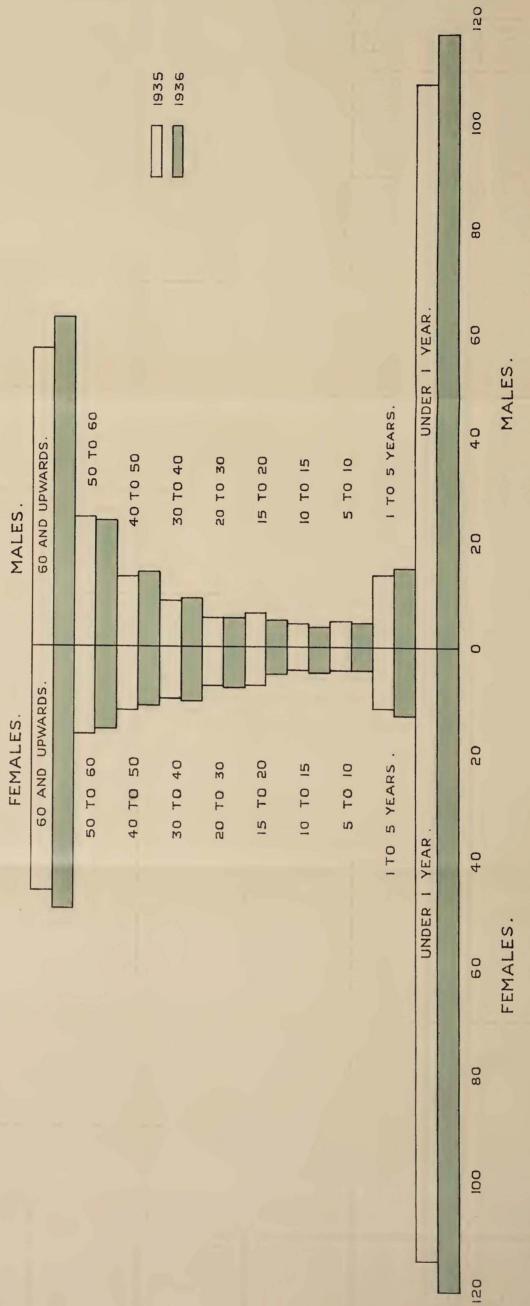
Yea	ar.		Deaths.		Death-rate.
1901-10	(Mean)	•••	68,335	•••	21.62
1911-20	.( ")	•••	94,320	•••	26.89
1921-30	( ,, )		56,174	•••	17.23
1931	•••	•••	46,714	•••	12.02
1932	•••	•••	59,067	•••	15.53
1933	•••	•••	54,239	•••	13.99
1934	•••	•••	48,489	•••	12.21
1935	•••	•••	47,249	•••	12.19
1936	•••	•••	48,425	•••	12.49

The recorded death-rate for the whole Province was 12'49 per mille. The death-rate in 1935 was 12'19, the quinquennial mean being 13'19. The death-rate in the Provinces of India is as follows:—

Province.		1935.		1936.
Madras	•••	24.89	•••	23.30
Bengal	•••	22.67	•••	24.20
Assam	•••	21.41	•••	•••
Bihar Orissa	}	25.13	•••	{ 2.1.68 27.84
Punjab	•••	<b>24</b> '89	•••	23.97
Central Provinces	•••	34.35	•••	34.89
United Provinces	•••	<b>24</b> .78	•••	22.61
Bombay	•••	25.26	•••	27.73
North-West Frontie	er	• • •	•••	17.92
Sind	•••	12.19	•••	12.49

CHART II

DEATH-RATE AT EACH AGE PERIOD 1936.



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6.P.Z.O. Poons, 1938.

16. Death-rate in Collectorates.—The following table shows the total deaths and death-rates in the Collectorates of Sind as compared with the figures of the year 1935:—

Name of C	Collectorate.	Death-rate 1935.	Death-rate 1936.	Mean death-rate for previous 5 years.
Karachi Hyderabad Nawabshah Thar Parkar Larkana Dadu Sukkur Upper Sind Fr	ontier	15'31 13'09 10'16 13'00 10'61 9'85 13'83 7'18	18.10 12.61 10.40 11.26 11.93 10.92 13.06 7.10	15'97 12'16 10'86 13'57 13'13 11'29 15'73 9'88

- 17. Death-rates in rural areas.—The death-rate in the rural areas of Sind was 10.40 as against 10.53 in 1935, showing a decrease. Of the 61 talukas and mahals, no taluka recorded a death-rate above 20 per mille of population. Forty-one returned death-rates between 10 and 20 per mille and the remaining 20 returned death-rate below 10 per mille. The highest rate (16.67) was reported in Sehwan taluka (Dadu district) and the lowest (5.41) in Kandhkot taluka in the Upper Sind Frontier district.
- 18. Death-rates in urban areas.—The death-rate in the urban areas of Sind was 22.78 per mille as against 20.36 in the previous year. Of the 20 urban registration circles four returned death-rate between 20 and 30 per mille, 9 returned death-rate between 10 and 20, and the remaining 7 returned death-rate under 10 per mille.
- 19. Death rate in Cantonments.—Of the two Cantonments, Karachi recorded a death-rate of 20'03 per mille and Hyderabad 6'84.
- 20. Excess of Births over Deaths.—During the year under report, 79,536 births were recorded. Out of these 52,862 were in rural areas while 26,674 were in urban areas. The total number of deaths recorded in the Province was 48,425 of which 33,597 were reported from rural areas and 14,828 from urban areas. The excess of births over deaths was 31,111 against 31,594 in 1935.

- 21. Deaths according to sex.—During the year under report 27,259 male and 21,166 female deaths were recorded giving death-rates of 12'54 and 12'42 per mille population of males and females, respectively, against 12'26 and 12'09 per mille in 1935. In the Province the ratio of male to female deaths was 128'79 to 100 as compared with 129'34 to 100 in 1935.
- 22. Deaths by caste or classes and by sex.—Such deaths are recorded in Annual Form No. V Appendix III.
- 23. Deaths according to causes compared with previous years.—The number of deaths in 1936 and the ratios per 1,000 of the population arranged according to causes and compared with the figures for 1935 and with the average for the preceding 5 years are as follows:—

		193	5.	193	3 <b>6</b> .	Mean for	Mean for 5 years.		
Causes of death		Number of deaths.	Ratio.	Number of deaths	Ratio.	Number of deaths.	Ratio.		
Cholera	•••	44	.01	8	·0002	26	•000б		
Small-pox	•••	571	•15	308	•07	844	.22		
Plague	•••		•••	4	.0001		•••		
Fevers	•••	28,713	7.41	27,679	7.14	33,482	8.63		
Dysentery and Diarrho	oea.	912	•23	1,303	*34	855	.23		
Respiratory diseases	•••	8,654	2.53	10,225	<b>2·</b> 64	7,706	1.98		
Injuries	•••	884	•23	873	•23	916	•24		
Other causes	•••	7,471	1.93	8,025	2.07	7,322	1.89		
Total	•••	47,249	12.19	48,425	12.49	51,151	13.19		

Graphs showing the incidence of deaths under the chief causes for the year under report compared with the previous year are shown in Charts I and IV. Graphs showing the annual incidence of deaths under the chief epidemic diseases, viz., cholera, small-pox and plague are shown in Chart No. VII.

1 year was 9,649 giving an infantile mortality rate of 121'31 per 1,000 registered births, the corresponding figures for 1935 being 8,940 and 113'39 respectively. The male infantile mortality rate was 118'33 and the female rate 125'05 as against 111'68 and 114'42 respectively in 1935. The following table shows the distribution of deaths amongst the various age groups under 1 year and the percentages compared with the corresponding figures of the previous year.

	19	ვ6.	19	35.
Age groups.	Total deaths.	Percentage.	Total deaths.	Percentage.
Under I week I week to I month I to 6 months 6 to 12 months	2.088 1,830 3,323 2,408	21.64 18.96 34.44 24.96	2,220 1,758 2,993 1,969	23'01 18'22 31'02 20.41

25. Infant mortality in the Provinces.—In the provinces of India the infant death-rates were as under:—

Province.		Year 1935.		Year 1936.
Madras .	•••	1 <b>78</b> °47	•••	164.04
Bengal .	•••	158.21	4 • •	170.30
United Provinces	•••	157.20		148.53
Punjab .	••	155.10	•••	158.44
Central Provinces.	••	223.54	•••	234.98
Bombay .	••	163.87	•••	166.08
Bihar . Orissa .	•••	} 129.50	•••	117.98 205.43
North-West Fronti	er	•••		121.72
Sind	•••	131.56	•••	121'31

26. Infant mortality in urban and rural areas.—The urban and rural infant death-rates per 1,000 registered births for the Province were 165.81, and 98.82, respectively as compared with 162.01 and 91.33 in the previous year. The infant mortality rate in 1936 compared with previous years is shown in the following table:—

Year.	Death	Deaths under 12 months.			Births registered.  Infant death rate per 1,000 births.  Infant death rate per 1,000 births.  Der 1.000					
	Male.	Female,	Total.	Male.	Female.	Total,	Male.	Female	Total.	of deaths
1936	5,227	4,422	9,649	44,175	35,361	79,536	118:32	125.05	121.31	199-26
1935	4,917	4,023	8,940	44,024	34,819	78,843	111169	115.84	113.01	189-21
1934	4,776	3,984	8,760	40,212	33,717	75,729	118 <b>·77</b>	118-10	117:67	180.66
1933	6,019	5,060	11,079	43,639	34,150	77,789	137:01	148·1 <b>1</b>	142:42	204.26
1932	6,509	5,407	11,916	43,432	34,544	77,976	149•61	155•66	152.82	201.73
1931	5,381	4,476	9,857	48,800	39,461	88,261	110:27	113'43	111*68	211*01
1930	5,664	4,690	10,354	38,374	30,892	69,266	147:60	151.82	149•48	176*24
1929	8,889	7,897	16,786	44,744	35,394	80,138	198.66	223.12	<b>209</b> •46	195.49
1928	6,411	5,144	11,555	44,968	35,354	80,322	142:57	145·49	143 <b>*85</b> -	212.76
1927	6,308	5,361	1,1669	41,616	33,577	75,193	151.58	159.63	155•19	224.71
1926	7,773	6,897	14,670	44,305	34,944	79 <b>,2</b> 49	175.44	197:37	185-11	233·16

Dadu (333'33), Shikarpur (235'85), Jacobabad (202'07) Hyderabad (198'21) and Karachi (167'04) showed the highest urban infant mortality rates. The highest rural infantile death-rate was recorded in Karachi district (134'51) and the lowest in Upper Sind Frontier district (73'20).

Detailed figures are given in Annual Form No. VI (a).

As regards measures taken to reduce the infant mortality, the Assistant Director of Public Health, Sind, reports—

Karachi City.—Besides the Lady Dufferin Hospital there are 4 municipal maternity homes and 2 maternity homes for Parsis and Khojas. The number of child welfare centres in Karachi were 7, 6 municipal and 1 Red Cross. These centres did excellent work and the Health Visitors attached to them, visited the homes of the people, conducted propaganda and, attended to the children that came to the centre.

Hyderabad town.—In Hyderabad town the Lady Health Visitor attended the Child Welfare Centre at Trans-Fuleli quarter twice a week and supervised the work of 3 midwives. During the year under report she paid 2,655 visits as compared with 2,415 visits during the previous year. Of the total number of visits, 1,303 visits were paid to delivered cases, 477 to waiting cases, and the remaining 875 to miscellaneous cases.

934 children and infants attended the child welfare centre at Trans-Fuleli as against 876 in the previous year. All the children and infants who attended the child welfare centre were weighed. Children suffering from conjunctivitis were attended to.

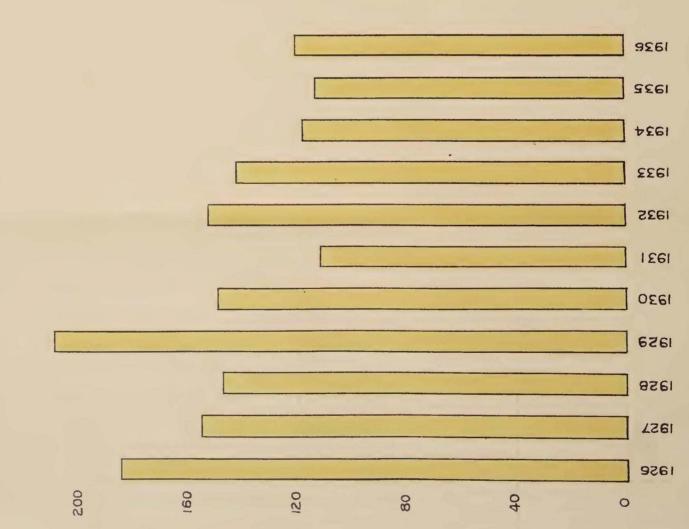
Sukkur town.—A qualified lady doctor was in-charge of the maternity home opened in 1931. There were two qualified nurses and one qualified dai working in the maternity home. During the year under report 586 labour cases were conducted as against 415 in the previous year.

The Red Cross child welfare centre continued to do splendid work. The Health Visitor visited homes and gave health talks to mothers on sanitation, cleanliness, and infant feeding. 37 labour cases conducted by dais in private houses were supervised by the Health Visitor. She attended to 168 ante-natal cases and examined and advised 310 gynaecological cases. The number of dais trained by her was 18. She delivered 271 lectures.

Rohri.—The maternity home at Rohri was under the charge of a qualified lady doctor.

CHART

CHART SHOWING INFANT MORTALITY RATE IN THE PROVINCE OF SIND FROM 1926 TO 1936.



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Larkana.—The women's hospital and maternity home recently opened by the Municipality was under the charge of a qualified lady doctor.

Shikarpur.—There are two maternity hospitals—the Lady Dufferin Hospital and Ishwarbai Maternity Hospital. The former was under the charge of a lady doctor and the latter under a trained nurse.

# SUMMARY OF VITAL STATISTICS OF THE CHIEF TOWNS.

27. Karchi City.—According to the census of 1931 the population of Karachi City is 2,47,791. 13,937 births were registered equal to a birth-rate of 56.24, as compared with 12,603 and 50.86, respectively, in the year 1935, showing an increase of 1,304 births. 7,087 deaths were recorded equal to death-rate of 28.60 as against 5,671, and 22.89 in 1935. Respiratory diseases, and 'All other causes' accounted for a large number of deaths. Pneumonia, phthisis and measles accounted for 1,752,597 and 224 deaths, respectively, equal to ratios of 7.07, 2.41 and 0.90 as compared with 1,330, 515 and 41 deaths equal to ratios of 5.37, 2.50 and 0.17 in the previous year. 40 deaths from enteric fever and 4 deaths from plague were reported. The infant mortality rate per 1,000 births was 167.04 as against 151.23 in 1935.

Hyderabad town.—Population is 96,021 (1931 Census). There were 4,243 births registered as against 3,784 in 1935, showing an increase of 459 births. The birth-rates were 44.18 and 39.39, respectively. The registered number of deaths were 2,819 as against 2,777. The death-rate per mille of population was 29.35 against 28.92 in 1935. Respiratory diseases, and 'All other causes' were among the chief causes of deaths. No case of plague or cholera was reported. Five deaths were reported from small-pox, 81 from measles, 110 from malaria, 871 from pneumonia, and 226 from phithisis during the year. The infant mortality rate per 1,000 births showed a decrease from 231.50 in 1935 to 198.21 in 1936.

Sukkur Town.—The population is 69,277 (1931 Census). 2,539 births were registered equal to a birth-rate of 36.65 as compared with 2,292 and 33.07 in the previous year. The total deaths recorded were 986 equal to a death-rate of 14.23 as against 1,099 and 1,587 respectively, in the previous year. Cholera, smallpox and plague were entirely absent. 'All other causes', respiratory diseases, dysentery and diarrhoea and fevers were responsible for 292, 332 134, and 197 deaths respectively, as compared with 311, 372, 99 and 290 deaths, respectively, in the previous year. The number of infant deaths was 274 or a ratio of 107.91 per 1,000 registered births, as against 282 infant deaths or a ratio of 123.04 in 1935.

Shikarpur town.—The population of Shikarpur town according to the census of 1931 is 62,505. 2,243 births were registered against 2,144 in the previous year. The birth-rate per mille of population during the year under report was 35.88 as compared with 34.30 in 1935. There were 1,662 deaths as against 1,473 in 1935, the death rate being 26.58 against 23.57 in 1935. Smallpox claimed 2 deaths only. The chief causes of deaths is shown in the returns were 'All other causes', fevers and respiratory diseases. The infant mortality rate per 1,000 births was 235.85 as against 221.09 in 1935.

#### CHAPTER III.

THE STATE OF PUBLIC HEALTH IN THE PROVINCE AND HISTORY OF CHIEF DISEASES.

36. General remarks on the health of the Province.—During the year 1936, the death-rate in Sind was 12:49 as compared with 12:19 in the previous year and with 13:19 the quinquennial mean.

Plague which had been absent from Sind since 1928, made its reappearence during the year but was limited to Karachi City, 6 cases and 4 deaths occurred.

The prevalence of smallpox was slightly less as compared with the previous year, the respective figures of deaths being 308 and 571 for 1936 and 1935.

This year cholera was limited to one town only, viz., Tando Allahyar in Hyderabad district, in which there were 12 cases and 8 deaths.

The mortality from influenza was low, being only 4 as compared with 18 during the previous year.

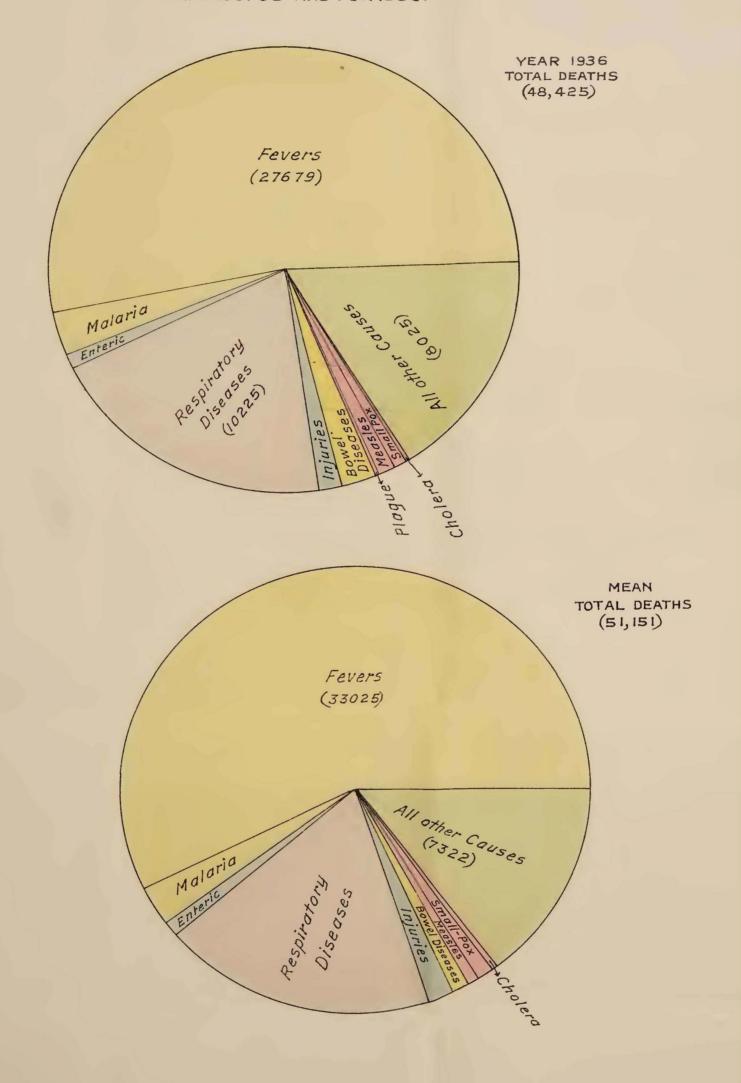
During 1936 the number of deaths from each of the following causes, namely fevers, enteric fever, cerebro spinal-fever and injuries was lower than in 1935, whilst the number of deaths from measles, respiratory diseases, phthisis, dysentery and diarrhoea, child-birth, and other causes was higher. There was a marked decrease in deaths from fevers during 1936 which was due to the fact that malaria was less prevalent. The year would appear to be only slightly less healthy than the previous year.

2. Fevers: (General Prevalence).—The number of deaths registered as due to fevers during 1936 was 27,679, the death-rate being 7'14 per mille of population, as compared with 33,482 and with 8'63 per mille, the mean for the previous 5 years. Fevers were responsible for 57'16 per cent. of the total deaths.

CHART IX

COMPARATIVE DIAGRAMS OF DEATHS BY CAUSES FOR

MEAN 1931-35 AND FOR 1936.



3. Fever mortality in the previous years.—The mortality attributed to fevers during the previous 10 years is shown below:—

Year.			No. of deaths	•	Rate per mille.
1926	•••	•••	47,169	•••	14.64
1927	•••	•••	38,321	•••	11.42
1928	•••	•••	39,417	•••	12'12
1929	)9C	•••	61,581	•••	18.89
1930	•••	•••	42,426	•••	13.01
1931	•••	•••	31,080		8.02
1932	•••	•••	39,728	•••	10.5
1933	•••	•••	35,742	•••	9.22
1934	•••	•••	32,147	•••	8.29
1935	•••	• € ७	28,713	•••	7.41
1936	•••	•••	27,679	•••	7'14

Distribution of deaths from fever is shown in Annual Form No. X.

### 4. Death-rates from fevers in Collectorates.—

Deat	h-rate in 19	ვ6.	Death-rate in 1935.
• • •	10.09	•••	8.82
•••	8.54	•••	7 <sup>.</sup> 81
•••	8.54	•••	9 <b>·69</b>
***	8.30	•••	8.03
• • •	7.05	• • •	8.33
•••	6.44	•••	6.31
•••	5.64	• • •	<b>6.</b> 68
•••	3.53	•••	3.61
		10.09 8.54 8.20 7.05 6.44 5.64	8.54 8.54 8.20 7.05 6.44 5.64

5. Death-rates from fevers in urban and rural areas.—The death-rates for urban and rural areas were 3.77 and 7.81, respectively.

The highest urban death rates were recorded in Ratodero (Larkana district)—16.33, Umarkot (Thar Parkar district)—12.50, Garhi Yasin (Sukkur district)—11.80; and the lowest death-rates in Nawabshah (Nawabshah district)—1.53 and Karachi (Karachi district) 1.80.

The highest rural death-rate was recorded in Ratodero taluka (Larkana district)—11.57, Kambar taluka (Larkana district)—11.35; and the lowest death-rate in Mirpur Sakro taluka (Karachi district)—3.09.

- 6. Enteric fever.—During the year under report, 416 deaths or 0'11 per mille were registered against 466 deaths or 0'12 per mille in 1935. The mean death-rate for the previous 5 years was 0'09.
- 7. Deaths from enteric fever in urban and rural areas.—The mortality from this cause was higher in the urban areas (279) than in the rural areas (137).

The highest number of deaths from enteric fever for urban areas was recorded in Hyderabad (81), Shikarpur (57), Karachi (40), Sukkur (38) and Larkana (35).

The highest number of deaths under this head for rural areas was recorded in the districts of Dadu (34), Hyderabad (23), Thar Parkar (20) and Larkana (20).

Karachi city.—The number of deaths under this head reported from Karachi city was 40 as against 43 in the previous year. The water-supply of the city is of a high standard of purity. Anti-fly measures were adopted throughout the year and T. A. B. inoculations offered free of charge in the municipal dispensaries.

Hyderabad town.—In Hyderabad town, the number of deaths reported during the year was 81 against 69 in the previous year. The houses of the typhoid patients were disinfected and free inoculations offered.

The number of deaths recorded in other large towns in Sind were as follows:—

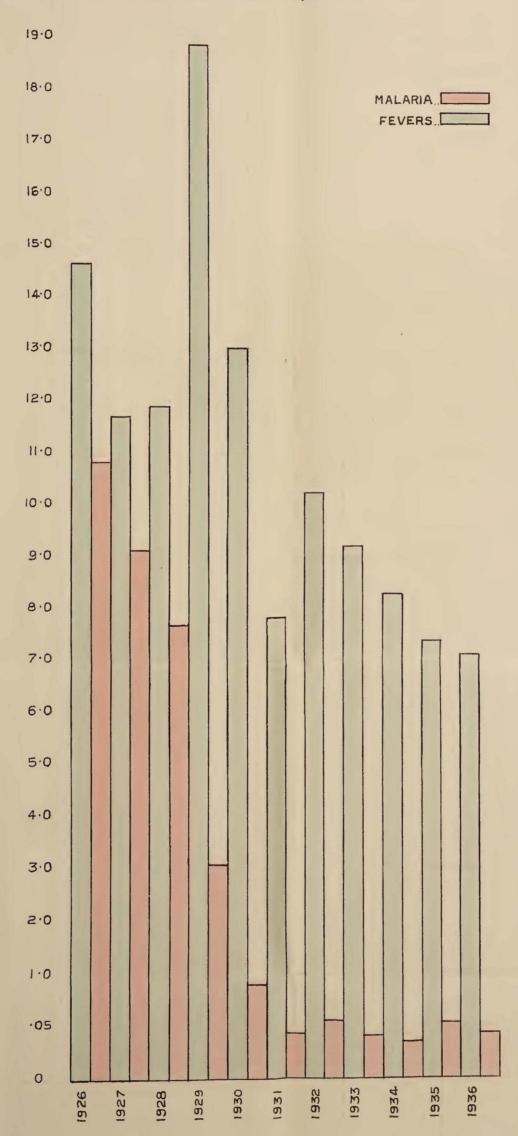
		1936.		1935.
Sukkur	•••	38	•••	39
Shikarpur	•••	57	•••	2 I
Larkana	1 • •	35	•••	39
Tando Adam	•••	8	•••	13
Jacobabad	•••	I	•••	6

- 8. Measles.—481 deaths were registered against 223 in the previous year. The death-rate was 0.12 against 0.06 recorded during 1935.
- 9. Deaths from Measles in urban and rural areas.—The deaths recorded in urban and rural areas were 369 and 112, respectively or rates of 57 and '03 per mille respectively.

The highest death-rates for urban areas were recorded in Karachi ('90), Hyderabad ('84), Shikarpur ('74), Dadu ('61) and Larkana ('37).

CHART V

CHART SHOWING MORTALITY RATE FROM
FEVERS AND MALARIA BY YEARS FROM 1926 TO 1936



The highest number of deaths from measles in rural areas was registered in the districts of Nawabshah (36) and Sukkur (26).

- 10. Relapsing fever.—The province was entirely free from this disease.
- 1 r. Kala-Azar.—There were no cases reported during the year.
- 12. Typhus.—During the year under report one death from typhus was reported by a medical practitioner from Mirpurkas town.
- 13. Cerebro spinal fever.—18 attacks and 11 deaths were reported during 1936 against 44 attacks with 29 deaths in 1935 denoting a case mortality of 61'11 as compared with 65'09 during the preceding year. The details are as follows:—

Na	me of	Circle.		Cases.	Deaths.	Date of fist case.	Date of last case
Karachi	•••	т. с.		5	3	5th Jan. 1936	25th Nov. 1936
Jati	•••	R. C.	•••	. <b>1</b>	ī	19th Aug. 1936	19th Aug. 1936
Hyderabad	•••	T. C.	•••	2	2	26th Jan. 1936	7th Nov. 1936
Hyderabad	•••	C.C.	•••	I		2nd April 1936	2nd April 1936
Matiari	•••	T. C.	•••	1	1	16th April 1936	16th April 1936
Nawabshah	. <b>•••</b>	т. с.	•••	2	2	16th March 1936	3rd April 1936
Shikarpur	•••	т. с.	•••	3	·	18th Feb. 1936	11th Dec. 1936
Shikarpur	•••	R.C.	•••	r		22nd April 1936	22nd April 1936
jacobabad	•••	T.C.	•••	I		3rd Aug. 1936	3rd Aug. 1936
Mirpurkhas	•••	т. с.	•••	ı.	1	16th Nov. 1936	16th Nov. 1936
	Т	otal Sind	•••	18	11		

Deaths from cerebro spinal fever in urban and rural areas.—
The disease prevailed in a sporadic form. 10 out of the 11 deaths occurred in urban areas.

14. Respiratory Diseases. (General prevalence).—During the year under review, 10,225 deaths due to respiratory diseases were reported as against 8,654 deaths in 1935. The death rate was 2'64 as compared with 2'23 in the preceding year and 1'98 the quinquennial mean.

15. Deaths and death-rates from respiratory diseases in previous years.—The progress of mortality under this head in the last decade is shown below:—

Year.			No of Deaths.	Ra	tio.per mille.
1926	• • •	•••	6,633	•••	2.04
1927	•••	•••	5,706	•••	1.42
1928	•••	•••	6,658	•••	2.04
1929	•••	•••	7,355	•••	2.26
1930	•••	•••	7,249	•••	2.22
1931	•••	•••	6,292	<b>3 0</b> 10	1.63
1932	•••	•••	8,149	•••	2.10
1933		•••	8,036	••6	2.07
1934	•••	•••	7,399	•••	1.01
1935	•••	•••	8,654	•••	2.53
1936	•••	••€	10,225	•••	2.64

16. Death-rates from respiratory diseases in Collectorates.

Collectorate.	1936.	Ratio per mille	1935.	Ratio per mille
Karachi Hyderabad Nawabshah Thar and Parkar Larkana Dadu Sukkur Upper Sind Frontier	4,418 2,597 557 1,258 257 275 833 30	7 63 3'91 1'11 2.69 57 .83 1'30	3,345 2,182 485 1,393 224 256 704 65	5.78 3.31 1.05 2.99 .50 .77 1.13

<sup>17.</sup> Death-rates from respiratory diseases in urban and rural areas.—Death rates for urban and rural circles were 8.46 and 1.46, respectively.

High death-rates for urban areas were recorded in Karachi (13.02), Umarkot (12.76), Hyderabad (12.44), Matiari (8.22) and Mirpurkhas (6.87).

