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Contributors

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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 t orrents 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.

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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 acc ordance 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 :—

		te, Population. Populat		Census Population 1931.	Population Population		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),
dilum is	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	Frontier			2,60,326		14.80		7.10	
Hyderabad			5,73,450	6,61,776	7,08,884	15.83	14.77	12.61	11.62
Nawabshah			4,18,660	4,96,612	5,43,520	15.36	14.02	10:40	9:50
Thar Parka	r		3,96,331	4,68,040	5,06,231	17'32	16.02	11.26	10:63
Sukkur			5,10.292	6,23,779	6,84,305	23.18	21.13	13.06	11.90
	Total		32,79,377	38,76,388	41,94.793	20'52	18.96	12.49	11.54

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 :—

AT BANK		Barn and	De	ATHS.
Age p	eriods.	census	Europeans.	Anglo-Indians
Under 1 year			I	2
1-5 years			I	
5-10 "				I
10-15 "				
15-20 ,,				I
20-30 ,,			A	3
30-40 ,,			2	
40-50 ,,			I	3
50-60 "			I	
60 and over	. ···		4	5
		Total	IO	15

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

15'E	Year.	Cho- lera.	Small- pox.	Fevers.	Dysen- tery and Diarr- hoea.	Respira- tory dis- eases.	Injuries.	All other causes.	Total.
Europeans	1936			2				8	10
Anglo-Indians	1936			I	I	2		II	15

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 Births.	Birth-rates.
1901-10 (Mean)	 66,578	20.77
1911-20 (")	 71,306	20.33
1921-30 (")	 73,693	22.57
1931	 88,261	22.77
1932	 77,976	20'11
1933	 77,789	20.07
1934	 75,729	19.23
1935	 78,843	20.33
1936	 79,536	20'52

5. Provincial 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	•••	32'74		33'53
Assam	,	30.26		,
Bihar Orissa }		35.34		${}^{35^{\circ}34}_{36^{\circ}63}$
United Provinces		36.04		38.99
Punjab		45.57		46.85
Central Provinces		44'93		42.20
Bombaye		37.00		41.40
North-West Frontie	er			32.64
Sind		20.33	•••	20.22

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.

11. Births according to sex.—Out of 79,536 births, 44,175 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.*, 1²² for every 100 live-births. The percentage of still-births to live-births recorded varied from 0²¹ in Nawabshah district to 1⁹⁸ 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 :—

ar.		Deaths.		Death-rate.
(Mean)		68,335		21.62
(")		94,320		26.89
(,,)		56,174		17.23
		46,714		12.05
01		59,067		15.23
		54,239		13.99
		48,489		12.51
		47,249		12.19
		48,425		12'49
	(Mean) (,,) (,,) 	(Mean) (,,) (,,) 	(Mean) 68,335 (,,) 94,320 (,,) 56,174 46,714 59,067 54,239 48,489 47,249	(Mean) $68,335$ (,,) $94,320$ (,,) $56,174$ $46,714$ $59,067$ $54,239$ $48,489$ $47,249$

15. Death-rate as compared with that of other Provinces.— 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		24.50	
Assam		21.41			
Bihar Orissa	}	25.13		{21.68 27.84	
Punjab		24'89		23.97	
Central Provinces		34'35		34.89	
United Provinces		24.78		22.61	
Bombay	J	25.26	,	27.73	
North-West Frontie	er			17.92	
Sind		12.19		12.49	





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 Collectorate.			Death-rate 1935.	Death-rate 1936.	Mean death-rate for previous 5 years.
Karachi			15'31	18.10	15.97
Hyderabad			13.09	12.61	12.16
Nawabshah			10.16	10.40	10.86
Thar Parkar			13.00	11.50	13'57
Larkana			10.01	11.03	13.13
Dadu			9.85	10'92	11'29
Sukkur			13.83	13.06	15'73
Upper Sind Fi	rontier		7.18	7'10	9.88
	Total		12'19	12'49	13.19

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 deathrates 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 :—

	01	193	5-	19:	36.	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	.12	308	•07	\$ 844	.22	
Plague				4	.0001			
Fevers		28,713	7.41	27,679	7.14	33,482	8.63	
Dysentery and Diarrho	ea.	912	-23	1,303	•34	855	.23	
Respiratory diseases		8,654	2*2;3	10,225	2.64	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, smallpox and plague are shown in Chart No. VII.