In the rural areas the hightest death rate under this group was: recorded in Karachi district (3.55) then followed Thar Parkar (2.50) and Hyderabad (2.44). The lowest death-rate for rurall areas was recorded in Upper Sind Frontier district (10).

- 18. Seasonal mortality of Respiratory Diseases.—From the Annual Form No. XII, Appendix III, it will be seen that the prevalence of respiratory diseases is higher in the cold weather months.
- 19. Phthisis and measures against it.—1,584 deaths from this cause were registered equal to a death rate of 31 per mille of population. The corresponding figures for 1935 were 1,414 and 37, respectively. The mortality from this disease in urban areas is as a rule more than in rural areas. The disease is showing an increasing rate in recent years. Tuberculosis Propaganda work is being carried on by the Anti-tuberculosis Sub-committee of the Provincial Red Cross Society. In large towns with Health Officers some propanganda is also carried out. The Inspectors of Sanitation and Vaccination deliver lectures, exhibit posters, and distribute leaflets during their tour in the rural areas.

Karachi City.—În the Municipal Tuberculosis Dispensary in Karachi City, 1,04,810 patients were treated during 1936 of which 86,101 were treated for tuberculosis. New admissions during the year were 1,156 of which 966 were cases of tuberculosis. The two lady Health Visitors visited 22,222 houses and reported 628 cases suspected to be suffering from this disease. The nurse attached to the institution visited 3,760 patients, and 1,371 house visits were paid by the Medical Officer.

Hyderabad Town.—In the Municipal Tuberculosis Dispensary, 1,314 cases of tuberculosis were admitted during the year.

### 20. Death from Phthisis by Collectorates.—

Collect	N	o. of deaths.		
Karachi	•••	•••	•••	685
Hyderabad	•••	•••	•••	360
Nawabshah	•••	••••	•••	73
Thar Parkar	• • •	441	•••	83
Larkana	•••	•••	•••	60
Dadu	•••	•••	•••	72
Sukkur	•••	•••	•••	240
Upper Sind Fi	rontier	•••	•••	11
		Total		1,584

The highest number of deaths occurred in those districts in which the largest towns are situated.

The death-rates from Phthisis in urban and rural areas.— The death-rate in urban and rural areas was 1.68 and 0.15, respectively. The corresponding death rates for the previous year were 1.38 and 0.16, respectively.

The death-rate from phthisis in the 4 principal towns compared with the quinquennial mean are shown below:—

Name of town.		De	ath-rate for 1936.		Quinquennial mean.
Karachi	•••	•••	2.41	•••	1.93
Hyderabad	•••	•••	<b>2</b> ·38	• • •	1.45
Sukkur	•••	• • •	o <sup>•</sup> 75	•••	0.49
Shikarpur			1.48	•••	1.13

- 22. Pneumonia (General Prevalence).—In 1936, the number of deaths registered due to pneumonia was 6,717 as against 5,777 in 1935.
- 23. Death-rates from pneumonia in urban and rural areas.— The urban and rural death rates were 4.89 and 1.09, respectively. The highest death-rates in the urban areas were recorded in Umarkot (10.42), Hyderabad (9.07), Karachi (7.07), Matiari (6.13) and Mirpurkhas (5.80).

Out of 3,183 deaths due to pneumonia in urban circles, 1,750 deaths were recorded in Karachi City and 871 in Hyderabad Town. The figures for these towns under this head for 1935, were 1,330 and 683, respectively.

The district of Karachi and Thar Parkar recorded the highest death-rates for the rural areas, viz., 298 and 200, respectively.

- 24. Dysentery and Diarrhæa (General Prevalence).—These diseases were responsible for 1,303 deaths as against 912 in the previous year and 855 the quinquennial mean. The corresponding ratios were 0'34, 0'23 and 0'23, respectively.
- 25. Death-rates from Dysentery and Diarrhæa in the previous years by Collectorates.—

Collectorate.		1936.		1926 to 1935 (Mean.)
Karachi	•••	1.59	•••	0.01
Hyderabad	• • •	0.34	•••	0.10
Nawabshah	•••	0.02	• • •	0.02
Thar Parkar	•••	0.07	•••	0.02
Larkana	•••	0.06	•••	0.03

Collectorate.		1936.		1926 to 1935 (Mean.)
Dadu	•••	0.09	•••	0.04
Sukkur	•••	0.33	•••	0.18
Upper Sind Frontier	<b></b>	0'02	•••	0.04

Dysentery.—328 deaths were recorded under this sub-head against 217 deaths in the preceding year corresponding to the death-rates equivalent to 0.08 and 0.05, respectively.

Diarrhæa.—The mortality due to diarrhæa was 975 in 1936 as compared with 695 in the preceding year. The death rates were 0.25 against 0.18 recorded during the previous year. The urban and rural death rates were 1.25 and 0.05 in 1936 and 0.86 and 0.04 in 1935.

26. Death rates from Dysentery and Diarrhæa in rural and urban areas.—The death rates for urban and rural area were 1.61 and 0.08, respectively.

The highest death rates in urban areas were recorded in Karachi (2'75), Sukkur (1'93) and Hyderabad (1'51).

The districts of Karachi (0'15), Hyderabad (0'14), Nawabshah (0'09) and Dadu (0'08) recorded the highest death rates for the rural areas.

27. Injuries.—The number of deaths recorded under this head was 873 of which 617 were among males and 256 among females. The mortality due to this cause in the previous year was 884 and the mean for the 5 years ending 1935 was 916. Deaths from injuries from 1926 to 1936 are as follows:—

Year.			N	umber of deaths.
1926	•••	•••		7 <sup>8</sup> 9
1927	•••	•••	•••	811
1928	• • •	•••	•••	916
1929	••	•••	•••	924
1930	•••	•••	•••	926
1931		•••	•••	838
1932	•••	•••	•••	938
1933	•••	•••	•••	1,004
1934	• • •	• • •	•••	916
1935	• • •	•••	•••	884
1936	•••	•••	•••	873

28. Details of deaths from injuries.—The following table shows a further comparison under various heads:—

Causes.		1936.			1935.			
		Males.	Females.	Total.	Males.	Females.	Total.	
Drowning	•••	91	57	148	93	42	135	
Poisoning		10	3	13	11	3	14	
Hanging	•••	3	6	9	6	6	12	
Wounding	•••	222	94	316.	185	70	255	
Wild beasts		23	6	29	7	2	9	
Snake bites	•••	159	29	188	190	31	221	
Rabies	•••	7	I	8	8	6	14	
Railway accidents	•••	2	1	3	6	•••	6	
Other causes	•••	100	59	159	131	87	218	
Total	•••	617	256	873	637	247	884	

29. Deaths from snake-bites.—188 deaths were recorded due to snake-bite against 221 in 1935. The details are:—

Thar Parkar District (38), Nawabshah District (37), Larkana District (36), Karachi District (26), Sukkur District (19), Dadu District (16), Hyderabad District (10) and Upper Sind Frontier District (6)

- 30. Deaths from Rabies.—8 deaths due to rabies were reported this year as against 14 reported during the previous year.
- 31. Details of suicidal deaths.—26 deaths from suicide were registered in 1936 against 29 in 1935. The deaths occurred under the following heads:—

O				Male.		Female		Total.
Drowning	• • •		•••	4	•••	I	•••	5
Poisoning	•••		•••	2	•••	•••	• • •	2
Hanging	•••		• • •	2	•••	4	•••	6
Wounding	•••		•••	10	•••	3	• • •	13
		Total	c • •	18	•••	8		26

32. Deaths from other cuases.—Under this class of deaths are comipled all deaths not falling under any of the specific heads prescribed for the compilation of vital statistics. 8,025 deaths were recorded during the year as compared with 7,471 in 1935 and 7,322 mean average of the previous five years, showing corresponding death-rates equivalent to 2.07, 1.93 and 1.89.

The number of deaths registered under this group during the last ten years is as shown below:—

Year.				No. of deaths.
1926	•••	•••	•••	6,311
1927	•••	••••	•••	5,903
1928	•••	•••	•••	6,204
1929	•••	•••	•••	7,815
1930		•••	•••	6,795
1931	•••	•••	•••	7,123
1932	••••	•••	•••	7,658
1933	•••	•••	•••	7,473
1934	•••	•••		6,886
1935	•••	•••	••,	7,47 <sup>I</sup>
1936	•••	•••	•••	8,025

- 33. Deaths from Child-birth.—Deaths due to child-birth showed a slight increase over the figures of the previous year. 1,023 deaths were registered in 1936 against 979 in 1935. The maternal mortality rates were 12.86 in 1936 and 11.15 in 1935, per 1,000 births.
- 34. Deaths from Child-birth in previous years.—The annual mortality for the previous five years was as follows:—

Years.			N	o. of deaths.
1931	•••	•••		1,297
1932	•••	•••	•••	1,113
1933	•••	•••	•••	I,122
1934	•••	•••	•••	1,027
1935		• • •	•••	979
1936	•••	•••	•••	1,023

# 35. Deaths from child-birth by Collectorates.—

Collectorates.			Death fr 1936.	om Ch	ild-birth 1935.
Karachi	•••	• • •	125	•••	93
Hyderabad	•••	•••	162	•••	148
Nawabshah	•••	• • •	146	•••	126
Thar Parkar	. • •	•••	I I 2	•••	108
Larkana	•••	•••	122	•••	132
Dadu	•••	•••	102	•••	84
Sukkur	•••	•••	229	•••	<b>24</b> 8
Upper Sind Fi	rontier	•••	25	•••	40
		-	<del></del>		
	Total	•••	1,023	• • •	979
		-			

36. Deaths from child-birth in urban and rural areas.—
The incidence of maternal mortality in the important towns, viz,
Karachi, Hyderabad, Sukkur, Shikarpur and Larkana, is shown
below:—

Town.			Total No. of Births in 1936.	Total No. of deaths from child-birth in 1936.	Total No. of births in 1935.	Total No. of deaths from child-birth in 1935.
Karachi	•••		13,937	79	12,603	47
Hyderabad	•••	•••	4,243	17	3,784	22
Sukkur	•••	•••	2,539	33	2,292	30
Shikarpur	•••	•••	<b>2</b> ,243	56	2,144	63
Larkana	•••	•••	1,032	31	894	35

The urban and rural mortality rates were 11'02 and 13'79, respectively, per 1,000 births. One woman died of child bearing to every 91 live-births.

37. Diphtheria.—43 deaths were recorded during the year under report or 0.01 per mille as compared with 46 or 01 per mille in the previous year. The death rates for urban and rural areas were 0.05 and 0.002, respectively.

# CHART VI WEEKLY INCIDENCE OF DEATHS FROM EPIDEMIC DISEASES DURING THE YEAR 1936.



G.P.Z.O.POONA,1938.

The highest death rates in urban areas were recorded in Nawabshah (0.28), Dadu (0.15), Karachi (0.09), Hyderabad (0.07) and Tando Adam (0.07).

Eight deaths were registered for rural areas, of which 4 occurred in Nawabshah, Karachi, Thar Parkar, Larkana, and Dadu, each recorded one death only.

Karachi town.—During the year, 181 cases and 23 deaths were reported due to diphtheria from Karachi town. 178 cases were admitted to the Municipal Epidemic Diseases Hospital of which 19 proved fatal, giving a case mortality of 10.67.

The number of deaths from chief causes for each Collectorate and by months is shown in Annual Form Nos. VII to XII.

#### CHAPTER IV.

#### EPIDEMIOLOGY.

- 1. Cholera (General prevalance).—During the year under report the prevalence of cholera was restricted to one town only in Sind, viz., Tando Allahyar (Hyderabad district). The rest of Sind was free from the disease. In all 12 cases with & deaths occurred in Tando Allahyar. The death rate from the disease for Sind was 0.002 in 1936 as compared with 0.01 in 1935.
- 2. Deaths from cholera in previous years.—The following table and Chart No. VII, show that total number of deaths from 1915 to 1936:—

,	Year.				Nu	mber of deaths
I	915	•••	•••	••••	•••	27
I	916	• • •	•••	•••	•••	1,23!
I	917		•••	•••	•••	449
I	918	• • •	• • «	•••	• • •	2
1	919	•••	•••	• • •	•••	/316
1	920	•••	•••	• • •	•••	•••
J	921	•••	a <b>9 6</b>	• • •	•••	429
I	922	•••	•••	•••	•••	25
I	923	• • •	•••	•••		9
I	924	•••	•••	•••	• • • •	409
I	925	•••	•••		•••	I
I	926	•••	•••	•••	•••	133
I	927	•••	•••	• u •	• • •	Ī
I	928	•••	•••	•••	•••	214
						-

Year.				Number of deaths 6,411		
1929	•••	• • •	•••			
1930	• • •	• • •	•••	• • •	•••	
1931	• • •	<b></b> • •	•••	•••	68	
1932	•••	•••	•••	•••	<sup>1</sup> 5	
1933	•••	•••	•••		3	
1934	• • •	•••	• • •	•••	I	
1935	•••	•••	•••		44	
1936	•••	•••	•••	• • •	8	

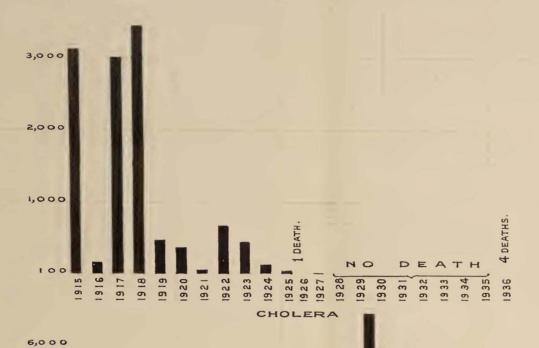
- 3. Deaths from Cholera by Collectorates.—12 cases with 8 deaths occurred in Hyderabad district showing a death-rate equivalent to 'or per mille. The rest of the collectorates were entirely free from cholera.
- 4. Deaths from Cholera in urban and rural areas.—8 deaths were reported in one urban area only; the rural areas were free.
- 5. Brief history of cholera.—The outbreak was reported on 27th July 1936 from Tando Allahyar town. On receipt of the intimation, the Assistant Director of Public Health left for the affected town to make personal investigations. All infected houses were visited and inspected and all persons suffering from cholera at the time were personally examined. Enquiries were made in all quarters of the town to find out if any suspicious cases had been left unreported. It was found that the outbreak was local and not imported from outside, as all persons attacked had been residing in the town for some time. The majority of cases were in one locality and it was noted that the domestic water-supply of the infected houses was from one well, which was probably contaminated and was responsible for the spread of the disease in that locality.
- 6. Preventive measures.—(1) Detailed instructions were given to the Municipal staff at each infected house with regard to disinfection of the house, clothes and excreta.
- (2) All wells in the town were sterilised with potassium permanganate solution. The well suspected to have been contaminated was closed on the advice of the Assistant Director of Public Health and a guard placed over it.
- (3) Instructions regarding the maintenance of general cleanliness of the town, prevention of the sale of decomposed articles of food, and protection of food from flies were given.

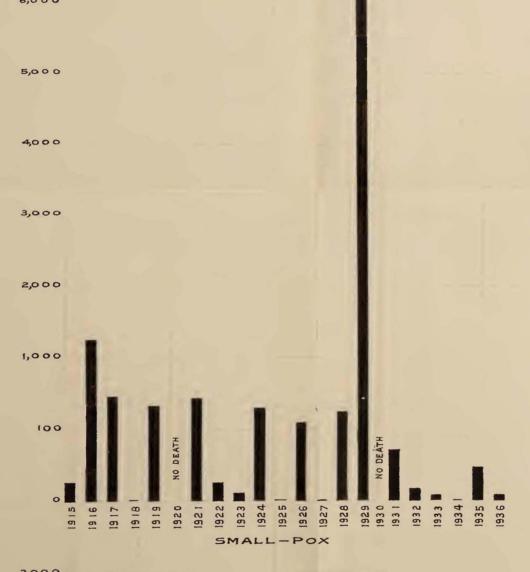
CHART VII

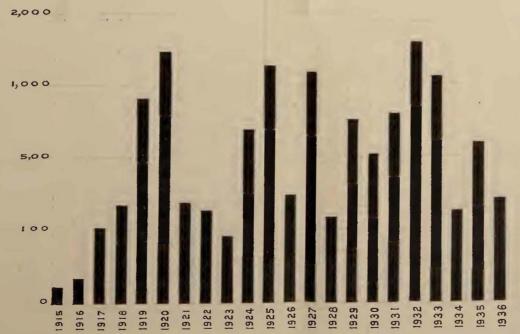
ANNUAL INCIDENCE OF DEATHS FROM EPIDEMIC DISEASES.

1915 TO 1936

PLAGUE







- (4) People were advised to boil their drinking water and to get themselves inoculated.
- (5) As the Municipality had no qualified sanitary inspector, the Inspector of Sanitation and Vaccination of the district, was detailed for special cholera duty and was given full instructions to take adequate measures to check the further spread of the disease and to supervise the sanitation of the town.
- (6) A Subordinate Medical Officer was deputed on special duty to perform inoculations and treat the patients. The total number of persons inoculated against cholera was 665.

With the strict enforcement of the above measures, the situation was brought under control in a very short time.

Before the onset of the cholera season, a circular was sent to all Local Bodies advising them to make the necessary arrangements to deal with an outbreak if it occurred.

During the year under report, 246 tubes of 10 c.c. and 100 tubes of 5 c c. of anti-cholera vaccine were indented for emergent use. Out of these, 154 tubes of 10 c.c. and 75 tubes of 5 c.c. were supplied to the various agencies in Sind.

## 7. Expenditure on Cholera.—

_		Rs.	a.	p.
Cost of cholera vaccine	•••	234	8	0
Cost of potassium permanganate and chole pills supplied to Mukhtiarkars and Lo Bodies	era cal	283	12	0
Cost of deputation of Special Subordina Medical Officer for cholera duty to Tan	ate do			
Allahyar	•••	51	15	0
Total	•••	570	3	0

8. Small-pox (General prevalence).—Small-pox was prevalent in all districts of Sind almost throughout the year.

The total number of cases and deaths reported during 1936, was 1,582 and 308, respectively, as against 1,608 attacks and 571 deaths reported in the preceding year.

The death rate during 1936, was 0'07 per mille of population against 0'15 in 1935, and 0'22 quinquennial mean. The case mortality rate during the year was 19'47 as against 35'51 in the previous year.

9. Death from small-pox in previous years.—The following table shows the number of deaths and death rates recorded in the years 1926 to 1936. Chart No. VII shows this information in graphic form for the years 1915 to 1936:—

Year.		. Number of deaths.			Death-rate.
1926	•••	•••	1,143	•••	0.32
1927	•••	•••	336	•••	0.10
1928	• • •	•••	179	•••	0.06
1929	•••	•••	747	•••	0.53
1930	•••	•••	509	•••	0.19
1931	••••	•••	795	•••	0'21
1932	•••	•••	1,553	•••	0.40
1933	•••	•••	1,093	• • •	0.58
1934	•••	•••	209	• • •	0.02
1935	•••	•••	57 <sup>1</sup>	•••	0.12
1936	•••	•••	308	•••	0.04

Of 308 deaths, 46 were among infants under one year, 133 above 1 and under 10 years and the remaining 129 above 10 years.

10. Deaths from small-pox by Collectorates.—Comparative figures for each collectorate are as follows:—

Collectora	te.			Cases	Deaths.	Death-rates.
Karachi				308	82	0'14
Hyderabad	• • (		•••	151	28	0'04
Nawabshah	•••		•••	154	30	0.06
Thar Parkar			•••	254	41	0.00
Larkana	•••		•••	188	31	0.04
Dadu	•••		•••	254	43	0.13
Sukkur	•••		•••	81	2 I	0.03
Upper Sind Frontier	·		•••	192	32	0.15
		Total	•••	1,582	308	0.04

Out of 26 towns and 9,095 villages in Sind, 7 towns and 70 villages were affected with small-pox. Amongst towns high death-rates were recorded in the towns of Jacobabad (1.40), Karachi (22), Tatta (0.21) and Kotri (0.20).

In the rural areas Dadu district recorded the highest death rate (0.13). The next in order were Thar Parkar (0.09), Karachi (0.08), Larkana (0.08), Nawabshah (0.06), Hyderabad (0.04), Sukkur (0.04) and Jacobabad (0.04).

12. Steps taken by the Department in rural areas.—As usual, necessary precautions were taken to check the spread of the disease. On receipt of the intimation of an outbreak of small-pox in any rural area, the vaccination staff was ordered to carry on vaccination work vigorously.

Preserved lymph from Belgaum was indented for and stocked in a refrigerator in the Head Office 9,065 doses were supplied to the vaccinators in Sind in addition to their usual weekly supplies.

- 13. Vaccinal condition.—During the year, 107 cases of small-pox were admitted in the Municipal Epidemic Diseases Hospital, Karachi. Of these cases, 56 were vaccinated as evidenced by the presence of vaccination marks, 46 stated to be unvaccinated, and 5 unsuccessfully vaccinated. Of these, 17 died and 90 were discharged. Of the 17 deaths, 7 were among the vaccinated and 10 among the unvaccinated.
- 14. Plague (General prevalence).—Plague made its appearance in Karachi City after its absence during the last decade. The infection was localised in one quarter only. Every effort was made to trace the source of infection. The fact that all the persons attacked had come from the United Provinces and lived in the same chawl, and that many of the districts in the United Provinces were then affected with plague, led to the assumption that an infected rat flea may have been lodged in the belongings of one of these persons who had recently come from the United Provinces.
- 15. Deaths from plague in previous years.—The accompanying Chart No. VII shows the total number of deaths from 1915 to 1936.
- 16. Deaths from plague by Collectorates.—6 cases with 4 deaths occurred in Karachi district only showing a death-rate equivalent to 0'0001 per mille of population.
- 17. Death from plague in urban and rural areas.—4 deaths were reported in one urban area (Karachi City) only; the rural areas were entirely free from plague.

18. Ratting Operations.—During the year under report, the following Municipal towns carried out regular ratting operations:—

Karachi, Hyderabad, Sukkur, Shikarpur, Mirpurkhas, Larkana and Tando Adam.

150,369 rats were caught. In Karachi City, 71,658 rats were caught, out of which 1,501 were examined at the Chemico-Bacteriological Laboratory, Karachi. In the city, the daily average number of traps issued was 486.

- 19. Anti-plague measures.—(1) All patients attacked were immediately isolated in the Municipal Epidemic Diseases Hospital, Karachi.
- (2) The chawl in which the cases occurred was immediately evacuated and thoroughly disinfected.
- (3) All contacts and the people in the surrounding area were inoculated.
  - (4) Rat-trapping was intensified.
- (5) Rats were sent to the Chemico-Bacteriological Laboratory, Karachi, for examination.
  - (6) A press note was issued by the Health Department of the Municipal Corporation advising the public to take general preventive measures and asking their co-operation in bringing to the notice of the Health Department any suspicious illness or any dead rats found anywhere.
- 20. Inoculations.—473 persons were inoculated in Karachi City.
- 21. Influenza.—Only 4 deaths from influenza were reported during the year 1936, as compared with 18 deaths in the previous year.
- 22. Death from influenza in previous years.—The mortality due to influenza since its appearance in 1918, is shown below in tabular form:—

Year.	Number of deaths.	Year.	Number of deaths *		
1918	190,217	1923	37		
1919	1,008	1924	39		
1920	552	1925	30		
1921	327	1926	20		
1922	128	1927	26		

Year.	Number of deaths.		Year.	Number of deaths.		
1928	•••	45	1933	5		
1929	•••	I 2	1934	14		
1930	•••	6	1935	18		
1931	••	6	1936	4		
1932	•••	3		•••		

Deaths from influenza in urban and rural areas.—Three of the 4 deaths occurred in urban areas viz., Karachi City (2) and Jacobabad town (1). The remaining deaths occurred in Dadu rural district.

## CHAPTER V.

1. Fairs and Festivals.—Lal Shahbaz fair, Sehwan (Dadu district).—The fair took place at Sehwan on the 4th, 5th and 6th of November. About 15,000 pilgrims attended the fair. The Inspector of Sanitation and Vaccination was deputed to supervise the sanitary arrangements at the fair, which were made by the Local Pilgrim Committee. The Director of Health and Prison Services also visited the fair.

Bhit Shah fair (Hyderabad district).—12,000 persons attended from all parts of Sind. Sanitary arrangements were supervised by the Inspector of Sanitation and Vaccination.

The other large fairs in Sind attended by over 5,000 pilgrims were the Pithoro fair (Thar Parkar district) and Shah Karim Bulri fair (Hyderabad district). The sanitation of these also was supervised by the Inspectors of Sanitation and Vaccination.

No cases of infectious diseases occurred among the pilgrims at any of the fairs.

#### CHAPTER VI.

## URBAN SANITATION (INCLUDING NOTIFIED AREAS).

of Health having British Diplomas in Public Health were employed in Karachi, Hyderabad and Sukkur. The Medical Officer of Heath employed at Shikarpur possesses an Indian diploma. The 2 municipalties of Sukkur and Shikarpur have employed Medical Officers of Health possessing qualifications necessary for a first class municipality but allow the scale of pay prescribed by Government for an officer of a second class-town. Two Assistant Health Officers and one Deputy Health Officer having British diplomas are also employed in Karachi town.

- 2. Number of Sanitary Inspectors.—22 qualified sanitary inspectors were employed in the 7 principal towns of the province, viz, Karachi (8), Hyderabad (4), Shikarpur (3), Sukkur (3), Larkana (1), Rohri (1), Tando Adam (1) and Jacobabad (1).
- 3. Municipal Sanitary Works.—There are in all 26 Municipalities with a total population of 667,066.

The incidence of municipal income and taxation per head of population in the larger municipalities was as follows:—

	Income.	Taxation.
	Rs. a. p.	Rs. a. p.
Karachi	17 5 8	9 13 9
Hyderabad	12 10 10 .	6 10 10
Sukkur	16 11 3.	3 12 3
Shikarpur	11 9 11 .	4 4 11

During the year, sanitary inspection of 16 towns was made by the Director of Health and Prison Services and the Assistant Director of Public Health. In each case a complete report of the inspection of the towns was sent to the President of the Municipality concerned who was requested to remedy the defects pointed out in the report. Very few of the Municipalities concerned took any action.

- 4. Expenditure on Public Health in Municipalites.—The expenditure on public health measures came to Rs. 2-3-6 approximately per head of population in Karachi City and averaged Rs. 2-5-5 for the remaining municipalities.
- 5. Municipal water-supplies. Results of water analysis.—
  The water-supply in Karachi continued to be maintained at a high standard of purity. Samples of untreated and of chlorinated water were sent daily for examination to the Chemico-Bacteriological Laboratory.

At Hyderabad the water is sedimented and chlorinated with perchloron. Occasional samples are sent to the Laoratory for examination.

The Sukkur water-supply is of a high standard of purity. The water is sedimented, filtered, and chorinated with bleaching powder. Patterson's Repid Filters are in use. Samples are sent regularly

to the Laboratory for examinations. At Jacobabad, the water is pumped from wells situated three miles away from the town to a high service tank. The water is permanganated at the source. Samples of water are sent periodically to the Laboratory for examination.

Only a portion of Rohri town is provided with a pipe water supply. Water is pumped into a high tank from the river and permanganated. No sedimentation or filtration is done.

6. Infections Diseases Hospital.—There is only one Infectious Diseases Hospital in Sind It is in Karachi and is maintained by the Municipal Corporation. The construction of an infections diseases hospital at Hyderabad has been approved by the municipality but the building has not yet been commenced.

At the Municipal Infectious Diseases Hospital, Karachi, 521 cases were treated for different diseases of which 52 proved to be fatal.

#### CHAPTER VII.

#### RURAL SANITATION.

- 1. District Health Officers.—Of the 8 districts in Sind only one, viz., Larkana has a District Health Officer.
- 2. Land acquisition in villages.—During the year no land was acquired for the purpose of relieving over-crowding in villages.
- 3. Village water-supply.—Government placed at the disposal of the Revenue Commissioner for Sind, the amount of Rs. 18,000 for the improvement of village water-supply.

Draw wells were newly constructed in the following districts:—

Hyderabad	•••	•••	•••	16
Thar Parkar	•••	•••	•••	27
Sukkur	••••	•••	•••	2
Upper Sind Fr	ontier		• • •	4
		Total	• • •	40

4. District and Taluka Local Boards.—Taluka Local Boards were abolished in the following districts:—

Karachi.

Hyderabad.

Nawabshah

Dadu.

Upper Sind Frontier.

The expenditure of District Local Boards on Public Health measures varied from 17 per cent. (Larkana district) to 3 per cent. (Dadu district) of their income.

The average expenditure on public health per head of population varied from Re. 0-3-8 (Larkana district) to 8 pies (Dadu district).

- 5. Village Sanitary Boards.—There is one Sanitary Board, viz., at Shahpur Chakar, taluka Shahdadpur (Nawabshah district). No work of any importance was reported to have been done during, the year.
- 6. Sanitary Committees.—During the year there were 224 sanitary committees in Sind. During their tours the Director of Public Health and Prison Services and the Assistant Director of Public Health inspected the sanitary arrangements of 2 sanitary committees and suggestions as regards improvements were made.

## CHAPTER VIII.

#### MALARIA.

- 1. Incidence.—During the year under review, 1,627 deaths due to malaria were recorded against 2,176 deaths in the preceding year. The death rates in 1936 and 1935, were '42 and '56, respectively.
- 2. Deaths from malaria in Collectorates. Deaths from malaria in the collectorates were as follows:—

Collectorate.			Number of deaths.		
Karachi	•••	•••	• • •	265	
Hyderabad	•••	* * 4	• • •	197	
Nawabshah	•••	•••	••••	59	
Thar Parkar	••••	•••	•••	133	

Collectorate.		Number of deaths		
Larkana	•••	•••	••••	141
Dadu	•••	•••	•••	172
Sukkur	•••	•••	•••	б2 I
Upper Sind Frontier		•••	•••	39
		Total	•••	1,627.

- 3. Relation of deaths from malaria to deaths from fevers.—
  During the year 27,679 deaths from fevers were recorded out of which 1,627 deaths were due to malaria, the percentage of deaths from malaria to those from fevers being 5.87. The corresponding percentage for 1935 was 0.47.
- 4. Seasonal mortality of malaria.—The highest mortality from malaria was recorded in March (204) and the lowest in July (85).
- 5. Deaths from malaria in urban and rural areas.—The highest death-rates from malaria in urban areas were recorded in Shikarpur (5.44), Rohri (5.33), Kotri (3.19), Larkana (2.57) and Garhi Yasin (1.76) and in the rural areas in the districts of Karachi (0.70), Dadu (0.44), Thar Parkar (0.29) and Sukkur (0.20). The urban and rural death-rates were 1.26, respectively, as compared with 1.42 and 38 in 1935. The higher death-rate shown in urban areas is due to better registration of causes of deaths. Actually the mortality in rural areas from malaria is higher, but many deaths due to this cause are registered under fevers.
- 6. Anti-malaria measures.—Of the towns in Sind only Karachi has a fairly adequate anti-malaria staff. Hyderabad has a small anti-mosquito brigade which is not adequate for the town. In the towns of Shikarpur and Sukkur anti-malaria work is done by the local sanitary staff. In some of the other towns measures such as oiling and filling of pits are sporadically carried out. Some of the municipalities distribute a certain amount of free quinine in their areas.

Rural areas.—No anti-larval or anti-mosquito measures were carried out in any of the districts. Larkana and Sukkur District Local Boards distributed quinine free in their area and Larkana, Sukkur, Hyderabad, and Karachi districts appointed touring medical officers for the malaria season.

7. Government measures.—Ten temporary touring medical officers were appointed during the malaria season to tour in rural areas and treat patients suffering from malaria and other common diseases. They were also required to take the spleen index, map out mosquito breeding places, send mosquitoes for identification to the Assistant Director of Public Health, and advise the villagers regarding simple preventive measures against malaria and the value of quinine in the treatment of malaria. The touring medical officers visited 563 villages, treated 11,430 persons for malaria, and 9,203 for other complaints. They also examined 11,866 children and adults for enlarged spleens of which 5,739 were found to have enlarged spleens, giving a spleen rate of 41'3 per cent.

During the year 286,153 malaria cases were treated in the hospitals and dispensaries in Sind as compared with 208,664 in the previous year.

Illustrated posters were printed and distributed freely to the Heads of several departments for exhibition in schools, dispensaries, post offices, railway stations, etc.

According to a sample kindly lent by Mr. F. L. Brayne, I.C.S. until recently the Commissioner for Rural Reconstruction, Punjab, mosquito nets were manufactured at the Karachi District Prison for cheap sale at Rs. 1-8-0 each. The demand, specially from subordinates of various government departments was so great that it was difficult to comply with all the orders received.

- 8. Distribution of quinine.—During the financial year 1936-37. Government sanctioned Rs. 23,000 for the cheap sale and free distribution of quinine.
  - (1) Quinine sulphate tablets to Post Offices 810 8 o for cheap sale.
  - (2) Quinine hydrochloride treatment sold to 4,713 12 o Government departments.
  - (3) Quinine sulphate tablets sold to Local 1,125 o o Bodies at concession rate for free distribution.
  - (4) Quinine sulphate tablets distributed free. 15,872 2 0

Quinine tablets were distributed free in rural areas through the medium of (1) Officers of the Public Health, Revenue, Agricultural and Education Departments, (2) Adminstrative Officers of District School Boards and (3) recognised philanthropic societies, e.g., Red Cross Society.

9. Special inquiries and investigations.—Nil.

#### CHAPTER IX.

#### MATERNITY AND CHILD WELFARE.

- 1. Urban.— In Karachi City there are 8 maternity homes and hospitals, viz, The Lady Dufferin Hospital which is Government aided, four Municipal maternity homes, the Karachi Health Association Maternity Hospital, and two maternity homes intended for the Parsi and Khoja communities only. In the city there are 7 Child Welfare Centres of which 6 are Municipal and 1 conducted by the Red Cross Society.
- At Hyderabad there is one maternity hospital—The Lady Dufferin Hospital and one Municipal Child Walfare Centre.
- At Shikarpur there is a Lady Dufferin Hospital and the Ishwarbai Maternity Home conducted by a philanthropic society.
- At Sukkur there is a Municipal Maternity Home, a Mission hospital for women and a Red Cross Child Welfare Centre.
- At Jacobabad there is The Lady Willingdon Maternity Hospital and a Red Cross Society Child Welfare Centre.
- At Rohri, Larkana, Kambar, Tatta and Matiari, there is one Municipal maternity home in each of the towns, and at Dadu and Nawabshah there is one Red Cross Society Maternity Home.
- 2. Rural.—There are 18 Local Board maternity homes in Sind, 14 in Larkana district, 2 in Upper Sind Frontier district, 1 in Sukkur district and 1 in Karachi district.

The Red Cross Society have established 2 maternity homes in Sukkur district and 1 in Upper Sind Frontier district.

Trained dais have been appointed in the following villages and are working under the supervision of the local medical officers:—

Kandiaro, Mehrabpur, Tharushah, and Bhiria in Nawabshah district and Chak in Sukkur district.

A supervisor has been appointed by the Red Cross Society to inspect the Local Board maternity homes in Larkana district.

3. Miss Piggot's Dais' Improvement Scheme, Hyderabad.— During the year under report, 49 indigenous dais were trained, of which 36 appeared for the examination and passed. During her tour Miss Piggot supervised the work of 83 dais.

#### CHAPTER X.

Children.—Systematic medical inspection of school children is conducted in Hyderabad town only. The Municipality of Hyderabad pay a sum of Rs. 1,020 as honorarium and conveyance allowance to a Medical Graduate for the purpose of carrying out medical inspection of all children studying in the Municipal schools once every four months.

The Assistant Director of Public Health during his tour visited schools to inspect the sanitary and vaccinial conditions.

The Inspectors of Sanitation and Vaccination in Sind visited 87 schools to inspect the vaccinial condition of the school children and to inspect sanitation, ventilation, and water-supply They examined 2,352 children for enlarged spleens and found 408 with enlarged spleens. They delivered 45 lectures on tuberculosis and general hygiene.

#### CHAPTER XI.

#### HEALTH PROPAGANDA.

1. Associations.—The work done by different associations is as shown below:—

Karachi Health Association.—The Karachi Health Association continued to do good work. The new maternity home building was completed and opened. During the year under report, 922 cases were conducted at the Institute (614 normal cases, 112 abnormal cases, 37 waiting cases, 148 complete and incomplete abortion and 11 miscarriage). The number of cases conducted by out-door mid-wives in the various quarters of the town was 1,761.

2. Red Cross Society.—(Sind Provincial Branch).—The provincial organiser visited 72 towns and villages during the year, gave 178 lectures, and visited 99 Junior Red Cross Groups. She organised Health Exhibitions at Jacobabad, Hyderabad and Tatta. A Baby Health Week was held at Hyderabad.

Anti-tuberculosis propaganda by means of lectures, posters and leaflets was conducted by the Anti-tuberculosis Sub-Committee of the local Red Cross Society.

3. Public Health Department.—At the Agricultural-cum-Industrial Show at Hyderabad, models, posters and leaflets on sanitation, malaria, tuberculosis, and maternity and child welfare were exhibited.

Malaria Propaganda was carried on by means of lectures and illustrated posters widely distributed. Cheap mosquito nets were exhibited by the touring medical officers and Inspectors of Sanitation and Vaccination.

The Inspectors of Sanitation and Vaccination delivered lectures on tuberculosis in some of the schools visited by them.

- 4. Village Uplift.—The village uplift scheme has only been introduced in Sind since the last two years. Funds allotted by the Government of India, for this purpose and the expenditure in the districts is under the management of the Collectors of districts. Steps taken in connection with the improvement of sanitation and public 'health vary in the different districts and comprise one or more of the following:—
  - (1) Appointment of touring medical officers for medical relief and public health propaganda.
  - (2) Appointment of touring mid-wives who conduct maternity cases in villages and give instructions to village dais.
  - (3) Monetary assistance to Sanitary Committee villages for drainage, cesspools, improvements to or construction of markets and wells, filling of pits, etc.
  - (4) Construction of tube wells in villages not having a satisfactory water supply.

In some districts one or more villages are selected and improvements restricted to them.

#### CHAPTER XII.

#### PUBLIC HEALTH ADMINISTRATION.

1. General administration of the Department—Budget allotments, increases, decreases, etc.—The Director of Health and Prison Services is the administrative head of the Public Health Department. He is also the head of the Medical and Jail Departments in Sind. There is one Assistant Director of Public Health and one Officer-in-charge of the Chemico Bacteriological Laboratory, Karachi. Five Inspectors of Sanitation and Vaccination and 63 Vaccinators constitute the subordinate staff. The Laboratory has a Bacteriological and a Chemical Assistant and clerical and menial staff.

The Municipalities in Sind employed 6 qualified Health Officers (3 in Karachi) and 23 qualified Sanitary Inspectors. Only one district in Sind, viz., Larkana has appointed a District Health Officer and a health staff. Government give grant-in-aid equal to two-thirds of the pay of this Health Officer.

Appendix I and I-A show the qualified health staff employed in the rural and urban areas and particulars of maternity and child welfare centres; health visitors and trained mid-wives in rural and urban areas respectively.

Appendix II shows the annual income and expenditure of the Public Health Department during the year 1936-37. The total amount given by Government to Local Bodies as grants-in-aid towards the pay of the health staff and vaccination establishment was Rs. 60,000.

- 2. Selected District.—The system introduced in 1910 by which the control of vaccination in one district in Sind (viz. Sukkur), is exercised by the Local Board of that district was continued throughout the year.
- 3. Training of Public Health personnel—Training of Sanitary Inspectors.—There was no recognised institution in the province of Sind for the training of Sanitary Inspectors.

## CHAPTER XIII.

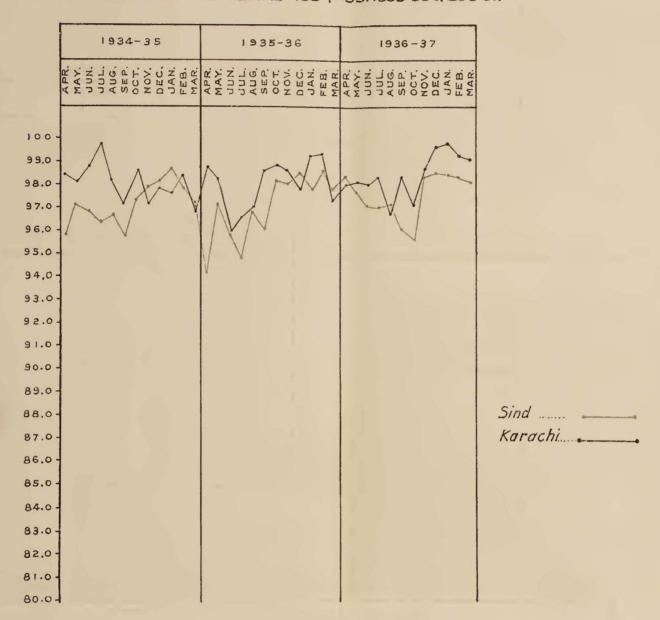
#### VACCINATION.

(This chapter and all statistical tables connected therewith refer to the period 1st April 1936 to 31st March 1937.)

- 1. Changes in the strength of establishment.— The permanent strength of the vaccination establishment during the year 1936-37 was the same as in the previous year.
- 2. Primary vaccinations.—(Appendix IV, Statement I).—123, 162 persons were primarily vaccinated in 1936-37 as against 119,388 in the preceding year, showing an increase of 3,774.

#### CHARTVIII

INSERTION SUCCESS RATES OF PRIMARY VACCINATIONS WITH GLYCERINATED LYMPH IN THE PROVINCE OF SIND & KARACHI CITY FOR THE YEARS 1934-35.1935-36 & 1936-37.



3. Results.—During the year 1936-37, out of 123,162 primary vaccinations, 114,016 or 92.57 per cent. were successful and 171 or 0.14 per cent. unsuccessful. In the remaining 7.29 per cent. of the cases the results could not be ascertained.

Forty-nine persons were vaccinated a second time owing to the failure of the first operation.

- 4. Age and Sex.—Of the primary vaccinations, 69,916 or 56.77 per cent. were of infants under one year of age, 49,055 or 39.83 per cent. of children between the ages of one and six years, and 4,191 or 3.40 per cent. of children over 6 years of age. By sex 65,577 were males and 57,585 females, equal to a proportion of 113.88 to 100.
- 5. Re-vaccinations.—(Appendix IV, Statement I).—During the year 1936-37, the number of persons re-vaccinated was 46,041 as against 56,822 in the previous year showing a decrease of 10,781.

The percentage of successful re-vaccinations was 8.39. The results could not be ascertained in 69.52 per cent. of cases.

6. Vaccination of Pilgrims in Karachi.—During the year under report, a temporary vaccination establishment consisting of one male vaccinator, one female vaccinator, one clerk, and one cooly was entertained in Karachi city for the vaccination of pilgrims proceeding to the Hedjaz. In all 7,029 pilgrims were vaccinated between the 14th October 1936 and the 10th February 1937. Of these 5,360 were males and 1,540 females. The total expenditure incurred on the vaccination establishment for the vaccination of these pilgrims amounted to Rs. 683-14-0 and was borne by Government. In the year 1935-36, 4,924 pilgrims were re-vaccinated at a total expenditure of Rs. 638-7-0. The cost of lymph for the vaccination of pilgrims amounted to Rs. 530-12-0.

Vaccination in Police Lines and Outposts was carried out regularly.

- 7. Primary and Re-vaccinations in Indian States.—In accordance with Government Resolution No. 9083, dated 8th February 1935, General Department, the control of supervision of vaccination work in Khairpur State, was handed over to the State from 1st April 1935.
- 8. Cost of Vaccination.—The cost of vaccination amounted to Rs. 1,00,859-9-6 as against Rs. 1,04,532-9-5 in the previous year. The average cost of each successful case of vaccination was Re. 0-13-8 against Re. 0-15-10 in the previous year.

- 9. Vaccine Institute.—There is no Vaccine Institute in the province of Sind, and supplies of glycerinated calf lymph continued to be obtained from the Vaccine Institute, Belgaum 9,565 doses of lymph were sent for and stored in the Head office refrigerator for emergent use, out of which 9,065 doses were supplied to vaccinators in addition to their regular weekly supplies.
- the provisions of the Bombay District Vaccination Act, 1892, were extended to the two municipal towns of Hala and Nasarpur in Hyderabad district. Excluding the 2 Cantonments of Karachi and Hyderabad, the Act is in force in the following towns:—

Town.		Da	te of application of the Act.
Karachi		•••	October 1879.
Hyderabad	•••	•••	February 1914.
Sukkur	•••	•••	June 1904.
Shikarpur			July 1933.
Rohri	•••	• • •	June 1904.
Larkana	•••		April 1899.
Hala	• • •	•••	September 1936.
Nasarpur	• • •	•••	September 1936.

During the year 142 prosecutions were instituted under the Act in Karachi, Hyderabad, Sukkur, Shikarpur, Rohri and Larkana towns, of these 126 persons got their children vaccinated before the cases were heard, 10 were fined, 3 died, 1 was acquitted, and 2 cases were pending at the end of the year.

## 11. Diagram.—Nil.

12. General remarks—Efforts were made by the officers of the Public Health Department to induce the Municipalities of Jacobabad, Tatta and Dadu to apply for the introduction of compulsory vaccination in these towns. So far only the Dadu Municipality has agreed.

Bye-laws are in existence for the compulsory registration of births in Municipal towns, but registration is defective in the small towns. The Assistant Director of Public Health, during his inspection, drew the attention of the Municipal authorities to such defective registration of births and suggested means to improve the system of registration, but progress in this connection appeared to be slow and the number of children vaccinated was in consequence smaller than it should be.

The registration of vital statistics is not compulsory in rural areas.

During the year under report, no cases of inoculation with small-pox virus were reported.

Ill-effects of vaccination.—No ill-effects were reported to have occurred after vaccination.

During the year 1936-37, three Vaccinator candidates were trained. There were in all 20 candidates on the list of waiting candidates for service in Sind.

#### CHAPTER XIV.

#### OTHER PUBLIC HEALTH SERVICES.

- 1. Public Health Laboratories—The Chemico-Bacterio-logical Laboratory, Karachi.—During the year this laboratory was under the charge of Dr. Bhujanga Rao from 1st January to 26th March 1936. He was appointed as Chemical Analyser to the Government of Bombay and handed over charge to Captain E. Benjamin, Assistant Director of Public Health, who officiated as Officer-in-charge, Chemico-Bacteriological Laboratory, upto 11th of November 1936, in addition to his own duties. Mr. Hiranandani, the Bacteriological Assistant of the Laboratory, officiated as Officer-in-charge from 12th November till the end of the year. The laboratory has two sections, viz., a Chemical Analyser's section and a Public Health section. The report on the Chemical Analyser's section is published separately.
- 2. During the year under report a total number of 10,006 samples were examined in the Public Health section of the laboratory. A comparison of the work done during the last five years shows that the number of samples examined in this Section of the laboratory has more than doubled since 1932 (see table below). An increase in the staff of the laboratory is urgently necessary. This question is at present under consideration.

Table showing the work done under all heads during the last five years.

Kind of sa	mples		1932	1933	1934	1935	1936
Chemical examination	n of water		1,149	1,181	1,118	1,098	895
Bacteriological exam	ination of wa	ater.	1,903	2,244	2,722	3,005	1,508
Public Analyst's wo	ork (Articles	of		1,522	1,211	2,349	3,940
food under the Adr Food stuffs (other)	ulteration Ac		893	174	228	96	120
Diagnostic work			543	1,293	2,405	2,150	3,541
Miscellaneous work	•••		бі	66	93	53	2
Total	•••	•••	4,549	6,480	7,777	8,751	10,006
		<u> </u>		<u>_</u>			

3. Examination of water-supplies—Karachi. - 673 samples of water were examined chemically and 1,229 bacteriologically. Apart from the daily samples of untreated and chlorinated water sent to the laboratory, a number of samples are sent from different parts of the town and from areas where contamination of mains is suspected or where the incidence of intestinal diseases indicates contamination of the supply. Daily tests are made at laboratory to find out the dose of chlorine required. This is communicated by telephone to the Chlorinating Station. The standard of purity of the Karachi water-supply as ascertained from laboratory examination is fairly high.

Sukkur.—91 samples of water were examined chemically and 122 bacteriologically. 41 samples of bleaching powder and two samples of alum were also examined.

Hyderabad.—Only 17 samples of water were sent by the Hyderabad Municipality, all of which were examined bacteriologically.

Jacobabad.—During the year 28 samples were examined chemically.

Several samples of well-water were sent from different districts in Sind, by the Officers of the Public Works, Medical, and Public Health Departments.

- Diagnostic work.—During the year, 3,541 examinations were made under this head. These included Bacteriological, Microscopic, and Chemical examinations of urine, fæces, sputa, throat, swabs, blood slides, blood cultures, Widal's pus smears, cerebro spinal fluid, disinfectants for Rideal Walker tests, autovaccines, and the examination of rats for plague bacilli. In all 1,501 rats were examined for plague. During the outbreak of plague in Karachi, the laboratory staff rendered all possible help in the investigation of the plague cases.
- 5. Public Analyst.—(Food Adulteration).—The Bombay Prevention of Adulteration Act, 1925, was in force in the following towns:

Town. Date of application of the Act.

Karachi December 1930. Shikarpur January 1935.

Hyderabad ... August 1936.

During the year the number of samples of articles of food examined for the above Municipalities were-Karachi 3,340, Hyderabad 204 and Shikarpur 400.

6. Industrial Hygiene including Hygiene of Mines.—The Assistant Director of Public Health, continued the inspection of factories (under the Factory Act) in his capacity as ex-officio Inspector of Factories, submitting reports when necessary to the Managers of the factories inspected and to the Inspector of Factories. Special attention was paid to the lighting, ventilation, water-supply, sanitary arrangements, lime-washing and first-aid outfits of the factories inspected. During the year, 8 factories were inspected by the Assistant Director of Public Health.

There are no mines in Sind.

#### GENERAL REMARKS.

- 7. Port of Karachi.—During the period under report, no epidemic of any serious nature occurred on any vessel entering the port or during its stay in the harbour and the port and city of Karachi were free from cholera. Four deaths from plague were reported in March 1936—three in the week ending 14th March 1936 and one in the week ending 21st March 1936. This small outbreak of plague was in all probability due to importation of the infection and remained strictly localised without any plague among rats in the city or port.
- 8. Outgoing vessels.—Eight hundred and one (801) vessels sailing for ports beyond India were granted Bills-of-Health during the year under report. Of these 321 were steam ships and 480 country crafts.
- 9. In-coming vessels.— During the year under report, 76 vessels including 9 pilgrim ships and two country crafts came in quarantine.

10. Synopsis of outward and inward Medical Inspection and Disinfection during the year 1936.

		Vessels.			Crev	v and passen	gers.
,		Steamers.	Country crafts.	Total.	Steamers.	Country crafts	Total.
Out-going		321	480	809	50,882	5,960	56,842
In-coming	•••	74	2	76	15,030	2	15,032
Tota	۱	395	482	877	65,912	5,962	71,874

- 11. Plague and Cholera.—No case of these diseases was detected amongst the crew or passengers at the time of their Medical Inspection nor was any case of these diseases reported from any ship or country craft in the harbour during the year under reference.
- deck passengers on S. S. "Bankura" which arrived here on the 4th January 1936 from Bombay. The patient was sent to the Municipal Epidemic Diseases Hospital and all the necessary measures regarding the disinfection of crew and parts of the ship occupied by the passenger, were carried out.

One passenger, who was in an infective state of small-pox at the time of Medical Inspection at the Port Health Disinfection Station on the 27th April 1936, was prevented from embarking on country craft "Naurang Fateh". The patient was sent to the Epidemic Diseases Hospital for treatment.

13. Chicken-pox.—The following vessels arrived with cases of Chickenpox on board:—

	Name of vessel.		Date of arrival.	From	Cases amongst crew.	Cases amongst passengers
	S S (( I'ala nutus ))		anth Fab 1006	Rombou	•	
1.	S. S. "Jalaputra"	•••	29th Feb. 1936	Dombay	I	•••
2.	S. S. "Vita"	•••	26th March 1936.	Bombay	I	•••
3.	S. S. "Barjora"	••	25th April 1936	Kuwait Busrah	I	••
4.	S. S. "Jehangir"	•••	25th April 1936			1
5.	S. S. "Vasna"	• • •	25th April 1936	Bombay	I	I
6.	S. S. "Falkenfels"	• • •	5th May 1936	Bombay	ī	•••
7.	S. S. "Vita."	•••	11th May 1936	Bombay	1	
				Total	6	2

Two cases of chicken-pox were detected at the Disinfection Station, at the time of Medical Inspection of passengers. They were not permitted to embark on S. S. "Bankura" on 15th March 1936, and were sent to the Epidemic Diseases Hospital along with their contacts.

One case of chiken-pox was detected at the time of medical inspection of passengers on 7th June 1936, and was not permitted to embark on the S. S. "Barala".

## 14. Acute Pneumonia—

P.S. "Rizwani" ... One death from Acute Pneumonia occurred on this ship during the voyage from Jeddah on 16th March 1936.

P.S. "Akbar" ... One death from Acute Pneumonia occurred on this ship during the voyage from Jeddah on 25th March 1936.

P.S. "Islami" ... One death from Acute Pneumonia occurred on this ship during the voyage from Jeddah on 12th April 1936.

S.S. "Varela" ... One case of Acute Pneumonia died on this ship during the voyage from Busrah on 17th May 1936.

P.S. "Alavi" ... One case of Acute Pneumonia died on this ship during the voyage from Jeddah on 3rd June 1936.

## 15. Measles-

H.T. "Somersetshire" This vessel arrived from Southampton with one case and two convalescent cases amongst troops and their families. The cases together with 26 contacts were taken charge of by the Embarkation Military Authorities.

H.T. "Tuscania" ... Two cases of Measles amongst the troops and families occured on board the ship during the voyage from England. The cases were taken charge of by the Embarkation Military Authorities.

## 16. Scarlet Fever-

H.T. "Tuscania" ... Two cases of Scarlet fever occurred amongst the families of the troops during the voyage from England.

The cases were taken charge of by the Embarkation Military Authorities

## 17. Diphtheria-

- H.T. "Dilwara"
- ... One case amongst the troops occurred on this ship during the voyage from Busrah. The case was taken charge of by the Embarkation Military Authorities.
- 18. Mumps, Beri-Beri, Yellow Fever, Sleeping Sickness, Jigger and Cerebro Spinal-fever.—No cases of these diseases occurred or were reported to have occurred on any vessel entering or leaving the port during the year.

19. Deaths due to non-notifiable diseases occurring on vessels at sea or in hurbour, except Pilgrim Ships—

Serial No.	Name of vessel.	Particulars of the deceased person.	Cause of death.	Remarks.
I	S.S. "Vita"	Deck passenger, male child, aged 15 months.	General debi- lity.	Died on 4th January 1936 at 7-30 p.m. during voy- age from Bombay. Body buried at sea.
. 2	S.S. "Varsova"	Deck passenger, adult female, aged 70 years.	Senile debility.	Died on 18th February 1936 at 5-20 a.m. during voyage from Busrah. Body buried at sea.
3	S.S. "Bamora"	Deck passenger, male adult, aged 55 years.	Bright's disease	Died on 29th March 1936. Body buried at sea.
4	S.S. "Varsova".	Lascar, male adult	Heart failure	Died on 30th March 1936. Body buried at sea.
5	S.S. "Varela"	Deck passenger, male infant, aged 6 months.	Pneumonia	Died on 17th May 1936. Body buried at sea.
6	S.S. " Vasna"	Deck passenger, male infant.	Broncho-Pneu- monia.	Died on 13th September 1936. Body buried at sea.
7	S.S. "Vasna'	Deck passenger, male adult, aged 43 years.	Cancer	Died on 8th October 1936. Body buried at sea.

#### A.—OUTWARD PILGRIM TRAFFIC.

21. The Red Sea Pilgrim Truffic.—The outward pilgrim traffic began on 4th November 1935 with the sailing of P. S. "Islami" and ended on 17th February 1936 with the departure of P. S. "Akbar". During the year nine Pilgrim Ships sailed from Karachi, of these seven arrived from Bombay and embarked additional pilgrims at this port while two ships sailed direct from Karachi.

21. The statement given below shows the names of the ships, the dates of their sailing and the number of pilgrims embarked on each of them at this port:—

Serial No.	Name of ship.		Date of sailing	Number of additional pilgrims embarked at Karachi.
1 2 3 4 5 6 7 8	P.S. "Islami" P.S. "Alavi" P.S. "Islami" P.S. "Akbar" P.S. "Alavi" P.S. "Rizwani" P.S. "Khosrou" P.S. "Islami" P.S. "Akbar"	•••	_	358 460  1,402 sailed direct from Karachi. 1,033 Do. 658 701 522 891

year by year and more pilgrims are going from this port than from Bombay. The number of pilgrims who embarked at Karachi and Bombay during the years 1931-32 to 1934-35 were as follows:—

Num	aber of pilgrims mbarked at		1931-32.	1932-33.	1933-34.	1934-35.
Karachi	•••	•••	6,556	6,440	5,483	6,792
Bombay	•••	•••	5,816	3,777	4,169	5,931

### B.—INWARD PILGRIM SHIPS.

23. In all, nine pilgrim ships arrived at Karachi with 9,561 returning pilgrims. Of these, 7,408 disembarked at Karachi and the remaining continued their voyage to Bombay.

24. The details of the in-coming pilgrim ships are shown in the following statement:—

Serial No.	Name of pilgrim ship.		Date of arrival at Karachi.	No. of pilgrims embarked at Jeddah. Intermediate Ports.	No. of pilgrims disembarked. intermediate ports.	No. of deaths during the voyage.	No. of cases of infectious diseases.	No. of patients in the ship's hospital on arrival.	No. of pilgrims disembarked at Karachi.	No. of pilgrims bound for Bombay.
1	P.S. "Rizwani"		22nd March 1936.	1,641		7	•••	1	1,634	
2	P.S. "Khosrou"		25th March 1936 .	1,400	•••	10	•••	4	1,390	•••
3	P.S. "Akbar"		2nd April 1936	1,395		10	•••	8	1,043	342
4	P.S "Alavi"		9th April 1936	1,043		1	•••	12	679	363
5	P.S. '' Islami''		22nd April 1936;	1,612	145	5	•••	6	832	630
6	P.S. "Alavi"	<u></u> .	7th May 1936	1,043		6	•••	2	756	281
7	P.S. "Jehangir"		18th May 1936	1,043	•••	10	•••	8	<i>7</i> 81	252
8	P.S. "Alavi"	•••	8th June 1936	277	14 <sup> </sup>	2	•••	2	135	126
9	P.S "Jehangir"	•••	9th August 1936	299	•••	2	•	2	158	. 159*
			Total	9,753	159	53	•••	45	7,408	2,153

<sup>\*</sup> Includes 20 crew of S. S. "Rahmani" embarked at Karachi.

The total number of deaths during the voyage on in-coming pilgrim ships was 53, all from non-infectious diseases, thus giving a death rate of 0.54 per cent.