24. Infant mortality.—The total number of deaths under I 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.

	A		36.	1935.		
Age groups.		Total deaths.	Percentage.	Total deaths.	Percentage.	
Under I week I week to I month I to 6 months		2.088 1,830 3,323	21.64 18.96 34.44	2,220 1,758 2,993	23'01 18'22 31'02	
6 to 12 months		2,408	24'96	1,969	20.41	

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

Province.	Year 1935.	Variation
Madras		Year 1936.
	178.47	 164.04
Bengal	0 0	 170'90
United Provinces	157'20	 148.53
Punjab	155.10	 158.44
Central Provinces	223.54	 234.98
Bombay	163.87	 166.08
Bihar Orissa	} 129'20	 117 [.] 98 205 [.] 43
North-West Frontier		 121'72
Sind	131.26	 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.	Deaths under 12 months.			Births registered.			Infant death rate per 1,000 births,			Infant deaths per 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	125.03	121.31	199-26
1935	4,917	4,023	8,940	44,024	34,819	78,843	111.69	115-84	113.01	189-21
1934	4,776	3,984	8,760	40,212	33,717	75,729	118.77	118.10	117.67	180.66
1933	6,019	5,060	11,079	43,639	34,150	77,789	137.01	148.11	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	142.48	176.24
1929	8,889	7,897	16,786	44,744	35,394	80,138	198-66	223.12	209*46	195.49
1928	6,411	5,144	11,555	44,968	35,354	80,322	142.57	145.49	143.85	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	79,249	175.44	197.37	185.11	233.16

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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.





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 (1931Census). 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 7¹⁴ per mille of population, as compared with 33,482 and with 8⁶3 per mille, the mean for the previous 5 years. Fevers were responsible for 57¹⁶ per cent. of the total deaths.

CHART IV

COMPARATIVE DIAGRAMS OF DEATHS BY CAUSES FOR

MEAN 1931-35 AND FOR 1936.



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

Year.		No. of deaths	5.	Rate per mille.
1926		 47,169		14.64
1927		 38,321		11.75
1928		 39,417		12'12
1929	380	 61,581		18.89
1930	č	 42,426		13.01
1931		 31,080		8.02
1932		 39,728		10.25
1933		 35,742		9'22
1934		 32,147		8.29
1935		 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 .-

Death	h-rate in 19	36.	Death-rate in	1935.
	10.00		8.82	
	8.54		7.81	1
	8.54		9.69	
	8.30		8.03	
	7.05		8.33	
	6.44		6.31	
	5.64	• • •	6.68	
	3'53		3.61	
	···· ··· ··· ···	10'09 8'54 8'54 8'20 7'05 6'44 5'64	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

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		21
Larkana	2	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).





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.

11. 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 :—

Name of Circle.			Cases.	Deaths,	Date of fist case.	Date of last case.	
Karachi		T. C.	 5	3	5th Jan. 1936	25th Nov. 1936	
Jati		R. C.	 I	1	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		т.с.	 1	I	16th April 1936	16th April 1936	
Nawabshah		т. с.	 2	2	16th March 1936	3rd April 1936	
Shikarpur		т. с.	 3	I	18th Feb. 1936	11th Dec. 1936	
Shikarpur	!	R. C.	 I		22nd April 1936	22nd April 1936	
acobabad		T. C.	 I		3rd Aug. 1936	3rd Aug. 1936	
Mirpurkhas		т.с.	 ľ	1	16th Nov. 1936	16th Nov. 1936	
	Total	Sind	 18	II			

Deaths from cerebro spinal fever in urban and rural areas.— The disease prevailed in a sporadic form. Io out of the II 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 mill	e.
1926	 	6,633		2'04	
1927	 	5,706		1.72	
1928	 	6,658		2.04	
1929	 	7,355		2.26	
1930	 and "last	7,249		2'22	
1931	 	6,292		1.63	
1932	 in	8,149		2.10	
1933	 	8,036	•••	2.07	
1934	 	7,399		1.91	
1935	 	8,654		2.23	
1936	 •••	10,225		2.64	