- 25. Clayton Apparatus.—No ship was fumigated during the year under report.
- 26. Inspection of crew's stores and provisions as required under section 91 of the Indian Merchant Shipping Act, 1923.— During the year under report, provisions and stores for the use of the Asiatic crew of 31 ships were inspected as required under section 91 of the Indian Merchant Shipping Act, 1923 (XXI of 1923). Ninety-five samples of ghee were sent to the Chemico-Bacteriological Laboratory, out of which 18 were pronounced as not genuine and unfit for human consumption. This medical inspection of provisions has resulted in the supply of genuine ghee to ship's crew

- 27. Medical advice by wireless.—The following ships applied for medical advice by wireless which was promptly complied with:—
  - S.S. "City of Pittsburg" .... on 15th January 1936.
  - S.S. "British Rosonese" ... on 5th April 1936.
  - S.S. "British Inventor" ... on 24th April 1936.
  - S.S. "British Justice" ... on 2nd September 1936.
  - S.S. "British Industry" ... on 17th October 1936 at 9-30 p.m.
  - S.S. "British Industry" ... on 18th October 1936, at 11-40 a.m.
  - S.S. "British Industry" ... on 18th October 1936, at 3-30 pm.
  - S.S. "British Industry" ... on 18th October 1936, at 10-45 p.m.
  - S.S. "British Industry" ... on 19th October 1936, at 11-45 a.m.
  - S.S. "British Industry" ... on 20th October 1936, at 11-45 a.m.
- 28. Anti-rat Campaign.—The anti-rat campaign was carried out throughout the year within the wharf area. This resulted in the trapping of 1,606 live rats and destruction by poisoned baits of 880 rats. The average number of rats trapped per day per 100 traps set was 4.4, and of dead rats (poisoned by baits) found per day was 2.4.

A few rats were sent regularly twice a week to the Government Chemico-Bacteriological Laboratory for Bacteriological examination and none were found to be infected with plague.

29. Sanitary condition of the Harbour and City.—The Sanitary condition of the harbour during the year under report was satisfactory. During the year under report, Karachi was free from cholera. Six cases and four deaths occurred from plague.

30. General Remarks.—Five steamers bound for Marmagoa were granted Necrological Certificates at the request of their Commanders.

Two ships, pilgrims ship, "Khosrou" and pilgrim ship 'Jehangir", were boarded on 3rd February and 18th May 1936, respectively, at the request of the Commanders and the certificates were granted to the Water Police for the removal of the dead bodies, stating that the death did not appear to be due to any infectious disease.

31. Staff.—Dr. B. F. Khambatta, M.B., B.S., D.P.H., was in charge of the Port Health Department, throughout the year under report. The whole staff, medical, clerical, launch, disinfection and peons performed their duties with relentless zeal and maintained as usual a very high standard of efficiency.

#### CHAPTER XV.

#### GENERAL REMARKS.

- 1. Nutrition.—No officer of the Public Health Department could be deputed to Coonoor to attend a course of instruction arranged by the Government of India in connection with training in nutrition survey work owing to the paucity of staff and lack of funds. It is hoped that this will be possible as funds become available.
- 2. Stegomyia mosquito control in the major sea ports of India.—In view of the danger of the introduction of Yellow Fever into India, step were taken, as directed by the Government of India, to urge the various local sanitary authorities of the town and port of Karachi to take special measures to control and prevent the breeding of stegomyia mosquitoes. In this connection the Port Trust have appointed a special staff for their area, and the appointment of a special staff by the Karachi Municipal Corporation is under consideration. All local sanitary authorities are co-operating and a monthly stegomyia index statement for the different areas in the town and cantonment is being submitted regularly to the Public Health Commissioner with the Government of India.
  - 3. Public Health Act.-Nil.
  - 4. Pablic Health Essays.—No remarks.

5. Personal proceedings and Office.—The following table shows the various officers who held appointments in the Public Health Department during the year under review:—

Appointment.	Name.	Period.	Remarks.
Director of Public Health for the Government of Bombay.	LieutCol. A. Y. Dabholkar, M.C., D.P.H., I.M.S.	1st January 1936 to 31st March 1936.	Before the separation of Sind.
Director of Health and Prison Services, Sind.	LieutCol. N. Briggs, M.R.C.S., L.R.C.P. (Lond.), D.P.H., I.M.S.		
Assistant Director of Public Health, Sind.	Capt. E. Benjamin, M.B.,B.S., (Bom.), D.P.H., D.T.M., & H. (Lond.).		
Officer In-charge, Chemico- Bacteriological Labora- tory, Karchi.		1st January 1936 to 26th March 1936.	
Do. do	Capt. E. Benjamin, D.P.H	27th March 1936 to 11th November 1936.	Officiating in a d di-
Do. do	Mr. H. C. Hiranandani	to 31st December 1936 to 31st December 1936.	t heir own du- ties.

The Director of Health and Prison Services, Sind, inspected the sanitation of 5 towns (Hyderabad, Sukkur, Dadu, Mirpurkhas and Tatta), one notified area committee (Nawabshah) and one sanitary committee village (Tharushah). He visited several small villages in connection with malaria control. defects were pointed out to the Local Authorities concerned and advise given. Accompanied by the local Health Officers he inspected the source of water-supply at Dumlotte, the Chlorinating Station, and the reservoirs at Karachi; the source of water-supply at Gidu, the settling tanks, and the reservoirs at Hyderabad; and the water works at Sukkur. He inspected the Epidemic Diseases Hospital, the Municipal Tuberculosis Dispensary, the Karachi Health Association Maternity Home and the site for the new market at Karachi. He held a conference at Tatta with the Municipal officials and the Mukhtiarkar regarding the necessity of introduction of Compulsory Vaccination in Tatta town. He discussed the problem of malaria with the Chief Agricultural Officer in Sind and the Divisional Medical Officer of the North-Western Railway. He was the Chairman of the Conference held in connection with stegomyia mosquito control in Karachi. He attended the Lal Shahbaz fair at Sehwan. He inspected one factory at Pithoro in connection with the prevalence of malaria. He attended meetings of the Red Cross Society and the Board of Public Health Works.

The Board of Public Health Works.—The Board of Public Health Works for Sind was constituted under Government of Sind, Government Resolution, General Department, No. 181-G. B. of 30th April 1936.

The personnel of the Board was as follows:-

#### Members.

- (1) The Revenue Commissioner for Sind. (President).
- (2) The Chief Engineer in Sind and Secretary to Government, Public Works Department.
- (3) The Director of Health and Prison Services, Sind.
- (4) The Consulting Public Health Engineer to Government.
- (5) Two non-official members nominated by Government.

The Consulting Public Health Engineer was also the Secretary of the Board.

A meeting of the Board of Public Health Works was held on 12th August 1936. The question of duplication of the conduit between Sydenham and Temple and Currie Reservoirs, and extension of the water main along Kumbharwara Road upto the site of Miran Naka in Lyari Quarters (Karachi City) was discussed.

The Board accorded its administrative approval to the undertaking of the scheme of improvements to the Sukkur water-supply.

During the year under report, the Assistant Director of Public Health inspected the sanitary condition of 10 municipal towns and i village. The vaccination work in these towns was also inspected. He visited one village for other sanitary purposes. During his tour in 1936, he inspected 5 schools, 1 police line, 5 dispensaries, and 8 factories. Twelve site plans of schools were approved of and opinion given on 32 samples of water sent by various agencies and examined at the Chemico-Bacteriological Laboratory. During the cholera outbreak at Tando Allahyar the Assistant Director of Public Health visited the town and took immediate preventive meas-He visited the Lyari Quarter of Karachi to inspect the huts of imigrants where smallpox had broken out. During the outbreak of plague he visited the infected area in Karachi, visited the Epidemic Diseases Hospital to see the patients and the Laboratory in connection with examination of plague material from patients and rats He conducted a class for touring medical officers and identified 573 mosquitoes sent by these officers. He attended the Agricultural cum-Industrial Show at Hyderabad. He attended the meetings of the Red Cross Society, Karachi Board of Health, and the Karachi Sanitary Board. He gave lectures and demonstrations in Hygiene

to the senior medical students of the Hyderabad Medical School. During the year he officiated as Officer-in-charge, Chemico-Bacteriological Laboratory, Karachi, in addition to his own duties from 27th March 1936 to 11th November 1936. He inspected 706 children for vaccination purposes during his tour.

The Inspectors of Sanitation and Vaccination gave lectures on tuberculosis in schools. They were deputed to look after the sanitation of important fairs. They inspected the vaccinal condition of school children. During their tours they visited 1,969 villages for inspection of vaccination work and examined 20,532 children for primary vaccination and 3,476 for re-vaccination. They also visited villages for sanitary inspection.

Staff.—The office staff of the Assistant Director of Public Health with the addition of 2 Clerks worked after 1st April 1936 as the staff of the joint office of the Director of Health and Prison Services (Public Health Branch) and the Assistant Director of Public Health. During the year inspite of the increase in the work, the office staff worked satisfactorily and efficiently. The staff of the Chemico-Bacteriological Laboratory did their best to cope with the increasing amount of work and worked satisfactorily.

N. BRIGGS, Lieut.-Col., I.M.S.,
Director of Health and Prison Services, Sind, Karachi.
Karachi, 16th August 1937.

APPENDIX

Table showing Health Services in Rural and Urban

							Rurs	l areas.			
			М	edical offic	ers of Heal	th.			Vaceinators.		
Dist	riets.		Holding	D. P. H.	Licer L. P.	Licentiates L. P. H. S.		Sanitary and Health Ins-			
			Whole time.	Part time.	Whole time.	Part time.		pectors.	Male.	Female.	
	1		2	. 3	4	5	6	7	8	9	
Karachi	•••		•••	•••		***	•••		9		
Dadu	•••		***	•••		•••		•••	8		
Hyderabad	•••	•••	•••	•••		•••	•••		11	•••	
Nawabshah	•••	•••	•••	•••	•••	•••			10		
Thar Parkar	•••		•••			•••		•••	13		
Larkana	•••	•••	•••	•••	Holding M.B., B.S.,	•••		1	9	1	
Sukkur	•••		•••	•••	dogree.	•••	•••		9		
Upper Sind F	rontier		***	•••					6	•••	
	Total		•••		1			1	75	1	

1.

areas in the Province of Sind during 1936.

		_				Urban area	ls.				
	Other Health staff.	Me	dical Offic	ers of Heal	th.		Vaccinators.				
School medical Officers		Holding D. P. H.		Licentiates L. P. H. S.		Sanitary and Health Ins-	Afric	Female.	Ins- pectors of vacci-	School Medical Officers.	Other Health staff.
		Whole time.	Part time.	Whole time.	Part time.	pectors.	Male.	r emale.	nation.		
10	11	12	13	14	1,5	16	17	18	. 19	20	21
•••	•••	4	•••	•••	•••	8	4	2		•••	•••
•• •		•••	•••	•••		•••	•••			•••	•••
•••	•••	1		•••	***	4	1	•••	(Superintendent of Vaccination).	•••	•••
•••	•••	•••	•••	<b></b> .	•••	1	 	••	•••	•••	•••
•••		•••	•••	•••		•••	•••	•••	•••		•••
•••		•••		•••	•••	1	1		•••	•••	•••
•••		2	•••		•••	7	3		•••		•••
•••	•••	***	***	•••	•••	1	1		•••	•••	•••
•••	•••	7	•••	•••	***	22	10	2	1	•••	•••

#### APPENDIX I-A.

# Table showing maternity and child welfare centres, health visitors, and trained midwives in rural and urban areas in the Province of Sind during 1936.

	I.	Asterni Centre	ity and	Child tained	Welfar	· ·			-			
Districts.		ern- nt.	Muni	l and cipal lies.		her icies.	Trained	visitors.	Tra midw	ined vivos.	Traine	d dais.
	Bural,	Urban.	Bural.	Urban.	Rural.	Urban.	Rural.	Urban.	Bural.	Urban.	Rural.	Urban.
Karachi	•••	***	2	•••	2	•••	•••	4	6	4	2	6
Dadu	•••	•••	4	1	1	6.5			1	2	3	•••
Hyderabad	•••	•••	•••	1		•••		1		•••	•••	4
Nawabshah	•••			•••	•••	ı <b></b>	<b></b>	•••	•••	1	4	•••
Thar Parkar	•••		•••	•••	•••	•••		•••	•••			4
Larkana	•••	<b></b>	10	1	 1	2			3	•••	17	•••
Sükkur	•••	<b></b> .	. 2	2	2	3	•••	3	4	14	1	27
Upper Sind Frontier	•••		1	•••		2	•••		1	2		•••
Total	•••		19	5	5	7		8	15	23	27	41.

APPENDIX II.

Statement showing the annual Income and Expenditure of Institutions Under the Public Health Department, Sind, during the year 1936-37.

## **APPENDIX**

FORM No. I.—Annual Statement showing the Births registered

1	2			3		4				
No.	Distric	ıt.	Populatio	n according to	o Census	Number of Births registered.				
			Male.	Female.	Total.	Male.	Female.	Total.		
1	Karachi		<b>3,28,</b> 679	2,50,753	5,79,432	9,409	8,418	17,827		
2	Hyderabad .		3,71,097	2,90,679	6,61,776	5,878	4,598	10,476		
3	Nawabshah .		2,79,032	2,17,580	4,96,612	4,413	3,216	7,629		
4	Thar Parkar .		2,61,945	2,06,095	4,68,040	4,515	3,595	8,110		
5	Larkana .		2,50,178	2,01,963	4,52,141	5,948	4,736	10,679		
6	Dadu .	}	1,87,071	1,47,211	3,34,282	3,781	2,716	6,497		
7	Sukkur .		3,49,312	2,74,467	6,23,779	7,986	6,478	14,464		
8	Upper Sind Fron	tier	1,45,588	1,14,738	2,60,326	2,250	1,604	8,854		
9	Town Cricles .		3,76,948	2,73,809	6,50,757	13,860	12,814	26,674		
10	Rural Cricles .	·• ··· ···	17,95,954	14,29,677	32,25,631	30,315	22,547	52,862		
11	Grand total of the	Province.	21,72,902	17,03,486	38,76,388	44,175	35,361	79,536		

## Annual Form No. 1. (a) showing still-births registered according

			1			Still-b	irths.		
Serial No.	Distr	ricts		Muham	madans	Hin	dus.	Jains.	
			<u> </u>	Male.	Female.	Male.	Female.	Male.	Female.
1	   Karachi	•••		92	73	106	68	•••	
2	Hyderabad	•••		25	18	91	64	•••	
3	Nawabshah	•••		1	5	8	2	•••	j
4	Thar Parkar	•••		7	7	4	8	•••	<b></b>
5	Larkana	•••		22	22	31	24	•••	ĺ
6	Dadu	•••		6	6	8	9	•••	
7	Sukkur	•••		29	22	114	80	***	•••
8	Upper Sind F	contier	 1	1	3	•••	2	•••	•••
	Total for the	Province		183	156	362	252	•••	

III.

in the Districts of the Province of Sind during 1936.

	5			6	
Ratio of	Births per 1,000 of Po	pulation.	Mean Ratio o	f Births per 1,000 rious five years.	Total.  27:8 2 14:8 3 19:4
Male.	Female.	Total.	Male.	Female.	Total.
16-24	14.53	30'77	14.63	13·19	27:82
8-88	6-95	15.83	8.42	6.42	14'84
8.89	6.47	15:36	11-11	8.33	19-44
9.64	7.68	17·32	11.24	9:35	20.88
13.14	10.47	23·61	11.74	9.07	20.81
11:31	8.13	19.43	10'42	7-81	18.23
22.83	18-52	41.35	13.09	10.55	23*64
8.64	6.16	14.80	9-41	7.02	16.48
21 .30	19:69	40.99	19.07	17:09	36.16
9.39	6.99	16.38	9-91	7.50	17:41
11.40	9.12	20.22	11.45	9·11	20.26

to the classes and sex in the Districts of Sind during the year 1936.

				•	Still-births				
Percen- tage Rati to Live		Total.		Classes.	Other	rsis.	Pa	tians.	Chris
births.	Total.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.
1.98	854	145	209	2	3	•••	2	2	6
1.89	199	82	117	•••	•••	•••	•••	•••	1
•21	16	7	9			•••	•••		•••
-25	21	10	11			•••	***		•••
-89	99	46	53	•••		• ••	•••	•••	•••
•44	29	15	14			•••	•••	•••	•••
1.69	245	102	143	•••		•••	•••	•••	•••
1.22	6	5	1			•••	•••		•••
1:20	969	412	557	2	3	•••	2	2	7

ANNUAL FORM

Annual statement showing the Deaths registered in the districts

1			2					3	4		5	
								miles.	stion per	Num	ber of de egistered	aths
Serial number.			Distri	cts,				Ares in square miles.	Average ropulation square mile.	Male.	Female.	Total
1	Karachi	•••	•••	•••	•••	R. C.		1,615	23	228	194	420
2	Tatta	•••	•••	•••	•••	,,	•••	1,318	<b>4</b> 6	189	137	<b>3</b> 26
8	Mirpur Sakro	•••	•••	•••	•••	.1	•••	1,138	30	180	121	301
4	Ghorabari	•••	•••	•••	•••	"	•••	339	69	94	101	195
5	Keti Bunder	•••	•••	•••	•••	-	•••	213	63	<b>6</b> 8	59	127
6	Mirpur Bathor		•••			**		272	158	269	209	478
7	Sujawal			•••	•••	••	•••	269	14	269	170	439
8	l	•••	•••	•••	•••	.**	•••		23	218	166	384
9	Shah Bunder	•••	•••	•••	***	<b>31</b>	•••	1,475	29	276	205	481
•		•••	•••	4	•••	,, T. C.	•••	1,388	29			
10	Karachi	•••	•••	•••	•••	T. C.	•	·} 62	4,098	<b>3,817</b>	3,270	7,087
11	Karachi	•••	* •••	•••	•••	O. O.	•••	ا		L 76	49	125
12	Tatta	•••	•••	***	•••	T. C.	•••			73	53	126
				Karachi	Distric	t Total	•••	8,089	72	5,755	4,734	10,489
13	Hyderabad	•••	•••	•••	•••	Ė. C.	•••	366	212	456	337	793
14	Guni	•••		•••	•••	•,	•••	987	106	465	337	. 802
15	Tando Bago	•••	•••	•••	•••	31	•••	650	105	282	164	446
16	Badin	•••	•••	•••	•••	,1	•••	792	118	436	297	738
17	Tando Allahya	r	•••	•••	•••	,,	•••	595	103	493	362	855
18	Hala	•••	•••	•••	•••	,,	•••	511	222	639	449	1,088
19	Dero Mohbat	•••	•••	•••	<b>~*•</b>	••	•••	498	94	356	236	592
20	Hyderabad	•••	•••	•••	•••	T. C.	•••			(1,545	1,274	2,819
21	Hyderabad	•••	***	•••	•••	C. C.	•••	} 18	5,334	20	11	31
22	Hala	•••	•••	•••	•••	T. C.	•••	<b></b>	•••	39	21	60
23	Matiari	•••	•••	•••	•••					76	57	133
		•••	•••	Hyderabad		et Total	•••	3,888	128	4,807	3,545	8,352
							•••	- 0,000				
24	Shahdadpur	•••	•••	•••	•••	R. C.	•••	561	184	644	459	1,103
25	Kandiaro	•••	•••	•••	•••	13	•••	404	200	543	432	975
26	Naushahro Fe	ro <b>zo</b>	•••	•••	•••	**	•••	492	175	488	399	887
27	Moro	• •	• •••	•••	•••	••	•••	483	124	319	237	556
28	Sakrand	•••	>>•	•••	•••	,,	***	506	124	257	139	396
29	Nawabsha <b>h</b>	•••	***	•••	•••	91	•••	967	58	263	173	436
30	Sinjhoro	-06	444	•••	•••	7.5	•••	475	161	370	243	613
31	Tando Adam	•	•••	•••	•••	T. C.	•••	•••	•••	97	74	171
32	Nawabshah	•••	Jee	•	•••	**			•••	18	13	26
				Nawabshah	Distric	t Total	•••	3,888	128	2,994	2,169	5,163
	;							<u> </u>			,=	, =

No. II.

of the Province of Sind during the year 1936.

						6						7	
				Deaths 1	per <b>1,000</b>	of popula	ation fro	m			Me <b>a</b> n	ratio of c	leaths
				and	y di-		other	A	ll causes	J.	per previ	1,000 du lous five	ring years.
Cholera.	Small-pox.	Plague.	Fevers.	Dysentery Diarrhea.	Respiratory seases.	Înjuries.	All causes.	Male.	Female.	Total.	Male.	Female.	Total.
			6.85		2:61	·18	1.69	11:29	11:27	11.28	9:44	9.24	9:38
***	 '16		3'24	•10	2.16	·12	•62	6.26	6'20	6:40	6.81	6.01	6.18
•••			3.09	·12 ;	3.44	•24	1.87	9.59	7.76	8:76	10.60	9.88	10.2
•••			3.72	•,•	3.32	.08	•86	6.91	9:33	7'98	10.44	10-44	10.4
•••			3.25	·59	2'95	.37	2·21	9-39	9.33	9.37	11:40	9.80	10.68
***	•35		<b>5·9</b> 8	.05	3'59	•19	1.00	11.21	11·10	11.16	11:00	10.83	10.92
•••			4.03	•47	5.69	·16	1.25	12.73	10·10	11.60	10.22	10.16	10.13
•••		•••	6.03	·17	4.03	· <b>3</b> 8	-46	11.34	10.75	11.07	12.43	12.76	12.58
•••	.07	•••	6.39	·15	4.26	·13	1.15	12.51	11.50	12.05	12.05	11.10	11.88
•••	•22	•02	1.80	2.76	13.02	•42	10:36	<b>2</b> 6:31	31.82	28.60	21.73	26.20	23.58
•••		•••	5.88	1-12	2.59	•••	10.44	20.50	19.34	20.03	15:37	17:37	16.02
•••	•21	•••	3.62	·62	5.80	'10	3.22	14.28	11.73	<b>18</b> ·10	18-10	11.72	12:48
	'14	·01	3.53	1.59	7:63	•28	5.22	17.51	18.77	18·10	15:38	16.70	15.92
		<del></del>			2.25								
•••	•01	***	5.65	·10	3 <b>·2</b> 7 ·	.15	.99	10.48	9.78	10.17	10.98	. 10.91	10.98
•••	.05	•••	4.44	.17	2.24	.12	•65	7.91	7-36	7'67	9.05	8.65	8.8
•••	•10	•••	4.31	· <b>0</b> 5	1.24	-13	.72	7:59	5.24	6.55	8.40	8.23	8.32
•••	·11	•••	5.33	•05	1.86	•13	73	8.69	7'59	8.21	8.69	8.10	8.43
<b>'13</b>	•••	•••	9:36	.23	2.65	•19	1.38	14.50	13.25	13.94	13.78	12.84	13.3
•••	•••	•••	7.18	•23	2.64	•08	.80	11.29	10.45	10.93	10.82	10-66	10.46
•••	'02	•••	8.04	·17	8.75	•84	•64	13.86	12.26	12'96	12.22	11.80	11.81
•••	•05	•••	3.12	1.51	12.44	.68	11.55	28.96	29.84	29.35	23.97	25'04	24.4
•••	•••	•••	4.63	•••	•66	•••	1.55	7.58	6'07	6.84	0.20	70.50	
•••	•••	•••	4.93		2·19	•••	1.09	9.87	6.32	8.21	9.62	10.13	9.72
•••			7:01	•••	8.22	.59	4.04	19:34	20.63	19.86	12:97	15.93	14.19
.01	•04		5'64	*34	3.91	·23	2:44	12.95	12:19	12.61	12.19	12'13	12.16
•••	.02	•••	9.33	-02	1.92	•28	· <b>7</b> 2	12:65	11.82	12-29	11.20	11.02	11-12
•••	.29		9'76	•06	•68	•16	1.11	12-27	11 <sup>.</sup> 81	12.06	11.57	12'00	11.74
•••			8·14	•05	<b>'98</b>	· <b>2</b> 5	.89	10.29	10'32	10.81	10·17	10'01	10.08
•••			7:64	•05	-81	·18	•65	9.70	8.80	9.33	9.57	<b>9</b> :30	9-45
•••			5'27	•06	•59	·17	'25	7·16	5'23	6'34	8·19	8.01	8.23
•••	-06		7.79	.04	·6 <b>1</b>	· <b>2</b> 1	·14	9:26	8:44	8.82	10'32	9·35	9-91
•••	.02		10.52	·02	1:37	•25	·5 <b>4</b>	13.53	11'65	12.72	15.20	1 <b>4</b> ·60	15.12
•••		•••	4'83	·22	4.89	•22	8.04	12.76	12:60	<b>12·7</b> 0	17:40	19.89	18:48
•••	·14		1.22	•••	1.14	•••	•85	2.99	4.83	<b>3·7</b> 0	6'00	6.10	6.15
•••	•06	•••	8.20	.05	1.11	•25	•73	10.76	9.97	10.40	10.93	10.78	10.86

1			2					3	4		5	
								e miles.	lation per		ber of de egistered	
Serial number.		Marin and American State	Distri	cts.				Ares in square miles.	Average population square mile.	Male.	Female.	Total.
33	Umarkote	•••	•••	•••	•••	R. C.	•••	1,459	30	298	211	<b>5</b> 0
34	Jamesabad	•••	•••	•••	•••	••	•••	505	61	<b>2</b> 27	193	42
35	Chachro	•••	•••	•••	•••	**	•••	2,797	22	316	250	58
36	Nagar Parkar	•••	•••	•••	•••	**	•••	1,618	26	<b>298</b> 1	261	55
37	Diplo	•••	•••	•••	•••	••	•••	1,503	16	<b>19</b> 9	130	32
<b>3</b> 8	Mithi	•••	•••	•••	•••	**	•••	1,562	29	268	231	49
39	Khipro	•••	•••	•••	•••	19	•••	2,251	23	253	129	38
<b>4</b> 0	Sanghar	•••	•••	•••	•••	••	•••	818	41	221	139	36
41	Mirpurkhas	•••	•••	•••	•••	91		415	115	241	152	39
42	Samaro	•••	•••	•••	•••	**		<b>4</b> 83	91	291	178	40
43	Digri	•••	•••	•••	•••	,,	•••	225	191	378	248	62
44	Umarkote	•••	•••	•••	•••	T. C.	•••	•••	•••	57	58	11
45	Mirpurkhas	•••	•••	•••	•••	13	•••	•••		99	62	16
			T	har Parkaı	Distric	t Total	•••	13,936	34	8,146	2,232	5,87
46	Larkana	•••	•••	•••	•••	<b>B.</b> C.	•••	217	329	407	323	73
47	Warah	•••	•••	•••	•••	**		380	148	395	283	67
48	Dokri	•••	•••	•••	•••	••	•••	326	235	544	416	96
49	Kambar	•••	•••	•••	•••	,,	•••	473	173	465	394	85
50	Mirokhan	•••	•••	***	•••	••	•••	288	164	253	299	55
<b>51</b>	Ratodero	•••	•••	•••	•••	,,	•••	214	241	355	282	63
52	Shahdadkot	•••	•••	•••	•••	.,	•••	577	<b>5</b> 8	170	130	30
<b>53</b>	Larkana	•••	•••	•••	•••	T. C.	•••	2	13 <b>,42</b> 0	250	226	47
54	Kambar	•••	4++	•••	•••	**	•••	•••	•••	47	32	7
55	Ratodero	•••	•••	•••	•••	,1	•••	•••	•••	70	56	12
				Larkana	Distric	t Total	•••	2,477	150	2,956	2,441	5,39
											<del></del>	<del></del>
56	Kotri	•••	•••	•••	•••	R. C.	•••	1, <del>49</del> 6	<b>2</b> 2	239	210	44
57	Kohistan	•••	•••	•••	•••	,,		1,806	9	77	60	13
58	Sehwan	•••	•••	•••	•••	**	•••	1,273	35	372	283	65
59	Johi	•••	•••	•••	•••	,,	•••	755	<i>6</i> 8	324	248	~57
60	Dadu	•••	•••	•••	•••	**	•••	297	194	272	218	49
61	Kakar	•••	•••	•••	•••	••	•••	448	108	299	201	- 50
62	Mehar	•••	***	•••	•••	,,	•••	364	•••	<b>36</b> 8	274	64
63	Kotri	•••	•••	•••	•••	T.C.	•••		•••	42	43	8
64	Sehwan	•••	•••	•••	•••	,,	•••		•••	2 <b>i</b>	20	4
65	Dadu	•••	•••	•••	•••	,,	•••	•••	•••	41	<b>3</b> 8	7
	t				,	-		1	'			

						6				······································		7	
				Deaths 1	per <b>1,</b> 000 (	of popula	ation from	n			Mean	ratio of	<del>deaths</del>
				and	÷		other		All cause	5	per	1,000 du ious five	ring
Cholera.	Fmall-pox.	Plague.	Fevers.	Dysentery Diarrhœa.	Respiratory seases.	Injuries.	All causes.	Male.	Female.	Total.	Xale.	Female.	Total.
•••			8.83	•15	2:45	•20	1.51	13:37	1 <b>2</b> ·16	12'84	13:70	12-68	13.22
••.	-09	•••	9.01	•16	2.60	<b>'33</b>	1.47	13'21	14.23	13-66	15.88	15'49	15'70
		•••	7·21	•05	1.00	<b>·0</b> 8	.79	9.51	8'69	9'13	13'88	11.58	12.81
•••	•28	•••	8-60	·12	<b>3</b> '21	<b>'19</b>	'99	13·13	13.48	13.39	12'19	10.91	11.62
•••	-39	•••	7:60	.05	3'64	<b>'20</b>	1.15	14.48	12·17	13.03	17'83	17:04	17.46
•••	-02	•••	8.88	-04	.72	•20	1.05	10-99	10.82	10.81	15.31	14.78	15:22
•••	.16	•••	4:39	•08	2.09	•10	•66	8.61	6.02	7.48	11.58	11.15	11.40
•••		•••	5·18	-06	8.82	•24	1.36	11.04	10.10	10'66	10.74	10.96	10.83
•••	·16		5'54	-03	3.24	<b>'16</b>	1.39	11.33	9.44	10.52	14-94	14.72	14.58
•••	-02	•••	6.40	•••	2.60	•11	1.46	11.53	9.33	10.59	10'66	10.19	10:46
•••		•••	8-90	-05	3.95	·24	1.40	15.63	13.14	14.54	17.98	17:11	17.60
•••	•••	•••	12.50	'26	12.76	•••	8.12	27'84	29.54	28.64	22:47	23.35	23.16
•••			5:30	<b>'51</b>	6.87	•20	2.94	15-42	16.50	15.82	11.52	12.51	11.90
•••	-09		7'05	•07	2.69	•17	1.19	12.09	10.80	11:26	13'90	13.18	13.57
													1007
•••			9.01	<b>'</b> 03	<b>'32</b>	'25	·63	10.32	10.14	10.24	14.05	14.22	14.13
•••	•21		10-16	∙04	•31	•45	·91	12.87	11.14	12:08	10.61	10.75	10.67
•••	•24		11.12	•01	•46	·18	•53	12.85	11.74	12.54	12.52	11.97	12.27
	-01		11.35		.05	•22	•29	11.72	12'18	11.92	10.40	11.35	10.83
•••			10'91		'21	•15	.42	9.62	14.21	11.69	12:72	13'45	13.05
			11.57		·13	.21	.39	12:61	11.94	12:30	14.92	14.86	14.87
•••			7'94	'06	.36	.17	'45	9.18	8'94	8'98	12:00	10'96	11.54
			4.72	-63	5'21	-37	6.80	15.98	20'17	17.73	18.80	20.17	20.01
•••	":	····	6.38	·10	-82	'20	-62	8'55	7.59	8.12	14.00	18.98	16.15
•••	•••	· •••	16.33		.14	-69	.14	17.50	17·01	17:30	18.28	22.77	20'31
•••	-07		10.09	•06	-57	•25	-89	11.81	12.09	11.98	12.55	13.35	13'18
											12 00	1000	15 10
	-41		10-21		.89	-30	1.45	13.05	13.20	13'26	14.03	18-11	13.64
•••	-40	•••	3'63	··· '12	1.37	23	2.13	8.25	7.46	7.88	7.07	6.71	6.80
•••	•23	•••	11.50	•18	2.26	· <b>4</b> 1	2.09	16.96	16'36	16.67	13.90	14.40	14'17
•••	.02	•••	9:30	.08	75	·23	74	11.41	10'73	11.12	10.80	10.25	10.63
•••	Ì	•••	8.40	.04	.45	·27	45	9.20	10'17	9.61	10.92	10 25	11.15
•••	•••	•••	9.12	13	20	·21	.66	11.20	9.24	10.32	11'53	11.12	11.32
•••	···	•••	7.59	•05	·31	·28	·74	9.26	8.91	9.11	10.01	11'68	
***	•20	•••	4.29	-29	1'90		1.79	6.77	11.22	9·11 8·47	9.99	11.68	10.78
•••		***	i		2.41	•••	1.21	5:97	8:32				10-56
•••	•••	•••	3·45 8·08	··· ·61	-77	 -15	2.43	11.98	12.12	7·07 12·04	7·10 2·04	9:66	8.11
							<del></del> -	10.98				1.59	1.82
•••	·13	•••	8· <i>5</i> 4	.09	.83	<b>'26</b>	1.07	TO.92	10.84	10.92	11-16	11:47	11.29

1			2					3	4		5	
								miles.	ation per	Num	ber of de egistered	eaths l.
Serial number.			Distric	ts.				Area in square miles.	Average population   square mile.	Male.	Female.	Total.
66	Sukkur	•••	•••	•••	•••	R. C.		247	248	521	430	951
67	Shikarpur	•••	•••	•••	•••	,,		498	147	421	337	758
68	Rohri	•••	•••	•••	•••	,,		1,629	48	194	149	343
69	Garhi Yasin	•••	•••	•••	•••	,,	•••	402	171	479	414	893
70	Ghotki	•••	•••	•••	•••			341	137	356	281	637
71	Pano Akil	•••	•••	•••	•••	**	•••	393	120	255	228	483
72	Mirpur Mathel	0	•••	•••	•••	"	•••	1,604	30	305	202	507
73	Ubauro	•••	•••		•••	**	•••	462	100	<b>354</b>	281	635
74	Sukkur	•••	•••	•••	•••	T. C.	•••	3	<b>23,</b> 0 <b>92</b>	591	395	986
75	Shikarpur	•••	•••	•••	•••	91		9	6,745	898	764	1,662
76	Rohri	•••	•••	•••	•••	••	•••		•••	102	60	162
77	Garbi Yasin	•••	•••	•••	•••	,,	•••	•••		68	61	129.
				Sukkur	Distric	t Total		5,608	111	4,544	3,602	8,146
78	Jacobabad	•••	•••	•••	•••	R, C.		254	157	174	147	3 <b>21</b>
79	Garhi Khairo	•••	•••	•••	•••	,,	•••	273	135	141	152	293
80	Kandhkot	•••	•••	•••	•••	••	•••	542	119	208	141	349
81	Thul	•••	•••	•••	•••	91	•••	497	63	247	209	<b>4</b> 5 <b>6</b>
82	Kashmor	•••	•••	•••	•••	**	•••	543	76	153	124	277
83	Jacobabad	•••	•••	•••	•••	т. с.	•••		•••	79	75	154
			Upper Sin	d Frontie	r Distric	et Total	•••	2,109	123	1,002	818	1,85C
				Total of a	ll Town	circles		94	265	8,121	6,707	14,828
				Total of a	il Bura	l circles		<b>46,</b> ₹69	69	19,138	14,459	33,597
	!			Total	of the P	rovince	•••	46,663	83	27,259	21,166	48,425

No. II—concld.

					6							7	
			1	Deaths pe	er 1,00 <b>0</b> of	f populat	ion from				Mean	ratio of	deaths
<del>-</del> -				and .	y di-		other		All cause	s.	per	1,000 du lous five	ring years.
Cholera.	Small-pox.	Plague.	Fevers.	Dysentery Diarrhoa.	Respiratory seases:	Injuries.	All causes.	Male.	female.	Total.	Male.	Female.	Total.
•••	'20		11.84	•10	.62	-20	1:37	14-21	14-48	14.33	17.92	19.73	18.73
•••	'04		9:51	•01	23	.14	-39	10.42	10.51	10.32	12:88	13.39	13.11
•••			8:77	.02	·28	.04	•30	4.41	4.40	4.41	7:68	7:91	7'76
•••	.03		12.85	.02	47	·26	.94	14.29	14.90	14.57	17:33	18.60	17:91
•••			10.78	.25	1.28	·18	-87	13:79	13:36	13 <i>·5</i> 9	19.45	19.67	17.53
•••	.02		8.62	.08	·62	.21	.68	9:76	10.76	20:21	13.13	13.07	13.09
•••			9.29		.51	.19	45	11.41	9:26	10.44	15.81	15.37	15.61
•••			12.05	.17	.54	.19	·81	14.00	13.47	13.76	15.78	16.15	15.94
•••			2.86	1.93	4.68	.45	4.21	13.65	15.50	14.23	12.68	14.77	13.45
•••	.03		7:35	.43	2.77	•30	15.70	26.61	26.26	26.28	24.06	25.38	24.67
•••			5.33	.41	2.42	.08	1.36	10.04	8.80	9.58	12.30	14.98	13.31
•••			11.80	14	2:03	·27	3:26	18.08	16.90	17.50	22.08	25.78	23.88
	.03		8:54	-33	1.80	-21	2.65	13.01	13.12	13.06	15.26	16.33	15.73
													*********
•••	.15	•••	7.73	•••	*05 i	•05	-07	7:81	8.32	8.05	10.51	11.63	11.01
•••	•••		7:81	•••	•••	'26	•18	6.83	9.01	7.75	7.27	6.82	7.07
•••	.03		4.92	.02	.17	<b>·2</b> 0	.08	5.74	4.98	5.41	<b>.</b> 9.38	9.25	<b>9.38</b>
•••	*05	•••	6.83	.08	.07	.15	•25	7·26	7.66	7.43	9.93	10.20	10.21
•••	•••	•••	5.90	.09	19	·19	· <b>3</b> 1	6.66	6.66	6'68	11.88	11.38	11.64
	1'40		7.12		-30	•••	·95	8.35	11.92	9.77	9.09	11.13	9.91
	·12		6.44	•04	12	·15	•23	6.90	7.39	7:10	9.80	10.00	9.88
	•14	.001	3.77	1.61	8.46	<b>.3</b> 9	8.41	21.54	24.49	22.78	18.88	21.94	20-16
-002	•07	•••	7.81	•08	1.46	·19	.79	10.66	10.12	10.40	11.82	11.74	11.78
10002	•07	.0001	7.14	.34	2.64	•23	2.07	12.54	12.42	12.49	13.04	13.38	13-19

ANNUAL FORM

Deaths registered in the districts (rural circles) and in the towns

	-	*******			January.	February.	March.	April.	May.
A Dist	TRICTS (R	XCLUDIN	G TOWN	s).					
Karachi	•••	•••	***	•••	452	447	414	232	260
Hyderabad	•••	•••	•••		684	782	716	474	376
Nawabshah	•••	•••	•••	•••	684	624	619	459	416
Thar and Park	ar	•••	•••	•••	`558	690	678	563	437
Larkana	•••	•••	•••	•••	568	517	534	424	<b>30</b> 8
Dadu	<b></b>	•••	•••	•••	458	320	407	309	290
Sukkur	•••	•••	•••	•••	682	547	521	<b>386</b>	296
Upper Sind Fr	ontier	•••	•••	•••	182	144	173	132	118
		Total	for Dist	ricts	4,268	4,071	4,062	2,979	2,501
	Ratio	per mile c	of popula	ation	1.32	1.58	1:26	•92	•78
		Towns							
Karachi		i District		T. C			400		
Karachi	•••	•••		C. C	608	714	728	682	·658
Tatta	•••	•••		T. C	10 22	8 21	14	14	7
	Huderah	ad <b>Distri</b>					14	'	•
Hyderabad	•••	•••		T. C	303	324	274	229	242
Hyderabad	•••	•••	•••	C. C	3	8	1	3	6
Hala	•••	•••		T. C	10	10	8	6	4
Matiari	•••	•••	•••	33 ···· .	_28	.19	18	11	8
	Navabsh	ah Distri	ict.						
Nawabshah	•••	•••	•••	T. C	5	1	6	7	•••
Tando Adam	•••	•••	•••	,,	33	27	16	14	12
The	er and P	arkar Di	istrict.						
Mirpurkhas	•••	***	•••	T. C	20	30	18	10	10
Umarkot	•••	•••	•••	<b>39</b> ···	13	85	5	5	7
	Larkan	a <b>Distri</b> c	t.						
Larkana	•••	•••	•••	T. C	49	43	32	39	41
Kambar	•••	•••	•••	» ···	8	6	7	7	7
Ratodero	•••	•••	•••	,,	13	15	16	8	9

No: III.

of the Province of Sind during each month of the year 1936.

Total Deat registered during the year.	December.	November.	October,	September.	Auguet.	July.	June.
3,151	242	283	156	163	178	171	153
5,300	456	322	315	299	299	277	309
4,966	425	394	291	272	260	243	279
5,102	364	329	370	257	377	2 <b>73</b>	311
4,710	321	439	420	<b>34</b> 0	304	312	229
3,446	307	286	254	<b>2</b> 26	229	180	179
5,207	481	581	414	315	392	291	301
1,696	131	190	192	128.	107	107	94
33,597	2,727	2,824	2,4 2	1,998	2,046	1.854	1,855
10.41	*85	<b>-8</b> 8	·75	*61	63	•57	· <b></b>
7,087	561	51 <b>4</b>	490	478	52 <b>9</b>	496	539
128	6	16	9	12	8	11	10
126	8	9	7	8	8	в	11
2,819	239	204	180	191	229	189	<b>9</b> 15
31	1	•••	1	6	4	2	1
60	2	5	4	3	4	3	1
139	10	8	5	14	6	8	8
26	• •••	•••	•••	•••		2	4
<b>1</b> 71	20	11	8	8	9	9	4
161	26	22	8	2	9	3	3
110	13	4	6	10	3	2	7
476	49	49	38	23	29	34	50
79	12	9	6	3	6	6	2
126	21	7	4	9	4	7	13

	_					January.	February.	March.	April.	May.
	B.—Tov	rns—conta	ı,							· · · · · · · · · · · · · · · · · · ·
	Dadu	District.								
Kotri	•••	•••	•••	T. C.	•••	13	7	8	5	3
Dadu	•••	•••	•••	,,	•••	7	5	9	8	18
Sehwan	•••	•••	•••	**	•••	7	8	***	5	3
	Sukku	r District.								
Sukkur	• •••	•••	•••	T. C.	•••	100	101	<b>6</b> 8	81	92
Shikarpur	•••	•••	•••	,,	•••	157	149	124	<b>12</b> 5	144
Rohri	•••	•••	•••	,,	•••	18	11	21	18	23
Garhiyassin	•••	•••	•••	,,	•••	19	16	11	5	τ1
$U_{I\!\!\!/}$	pe <b>r Sin</b> d I	Frontier D	istrict.							
Jacobabad	•••	•••	•••	T. C.	• •••	14	8	7	8	15
		То	tal for t	towns	•••	1,550	1,561	1,403	1,287	1,322
	1	Ratio per n	nile of t	lowns	•••	2.38	2:38	2:16	1.98	2:03
		Total for	the pro	vince	•••	5,818	5,632	5,465	4,266	3,823
	Ratio p	er mile for	the pro	vince	•••	1.50	1:46	1.41	1.10	*98

No. III—concld.

Total Deat registered during the year.	December.	November,	October,	September.	August.	July.	June.
85	8	8	5	7	5 >	7	9
79	10	2	4	4	2	9	6
41	9	5	1	1	•••	1	1
986	98	85	<b>6</b> 5	63	88	70	75
1,662	168	164	138	118	106	135	134
162	15	14	10	18	7	8	14
129	11	11	9	8	9	5	14
154	31	26	7	10	18	5	5
14,828	1,318	1,168	1,005	991	1,084	1,018	1,126
22:78	2•03	1'79	1.22	1.2	1'67	1.26	1.73
48,425	4,045	3,992	3,417	2,989	8,180	2,867	2,981
12:49	1:04	1:03	• <b>8</b> 8	-77	*81	•74	•77

ANNUAL FORM

# Deaths registered according to age in the districts (rural circles) and towns

						Under	one year	•		
					No	t exceeding	one mon	th.	_	
Distric	ets and T	owns.			Male.			Female.	•	Total.
				Under one weck.	Over one week,	Total.	Under one week.	Over one week.	Total.	
A—DISTRI	CTS (E)	KCLUDIN	r <del>G</del>							
Karachi	•••	•••	\	53	43	96	52	44	96	192
Hyderabad	•••	•••	]	88	89,.	177	79	79	158,	335
Nawabshah	***	•••		100	110	210	85	98	183	3 <b>9</b> 3
Thar Parkar	•••	***		104	80.	184	118	74	<b>192</b> .	376
Larkana	•••	•••		105	.92	197	90	71	161	358
Dadu	•••	•••		81	78	159	74	58	132	291
Sukkur	•••	•••		108	123	231	97	110	207	438
Upper Sind From	ntier	•••		24	25	49	27	22	49	<b>9</b> 3
		To	tal	663	640	1,303	622	556	1,178	2,481
•	-TOWN	TO.	ľ		-					
	achi Dis		α.	224	107	421	144.	. 118	262.	683.
Karachi	•••		. C·	254	167 1:	9	144. 5	. 116	10	19
Karachi	944.		. C	8 <b>2</b>	3	5 ·	8	2	10,	10
Tātta	• •	Т	. 0	2				-		
$oldsymbol{Hyde}$	rabad D									
Hyderabad	•••		. C	89	64	153	86	75	161	314
Hyderabad	•••	C	. c	1	0	1	0	0	0	1
Hala	•••	••• T	. C	4	2	6	2	•••	2	8
Matiari	***	•••	» ···	1	1	2	1	1	2	4
Nawa	ibshah D	istrict.								
Nawabshah	***	т	. c	1	0	1	0	0	0	1
Tando Adam	•••	•••	.,	1	1	2	2	2	4	6
Thar	Parkar	District.								
Mirpurkhas	•••		. C	1	1	2	3	1	4	6
Umarkot	***	•••	,, ,,,	2	1	8	1	1	2	5
Lari	kana Di	strict.								
Larkana	•••	•	r. c	14	12	26	14	13	27	53
Kambar	•••	•••	,,	2	2	4	0	2	2	6
Ratodero	•••	•••	9,	o	3	8	1	0	1	4

No. IV.

of the Province of Sind during the year 1936.

				Under one year—c						
Over exec	one month a eding six mo	nd not nths.	Over s execedi	six months as ng twelve m	nd not onths.		Total.			d under fivears.
Male.	Female,	Total.	Male.	Female.	Total.	Male.	Female	Total.	Male.	Female,
94	80 (	174	46	39	85	236	215	451	210	15
143	<b>8</b> 8	231	60	<b>4</b> 8	108	380	294	674	310	23
120	120	240	72	49	121	402	852	754	353	26
129	97	226	63	74	137	376	<b>36</b> 3	789	292	21
144	118	262	<b>7</b> 5	77	152	416	356	772	387	30
121	93	214	44	24	<b>6</b> 8	324	<b>249</b> .	573	225	18
204	171	<b>3</b> 75	94	86	180	529	464 .	993	412	30
59	50	109	20	41	61	128	140	<b>26</b> 8	129	18
1,014	817	1,831	474	438	912	2,791	2,433	5224	2,318	1,78
	,									
427	369	<b>79</b> 6	446	403	819	1,294	1,034	2,328	780	75
7	1	8	3	5	8	19	16	35	12	
1	6	7	2	2	4	8	13	21	4'	,
131	110	241	147	139	286	431	<b>-4</b> 10	841	222	20
1	0	1	2	0	2	4	0	4	0	
1	1	2	3	0	8	10	3	13	4	
1	1	2	1	1	2	4	4	8	8	
0	1	1	1	1	2	2	2	4	2	
8	3	11	2	1	3	12	8	20	10	
4	1	5	1	3	4.	7	8	15	3	
8	1	4	1	0	1	7	8	10	4	
16	12	28	24	22	46	66	61	127	32	4
2	2	4	1	0	1	7	4	11	6	
5	4	9	6	4	10	14	9	23	11	

			·			<b>Talling the State of Williams</b> and a speciment	Under	one year			
						Not	exceeding of	ne month			
-						Male,			Female.		Total.
					Under one week.	Over one week.	Total.	Under one week.	Over one week.	Total.	
B—TOV	NS—con	ıtd.									
Dad	u Distric	t.									
Kotri	•••	•••	T. C.	•••	4	0	4	7	1	8	12
Dadu	•••	•••	••	•••	2	4	6	2	5	7	13
Sehwan	•••	•••	,,	•••	0	0	0	0	1	1	1
Sukku	r Distric	t.								<u> </u>	
Sukkur	•••	•••	T. C.	•••	26	24	50	16	12	28	78
Shikarpur	•••	•••	••	•••	45	41	86	37	50	87	173
Rohri	•••	•••	**	•••	9	4	13	2	8	5	18
Garhiyasin	•••	***	"	•••	2	3	5	4.	3	7	12
Upper Sind	Forntier	Disti	rict.				ĺ				
Jacobabad	•••	1	т. с.	•••	2	5	. 7	3	0	3	10
	Total	for t	owns	•••	470	339	809	883	295	628	1,437
То	tal for the	p <b>ro</b> v	vines	•••	1,133	979	2,112	955	851	1,806	3,918
Ratio per	mile of p	popul	ation	•••	•••	•••	•••	••••	•••		•••

No. IV-contd.

					ontd.	one year—c	Under			
nd under years.			Total.		nd not	ix months ar	Over s exceedi		one month a seding six mo	
Female.	Male.	Total.	Female.	Male.	Total.	Female.	Male.	Total.	Female.	Male.
;	5	24	15	9	6	3	3	6	4	2
ı	7	25	15	10	3	3	0	9	5	4
;	2	4	1	3	1	0	1	2	0	2
4	83	274	108	166	91	37	<b>54</b> '	105	43	62
9	105	529	239	290	151	70	81	205	82	123
4	6	45	15	30	4	1	8	23	9	14
1:	12	25	11	14	2	0	2	11	4	7
2	15	39	10	29	17	3	14	12	4.	8
1,24	1,833	4,425	1,989	2,436	1,496	698	798	1,492	663	829
3,03	3,651	9,649	4,422	5,227	2,408	1,136	1,272	3,323	1,480	1,843
12:7	14.77	121.31	125:05	118.83	•••	•••	•••	• • • •	•••	

				and under n years.	Ten and und	ler 15 years.	15 and und	er 20 years.
			Male.	Female.	Male.	Femalė.	Male.	Female.
A-DISTRIC	CTS (EX	COLUDING						
Karachi	•••		86	77	87	58	79	60
Hyderabad	•••	•••	145	128	113	92	144	128
Nawabsha h	•••	•••	166	145	122	69	74	61
Thar Parkar	•••	•••	150	105	182	94	101	72
Larkana	•••	•••	165	155	96	66	88	43
Dadu	•••	•••	102	86	63	61	82	68
Sukkur	•••	•••	137	132	121	104	110	96
Upper Sind From	tier	•••	50	59	41	26	34	21
		Total	1,001	887	775	570	712	557
R	_town	s.			-			
Kara	chi Die	trict.						
Karachi	•••	T. C.	106	109	65	83	87	119
Karachi ·	•••	C. C.	1	1		•••	2	2
Tatta	•••	Т. С	. 1	2	2	2	1	. 2
Hyder	abad Di	istrict.						
Hyderabad	•••	T. C.	32	30	23	25	58	8
Hyderabad	•••	C.C.		1		•••	•••	J
Hala	•••	Т. С.			] 1	1	•••	1
Matiari	•••	,,	1	2	2	3	2	4
Nawal	shah Di	istrict.						
Nawabshah	•••	T. C.	2	•••	•••	1	2	2
Tando Adam	•••	••• ,,	2	2	3	1	8	4
Thar P	arkar I	District.					! !	
Mirpurkhas	•••	т. с.	5	3	2	2	9	3
Umarkot	•••	••• 39		1	•••	2	5	7
Lark	an <b>o Di</b> s	stirct.						
Larkana	•••	т. с.	8	,	4	3	6	10
Kambar	•••	1,	4		2	3	•••	1
Ratodero	•••	••• 37	3	4	3	2	3	3

No. IV—contd.

20 an 30 ;	d under years.		d under years.	<b>40</b> and <b>50</b> ye	under ears.		under ears.	60 yes	ers and vards.		es not own.		otal ages.)
Male.	Female.	Male.	Female.	Male,	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female
205	201	253	192	<b>19</b> 8	139	174	94	261	176			1,789	1,362
308	312	473	3:15	407	248	353	159	494	240			3,127	2,182
272	297	336	281	358	185	<b>3</b> 13	166	488	254	•••		2,884	2.082
364	320	879	277	351	218	351	156	<b>4</b> 94	294		•••	2,990	2,117
222	253	277	320	275	191	216	137	447	305	1 ***		2,589	2,127
161	200	220	209	233	138	190	88	351	214	<b></b>		1,951	1,494
218	292	<b>3</b> 10	274	278	212	272	127	<b>49</b> 8	312		•••	2,885	2,322
79	92	89	98	102	67	95	44	176	96		•••	923	778
1,829	1,967	2,337	1,996	2,202	1,398	1,984	971	3,209	1,891			19,138	14,459
	<u> </u>							·					
		•											
250	324	275	200	256	136	<b>2</b> 22	115	482	397	<b></b>		3,817	3,270
9	4	9	3	5	1	7	2	12	12			76	49
7	6	9	2	14	7	4	7	23	8			73	53
145	137	140	81	190	83	119	68	185	154	<b></b>		1,545	1,274
5	1	1		2		2		. •6	5			20	11
2	3	, ,	8	3	3	6	2	12	3			39	21
. 3	10	12	7	12	3	8	5	24	13		•••	76	57
1	8		2	1	1	2	•••	1				18	18
11	10	11	13	12	.7	15	8	13	12	•		97	74
							•		1				
18	10	15	12	19	6	14	3	7	7		 	<b>9</b> 9	62
12	14	5	7	12	4	5	6	7	4	•••	•••	57	53
35	27	38	29	19	12	21	17	21	21			250	226
4	6	8	7	5	I	3	•••	8	8	l <b>.</b>	•••	47	32
5	4	4	11	4	5	11	1	12	10	•••		70	56

			i		nd under years.	Ten and und	er 15 years.	15 and und	er 20 years.
			ļ	Male.	Female.	Male.	Female.	Male.	Female.
В.—	TOWNS-	-contd.							
D	adu Distr	ict.							
Kotri	•••	т. с	J	1	1	••••••••••••••••••••••••••••••••••••••	1	1	3
Dadu	•••	,,	•••	7	3	1	2		•••
Sehwan	•••	,,	•••	1	•••	1	2	1	1
Su	kkur Dist	rict.							
Sukkur	***	т. с	)	27	11	10	15	16	24
Shikarpur	•••	••• 59	•••	26	16	19	25	20	44
Rohri	•••	,,	•	1	. 2	•••	1	2	4
Garhiyasin	•••	33		6	6	2	1	1	2
Upper Sin	d Frontie	r District.							
Jacobabad	•••	Т. С	:	2	7	3	1	3	3
	To	tal for towns	•••	236	206	143	176	227	325
	Total for	the province		1,237	1,093	918	746	939	882
Ratio <sub>l</sub>	per mille o	f population	•••	4:32	4.91	3.72	4-29	4.97	5.31

No. IV—concld.

stal ges).	To (all a	s not	Age kn	rs and ards.	60 year upwa	under ears.	<b>50 and</b> 60 y	under ears.	40 and 50 ye	d under years.		d under rears.	
  Femal	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	. Male.	Female.	Male.	Female.	Male,
						:							
4	42	•••	•••	4	4	2	5	3	8	4	6	7	3
3 2	41 21	•••	•••	1 4	4	1	3 1	2	4	3	1	4	1 2
	21	•••	•••	_	J		•				•	•	
39	591			60	73	23	50	19	54	40	58	48	51
76	898	•••		140	158	24	82	45	99	58	61	80	38
	102		•••	6	24	10	11	1	15	6	6	8	7
•	68	•••	•••	11	14	2	5	4	6	2	6	10	2
7	79			10	9	1	4	8	3	3	5	8	6
6,70	8,121	•••		890	1,102	295	600	351	749	495	675	733	620
21,16	27,259	•••		2,781	4,311	1,266	2,564	1,749	2,951	2,491	3,012	2,700	2,449
12.4	12.54		•••	49.31	63.64	16.11	24.57	11.22	14.10	10.09	8.66	7:83	<b>5</b> ·73

ANNUAL FORM
Deaths registered according to Classes and sex in

		2						
								Number of
No.		Districts	•		Muham	madans.	Hino	lus.
					Male.	Female.	Male.	Female.
1	Karachi	<b>***</b>	•••	•••	3,545	2,759	2,100	1,891
2	Hyderabad	•••	•••	•	2,871	1,954	1,894	1,561
3	Nawabshah	•••	•••	•••	2,076	1,527	918	641
4	Thar Parkar	•••	•••	•••	1,717	1,132	1,426	1,099
5	Larkana	•••	•••	•••	2,361	1,925	595	516
6	<b>Dadu</b>	•••	•••		1,603	1,228	451	366
7	Sukkur	•••	•••	•••	<b>2,</b> 638	1,988	1,900	1,601
8	Upper Sind I	rontier	•••	•••	826	716	176	132
		Total for	the Province	•••	17,637	13,229	9,460	7,807
	1					<u></u>		<del></del>
-		2						
-						<del></del>	Ran	rio of Deat
No.		2 Districts			Muhamp	nadans.		rio of Deat
			3.		Muhami Male.	nadans. Female.		
	Karachi		3. •••	•••	<u></u>		Hin	dus.
No.	Karachi Hyderabad	Districts		•••	Male.	Female.	Hin Male.	dus. Female.
No.		Districts	···		Male. 15:35	Female.	Hin Male. 23.55	dus. Female. 31·22
No.	Hyderabad	Districts	•••	•••	Male. 15:35 11:04	Female. 15.07 9.74	Hin Male. 23.55 17.34	dus. Female. 31.22 17.58
No. 1 2 3	Hyderabad Nawabshah	Districts	•••	•••	Male. 15:35 11:04 9:71	Female.  15.07  9.74  9.81	Hin Male.  23.55 17.34 14.48	dus. Female. 31.22 17.58
No. 1 2 4	Hyderabad Nawabshah Thar Parkar	Districts	•••	•••	Male.  15:35  11:04  9:71  12:41	Female.  15.07  9.74  9.81  10.52	Hin Male.  23.55 17.34 14.48 11.70	dus. Female. 31.22 17.58 12.23 11.31
No.	Hyderabad Nawabshah Thar Parkar Larkana	Districts	•••		Male.  15:35  11:04  9:71  12:41  11:05	Female.  15.07  9.74  9.81  10.52  11.67	Hin Male.  23.55 17.34 14.48 11.70 18.17	dus. Female. 31.22 17.58 12.23 11.31 14.02
No.	Hyderabad Nawabshah Thar Parkar Larkana	Districts	•••		Male.  15:35  11:04  9:71  12:41  11:05  10:12	Female.  15.07  9.74  9.81  10.52  11.67  9.91	Hin Male.  23.55 17.34 14.48 11.70 18.17 15.98	dus.  Female.  31.22  17.58  12.23  11.31  14.02  15.91

No. V. the Province of Sind during the year 1936.

3

<b>T</b>	
DEATHS	REGISTERED

Ja	ins.	Chris	stians.	Pa	rsis.	Other Classes,		
Male.	Female.	Male.	Female.	Male,	Female.	Male.	Female.	
2	. 5	63	47	15	19	30	18	
•••	•••	•••	1	•••		42	29	
•••	***	•••	1,	•••		•••	•••	
••	***	1	1		•••	2	•••	
•••	•••		•••	•••	•••	***	•••	
•••	***		•••	•••	••	1	1	
•••	•••	2	3	•••	•••	4	10	
•••	•••	•••	•••	•••	•••	<b></b>	200	
2	5	66	58	15	19	79	53	

PER 1,000 OF POPULATION.