16. Death-rates from respiratory diseases in Collectorates.

Collectorate.	-	1936.	Ratio per mille	1935.	Ratio per mille
Karachi		4,418	763	3,345	5.78
Hyderabad		2,597	3'91	2,182	3'31
Nawabshah		557	I'II	485	1.02
Thar and Parkar		1,258	2.69	1,393	2.99
Larkana		257	57	224	.50
Dadu		275	.83	256	.77
Sukkur		833	1.30	704	1.13
Upper Sind Frontier		30	12	65	.25

17. 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.—In 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.-

Collectorate.			No. of deaths.		
Karachi				685	
Hyderabad			• • • • •	360	
Nawabshah				73	
Thar Parkar		a bas		83	
Larkana				60	
Dadu				72	
Sukkur				240	
Upper Sind Frontier				II	
er e		Total	1,584		

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

21. 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.		Death-rate for 1936.			Quinquennial mean.		
Karachi			2'41		1.92		
Hyderabad			2.38		1.72		
Sukkur			0.75		0.29		
Shikarpur			1.28		1.13		

22. Pneumonia (General Prevalence).—In 1936, the number of deaths registered due to pneumonia was 6,777 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., 2'98 and 2'00, 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		0.02		0.02
Larkana	 	0.02		0.03

Collectorate.		1936.	1926 to 1935 (Mean.)
Dadu		 0.00	 0.04
Sukkur		 0.33	 0.18
Upper Sind	Frontier	 0.05	 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 :—

Y	ear.	
-	OCU .	

Number of deaths.

1926			 789
1927		1	 811
1928			 916
1929			 924
1930			 926
1931			 838
1932			 938
1933			 1,004
1934	8		 916
1935			 884
1936			 873

Causes.		28-55	1936.		1935.			
		Males.	Females.	Total.	Males.	Females.	Total.	
Drowning		91	57	148	93	42	135	
Poisoning		10	3	13	II	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	• I	3	6		6	
Other causes		100	59	159	131	87	218	
Total		617	256	873	637	247	884	

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

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 :—

0		Male.	Female.	Total.	
Drowning		 4	 I	 5	
Poisoning		 2	 	 2	
Hanging		 2	 4	 6	
Wounding		 10	 3	 13	
	Total	 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 :---

		No. of deaths.
 		6,311
 	0 bo	5,903
 		6,204
 		7,815
 191		6,795
 ·		7,123
 		7,658
 		7,473
 		6,886
 	•••	7,47 I
 		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.		No. of deaths.			
1931		Wite		1,297	
1932	ab a *	00duid		1,113	
1933				1,122	
1934				1,027	
1935				979	
1936				1,023	

Collectorates.	Death fr	om Ch	ild-birth 1935-
Karachi	 125		93
Hyderabad	 162		148
Nawabshah	 146		126
Thar Parkar	 112		108
Larkana	 122		132
Dadu	 102		84
Sukkur	 229		248
Upper Sind Frontier	 25		40
Total	 1,023		979

35. Deaths from child-birth by Collectorates .-

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:—

					the second se
Town.			Total No. of deaths from child-birth in 1936.	Total No. of births in 1935.	Total No. of deaths from child-birth in 1935.
		13,937	79	12,603	47
		4,243	17	3,784	22
		2,539	33	2,292	30
		2,243	56	2,144	63
		1,032	31	894	35
		···· ··· ··· ···	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	own.Total No. of Births in 1936.deaths from child-birth in 193613,937794,243172,539332,24356	own.Total No. of Births in 1936.deaths from child-birth in 1936.Total No. of births in 193513,9377912,6034,243173,7842,539332,2922,243562,144

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.





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 ε 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.			Nur	Number of deaths		
1915		 		27		
1916		 		1,23!		
1917		 		449		
1918		 		2		
1919		 		316		
1920		 	·			
1921		 		429		
1922		 		25		
1923		 		9		
1924 .		 		409		
1925		 		I		
1926		 		133		
1927	à	 f logi, hon		I		
1928		 		214		
Particular and the second s						

Year.			Numb	er of deaths
1929	 	(ar 61.4h	(5,411
1930	 			
1931	 			68
1932	 			15
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 '01 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.