Ja	ins.	Chri	stians.	Pa	rsis.	Other (	Classes.
Male.	Female,	Male.	Female.	Male.	Female.	Male.	Female.
5'55	19:23	10:97	10.97	8:56	11.90	42:01	21•38
	•••	•••	4-27	•••		29.01	<b>33·5</b> 6
•••		•••	18.18	***	•••	•••	• • •
	•••	13·51	26:32	•••	100	1.52	•••
•••		•••		•••	;	•••	•••
	•••	•••	···	***	•••	9*26	6•71
'	•••	4.17	8-65	•••		1.23	<b>50</b> 8
		***	•••	••			***
8.17	9:76	9:54	10.36	8.08	11:40	8*57	8'62

ANNUAL FORM

Deaths registered from different causes and Births in the Districts

1		2			8		·4 Birt	hs,	
No-	Distr	ricts and T	owns.		Population according to Census of 1931,	Male.	Female.	Total.	Birth rate.
	A.	-DISTRIC	CTS.						
1	Karachi	•••	•••	•••	8,15,766	1,970	1,883	5,853	10.63
2	Hyderabd	•••	•••	•••	5,47,229	3,597	2,393	5 <b>,9</b> 90	10.94
8	Nawabshah	•••	•••	•••	4,76,120	<b>4,2</b> 59	3,129	7,388	15:53
4	Thar Parkar	•••	***	•••	4,54,021	<b>4,</b> 396	3,514	7,910	17:42
5	Larkana		•••	•••	<b>4,08,29</b> 8	5,184	4.080	9,264	22.69
6	Dadu	•••	•••	•••	8,11,892	3,604	2,571	6,175	19.80
7	Sukkur	•••	•••	•••	4,67,727	5,182	3,939	9,121	19:50
8	Upper Sind Fr	ontier	•••	•••	2, <b>4</b> 4,578	2,123	1,538	3,661	14.97
	. F	Total of	the Districts	·	32,25,631	80,315	22,547	52,862	16.38
	1	RACHI DIST							
9	Karachi	•••	T. C.	•••	2,47,791	7,169	6,768	13,987	56*24
10	Karachi	•••	C. C.	•••	6,240	197	208	405	64.90
11	Tatta	•••	T. C.	•••	9,685	73	59	132	18•70
	Нур	erabad Dis	STRICT.						
12	Hyderabad	•••	т.с,	•••	96,021	2,136	2,107	<b>4</b> ,248	44.18
13	Hyderabad	•••	c.c.	•••	4,530	33	23	56	12:35
14	Hala	•••	T. C.	•••	7,304	66	44	110	15.06
15	Matian	•••	т.с.	•••	6,692	46	31	77	11.20
	Naw	abshah Dis	STRICT.		<b>!</b>				
16	Nawabshah	•••	т.с.	•••	7,023	17	13	30	4.27
17	Tando Adam	•••	,	•••	13,469	137	i <b>74</b> !	211	15.66

No. VI. and Towns of Province of Sind during the Year 1936.

5	6	7	8	9	10	11 Injur	
Cholera.	Small pox.	Plague.	Fevers.	Dysentery and	Respiratory Diseases,	Suic	ide.
				Diarrhoea.		Male.	Female.
				•			
•••	26	•••	1,530	49	<b>1,125</b>	2	
8	23	•••	3,837	79	1,330	1	
•••	29	•••	4,002	22	<del>49</del> 0	1	•••
***	41	•••	3,301	31	1,139	•••	•••
•••	31	•••	4,259	7	109	•••	
•••	41		2,743	24	237	2	1
•••	19	•••	4,485	84	<b>2</b> 60	2	1
•••	10	•••	1,566	10	25	. 1	1
8	220		25 <b>,2</b> 23	256	4,715	9	3
	54	4.	448	686	3,226	2	•••
•••	•••	•••	37	7	16	•••	
•••	2	•••	 	6	1 [ 51 ]	•••	
••>	. 5	•••	300	145	1,198	5	;   8
•••		<b></b> .	i 21	•••	3	•••	
•••	•••	•••	36	<b></b> .	16	•••	•••
•••		•••	47		55	•••	•••
•••	1		11		8	•••	af
•••			65	3.	59	•••	

1		2			_		11 Injuries.—	-co <b>n</b> t d.		12	13
No.	Dist	ricts and ?	Γow	ns.		Wound- ing or Accident.	Snake- bite, or killed by wild beasts.	Rabies.	Total.	All other causes.	Total deaths from all causes.
	A	DISTR	ICT	s.							
1	Karachi	•••		•••	•••	25	29	2	58	363	3,151
2	Hyderabad	•••		•••	•••	47	30	2	80	452	5,309
3	Nawabshah	•••		•••	•••	63	<b>3</b> 7	2	103	320	4,966
4	Thar Parkar	•••		•••	•••	40	38	1	79	516	5,107
5	Larkana	•••		•••	•••	61	35	1	97	218	4,716
6	Dadu			•••	•••	65	18		86	314	3,445
7	Sukkur	•••		•••	•••	56	17	•••	76	333	5,207
8	Upper Sind F	rontler		•••	•••	34	6	70.0	42	48	1,696
	1	Total of		Districts	•••	391	210	8	621	2,554	33,597
		ACHI DIST		·							
9	Karaohi	•••	•••	T.C.	•••	103	•••	•••	105	2,566	7,087
10	Karachi	•••	•••	c. c.	•••	***	***	••	•••	65	125
11	Tatta	•••	•••	T. C.	•••	1	***		1	31	126
	Hyde	RABAD DI	STRIC	CT,							
12	Hyderabad	•••	•••	т. с,	•••	56	2	•••	66	1,110	2.819
18	Hyderabad	•••	•••	C. C.	•••	•••	•••	•••	•••	7	81
14	Hala	•••	•••	т. с.	•••		***		•••	8	60
15	Matiari	•••	***	1,	•••	3	1	<i>,</i>	4	2 <b>7</b>	133
	NAWA	BSHAR DI	Stri	CT.							
16	Nawabshah	•••	•••	T, C,	•••	•••	•••	•••	•••	в	26
17	Tando Adam	•••	•••	21	•••	3	•••		3	41	171

14
RATIO OF DEATHS PER 1,000 POPULATION.

		1	CATIO OF	DEATHS PE	1,000 10	l		<u> </u>	
Cholera.	Small- Pox.	Plague.	Fevers.	Dysentery and Diarrhoea.	Respira- tory Diseases.	Injuries	All other causes.	For the year.	Mean of previous five years.
•••	•08		4:91	•15	3•55	•18	1.13	10· <b>0</b> 0	10.07
<b>'01</b>	'04		6.09	•14	2.44	•15	*83	9•70	10-11
***	.06		8*40	· <b>09</b>	1.02	•21	•65	10.43	10.72
•••	•09		7:28	·07	2·50	·17	1•13	11.24	18:58
•••	•08		10.43	•01	•27	·24	•52	11.55	12·48
•••	·18		8.80	·08	•76	·27	1.01	11.05	11.60
***	'04		9:59	<b>•0</b> 8	·55	·16	.71	11'18	14.83
•••	·04	<b></b>	6:40	·05	·10	•17	•18	6.94	9.87
•002	•07		7:81	•08	1.46	-19	.79	10 40	11:78
•••	•2 <b>2</b>	·02	1.80	2.76	13 <b>·0</b> 2	·42	10:36	28.60	23.58
•••		•••	5.88	1·12	2.29	•••	10.44	20 <b>·0</b> 3	16.02
*** .	•21	•••	3.62	·6 <b>2</b>	<b>5·3</b> 0	·10	3·2 <b>2</b>	13·10	12 <b>·4</b> 5
•••	•05_	•••	3.12	1.21	12:44	*68	11.22	29*85	24:45
•••	<b></b>		4.68	•••	· <b>6</b> 6		1.22	6'84	j
***		•••	4.93		2'19		1.09	8:21	9.72
•••	•••		7:01	•••	8:22	·59	4.04	19:86	14 <sup>,</sup> 19
•••	.14		1:57	•••	1'14		·85	3.40	6.12
•••	. •••		4.83	-22	<b>4</b> ·39	·22	3.04	12.70	18:48
		·			·		·	<u></u>	,

1		2	}		3		<b>4</b> Birt	hs.	
No,	Dist	tricts :	and Town,		Population according to Census of 1931.	Male.	Female.	Total.	Birth rate.
	В,Т	1WO	IS.—oontd.						
	Thar	PARK	AR DISTRICT.						
18	Mirpurkh <b>a</b> s	•••	т. с.	•••	10,178	65	42	107	10.21
19	Umarkote	•••	444 99	•••	3,841	54	39	93	24.21
	Lai	rkana	DISTRICT.						[ 
20	Larkana	•••	т. с.	•••	26,841	551	481	1,032	38·45
21	Kambar	•••	*** ** 19	•••	9,717	105	88	198	19:86
22	Ratodero	•••	*** 11	•••	7,285	103	87	190	26.08
	D	ADU ]	DISTRICT.						
23	Dadu	•••	т.с.	•••	6,562	36	39	75	11:43
24	Kotri	•••	T.C.	•••	10,033	96	80	176	17.54
25	Sehwan	•••	T.C.	<b>64</b> •	5,795	45	26	71	12.25
ì	Su	KKUR	DISTRICT.						
26	Sukkur	•••	Т. С.	•••	69,277	1,841	1,198	2,539	36.65
27	Shikarpur	•••	••• 91	•••	62,595	1,177	1,066	2,243	35.88
28	Rohri	•••	••• 11	•••	. 16,900	175	175	350	20.71
29	Garhi Yasin	•••	••• 19	•••	7,370	111	100	211	18.63
	Upper Sin	ND FR	ONTIER DISTRICT.						
30	Jacobabad	•••	T.C.	•••	15,748	127	66	198	12•25
			Total of Towns	•••	6,50,757	13,860	12,814	26,674	40.99
			Total of Province	•••	38,76,388	<b>44,</b> 175	<b>35,3</b> 61	79 <b>,</b> 536	20.27

No. VI.—concld.

5	6	7	8	9	10	1: Injuri	
Cholera.	Smallpox.	Plague.	Fevers.	Dysentery and	Respiratory Diseases.	Suic	id <b>e.</b>
			, , , , , , , , , , , , , , , , , , , ,	Diarrhoea.	Diseases.	Male.	Female,
•••	•••	<b></b>	54	5	70	•••	•••
•••	•••	•••	48	1	49	•••	•::
	•••	•••	127	17	139	•••	
•••	•••	•••	62	1	8	• ••	•••
•••		•••	119	•••	1	•••	1
•••		•••	52	4	5	•••	•••
•••	2	•••	43	3	19	•••	•••
•••	•••	•••	20		14	•••	•••
	•••	•••	197	134	332	•••	
•••	2	•••	447	27	185	2	1
•••			90	7	41	•••	•••
•••	•••	•••	87	1	15	•••	•••
•••	22	•••	112	•••	5	•••	•••
	88	4	2,456	1,047	<b>5</b> ,510	9	5
8	308	4	27,679	1,303	10,225	18	8

1			2			11 Injuries.—	-conid.		12	13
No.	Dist	rict a	and. Towns.		Wound- ing or Accident.	Snake bite, or killed by wild beasts.	Rabies.	Total.	All other causes.	Total deaths from all causes.
	В.—	row	NS·—contd.							
	Thar	Park	AR DISTRICT.						i	
18	Mirpurkhas	•••	T. C.	•••	2	•••	***	2	80	161
19	Umarkote	•••	••• 11	•••	•••	•••	•••	•••	12	110
	LAR	KANA	DISTRICT.							
20	Larkana	•••	T. C.	•••	10	•••	•••	10	183	476
21	Kambar	•••	••• 91	•••	1	1		2	6	79
22	Ratodero	•••	••• 19	•••	4	•••	•••	8	1	126
i	D	ADU	DISTRICT.							
23	Dadu		T. C.	••.	1	•••	•••	1	17	79
24	Kotri	•••	11	•••		•••	·	•••	18	85
<b>25</b> ·	Sehwan	•••	••• 11	•••	•••	•••	•••	•••	7	41
	Su	KKUR	DISTRICT.							
26	Sukkkur	•••	т. с.	•••	30	1	•••	81	292	986
27	Shikarpur	•••	••• ,,	•••	14	2	•••	19	982	1,662
<b>2</b> 8	Rohri	•••	••• ,	•••	1	***	•••	1	23	162
29	Garhi Yasin	•••	••• ••	•••	2	•••	•••	2	24	129
	Upper Si	ND F	CONTIER DISTRICT.							
<b>3</b> 0	Jacobabad	•••	т. с.	•••	•••	***		•••	15	154
			Total of Towns	3	231	7		252	5,471	14,828
			Total of Province	·	622	217	8	873	8,025	48,425

14
RATIO OF DEATHS PER 1,000 OF POPULATION.

								From al	l Causes.
Cholera.	Small- Pox.	Plague.	Fevers.	Dysentery and Diarrhoea.	Respira- tory Diseases.	Injuries	All other causes.	For the year.	Mean of previous five years.
•••	•••	•••	<b>5*8</b> 0	•51	6:87	·20	2-94	15.82	11.90
•••	•••		12.50	*26	12-76	•••	8•12	28.64	23·16
•••	•••	•••	4:72	<b>'63</b>	5:21	-37	6.80	17:73	<b>20</b> ·01
•••	•••		6.38	•10	•82	•20	•62	8.12	16·15
•••		•••	16:33	•••	•14	.69	·14	17.30	20 81
•••			<b>80</b> 8	•61	•77	•15	2:43	<b>42•04</b>	1.82
•••	20		4.29	•29	1'90	•••	1.79	8.47	<b>10</b> ·56
•••			3•45		2:41	•••	1.21	7-07	8.11
***	•••	•••	2:96	1.93	<b>4</b> •68	-45	4.21	14-23	<b>13:4</b> 5
•••	.03	•••	7:35	· <b>4</b> 3	2:77	.30	<b>15</b> .7 <b>0</b>	26.58	<b>24</b> ·67
•••			<b>5</b> ·33	<b>.4</b> 1	2•42	-06	1.36	9.28	13.31
***	<b></b>		11•80	•14	2:03	•27	<b>3·2</b> 6	17.50	<b>23·</b> 88
***	1' <b>4</b> 0	•••	7:12	•••	•30		.95	9.77	<b>9</b> ·01
•••	14	'001	3:77	1.61	8*46	.39	8:41	22:78	20:16
.0002	'07	.0001	7.14	•34	2.64	•23	2:07	12.49	13.19

ANNUAL FORM

Deaths registered from certain diseases in the Districts

1		2			3			4		5
No.	Dist	oloto o a 3 M	<b>9</b>		Ente Feve		Mea	sles.	l spi	ebro- nal ver.
No.	Distr	ricts and T	owns.		Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
	A.—	DISTRIC	CTS.							
1	Karachi	•••	•••		5	<b>•</b> 02	5	.03	1	1003
2	Hyderabad	•••	•••		23	·0 <del>4</del>	10	•02	•••	•••
3	Nawabshah	•••	•••		16	-03	36	•03		
4	Thar Parkar	•••	•••		20	•05	14	.03		
5	Larkana	•••	•••		20	•05	9	·02		<b></b>
6	Dadu	•••	•••		34	·11	9	-03		
7	Sukkur	•••	•••		15	.03	26	•06		
8	Upper Sind Fro	ontier	•••		4	•02	8	·01		
		Total o	f the Districts		137	•04	112	.03	1	.0003
		.—TOWN								
9	Karachi		T. C.		40	·16	224	. <b>•90</b>	3	·01
10	Karachi   Karachi	•••		•••			[	   		
11	Tatta	•••	C, C.	•••	 3	···· •31	•••	•••		•••
**	1	 ABAD DIS	T. C.	•••	•	-01	•••	} ••• [		
12	Hyderabad		T. C.		81	*84	81	•84	2	*02
13	Hyderabad	•••	· C. C.	•••			_			}
13 14		•••	<b>.</b>	•••	•••	•••	•••	•••	, . <b>.</b> ,	•••
15	Hala Matiari	•••		•••	1	·14	•••	•••		· ·14
13		 Авзнан D:	··· ·,	•••	•	170	•••	•••	•	- <b>-</b>
10					,	.14			2	<b>'2</b> 8
16	Nawabshah	•••	Т, С.	.•••	1	'14	•••	***		<b>40</b>
17	Tando Adam	•••	••• ••	•••	8	•60		•••	•••	•••

No. VI (a).
and Towns of the Province of Sind during the year 1936.

6		7			8	1 9	)	:	10	1	1		12
Malari	a.	Other Fe	vers.	Influe	nza.	Dipt	heria.	Тур	hus.	Cancer.		Who Cou	oping igh.
Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths,	Ratio.	Deaths.	Ratio,	Deaths.	Ratio,	Deaths.	Ratio.
22 <b>2</b>	•70	1,297	4.17	***	•••	1	.003			<b>.</b>	•••	,	•••
76	•14	3,228	5•89	•••	•••	•••		•••			<i></i>		
47	.09	3,903	8•20	•••	•••	4	•001	•••					•••
124	•27	3,143	6.93	•••	•	1	1002	. <b></b>					<b></b>
72	•18	4,158	10.18	•••	•••	1	.003	•••		<b></b>	•••		•••
136	•44	2,563	8-22	1	•003	1	-003	•••					•••
92	-20	4,352	9.30		<b></b>			•••				•••	•••
39	.16	1,520	6.21					•••			•••		•••
808	•25	24,164	7:49	1	.0063	8	.003	•		•••			•••
		:			<del></del>		` <del></del>						
26	-11	151	•61	2	•01	23	•09	•••	•••	22	•09	4	•02
1	.16	36	5.72	•••			•••	•••		•••			•••
16	1.67	16	1.67	•••		•••	•••	•••	•••	•••			•••
							·						
110	1.12	26	•27	•••	•••	7	-07	•••	•••	12	•13	8	.03
1	*22	20	4.41	•••	<b></b>		***	•••	•••	•••		•••	•••
7	•96	29	3.97		<b>,</b>		•••	· •••	•••		•••		•••
3	•45	42	6:28	•••		•••		***	· ···			•••	•••
									:				
2	· <b>2</b> 8	6	·85	•••	•••	2	*28	•••	••• •	• • • • • • • • • • • • • • • • • • •	•••		•••
10	· ·75	47	3.48	!	•••	1	•07	•••		••• 	•••		***

1		2					13	14		1	5	16	)
							cken- ox.	Pne		Phth	isis.	Other I rato Disea	ry
No.	Distri	cts and To	wns.				Ratio,	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
	A,	-DISTRIC	CTS.										
1	Karachi	•••		•••	•••	•••		947	2.98	. 83	-26	95	31
2	Hyderabad	•••		•••	•••	1	.001	1,007	1.84	117	-22	206	· <b>3</b> 8
3	Nawabshah	•••		•••	•••	•••	•••	362	•76	61	-12	67	•14
4	Thar Parkar	•••	•	•••	•••		•••	908	2.00	65	.14	166	•36
5	Larkana	•••			•••		,.	45	•11	<b>3</b> 3	.08	31	.08
6	Dadu	•••		•••	•••		•••	125	-40	60	•19	52	•17
7	Sukkur	•••		•••	•••			126	-27	58	·J2	<b>7</b> 6	•16
8	Upper Sind Fro	ontier		•••	•••	<b></b>	<b></b> . ·	14	•06	8	03	3	•01
		Total of	the	Districts	•••	1	.0003	3,534	1.09	485	•15	696	·22
	Į "	.—TOWN	S.					ļi					
	Ka	RACHI DIST	rict	•									
9.	Karachi	•••	•••	T. C.	•••	•••	•••	1,752	7:07	<b>597</b>	2.41	873	3.2
10	Karachi	•••	•••	C.C.	•••		•••	15	2.43	•••	•••	1	•16
11	Tatta	•••	•••	T. C.	•••		•••	44	4'57	5	52	2	•21
	Нург	erabad Di	STRIC	et.									
12	Hyderabad	***	•••	T. C.	•••		•••	871	9:07	226	2:38	93	•96
13	Hyderabad	•••	•••	C, C,	•••	•••		3	-66	•••	•••	•••	•••
14	Hala	•••	•••	T.C.	•••			13	1.78	3	•41	. •••	•••
15	Matiari	•••	•••	T. C.	•••			41	6.13	14	2'09	•••	•••
	Naw	aeshah Di	STRI	et.									
16	Nawabsh <b>a</b> h	***	•••	T. C.	•••			5	.71	3	· <b>4</b> 3	••	•••
17	 Tando Adam	•••	•••	29	•••			40	2.97	9	-67	10	•75

No VI (a).—contd.

22	21		20		19	18	,		17
	Infant mor-	year.	hs under 1	Deat	Deaths from	rhœa.	Diar	tery.	Dysen
No	tality rate per 1,000 births.	Total.	Female.	Male.	child- birth.	Ratio.	Deaths.	Ratio.	Deaths.
			}						
1	134•51	451	215	236	44	-07	22	<b>.</b> 08	27
2	112-53	674	294	380	137	•07	40	•07	39
8	102-06	754	352	402	134	•08	16	•01	6
4	93-42	739	<b>363</b>	376	92	•05	24	•02	7
5	83:33	772	356	416	85	<b>'01</b>	6	•002	1
6	92-80	573	249	324	89	-07	22	•01	2
7	108'87	993	464	529	125	•08	27	•02	7
8	73-20	268	140	128	21	.03	6	•02	4
	98*82	5,224	2,433	2,791	729	•05	163	•02	93
						<del></del>			
9	167.04	2,328	1,034	1,294	79	2-28	566	•45	120
10	86'42	35	16	19	•••	.16	1	-96	6
11	159.09	21	13	8	2	•31	3	*31	3
12	   198:21	841	410	431	17	<b>-9</b> 8	94	•53	51
13	71.43	4		4	•••	•••	•••	•••	
14	118-18	13	3	10	3	•••	•	•••	•••
15	103.90	8	4	4	5	•••	•••	•••	•••
· 16	133-33	4	2	2	•••		•••		
17	94•80	<b>20</b> j	8	12	10	•07	1	·15	2

1	2 District and Towns.					3 Ente Feve	ric		4 sles,	5 Cerebro- spinal Fever.	
No.	Dis	trict and	l Towns	i <b>s</b>		Deaths.	Ratio.	Deaths,	Ratio,	Deaths,	Ratio.
	B.—"	rowns	6.—contd								
	Тная	PARKA	r Distr	ICT.					}		
18	Mirpurkhas	•••	•••	T. C.	•••	8	•29	2	-20	1	·10
19	Umarkot	•••	•••	39	•••	3	· <b>7</b> 8				•••
!	Lai	rkana D	) istrict.								
20	Larkana	•••	•••	T C.		35	1.30	10	-37		
21	Kambar	•••	•••	**	•••	•••		1	•10		
23	Ratodero	•••	•••	,,	•••	•••	•••	***			
	r	ADU DI	STRICT.								
23	Dadu	•••	***	T. C.	•••		•••	4	•61	•••	
24	Kotri	•••	***	**	•••	4	<b>'4</b> 0				
25	Sehwan	•••	•••	,,		2	•34				•••
	St	ikkur D	)istrict	•							
26	Sukkur	•••	•••	T. C.	•••	38	•55				
27	Shikarpur	***		,,		57	<b>.</b> 91	46	.74	1	-02
28	Rohri	•••	•••	**	•••		•••				•••
29	Garhi Yasin	•••	•••	"	•••	2	27	1	•14		
	UPPER SI	ND FROM	TIER D	ISTRICT.							
30	Jacobabad	•••	•••	т. с.	•••	1	•06	<b></b> .	•••		•••
			Total o	f Towns	•••	279	•43	369	.57	10	02
		Total	of the	Province	•••	416	•11	481	12	11	•003

No. VI (a).—contd.

7		8		(	•	10		11		12		13	
Malaria		Other Fevers.		Influenza.		Diptheria,		Typhus fever.		Cancer.		Whooping Cough.	
Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
5	49	42	4·12	•••		•••		1	-10	•••			•••
4	1.04	41	10.68	•••	•••	•••	•••		•••	•••		•••	
69	2•57	13	•48	•••	•••	1	.03	·		1	•03	•••	•••
	•••	61	6:28			•••		· •••			<b>,</b>	•••	~••
	•••	119	16:33	•••		•••	•••	•••		•••	•••	•••	•••
2	•31	48	7:01	•••	••	1	•15	•••	•••		•••	•••	
32	3.19	7	•70			•••					•••	•••	
2	•34	<b>16</b>	2.76			•••• 		•••	·			•••	•••
86	1.24	73	1.05	•••			••	 I		•••	•••	4.	<b>:0</b> 6
340	5*44	3	•05	•••	•••	•••	•••	•••				4	•06
90	5:33	•••		 	•••						. <b>.</b>		•••
13	1.76	71	9.63	•••		   •••		•••			<b></b>	•••	
•••	•••	110	7.00	1	•06	•••	••	·••   		•••	•••	•••	•••
819	1.56	975	1.20	3	.005	35	•05	1	•0001	35	.05	15	*02
1,627	•42	25,139	6.48	4	•001	43	•01	1	·0002	35	•009	15	*004

1		2				i	13	Pneu- monia.		15 Phthisis.		Other Respiratory. Diseases.	
							cken- ox.						
No.	Dis	Districts and Towns.						Deaths.	Ratio.	Deaths,	Ratio.	Deaths.	Ratio.
	т	owns.	-contd.										
	Тн												
18	Mirpurkhas	•••	•••	T. C.	•••	•••	•••	59	5.80	9	*87	2	•20
19	Umarkot	•••	•••	,,	•••	•••	•••	40	10.42	9	2.34	•••	•••
	L.	arkana şi	DISTRICT	•									
20	Larkana	•••	•••	T.C.	•••	•••	•••	79	2:98	24	-89	36	1.34
21	Kambar	•••	•••	1,	•••	•••	•••	6	•62	2	20	•••	
22	Ratodero	•••	•••	"	•••	•••	•••	•••	•••	1	.14		•••
	,	DADU DI	STRICT.										
23	Dadu	•••	•••	T. C.	•••		•••	2	•31	1	.15	2	•31
24	Kotri	•••	•••	•	•••	•••		12	1.50	7	.40	*	•••
25	Sehwan	•••	•••	**	•••	•••	•••	10	1.72	4	-69	•••	
	Sukkur District.												
26	Sukkur	•••	•••	T. C.	•••	•••	•••	128	1.82	52	a: •75	148	2•14
27	Shikarpur	•••	•••	,,	•••	•••		35	•56	1111	1.78	35	•56
28	Rohri	•••	•••	**	•••	•••	•••	22	1.30	9	•53	10	•59
29	Garhi Yasin	•••	•••	y.	•••	•••	•••	4	•54	10	1.35	1	•14
	Upper Si	IND FROM	TIER D	STRICT.				,					
30	Jacobabad	•••	•••	т. с.	•••	····	•••	2	•12	3	•18	•••	
			Total o	f Towns				3,183	4.89	1,099	1.68	1,213	1.86
		Tota	i of the	Province	•••	1	·0002	6,717	1.73	1,584	·31	1,909	•39

No. VI (a)—concld.

22	21		20		19	18		{	17
No	Infant mor- tality rate.	year.	s under 1	Deatl	Deaths	rhoea.	Diar	tery.	Dysen
No.	tality rate. per 1000 births,	Total.	Female.	Male.	from child-birth.	Ratio,	Deaths.	Ratio.	Deaths.
18	140·19	15	8	7	12	•10	1	41	4
19	107-52	10	3	7	8	•26	1		
20	123:06	127	61	66	31	•26	7	-37	10
21	56.88	11	4	7	5			10	1
22	121.05	23	3   9	14	1	•••	•••		
	121 00	20		14	•	•••		•••	•••
23	333-33	25	15	10	5	· <b>4</b> 6	3	•15	1
24	136·36	24	15	9	6	•09	1	-20	2
25	56:34	4	1	· 8	2	•••	···		
26	107:91	274	108	166	33	1.63	113	-30	21
27	235 · 85	529	239	290	56	•21	13	-22	14
28	128•57	.45	15	30	8	•41	7		
29	118:48	25	11	14	7	•14	1	•••	
30	<b>20</b> 2·07	39	10	29	4	•••	•••	•••	•••
	165·81	4,425	1,989	2,436	294	1.25	812	•36	235
	121:31	9,649	4,422	5,227	1,023	•25	975	.08	328

ANNUAL FORM
Deaths registered from Cholera in the Districts

1	•2	]	3		4						
		Ci Reg	rcles of istration.	Vi	llages.						
		each	which Cholera	each	which holera						
No.	Districts.	ü	from rom (	i .g	from rom ( portec				ŀ		
		Number district.	Number from which deaths from Cholera were reported,	Number district.	Number from which deaths from Cholera were reported.	January.	February.	March.	April.	May.	June.
1	Karachi	12	·	1,041		•••					
2	Hyderabad .	. 11	1	870	1						
3	Nawabshah .	. 9		734	•••	•••	<b></b>				•••
4	Thar Parkar	. 13	•••	948	•••	•••		<b></b>			•••
5	Larkana	. 10	•••	2,118	•••	•••		•••	<b></b>		
6	Dadu	. 10	•••	1,047	•••	•••			•••		•••
7	Sukkur	. 12		685							
8	Upper Sind Frontier.	6	•••	1,652	•••	<b></b>			•••	•••	
	Total of the Province	. 83	1	9,095	1	•••		•••		•••	

No. VII.
of the Province of Sind, during each. Month of the year 1936.

9	8		7		ſ	6							5
	1,000 of pre-	ns per ation.	o of death of Popula	Ratio 1,000		Total.							
No.	Mean ratio per 1,000 vious five years.	Total.	Female.	Male.	Total.	Female.	Male.	December.	November.	October.	September.	August	July.
1				•••			•••	•••			•••		•••
2	·0004	-01	•02	•008	8	5	3	•••			•••	2	6
3	·002		•••	•••			l			•	•••		
4	•••		•••						•••	•••	•••	•••	
5	*01	•••			 ¦		•••		•••	•••	<b></b> .	•••	•••
6	•••		•••			<b></b>	•••	·			•.•	•••	•••
7	-002	•••		•••		•••			•••	•••			
8		•••		•••	<b></b>		•••		<b></b>	•••	•••		
	.0006	.002	.003	•001	8	5	3			•••	•••	2	6

ANNUAL FORM

Deaths registered from Small-pox in the Districts of the

1	2		3		4						
		Cir Regi	cles of stration.	Vil	lages.						
No.	Districts.	Number in each District.	Number from which deaths from Small-pox were reported.	Number in each District,	Number from which dealths from Small-pox were reported.	January.	February.	March.	April.	May.	June,
1	Karachi	12	5	1,041	9	3	25	11	22	8	1
2	Hyderabad	11	6	870	9	12	5	1	1	7	1
3	Nawabshah	9	5	734	10	3	2	10	7	2	
4	Thar Parkar	13	7	948	19	2	1	7	4	12	4.
5	Larkana	10	3	2,118	12	2		6	1	1	6
6	Dadu	10	6	1,047	13	13	7	2	3	•••	•••
7	Sukkur	12	5	685	5	•••	•••	3	10	2	2
8	Upper Sind Frontier	6	4	1,653	•••	•••	•••	•••	•••	3	2
	Total for the Province	: 83	41	9,095	77	35	40	40	48	35	16

No. VIII.

Province of Sind during the each month of the Year 1936.

5							6		7	,		8		9	10
							Total.		these !	per of Deaths ong dren.	Tot D	tal rational contraction to the	o of per f	for previous	
July.	August.	September.	October.	November.	December.	Male,	Female.	Total.	Under 1 year.	Under 10 years.	Male,	Female.	Total.	Mean ratio per 1,000 for previous five years.	No
					_						.14	.9.4			
4	1	•••	•••	••	7	48	34	82	8	<b>2</b> 5	-14	•14	14	•26	1
1	•••	•••	•••	•••	•••	16	12	28	5	. 14	•04	•04	•04	•03	2
2	3	1	•••			16	14	30	2	16	•07	.08	•06	25	3
4	•••	5			2	26	15	41	3	17	•10	-07	<b>·0</b> 9	-17	4
6	2	7			•••	23	8	31	7	17	•09	·04	•07	•19	.5
	***	•••	5	2	11	23	20	43,	10	14	•12	•14	'13	-17	6
2	•••	•••	1	•••	1	10	11	21	3	10	-03	.04	.03	•14	7
	2	1	3	8	13	14	18	32	3	20	•10	-11	•12	•03	8
19	8	14	9	10	34	176	132	308	46	133	·· ·07	•07	•07	•22	

ANNUAL FORM

Deaths registered from Fevers in the Districts of the

1	2			3		4						· (
			Cir Regi	cles of stration.	Vil	lages.						
No.			Number in each District.	Number from which deaths from fevers were reported.	Number in each District.	Number from which deaths from fevers were reported.	January.	February.	March.	April.	May.	June.
1	Karachi	•••	12	12	1,041	572	216	272	196	166	215	<b>12</b> 9
2	Hyderabad		11	11	870	870	457	447	465	350	295	284
3	Nawabshah	•••	9	9	734	734	547	506	471	<b>383</b>	362	244
4	Thar Parkar	•••	13	13	948	949	313	401	393	380	313	236
5	Larkana	•••	10	10	2,118	97 <b>3</b>	538	507	504	438	322	246
6	Dadu	••	10	10	1,047	825	375	254	344	262	260	147
7	Sukkur	•••	12	12	685	685	677	506	524	385	359	362
8	Upper Sind Frontie	er	6	6	1,652	529	179	138	173	131	117	87
	Total for the Provin	ce.	83	83	9,095	6,1 <b>8</b> 6	3,302	3,031	3,070	2,495	2,243	1,685

No. IX.

Province of Sind during each month of the year 1936.

5					ļ ļ		6			7		8	9
							Total.		Ratio 1,000	of deaths of Popula	s per	1,000 of	
July.	August.	September.	October.	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,0 previous five years.	No.
124	132	108	122	215	153	1,082	9 <b>6</b> 6	2,048	3.29	3.82	3.23	4.52	1
216	231	223	253	260	310	2,211	1,530	3,741	5·96	5.26	5.64	6.83	2
190	219	221	244	330	361	2,392	1,686	4,078	8.57	7:75	8'20	8.68	8
213	214	191	271	240	238	1,967	<b>1,43</b> 6	3,403	7:51	6.97	7:05	9·32	4
299	270	<b>3</b> 06	<b>38</b> 8	424	325	2,502	2,065	4.567	10.00	12.01	10'09	11.13	5
160	183	172	215	231	255	1,639	1,219	2,858	8:76	8.58	8.24	8•99	6
307	385	328	417	569	487	2,966	<b>2,34</b> 0	5,306	8·49	8.23	8.24	11.70	7
104	111	126	182	192	138	9 <b>2</b> 1	757	1,678	6:33	6:59	- 6.44	8•95	8
1,613	1,745	1,675	2,092	2,461	2,267	15,680	11,999	27,679	7:22	7.04	7:14	8.63	

Annual Form

Deaths registered from Dysentery and Diarrhoea in the Districts

1	2		3		4				- , -		
		R	Circles of egistration.	Vi	illages.						
No.	Districts.	Number in each	fron Incontribo	Number in each District,	Number from which deaths from Dysentery end Diarrhoea were reported.	January.	February.	rob.	1:1	7,	ยื
		 Z	dea dea reel reel	Nui	Nur deg en rep	Jan	Feb	March.	April.	May,	June,
1	Karachi	1	2	1,041	28	38	21	45	73	86	72
2	Hyderabad	1	1 8	870	40	13	12	9	15	25	16
3	Nawabshah		9	734	14	3	3		•••	5	•••
4	Thar Parkar	1	3 12	948	29	2	•••	1	1	4	1
5	Larkana	1	6	2,118	9	3	2	1	•••	1	2
6	Dadu	1	8	1,047	19	2	1	4	5	1	2
7	Sukkur	1	2 12	685	18	15	16	13	17	23	14
8	Upper Sind Frontier		5 3	1,652	5	4		•••	•••	•••	•••
	Total for the Provinc	e. 8	69	9,095	162	80	55	73	111	145	107

No. X. of the Province of Sind during each month of the year 1936.

5							6			7	,	8	9
				·			Total.		Ratio	of death of Popula	s per ation.	1,000 of	
July.	August.	September.	October,	November.	December,	Male.	Female.	Total.	е.	Female.	Total.	Mean ratio per 1, previous five years.	No.
68	91	82	85	56	51	396	352	748	1.50	1.40	1•29	.91	1
26	35	32	17	10	14	125	99	224	<b>`34</b>	·35	•34	.19	2
3	2	3	1	2	3	15	10	25	.05	.05	•95	<b>•0</b> 5	3
2	7	7	3	5	4.	20	17	37	•08	.08	•07	.05	4
4	2	2	2	4	2	13	12	25	•05	•06	•06	.03	5
2	1	2	2	б	4	19	12	31	•10	•08	-09	-04	6
8	18	16	20	21	22	119	84	203	•34	•31	<b>·3</b> 3	·18	7
1	·••		•••	4	1	4	6	10	.03	<b>·0</b> 5	•04	•02	8
114	156	144	110	107	101	711	592	1,303	•33	.34	•34	•23	

ANNUAL FORM
Deaths registered from Respiratory diseases in Districts

1	2			3		4						5
			Cir Regi	cles of stration,	Vil	lages.						
No.	Districts.		Number in each District.	Number from which deaths from Respiratory diseases were reported,	Number in each District.	Number from which deaths from Respiratory diseases were reported.	January.	February.	March.	April.	May.	June,
1	Karachi		12	12	1,041	411	601	607	687	424	337	274
2	Hyderabad		11	11	8 <i>7</i> 0	419	365	526	408	221	180	144
3	Nawabshah		9	.9	734	734	107	109	126	42	26	12
4	Thar Parkar		13	13	948	448	205	290	236	130	62	42
5	Larkana "	•••	10	10	2,118	63	45	29	39	15	10	8
6	Dadu		10	10	1,047	68	50	35	47	27	17	8
7	Sukkur	•••	12	10	685	114	119	147	88	<i>7</i> 0	53	42
8	Upper Sind Frontier	•••	б	4	1,652	20	1	4	5	4	5	•••
	Total of the Province		83	79	9,095	2,277	1,493	1,747	1,626	933	690	530

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No. XI. of the Province of Sind during the month of the year 1936.

9	8,		7			6		1					
	previous	er 1,000	deaths p Populatio	Ratio of		Total.							
No.	Mean ratio per 1,060 of five years.	Total.	Female.	Male.	Total.	Female.	Male.	December.	November.	October.	September.	August.	July.
1	5.42	7:63	7'81	7*48	4,418	1,958	2,460	319	300	207	229	220	213
. 2	2.56	3·91	3·69	4.10	2,597	1,075	1,522	223	130	105	94	113	88
3	•90	1.11	•92	1.28	557	201	356	42	39	21	10	14	9
4	2.44	2:69	2:21	3'06	1,258	456	802	111	56	48	31	35	22
5	<b>'40</b>	•57	•43	'67	257	87	170	29	30	20	7	15	10
6	•87	•83	·75	•88	275	110	165	21	22	14	16	10	8
7	1.14	1-30	1.16	1.47	833	318	515	84	64	49	40	51	26
8	•32	•12	•11	12	30	13	17	3	` 3	2	2	1	•••
	1.98	2.64	2:47	2:77	10,225	4,218	6,007	832	644	466	429	459	376

ANNUAL FORM
Deaths registered from Plague in the Districts of the

1	2			3		4				5		
			Circ Regis	cles of tration.	Vill	lages.						
No.	Districts.		Number in each District.	Number from which deaths from Plague were reported.	Number in each District.	Number from which deaths from Plague were reported.	January.	February.	March.	April.	Мау.	June,
1	Karachi		12	1	1,041	1			4		•••	•••
2	Hyderabad	•••	11	•••	870						•••	•••
3	Nawabshah	•••	9	•••	734	•••				•••	•••	
4	Thar Parkar	•••	13	•••	948				<b></b>	•••	•••	•••
5	Larkana	•••	10	•••	2,118						•••	•••
6	Dadu	•••	10	***	1,047					•••	•••	•••
7	Sukkur	•••	12	•••	685	•••			•••	•••	•••	•••
8	Upper Sind Frontier	•••	6	***	1,652	•••		•••	·	•••	•••	•••
ļ	Total of the Province	•••	83	1	9,095	1		•••	4	•••		•••

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No. XII.

Province of Sind during each month of the year 1936.

<b>*************************************</b>		<del></del>					6			7		8	
							Total.		Ratio of of	deaths r Population	per 1,000 on.	previous	
July.	August.	September.	October.	November.	December	Male.	Female.	Total.	Male.	Female	Total.	Mean ratio per 1,000 of five years.	No.
•••		•••	•••	•••	•••	4	•••	4	-01	•••	<b>'01</b>	•••	1
•••	•••	•••	•••	•••	••	•••	···		•••	•••	•••	•••	2
•••	•••	••	•••	•••	•••	~ •••	•••	•••		•••	•••	•••	. 3
•••	•••	••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	4
•••	I •••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	5
•••		•••	•••	•••	•••	•••	•••	•••		•••	•••	•••	6
•••		•••	•••	•••	•••	•••	•••	•••	•••	•••		•••	7
•••		•••	•••	•••	***	•••	•••	•••	•••	•••	•••	•••	8
•••						4		4	•0001		.0001	•••	

APPENDIX
Statement
Showing the Particulars of Vaccination

No.		Cir	cles and I	Districts.				Population of District according to census of 1931.	- Average population per square mile.	Average number of Vaccinators employed throughout the year.
1			2					3	4	5
1	Karachi	•••	•••	•••	•••	T. C.	•••	<b>2,54,</b> 031	•••	6
2	Do.	•••	•••	•••	•••	C. C.	•••	•••	•••	1
3	Do.	•••	•••	•••	•••	R, C.	•••	46,748		1
4	Tatta	•••	•••	•••		,,	•••	41,020		
5	Do.	•••	•••	•••	•••	T: C.	•••	9,635		1
6.	Mirpur Sacro	•••	•••	•••	•••	R. C.	•••	34,356		1
7	Ghorabari	•••	•••	•••	•••	••	•••	3 <b>7,</b> 976		1
8	Sujawal	•••	•••	•••	•••	••	•••	37,946		1
9	Jati	•••	•••	•••	•••	,,	•••	34,651		1
10	Shah Bunder	•••	•••	•••	•••	,,	•••	39,890		1
11	Mirpur Bathoro	•••	•••	•••	•••	31	•••	42,826	•••	ι
				Karac	hi Dist	rict Total	l	5,79,079		15
12	Hyderabad	•••	•••	•••	•••	т. с.	•••	96,021	•••	1
13	Do.	•••	•••	•••	•••	C, C	•••	4,530	•••	1
14	Do.	•••	•••	•••	•••	R. C.	•••	79,096		1
15	Tando Bago	•••	•••	•••	•••	**	•••	67,998		1
16	Badin		•••	•••	•••	**	•••	89,280	•••	2
<b>17</b>	Dero Mohabat	•••	•••	•••	•••	**	•••	46,638		1
18	Tando Allahyar	•••	•••	•••	•••	••	•••	61,320		1
19	Hala	•••	•••	•••	•••	••	•••	1,13,496		2
20	Guni	•••	•••	•••	•••	11	•••	1,04,545		2
				Hyderab	ad Dist	rict Total	1	6,62,924	•••	12
21	Shahdadpur	•••	•••		•••	R. C.	••	1,03,217	***	2
22	Kandiaro	•••	•••	•••	•••	**	•••	80,814	•••	1
23	Naushahro Fero	ze	•••	•••	•••	••		86,068	•••	2
24	Sakrand	•••	•••	•••		"	•••	62,476	1	1
25	Moro	•••	•••	•••	•••	<b>.,</b>	•••	59,563		1
26	Nawabshah	•••	•••	•••	•••	••	•••	56,270		1
27	Sinjhoro	•••	•••	•••	•••	••	•••	48,201		1
	•									<b> </b>

IV.
No. I.
in Sind during the Year 1936-37.

						Pri	mary Vaccin	ation.	
		mber of persections	ons	Average number of persons vaccinated by each	Total.		Successful		Unknown
	lale.	Female.	Total.	Vaccinator.		Under one year,	One and under six years.	Total of all ages.	
	6	7	8	9	10	11	12	13	14
	7,492	7,185	14,677	6,092	14,720	8,743	3,250	13,020	1,567
lR.	14,980	6,896 36	21,876 73		73	28	31	65	1,307
{P. {R.	37 149	3	·152	225					
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	608 38	553 15	1,161	1,214	1,161	359	706	1,115	46
{ P	537 44	456 22	993 66	1,286	993	361	549	964	26
{ P. { <b>R</b> .	114 26	82 5	196 <b>31</b>	)	197	64	80	177	11
{₽. {R.	<b>300</b> 68	31 <del>4</del> 23	614 91	705	614	317	248	577	37
P. R.	489 3	195 I	684 . 4	688	684	121	546	671	13
{P. {R. P. {P. {P.	484 21	350 15	834 <b>36</b>	870	834	287	484	827	7
P. R. P. R.	402 17	293 1	695 18	713	695	301	365	685	10
ξ̂Ρ.	541 18	417	958 19	977	958	369	471	920	38
{P. R.	543 41	477	1,020 41	1,061	1,020	276	636	1,002	18
{₽. R.	11,547 15,405	10,358 6,982	21.905 22,387	2,953	21,949	11,226	7,366	20,023	1,773
{ P. { R.	1,272 1,788	1,168	2,440	4,987	2,440	1,166	813	1,987	442
ς P.	1,788 29	759 29	2,547 58	86	58	27	25	56	1
lR.	20 1,065	8 780	28 1,845	2,393	1,845	640	1,048	1,738	107
{P. {R. {P.	486 <b>72</b> 2	62 583	548 1,305	1,476	1,305	572	606	1,253	52
{P. {R. {P.	152 1,355	19 1,195	171 2,550	1,359	2,550	, <i>7</i> 19	1,598	2,417	133
{P. {R. ∫P.	133 517	35 44 <b>7</b>	168	1,016	964	251	640	920	44
λR.	45 683	7 454	964 52 1 137	1,409	1,137	517	491	1,016	121
{P. R.	229 1,776	43 1,511	1,137 272 3,287	1,695	3,287	1,594	1,456	3,105	180
P. R. P. R.	86 1,623	17 1,310	103 2,933	1,482	2,933	1,115	1,589	2,763	170
{P. {R.	9,042	7,477	16,519	1,703	16,519	6,601	8,266	15,255	1,250
(R.	2,961	960	3,921	-			<u></u>		
{₽. R.	1,663	1,614	3,277	1,685	3,277	1,683	1,352	3,072	205
{ R. { P. { R.	84 1.571	1,321	94 <b>2,892</b>	3,056	2,892	1,721	881	2,667	225
} R. { P. { R.	143 1,649	21 1,284	164 2,933	1,546	2,936	1,662	1,007	2,699	234
≀R. ∫P.	1 <i>37</i> 859	23 751	160 1,610	1,672	1,610	902	639	1,562	48
{P. R. {P.	53 951	9 845	62 1,796	1,831	1, <i>7</i> 96	934	819	1,766	30
{P. {R. {P.	30 899	5 <b>769</b>	35 <b>1,</b> 668	1,865	1,668	896	644	1,585	79
{P. R. P. R.	158 802 44	39 690 6	197 1,492 50	1,542	1,492	756	617	1,379	113
{P. R.	8,394 649	7,274	15,668 762	1,826	15,671	8,554	5,959	14,730	934

						_	·	Re-Vaccination	•
No.	C	Circles a	nd Districts	•			To .	Successful.	Unknown
1			2				15	16	17
1	   Karachi	•••	•••	•••	т. с.		21,876	•••	21,876
2	Do.	•••	•••	•••	c. c		152	111	•••
3	Do.	•••	•••	•••	R. C.	•••	53	•••	
4	Tatta	•••	•••	•••	R. C.		66	19	1:
5	Do.	•••	•••	•••	T. C.		31	16	
6	Mirpur Sacro	•••	•••	•••	R, C.		91	24	58
7	Ghorabari	•••	•••	•••	••		4	•••	1
8	Sujawal	•••	•••	•••	**		36	2	:
. 9	   Jati	•••	•••		••	•••	18	6	:
10	Shah Bunder	•••	•••	•••	•1		19	2	
11	Mirpur Bathoro	•••	•••	•••	**		41	7	10
			Karac	hi Distr	rict Total		22,387	187	21,98
12	Hyderabad	•••	•••		T. C.		2,547	112	1,70
13	Do.	•••	•••	•••	c. c.		28	28	•••
14	Do.	•••	•••	•••	R. C.		548	38	17:
15	Tando Bago	•••	•••	•••	,,		171	•••	10
16	Badin	•••	•••	•••	**		168	37	6
17	Dero Mohabat	•••	•••	•••	,,		52	•••	10
18	Tando Allahyar	•••	•••	•••	<b>&gt;</b> 1	•••	272	•••	182
19	Hala	•••	•••	•••	**		103	20	32
20	Guni	•••	•••	•••	••		32	1	2
			Hyderal	oad Dist	rict Tota	ı	3,921	236	2,14
21	Shahdadpur	•••	•••	•••	R. C.		94	25	2!
22	Kandiaro	<b>,</b>		•••	**		164	28	24
23	Naushahro Feroze	•••	•••	••	11		160	26	5:
24	Sakrand	•••	•••	•••	**	•••	62	3	25
25	Moro	•••	•••	•••	**		35	13	12
26	Nawabshah	•••	•••	•••	**	•••	197	17	32
27	Sinjhoro	•••	•••	•••	,,		50	3	10
			Nawabsh			]_			

No. I.—contd.

in which twere k	he results nown,	Persons successfully vaccinated per 1,000 of popula- tion.	Total cost of Vaccination Department.	Number of all successful vaccinations and Re-vaccinations performed by the vaccination staff only,	Average cost of each successful case performed by the vaccination staff.
18	19	20	21	22	23
	<u> </u>			1	1
99:31	•••	51:25	•••	•••	•••
89.04	73.03		•••	•••	
100.00		23.85	***		
99.69	38.78	23 · 96	•••	,••	
95.67	61.24	20:31	•••		
100.00	72:73	17:49	•••		
100.00		17:67	•••		
100.00	5.71	21.85	•••		
100.00	46.15	19:94	•••		•••
100.00	14:29	23.11	•••		•
100.00	22.58	23.26	•••	•••	
99.21	46.63	34.90	18,409—4—9	20,210	0—14—7
99•45	13.30	21.86	•••		
98:25	100.00	18•54	•••		•••
100.00	10.13	22:45	***		
100.00		18:43	•••		
100.00	35.92	27.48	•••		
100.00		19:73	•••	•••	
100.00	•••	16.57	•••		
99:94	30.30	27.53	•••		•••
100.00	4°35	26'43	•••		•••
99:91	13.26	23.37	13,570—4—0	15,491	0—14—0
100.00	38.46	30.00	•••	•••	40.
100.00	20.00	32.66	•••	•••	•••
100.00	24-76	31.06	•••	•••	•••
100.00	8.11	25.05	•••		
100.00	56.52	29.87	•••	•••	•••
99:75	10.63	29:47	•••	•••	
100.00	7:50	28•67	•••	•••	•••
99.97	33.68	29.89	9,472—1—9	14,845	0-10-3

īo.		Ci	ircles and 1	Districts.				Population of District according to census of 1931.	Average population per square mile.	Average number of Vaccinators employed throughout the year.
1			2					3	4	5
28	Mirpurkhas	•••	•••	•••	•••	R. C.		47,536	•••	1
29	Samaro	•••	•••	•••	•••	,,		43,779	•••	1
30	Jamesabad	•••	•••	•••	•••	,,		30,745	•••	1
31	Chachro	•••	•••	•••	•••	>>		61,974	•••	1
32	Nagar Parkar	•••	•••	•••	•••	<b>3</b> >		41,726	•••	1
33	Diplo	••	•••	•••	•••	10		25,242	•••	1
34	Mithi	•••	•••	•••	•••	**		45 <b>,70</b> 9	•	1
35	Khipro	•••		•••	•••	,,	•••	<b>51,0</b> 30	•••	2
36	Sanghar	•••	•••	•••	•••	,,	•••	33 <i>,777</i>	•••	1
3 <i>7</i>	Dighci	•••	•••	•••	•••	••		<b>43,05</b> 3		1
38	Umarkot	•••	•••	•••	•••	**	•••	39.628	•••	٠,
39	Do.	•••	•••	0.00	•••	т. с.	•••	3,841		1}
			Tha	r and Park	ar Dıst	rict Total	•••	4,68,040		12
40	Dadu	•••	•••	•••	•••	R. C.	•••	57,549	•••	1
41	Sehwan	•••	•••	•••	•••	•,	•••	45,086		1
42	Johi	•••	•••	•••	•••	,,	•••	<b>51,44</b> 8		1
43	Kakar	•••	•••	•••	•••	••	•••	48,448	•••	1
<b>4</b> 4	Mehar	•••	•••	•••	•••	,,	•••	63,001	•••	1
45	Kotri	•••	•••	•••	,	,.	•••	53 <b>,7</b> 87	•••	1
46	Kohistan	•••	•••	•••	•••	9.	•••	17,374	•••	1
				Da	du Dist	rict Total	•••	3,36,693	•••	7
47	L arkana	•••	•••	•••	•••	т с.	•••	26,841	•••	1
48	Do.	•••	•••	•••	•••	R. C.	•••	71,272	•••	1
49	Kambar	•••	•••	•••	•••	,,,	•••	81,745	•••	1
50	Rato Dero	•••	•••	•••	•••	94	•••	59, <i>7</i> 81		1
51	Miro Khan	•••	•••	•••	•••	,,	•••	47,214	•••	1
52	Warah	•••	••	•••	•••	,,	•••	64,783		1
<b>5</b> 3	Dokri	•••	•••	•••	•••	3)	•••	76,567	•••	1
54 ·	Shahdadkote	•••	•••	•••	•••	••	•••	37,196	•••	1
				Larka	na Dist	trict Total	•••	4,65,399	***	8

No. I.—contd.

						Pri	mary Vaccin	nation.	
		mber of pers accinated.	ons	Average number of persons			Successfu	I.	
Ŋ	Male,	Female.	Total.	vaccinated by each Vaccinator.	Total.	Under one year.	One and under six years.	Total of all ages.	Unknown
	6	7	8	9	10	11	12	13	14
{ P. { R.	849	636	1,485	1,695	1,485	947	466	1,442	43
ξR. {P. {R.	154 639	56 649	210 1,288	1,475	1,288	552	681	1,251	37
۲P.	145 514	42 435	187 949	1,236	949	585	325	867	82
R. (P.	205 1,076	82 890	28 <i>7</i> 1,966	2,089	1,966	1,005	883	1,933	33
{R. {P.	74 417	49 345	123 762	1,541	762	348	348	719	43
ζR. ∫P.	645 4 <i>7</i> 7	134 400	779 877	1,020	877	276	486	792	85
R. P. R. P. R. R.	114 603	29 590	143 1,193	1,280	1,193	439	640	1,101	92
{R. ⟨P.	66 1,018	21 909	87 1,927	1,041	1,927	854	908	1,808	119
{P. {K. {P.	143 640	12 630	155 1,270	1,357	1,270	617	538	1,1°0	90
ì R.	60 644	27 525	87 1,169	1,595	1,169	628	458	1,138	51
{P. {R. {P.	31 <i>7</i> 543	109 484	426 1,027	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,027	570	420	1,006	19
{P. {R. {P. {R.	106 24 3	16 24 1	122 48 4	1,201	48	26	21	47	•••
{P. {R.	7,444 2,032	6,517 578	13,961 2,610	1,381	13,961	6,797	6,174	13,264	694
(D	733	678	1 411	1 597	1,411	918	414	1,360	51
P.R.P.R.P.R.P.R.P.R.P.R.P.R.P.R.P.R.P.R	98 845	28 . 684	1,411 126	1,537	1,550	850	542	1,438	90
ξŔ.	135 848	18	1.529 1 <b>5</b> 3	1,682	1,561	585	860	1,469	92
ξŔ.	9	713  681	1,561 9	1,570	1,489	959	402	1,409	97
{ R.	808 57	2	1,489 59	1,548	-	1,436	796		144.
R.	1,325 176 543	1,145 43	<b>2,47</b> 0 219	2,689	2,471		641	2,325 974	28
ξŔ.	71 273	459 24	1,002 95	1,097	1,002	329	1		50
{R.	137	240 <b>6</b> 4	513 <b>20</b> 1	714	<b>513</b>	1 <b>7</b> 8	<b>2</b> 32	463	
{P. {R.	5,375 683	4,600 179	9,975 862	1,548	9,977	5,25 <b>5</b>	3,887	9,421	552
۲P.	477	399	8 <b>76</b>	1,231	876	509	362	872	4
{R. ∢P.	282 1,104	73 920	355 2,024	4,282	2,024	1,180	588	1,801	219
(R. (P.	778 1,472	1,480 · 1,301	2,258 2,773	3,654	2,773	1,464	955	2,489	283
P.R.P.R.P.R.P.R.P.R.P.R.P.R.P.R.P.R.P.R	793 1,155	88 1,030	881 2,185	3,058	2,185	1,247	729	2,010	175
{ R. ( P.	656 737	217 677	873 1,414	1,944	1,414	981	257	1,244	170
{ R. ∢ P.	479 1,306	51 1,195	530 2,501	4,991	2,501	1,117	869	2,091	378
ξR.	1,770 1,126	720 1,019	2,490 2,145	6,369	2,195	I,295	549	1,863	280
{ R. { P. { R.	3,110 975 67	1,114   853 41	4,224 1,828 108	1,936	1,828	1,083	589	1,687	141
{P. {R.	8,352 7,935	7,394 3,784	15,746 11,719	3,433	15,746	8,876	4,898	14,057	1,650

						_		Re-Vaccination	
īo.		Circles and	d Districts	•			To .	Successful.	Unknown
1			2				15	16	17
28	Mirpurkhas	•••	•••	•••	R. C.		210	84	2.5
29	Samaro		•••	•••	🕽 🕽		187	10	70
30	Jamesabad	•••	•••	•••	••		287	17	9-
31	Chachro	•••	•••	•••	••		123	4	19
32	Nagar Parkar	•••	•••	•••	,,		779	2	20:
33	Diplo	***	•••	•••	••		143	12	5:
34	Mithi	•••	•••	•••	••		87	7	4
35	Khipro	•••	•••	•••	**		155	17	80
36	Sanghar	•••	•••	•••	,,		87	•••	
37	Dighri	•••	•••	•••	••		426	74	102
38	Umarkot	•••	•••	•••	••		122	6	}
<b>39</b>	Do,	•••	•••	•••	T. C.		4	•••	
		Tha	r Parkar I	District '	<b>Fotal</b>		2,610	183	72
40	Dadu			•••	R. C.		126	6	9
41	Sehwan	•••	•••			**	153	26	4
42	Johi	•••	•••	•••	,,		9		•••
43	Kakar	•••	•••	•••	1,	•••	59		2
44	Mehar	•••	•••	•••	"		219	23	14
45	Kotri	700	•••				95	24	2
46	Kohistan	•••	•••	•••	,,	•••	201	8	
			Da	du Dist	ict Total		862	105	33.
47	Larkana				T C	-	255		-44,14.0
48	Do.	•••	•••	•••	T. C. R. C.		355 2,258	6 908	14 <sup>4</sup>
49	Kambar	•••	•••	•••		•	2,256 <b>881</b>	1	170
<del>49</del> 50	Rato-Dero	•••	•••	•••	••	•••	873	.106 279	282
51	Miro Khan	•••	•••	•••	**		<b>5</b> 30	279	28:
52	Warah	•••	•••	***	**		2,4 <b>9</b> 0	328	1,18
53	Dokri	4	•••	•••	**		4,22 <b>4</b>	792	1,189
54	Shahdadkote	•••	•••	•••	"		108	792 26	3:
			Larka			-		2,474	4,737

No. I-contd.

in which	successful cases the results known	Persons successfully vaccinated per 1,000 o f	Total cost of Vaccination Department.	Number of all successful Vaccinations and Re-vaccinations performed by the	Average cost of each successful case performed by the vaccination
Primary.	Re-vaccination.	population.		vaccination staff only.	staff.
18	19	20	21	22	23
100.00	18:38	31 <b>·05</b>			•••
100.00	9.01	28.80	•••	•••	•••
100.00	8.81	28.75	•••	•••	•••
100.00	3.85	31•26	<b></b>		•••
106.00	0:35	17:28	•••		•••
100.00	13·19	31.85	•••		104
100.00	16.67	24-24	•••		45.
100.00	24'64	35.76	•••		39-
100.00	•••	34-94	•••		•••
100.00	23· <b>2</b> 0	<i>2</i> 7 · 69	•••		•••
100.00	5·17	25.54	•••		•••
97·92	•••	12:24	•••		•••
99:98	9.68	28'74	12,262—14—6	13,447	0—14—7
100.00	17:14	23.74	•••		•••
99:92	21.07	32:47	•••		•••
100.00		28.55	***		•••
103.00	51:43	29.10	•••	•••	•••
99:96	29:49	37:27	•••		•••
100.00	34:29	18.55	•••	]	•••
100.00	4.82	27:11	•••	•••	***
99•99	19:77	28.29	7,063—6—0	9,526	0—11—10
10.00	2.04	20.77			
10.0.00	2.84	32.71	•••		•••
99:78	57·54 14·91	38·01 31·75	•••	•••	•••
99·96 100·00	24.05	38.75	•••	•••	•••
100.00	11.84	26.96	•••		•••
98:49	26.22	37'34	•••		•••
99.89	34.89	34.68	•••		•••
100.00	34.67	46.05	•••	•••	•••
99:72	35.43	25.2	11,677-1-6	16,531	0—11—4

No.		C	ircles and Di	stricts.				Population of District according to census of 1931.	Average population per square mile.	Average number of Vaccinators employed throughout the year.
1			2					3	4	5
55	Shikarpur	•••	•••	•••	•••	T. C.	•	62,505	•••	1
56	Do.	•••	•••	•••	•••	R. C.	•••	73,419	•••	1
57	Sukkur	•••	•••	•••	•••	R.C.	•••	66,350	•••	1
<b>5</b> 8	Do.	•••	•••	•••	•••	T. C.	•••	69,277	•••	1
59	Rohri	•••	•••	•••	•••	R. C.	•••	77,826		1
60	Do.	•••	•••	•••	•••	T. C.	•••	16,900		1
61	Ghotki	· •••	•••	•••	•••	R. C.	•••	46,839		1
62	Mirpur Mathelo	•••	•••	•••	•••	••	•••	48,556	•••	1
63	Garhi Yasin	•••	•••	***	•••	••	••	68,674	•••	1
64	Pano Akil	•••	•••	•••	•••		•••	47,287		1
<b>65</b>	Ubauro	•••	•••	•••	••	**	•••	46,146	***	1
				Sukk	ar Dist	rict Total	•••	6,23,779	•••	11
66	Jacobabad	•••	•••	•••	•••	T. C.	•••	15,748	•••	1
67	Do.	•••	•••	•••	•••	R. C.	•••	71,561		1
68	Garhi Khairo	•••	•••	•••	•••	••	•••	<b></b>	•••	1
69	Thul	•••	•••	•••	•••	**	••	61,303	•••	1
70	Kandhkote	•••	•••	٠	•••	",	•••	64,525		1
71	Kashmor	•••	•••	***	•••	19	•••	41,407		1
			Upper Sir	nd Front	ier Dist	rict Total	·	2,54,544	•••	6
					S	ind Total		38 <b>,</b> 87 <b>,</b> 070	•••	80

No. I—contd.