(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.

. Expenditure on Cholera.—			
the frem support to Calendar many Country	Rs.	a.	p.
Cost of cholera vaccine	234	8	0
Cost of potassium permanganate and cholera pills supplied to Mukhtiarkars and Local Bodies	283	12	0
Cost of deputation of Special Subordinate Medical Officer for cholera duty to Tando			
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.

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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.		. Nur	nber of death	1S	Death-rate.
1926		no) ed	1,143	m	0.32
1927		a adi <u>in</u> di	336		0.10
1928		in Route	179		0.02
1929	ilion. off	gison	747		0.53
1930	in the		509		0.12
1931	· · · · · ·	di le	795		0'21
1932			1,553		0.40
1933			1,093		0.58
1934		×	209		0.02
1935			571		0.12
1936	mda		308		0.02

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 :--

Collectorat	е.	dianiti	stand	Cases	Deaths.	Death-rates.
Karachi		Laiseal		308	82	0'14
Hyderabad				151	28	0'04
Nawabshah				154	30	0.00
Thar Parkar	1022			254	41	0.00
Larkana				188	31	0.02
Dadu				254	43	0.13
Sukkur				81	21	0.03
Upper Sind Frontier				192	32	0'12
	70'0	Total		1,582	308	0.0,

1947 as ngainst 35.41 in the

11. Deaths from small-pox in urban and rural areas.— Out of 26 towns and 9,095 villages in Sind, 7 towns and 70 villages were affected with small-pox. Amongst towns high deathrates 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 smallpox 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.	Nu	mber of deaths.	Year.	N	umber of deaths '
1918		190,217	1923		37
1919		1,008	1924		39
1920		552	1925		30
1921		327	1926		20
1922		128	1927		26
1921		327	1926		20

Year.	Number	of deaths.	Year.	Num	ber of deaths.
1928	1	45	1933		5
1929		12	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.

I. 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).

1. Number of Medical Officers of Health.—Medical Officers 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 :--

	1	ncon	ne.	Т	axati	on.	
	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	 II	9	II	 4	4	II	

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. 2-9-6 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 Fre	ontier		 4
		Total	 49

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 :--

Collectorat	te.	Nu	mber of deat	hs.
Karachi		 	265	
Hyderabad		 	197	
Nawabshah		 	59	
Thar Parkar		 	133	

Collectorate	e.		N	umber of deaths
Larkana		i hand berri		141
Dadu				172
Sukkur		enter en la territ		621
Upper Sind Fr	ontier			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.

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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 C ommissioner 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.

Rs.

a.

D.

- (2) Quinine hydrochloride treatment sold to 4,713 12 0 Government departments.
- (3) Quinine sulphate tablets sold to Local 1,125 0 0 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.

1. School Hygiene and Medical Inspection of School 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 Heaith 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:—

- 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.





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.

10. Compulsory Vaccination.—During the year under report, 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	noden, n	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		2.00	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-Bacteriological 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.

Kind of samples	1932	1933	1934	1935	1936
Chemical examination of water	1,149	1,181	1,118	1,098	895
Bacteriological examination of water.	1,903	2,244	2,722	3,005	1,508
Public Analyst's work (Articles of		1,522	1,211	2,349	3,940
food under the Adulteration Act.) Food stuffs (other)	893	174	228	96	120
Diagnostic work	543	1,293	2,405	2,150	3,541
Miscellaneous work	61	66	93	53	2
Total	4,549	6,480	7,777	8,751	10,006

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

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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.

4. 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.

		Vessels.			Crew and passengers.		
-	7. 8	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
	Total	 395	482	877	65,912	5,962	71,874

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

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 an y ship or country craft in the harbour during the year under reference.

12. Small-pox.—One case of smallpox occurred amongst the 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
219	Carlo (1081 and 1	The loss of the loss	1000	C.S. C.	10-
1.	S. S. "Jalaputra" .	. 29th Feb. 1936	Bombay	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			I
5.	S. S. "Vasna"	25th April 1936	Bombay	I	I
6.	S. S. "Falkenfels".	5th May 1936	Bombay	1	
7.	S. S. "Vita" .	11th May 1936	Bombay	1	
	ener and and and	The second second	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—	and any house advantation
H.T. " Somersetshire " .	This vessel arrived from South- ampton with one case and two con- valescent 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 Autho- rities

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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 harbour, 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 in- fant,	Broncho-Pneu- monia.	Died on 13th September 1036. 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 Traffic.—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	P.S. "Islami"	 4th Nov. 1935	122			
2	P.S. " Alavi "	 25th Nov. 1935	358			
3	P.S. " Islami "	 14th Dec. 1935	460			
4	P.S. "Akbar"	 12th Jan. 1936	1,402 sailed direct			
5	P.S. " Alavi "	 19th Jan. 1936	from Karachi. 1,033 Do.			
6	P.S. "Rizwani"	 25th Jan. 1936	658			
7	P.S. " Khosrou "	 3rd Feb. 1936	701			
8	P.S. " Islami "	 13th Feb. 1936	522			
9	P.S. "Akbar"	 17th Feb. 1936	891			
		Total	6,147			

22. The importance of Karachi, as a pilgrim port, is increasing 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 :---

Number of pilgrims embarked 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.

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.
			2nd March 1936	1.641		7	SKA	1	1,634	8.10
1	P.S. "Rizwani"					1		1 10 30	14	
2	P.S. " Khosrou "	2	5th March 1936 .	1,400		10		4	1,390	
3	P.S. "Akbar"	2	nd April 1936	1,395		10		8	1,043	342
4	P.S "Alavi"	9	th April 1936	1,043		1		12	679	363
5	P.S. " Islami "	2	2nd April 1936	1,612	145	5		6	832	630
6	P.S. " Alavi "	7	th May 1936	1,043		6		2	756	281
7	P.S. "Jehangir "	1	8th May 1936	1,043		10		8	781	252
8	P.S. " Alavi "	8	th June 1936	277	14	2		2	135	126
9	P.S "Jehangir"	9	th August 1936	299		2	·	2	158	159*
	544-740 - 140		Total	9,753	159	53		45	7,408	2,153

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

* 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. 49

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 p m.
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.

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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.).	1st January 1936 to 31st December 1936.	
Officer In-charge, Chemico- Bacteriological Labora- tory, Karchi.	Mr. B. Bhujanga Rao, M.B.,B.S., B. Hy. (Bom.), D.T.M. (Cal.).	1st January 1936 to 26th March 1936.	
Do. do	Capt. E. Benjamin, D.P.H	27th March 1936 to 11th November 1936.	Officiat- ing in a d d i-
Do, do,	Mr. H. C. Hiranandani	12th November 1936 to 31st December 1936.	<pre>> tion to t h e i r own du- ties.</pre>

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. Sanitary 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 1 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 measures. 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

							Rurs	areas.			
			М	edical offic	ers of Healt	h.	pe lo l	ndiale	Vaccinators.		
Districts.			Holding D. P. H.		Licen L. P.		Epidemie staff.	Sanitary and Health Ins-		HOITS	
			Whole time.	Part time.	Whole time.	Part time.	anniosi	pectors.	Male.	Female	
		117	2	- 3	4 5		6	7	8	9	
Karachi				····					9		
Dadu			·						8		
Iyderabad				·····					11		
			NUOW 1		Vines					2 AUTON	
Nawabshah			· · · ·						10		
fhar Parkar								····	13		
Larkana					1 Holding M.B., B.S.,			1	9	1	
			1000		degree.		BURN IN	10105			
Sukkur							`		9		
Upper Sind F	rontier								6		
	Total				1			1	75	1	

Table showing Health Services in Rural and Urban

	-		Urban areas.													
		Me	dical Offic	ers of Heal	th.		Vacei	inators,			-					
School medical Officers-	Other Health staff.	Holding D. P. H.			tiates H. S.	Sanitary and Health Ins-	Male.		Ins- ipectors of vacci-	School Medical Officers.	Other Health staff.					
		Whole time.	Part time.	Whole time.	Part time.	pectors.	Maie.	Female.	nation.	(in a bring						
10	11	12	13	14	15	16	17	18	. 19	20	21					
		4				8	4	2								
		1				4	1		1 (Supe- rinten-							
							100		dent of Vacci- nation).							
						1										
						1	1									
		2				7	3									
						1	1									
		7				22	10	2	1							

areas in the Province of Sind during 1936.