						Pri	mary Vaccii	nation.	
	Total nu v	mber of pers accinated.	ons	Average number of persons vaccinated by each Vaccinator.	· Total.	Under	Successfu One and	l. Total of	Unknown
M	Iale.	Female.	Total.			one year.	under six years.	all ages.	1
	6	7	8	9	10	11	12	13	14
{₽. R.	950 96	914 90	1,864 186	2,050	1,864	1,131	720	1,856	8
{₽. R.	1,448 185	1 <b>,3</b> 62 53	<b>2,81</b> 0 <b>238</b>	3,048	2,810	1,722	757	2,596	214
{P. (R.	1,015 133	972 70	1,987 203	2,190	1,987	1,421	367	1,804	183
{₽. {R.	984 87	902 18	1,886 105	1,991	1,886	1,231	614	1,851	35
{₽. R.	1,257 274	1,105 18	2,362 <b>292</b>	2,654	2,362	1,476	719	2,228	134
{₽. {R.	170 10	206 4	3 <b>76</b> 14	390	<b>37</b> 6	197	167	364	12
{ P. R.	722 20	299 3	1,321 23	1,344	1,321	823	182	1,010	311
{P. R.	773 40	807 1	1,580 41	1,621	1,580	902	611	1,523	57
{₽. R.	1,256 210	1,198 <b>5</b> 0	2,454 260	2,714	2,454	1,664	641	2,352	102
{P. {R.	891 13	724 2	1,615 15	1,630	1,615	984	378	1,370	245
{P. R.	<b>780</b> 35	692 3	1,4 <b>72</b> 38	1,510	1,472	827	511	1,343	129
{ <b>P</b> . {R.	10,246 1,103	9,481	19,727 1,415	1,922	19,727	12,428	5,666	18,297	1,430
{ P. { R.	327 <b>427</b>	296 133	623 <b>560</b>	1,183	623	300	297	601	22
{ P. ℝ.	1,041 269	886 141	1,927 410	2,537	1,927	1,153	692	1,899	28
{₽. {R.	662 58	599 <b>6</b>	1,261 64	1,325	1,261	512	588	1,145	116
{P. {R.	1,309 565	1,162 283	<b>2,</b> 471 848	3,319	2,471	1,171	957	2,226	245
{P. R.	1,196 163	1,028 99	2,224 262	2,486	2,224	1,213	738	2,005	219
{ P. { R.	642 190	<b>5</b> 13 31	1,155 221	1,376	1,155	659	414	1,093	62
 {P. R.	5,117 1,672	<b>4,484</b> 693	9,661 2,365	2,004	9,661	5,008	3,686	8,969	692
P. { P.	65,577 32,440	57,585 13,601	1,23,162 46,041	2,115	1,23,211	64,745	45,902	1,14,016	8,975

						-		Re-vaccination.	
Vo.		Circles and	l Districts	•			Total.	Successful.	Unknown
1		· · · · · · · · · · · · · · · · · · ·	2				. 15	16	17
55	Shikarpur	•••	•••	•••	т. с.		186	49	93
56	Do.	•••	•••	•••	R. C.	}	238	64	55
57	Sukkur	•••	•••	•••	••		203	17	9:
58	Do.	•••	•••	•••	т. с.	•••	105	5	5:
59	Rohri	•••	•••	•••	R. C.	•••	292	2	28
60	Do.	•••	•••	•••	T. C.		14	2	I
61	Ghotki	•••	•••	•••	Ř. C.		23	•••	2
62	Mirpur Mathelo	•••	•••	•••	••		41	2	1
68	Garhi Yasin	•••	•••	•••	19		260	77	5
64	Pano Akil	•••	•••	•••	••		15	•••	
65	Ubauro	•••	•••	•••	**		38	3	1
			Sukk	ur Dist	rict Total		1,415	221	70
66	Jacobabad	•••	•••	•••	т. с.		560	87	35
67	Do.	•••	•••	•••	R. C.		410	61	16
68	Garhi Khairo	***	•••	•••	*1		64	11	4
69	Thul	•••	•••	•••	11		848	185	41
70	Kandhkote	•••	•••	•••	**		262	22	13:
71	Kashmore	•••	•••	***	<b>3</b> t		221	27	7
	1	Upper S	Sind Front	ier Dist	rict Total		2,365	343	1,19
				S	ind Total		46,041	3,864	32,00

No. I.—contd.

ercentage of s in which t were k	uccessful cases the results mown,	Persons successfully vaccinated per 1,000 of popula-	Total cost of Vaccination Department.	Number of all successful vaccinations and Re-vaccinations performed by	Average cost of each successful case performed by the vaccination	
Primary.	Re-vaccination.	tion.	-	the vaccination staff only,	staff.	
18	19	20	21	22	23	
100.00	52.69	30.48	•••			
100.00	34'97	36*23	•••	•••		
100.00	16:35	27.45	•••		•••	
100.00	9:25	26*79	•••	•••		
100 .00	40.00	28.65	•••	•••		
100.00	25.00	21.65				
100.00	•••	21:56	•••			
100*00	7.14	31.41		•••.		
100.00	38*31	35:37				
100.00		28.97			•••	
100.00	15*00	29.77				
100.00	31:21	29.69	11,516—7—0	18,518	0-9-11	
100.00	35*58	40:51	***		•••	
100.00	24.90	27:39	•••		•••	
100.00	47.83		•••		•••	
100-00	42.92	39.33	<b></b> •			
100 00	17.89	31.41	•••			
100.00	18.57	27.05	. 80			
100:00	29:29	36.28	6,393—6—0	9,312	0—11—0	
99.85	27.54	30.33	1,00,759—9—6	1,17,880	0—13—8	

No.		Circ	cles and D		Population of District according to census of 1931.	Average population per square mile.	Average number of Vaccinators employed throughout the year.				
1			2						3	4	5
1	Karachi I	District		•••		•••			<b>3,</b> 15 <b>,</b> 413		8
2	Hyderabad	,,	•••	•••		•••			5,62,373		10
3	Nawabshah	,,	•••	•••		•••		•••	4,96,612		9
4	Thar Parkar	11 ***	•••	•••		•••		•	4.64,199	•••	12
5	Larkana	,, •••	•••	•••		•••			4,38,558		7
6	Dadu		•••			•••		•••	3,36,693		7
7	Sukkur	••	•••	•••		••			4,75,097		8
8	Upper Sind	Frontier	•••	•••		•••		•••	<b>2,38,79</b> 6		5
			Sir	nd Total ex	kcludin	g To	owns	•••	33.27,741	***	66
		Kara	CHI COLL	ECTOBATE					<del></del>		
	Karachi	•••	•••	•••	•••	T.	C.		2,54,031		€
	Do.	•••	•••	•••	•••	c.	c.		•••		1
	Tatta	***	•••	•••	•••	T.	C.	•••	9,635	•	4
						•	Total		2,63,666	•••	7
		Hyder	ABAD COL	LECTOBAI	r.						
	Hyderabad	•••	•••	•••	•••	T.	C.		96,021	•••	1
	Do.	•••	•••	•••	P0.	C.	C.	•••	4,530	<b></b>	1
						•	<b>T</b> otal		1,00,551	•••	2
		NAWAB	SHAH COL	LECTO RAT	e.				•••	•••	•••
		THAR P	PARKAR Co	LLECTORA	TB.						
	Umerkot	•••	••	•••	•••	T.	C.	••	3,841		
							Total	•••	3,841	• • •	•••
		LARK	ANA COLL	ECTORATE.							
	Larkana	•••	•••	•••	•••	T.	C.	•••	26,841		1
						•	Total	•••	26,841	•••	1
	1	DA	ov Colle	CTOBATE.				ŀ	•••	•••	***
		Suki	KUR COLLI	CTORATE.				!			
	Sukkur	•••	•••	•••	•••	T.	C.	••	69,277		1
	Shikarpur	•••	•••	•••	•••	•	,	•••	62.505		1
	Rohri	•••	•••	•••	•••	91	,	•••	16,900	***	1
							Total		1,48,682		3

No. I.—contd.

						Pri	mary Vaccin	ation.	
	Total nu	mber of pers accinated.	ons	Average number of persons vaccinated			Successful	L.	
M	Iale.	Female.	Total.	by each Vaccinator.	Total.	Under one year.	One and under six years.	Total of all ages.	Unknown
	6	7	8	9	10	11	12	13	14
CP.	3,904	3,055	6,959	,			4.005	c Hcs	]
{P. {R. {P. {R.	250 7,741	78 6,280	328 14,021	911	6,959	2,391 5,408	4,005 7,428	6,761 13,212	195 807
R. P.	1,153 8,394	193 7,274	1,346 15,668	} 1,537 } 1,826	1,4021 15,671	8,554	5,959	14,730	934
P. R. P.	649 7,420	113 6,493	762 13,913	} 1,377	13,913	6,771	6,153	13,217	694
R. P.	2,029 7,875	577 6,995	2,606 14,870	3,748	14,870	8,367	4,536	13,185	1,646
R. P. R.	7,653 5,375	3,711 4,600 179	11,364 9,975	1,548	9,977	5,255	3,887	9,421	552
( P.	683 8,142 910	7,459 200	862 15,601 1,110	2,089	15,601	9,869	4,165	14,226	1,375
R. P. R.	4,850 1,245	4,188 560	9,038 1,805	} 2,167	9,038	4,708	3,389	8,368	670
{P. R.	53,701 14,572	46,344 5,611	1,00,045 20,183	} 1,822	1,00,050	51,323	39,522	93,120	6,873
• To	7 400	7,185	14,677			i İ			
P. R.	7,492 14,980 37	6.896 36	21,876 73	6,092	14,720	8,743	3,250	13,020	1,567
P. R. P.	149 114	3 82 5	152 196 31	325	73 197	28 64	31 80	65 177	11
{P. R. P. {R.	7,643	7,303 6,904	14,946 22,059	<b>5,286</b>	14,990	8,835	3,361	13,262	1,578
( R.	15,155	0,304				 			
ξ <u>P</u> .	1,272 1,788	1,168 759	2,440 2,547	} 4,987	2,440	1,166	813	1,987	442
{P. {R. {P. {R.	1,768 29 20	29 8	58 28	} 86	58	27	25	56	1
{P. R.	1,301 1,808	1,197 767	2,498 2,575	} 2,536	2,498	1,193	538	2,043	443
	•••		<b></b>		•••	•••		•••	•••
{P. R.	24 3	24 1	48 <b>4</b>	}	48	26	21	47	•••
{P. R.	24 3	24	48 4	}	48	26	21	47	•••
	477 282	399 73	876 355	} 1,231	876	509	362	872	4
{P. {R.	477 282	399 73	876 355	} 1,231	876	509	362	872	4
<u> </u>	•••	•••	•••		***	•••			•••
{₽.	98 <b>4</b> 87	902 18	1,886 105	} 1,991	1,886	1,231	614	1,851	35
γ. {P. β	950 96	914 90	1,864 186	3,050	1,864	1,131	720	1,856	8
{P. {R. {P. {P. {P. {R.	170 10	206	376 14	390	376	197	167	364	12
{P. R.	2,104 193	2,022 112	4,1 <i>2</i> 6 305	} 1,477	4,126	2,559	1,501	4,071	55

									Re-vaccination.					
lo.		Ci	rcles and	Districts,				Total.	Successful.	Unknown.				
1			2					15	16	17				
1	Karachi	District	•••	•••		•••		328	60	10:				
2	Hyderabad	,,	•••	•••		•••		1,346	96	430				
3	Nawabshah	,,	•••	•••		•••		762	115	19:				
4	Thar Parkar	. ,,	•••	•••		•••	•••	2,606	183	72				
5	Larkana	••		•••		•••	•••	11,364	2,468	4,59				
6	Dadu	••	•••	•••		•••	•••	862	105	33:				
7	Sukkur	••	•••	•••		,		1,110	165	55				
8	Upper Sind	Frontier	•••	•••		•••	•••	1,805	306	838				
			Sin	d Total e	xcludir	g Towns		20,183	3,498	7,77				
		KAI	RACHI CO	LLECTOBA	TR.		-							
	Karachi	•••	•••	· · ·	•••	т. с		21,876	•••	21,87				
	Do.	•••	٠	•••	•••	c. c.		152	111	•••				
	Tatta	•••	•••	•••	•••	T. C.	•••	31	16	:				
						Total		22,059	127	21,881				
		Hydr	EABAD C	LEECTOR.	ATB.		-							
	Hyderabad	•••	•••	•••		T. C.		2,547	112	1,70				
	Do.	•••	•••	•••	•••	c. c.		28	28	•••				
						Total		2,575	140	1,70				
		Naw	авянан С	OLLECTO	RATE.			•••	•••					
		THAR	PARKAR (	Collecto	BATE.									
	Umerkot	•••	•••	•••	•••	T. C.	•••	4	•••	•••				
		T	Co.			Total	•••	4	•••	•••				
	Larkana		Coi	LERCTORA!		т. с.		355	6	144				
						Total		355	6	144				
		T) 4	DU COLL	ዊ መል ይርምር ያ			-							
			KUR COL					•••	•••	•••				
	Sukkur	•••			···	T. C.		105	5	51				
	Shikarpur	•••	•••	•••	•••	"		186	49	93				
	Rohri	•••	•••	•••	•••	"		14	2	93				

No. I—contd.

in which	successful cases the results known	Persons successfully vaccinated per 1,000 of	Total cost of Vaccination Department.	Number of all successful Vaccinations and Re-vaccinations performed by the	Average cost of each successful case performed by the vaccination
Primary.	Re-vaccination.	population.		vaccination staff only,	staff.
18	19	20	21	22	23
99:95	<b>26 9</b> 1	21.63	8,271—10—6	6,821	1— 3— 5
99198	10.22	<b>23</b> •66	10,751— 5—0	13,308	0-12-11
99 <b>·9</b> 7	20.18	29:49	<b>9,472</b> — <b>1—</b> 9	14,845	0—10— 3
99•98	9.70	28.87	12,262—14—6	13,400	014 8
99 <b>·70</b>	36:45	35.69	8,039126	15,653	0 8 3
99:98	19 <i>'77</i>	28:29	7,063— 6—0	9,526	0—11—10
100.00	29'84	30.49	8,707— 2—0	14,391	0— 9— 8
100.00	31 '64	36'32	5,506— 70	8,674	0—10— 2
99:94	28.19	29:27	70,074—11—3	96,618	0—11— 7
99*31	<b></b>	51 <i>-</i> 25	10,637103	13,020	0-12 5
89'04	73.03		***	176	•••
9 <b>5</b> *67	61:54	20:03	•••	193	***
99:21	71:35	50.78	10,137—10—3	13,389	***
99•45	13*30	21.86	<b>2,818—</b> 15—0	2,099	1 5 0
98 <b>·2</b> 5	100.00	18.50	•••	84	•••
99:42	16.09	21.71	2,818—15—0	2,183	***
•••		•••	***	•••	•••
9 <b>7*</b> 92	<b></b>	•••	•••	47	•••
97*92	***	•••	***	47	***
100.00	2.84	32:71	951— 1—0	878	1-1-4
100.00	2:84	32:71	951— 1—0	878	1-1-4
64	. •••	•••	444	***	***
100.00	9 <b>·2</b> 6	<b>26•7</b> 9	1,218 00	1,856	0—10— 6
100.00	52:69	30°48	864 00	1,905	<b>0— 7—</b> 3
100.00	25.00	21.65	727 — 5—0 ———————	366	11—5—10

Vo.		Circles and	l Distri	cts.			Population of District according to census of 1931.	Average population per square mile.	Average number of Vaccinators employed throughout the year.
1			2				3	4	5
	UPPR	e Sind Front	ier Co	LLECTOI	RATE				
	Jacobabad	***	•	••	т. с.	•••	15,748	•••	1
					Total	•••	15,748	•••	1
					Towns Total	•••	5,59,329	***	14
	Inspector's cost	•••	•••	•••	•••	•••	•••		•••
					Sind Total	•••	38,87,070		80
		By Spec	IAL ST.	App.					
	Local Board		•••	•••	•••	•••	33 <b>,27.7</b> 41	•••	66
	Municipalities	•••	•••	•••	•••	•••	5,54,799		12
	Cantonments	•••	•••	•••	•••	•••	4,530		2
					Sind Total	• • •	38,87,070		80
	By Prison Dispe	ensary Staff	•••	•••	***	•••	•••		•••
	By Railway	Do.	•••	•••	•••	•••		•••	
	Private Medical	Practitioners	•••	•••	•••	••			
					Total	••	.,.		•••
					GRAND TOTAL	••			

No. I.—contd.

	, , , ,						Prin	nary Vaccin	ation.	
	Total nur	mber of personated.	ons	num	erage ber of sons			Successful	•	
	[ale.	Female.	Total.	vacc	inated each cinator.	Total.	Under one year.	One and under six years.	Total of all ages.	Unknown,
	6	7	8		9	10	11	12	13	14
{P. R.	327 427	296 133	623 560	}	1,183	623	300	297	601	22
{₽. R.	327 427	296 133	623 560	}	1,183	623	300	297	601	22
{P. {·R.	11,876 17,878	11,241 7,990	23,117 25,858	}	3,498	23,161	13,422	6,380	20,896	2,102
					•••	•••	•••	•••	•••	
{P. R.	65,577 32,440	57,585 13,601	1,23,162 46,041	}	2,115	1,23,211	64,745	45,902	1,14,016	8,975
{₽. {R.	53,701 14,572	<b>46,344</b> 5,611	1,00,045 20,183	}	1,822	1,00,050	51,323	39,522	93,120	6,873
{₽. R.	11,810 17,699	11,176 7,979	22,986 25,678	}	4,055	23,030	13,367	6,324	<b>20,7</b> 75	2,101
{P. R.	66 169	65 11	131 180	}	155	131	55	56	121	1
{P. R.	65,577 32,440	57,585 13,601	1,23,162 46,041	}	2,115	.1,23,211	64,745	45,902	1,14,016	8,975
{P. R.	213 3,791	7 39	220 3,830	}	•••	223	4	2	220	•••
{P. R.	150 1,259	106 270	256 1,529	}	•••	256	103	96	222	26
{P. R.	15 1	8 1	23 2	}	•••	23	19	;	19	3
{P. R.	378 5,051	121 310	499 5,361		•••	499	126	98	461	29
{P. R.	65,955 37,491	57,706 13,911	1,23,661 51,402		•••	1,23,710	64,871	46,000 .	1,14,477	9,004

								Re-Vaccination	•
•		Circ	les and l	Districts.			To .	Successful.	Unknown
			2				15	16	17
	Uррві	r Sind I	FRONTIE	ar Collec	TOBATE.				
	Jacobabad		•••	***	т. с.		560	37	<b>3</b> 5
					Total		560	3 <i>7</i>	35
					Towns Total		25,858	366	<b>2</b> 4,23
	Inspector's cost	·	•••	•••	***		•••	***	•••
					Sind Total		46,041	3,864	32,00
		B¥	Speciai	L Staff.					
	Local Board	•••	•••	•••	•••		20,183	3,498	7,77
	Municipalities	•••	•••	•••	•••	•••	25,678	227	24,23
	Cantonments	•••	•••	•••	•••		180	139	•••
					Sind Total	•••	46,041	3,864	32,00
	By Prison Dispe	ensary Si	aff	•••	•••	•••	3,830	2,347	12
	By Railway	Do.		•••	·		1,529	405	899
	Private Medical	Practitio	oners	***	•••	•••	2		•••
					Total	•••	5,361	2,752	1,022
					GBAND TOTAL	1	51,402	6,616	33,030

No. I.—contd.

in which	uccessful cases the results known,	Persons successfully vaccinated per 1,000 of popula-	Total cost of Vaccination Department.	Number of all successful vaccinations and Re-vaccinations performed by	Average cost of each successful case performed by the vaccination
Primary.	Re-vaccination.	tion.		the vaccination staff only.	staff.
18	19	20	21	22	23
100.00	18'14	40°51	886—15—0	638	163
100.00	18.14	40.21	886—15—0	638	1-6-3
99°43	22:56	38.01	17,603—14—3	21,262	0—13—3
•••	•••	•••	13,08100	•••	•••
99:85	27.54	30.33	1 <b>,</b> 00 <b>,</b> 759—9—6	1,17,880	0—13—8
99*94	! 28 <b>*1</b> 8	29:03	•••	•••	<b></b>
99·47	15*74	37:85	•••	•••	***
93*08	77°22	57 <b>'4</b> .0	•-•		•••
99*85	27.54	30.33	1,00,759—9—6	1,17,880	0—13—8
100.00	63'31		***		***
96•52	64:29		•••	•••	•••
95.00				<b></b>	•••
97:68	63·42	•••		•••	
99.84	36*01	•••	***	***	•••

128
STATEMENT No. I.—contd.

## Summary.

				umber of accinated.		umber of performed.	cases in w	of successful hich results known,
			Primary,	Re-vac- cination.	Primary,	Re-vac- cination.	Primary.	Re-vac- cination.
By Special Sta	.ff (Statement )	ı)	1,23,162	46,041	1,23,211	46,041	99*85	27:54
By Dispensary	Staff (Stateme	ent III).	476	5,359	476	5,359	98'22	63:45
By other Agen	cies, if any		23	2	23	2	95.00	•••
	т	otal	1,23,661	51,402	1,23,710	51,402	99:84	36'01
Average n persons vac each vac	ccinated by		mber of chil ssfully vacci	nated.	Ratio of successful vaccinations	Total cost	of Ave	erage cost
Vaccinators employed,	Persons vaccinated by each vaccinator.	Under yea	one und	he and	per 1,000 of population.	departme		cessful
80	2,115	64	,745	45,902	30.33	1,00,759—9	)6	0138
•••	•••		107	98		***		•••
•••	***		19		•••	•••		
80	2,115	64	.871	46,000	•••	•••		

129
STATEMENT No. 1.—contd.

# Summary.

									<u> </u>			
					umber of accinated,	Total nu operations	mber of perform		Percentage of successful cases in which results were known.			5 S
•				Primary.	Re-vacci- nation.	Primary.	Re-va		Primary		-vac	
Districts excl	uding towns	•••	•••	100,045	20,183	100,050	20,	,183	99:94		28*	19
Towns	•••	•••	•••	23,117	25,858	23,161	25,	858	99:43		22	56
By Dispensar	ry Staff	•••	•••	220	3,830	220	.3,	830	100.00		63•	31
By private M	e Medical Practitioners			23	2	23		2	95.00		•••	
By Railway I	Railway Dispensaries			256	1,529	255	1,	,529	96.52		64.	29
		Total	•••	123,661	51,402	123,710	51,	402	99.84		36	01
Average n persons vac each vac	cinated by	Number o successfu nat	lly	vacci-	Ratio of successful vaccinations	Total c	ost of	al	imber of success-	co e	erag st o	f
Primary.	Re-vacci- nation,	Primary.		e-vacci- nation,	per 1,000 of population.	Departi	ment.		nations rformed.	SUCC	cessi ase.	
1,516	306	93,120		3,498	29*27	Rs. 70,074	a. p.		96,618	Rs.	a. 11	p 7
1,651	1,847	20,896		<b>366</b>	38.01	17,603	14 3		21,262	0	13	3
•••	•••	220		2,347	•••		•		•••		•••	
•••	*.*	19			•••		•				•••	
•••	r •••	222		405	•••	•••	•				•••	
1,540	576	114,477	_	6 616	30•33	1,00,75	9 9 6		121,093	0	13	4

STATEMENT Vaccination

# Comparative Statement No. II, showing the number of persons vaccinated in each

								PERSONS ]	PRIMARILY
Establishments.	Total Number.	Number successfully vaccinated.	Total Number.	Number successfully vaccinated.	Total Number,	Number successfully vaccinated.	Total Number.	Number successfully vaccinated.	Total number.
								YEA	RS ENDED
	1927	-28.	192	8-29.	1929	-30.	1930	)-31.	1931-
Government	•••			<b></b>		•••			
Municipality	13,492	12,086	14,725	12,851	18,046	15,421	16,384	14,174	18,431
Local Funds	81,813	76,923	84,093	79,061	69,725	65,253	82,644	78,096	87,024
Cantonment	67	60	79	79	216	212	84	83	118
Native States	5,167	4,897	5,243	5,000	4,016	3,837	5,065	4,928	5,649
Dispensaries	594	470	854	736	1,302	1,067	1,218	965	771
Army-									
Europeans	•••	***	•••	•••		•••	•••	***	•••
Native	•••	•••	•••	****			••	•••	•••
				·					
Total	1,01,133	94,436	1,04,993	97,727	93,305	85.790	1,05,395	98,246	1,11,993

No. II.
Return.

primarily vaccinated and the number of those persons who were successfully of the undermentioned official years.

VACCINAT	ed.									
Number success- fully vacci- nated.	Total Number.	Number success- fully vacci- nated.	Total Number.	Number success- fully vacci- nated.	Total Number.	Number success- fully vacci- nated.	Total Number.	Number success- fully vacci- nated.	Total Number	Number success- fully vacci- nated.
on 31st l	MARCH.				<u> </u>					
32.	1932-38.		1933-34.		1934-35.		1935-36.		1936-37.	
***			•••				<b></b>		•••	
15,463	21,469	17,558	19,004	15,180	21,334	17,791	22,395	18,926	22,986	20,775
80,316	94,804	89,650	88,707	83,569	90,698	84,656	96,412	89,768	1,00,045	93,120
. 116	91	91	62	62	139	139	60	60	131	121
5,502	6,352	6,215	6,579	6,459	6,406	6,257		•••		
606	1,747	1,398	841	620	334 1	276	521	455	499	461
•••		•••			<b></b>		•••	···		
•••			<b></b> ,			•••				· <b></b>
1,02,003	1,24,463	1,14,912	1,15,193	105,890	1,18,911	1,09,119	119,388	109,209	123,661	114,477

KARACHI: PRINTED AT THE GOVERNMENT PRESS.

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