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.

	-	N	fatern Centr	ity and es mair	Child ntainad	Welfar by—	е.					inter second	
Districts.					Local and Municipal bodies.		her cies.	Trained visitors.		Trained midwives.		Trained dais.	
H 4		Rural.	Urban.	Rural.	Urban.	Rural.	Urban.	Rural.	Urban.	Rural.	Urban.	Rural.	Urban.
Karachi				2		2			4	6	4	2	6
Dadu				4	1	1	61			1	2	3	
Hyderabad					1				1				4
Nawabshah											1	4	
Thar Parkar											····.		4
Larkana				10	1		2			3		17	
Sûkkur	····			2	2	2	3		3	4	14	1	27
Upper Sind Fron	tier			1			2			1	2		
Tota	al			19	5	5	7		8	15	23	27	41

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Statement showing the annual Income and Expenditure of Institutions Under the Public Health Department,

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	-	-	Total,	1.500	8,683 Non-Voted. 6,371 Voted.	18,814 Voted.	47,121 Voted.	Non-Voted. Voted.
		21.0		Rs.	8,683	18,814	47,121	8,683 Non-V(1,42,306 Voted.
	ro.	Other charges including ex-	Medical officer Medical officer appointed on Malaria and Vaccination duties and Quinine, etc.	Rs.	28,095		:	28,095
	Expenditure.	isonn Gi Cab	Grante-in aid.	Rs.	12,316	1	5,512	17,828
		11.0	Contin- gencies.	Rs.	} 3,430	6,245	1	3 9,675
.15-			Allowan- ces.	Rs.	817 5,723	1,065	10,972	817 17,760
. 12 and the sur you ing unit	i di	ries.	Pay of Establish- ment fincluding menials,	Rs.	} 19,220	8,711	30,637	8,508
S and yo		Salaries.	Pay of officers.	Rs.	{ 7,687	2,793	:	7,866 10,380
			Total.	R8.	7,693	16,774	29,506	58,973
		(n) (0	Recovery of over payment.	Rs.	:		:	
	Income.		Miscel- laneous,	Rs.	125	830	1	965
	Ir		Contribu- tions	Rs.	:	15,944	29,506	45,450
		Sale proceeds of	Sera Vaccines, etc., quinine and Malaria Posters,	Rs.	2,508		1	899'4
			Name of Institute.		Director and Assistant Director Public Health.	Chemico-Bacteriologi e a l Laboratory.	Local Vaccination Estab- lishment.	Total
		1	No.		1	04	60	

APPENDIX

1	2		5 2 8	8			4			
No.	Distr	int	Population	n according to of 1931.	Census	Number of Births registered.				
NO.	L'IBLI	106-	Male.	Female.	Total.	Male.	Female.	Total.		
1	Karachi		3,28,679	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	5,943	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 Fro	ntier	1,45,588	1,14,738	2,60,326	2,250	1,604	3,854		
9	Town Cricles		. 3,76,948	2,73,809	6,50,757	13,860	12,814	26,674		
10	Rural Cricles	1	17,95,954	14,29,677	32,25,631	30,315	22,547	52,862		
11	Grand total of t	he Province.	21,72,903	17,03,486	38,76,388	44,175	35,361	79,538		

FORM NO. I.-Annual Statement showing the Births registered

ANNUAL FORM NO. 1. (a) showing still-births registered according

						Still-b	irths.	-	
erial No-	Distr	icts		Muham	madans	Hin	dus-	Ja	ins.
				Male.	Female.	Male.	Female.	Male.	Female
1	Karachi			92	73	106	63		
2	Hyderabad			25	18	91	61		
3	Nawabshah			. 1	5	8	2		
4	Thar Parkar			7	7	4	3		
5	Larkana			22	22	31	24		
6	Dadu			6	6	8	9		
7	Sukkur			29	22	114	80		
8	Upper Sind Fi	rontier		,1	3	·	2		
	Total for the	Province		183	156	362	252		

	5			6		
Ratio o	f Births per 1,000 of Po	pulation.	Mean Ratio o prev	o of Births per 1,000 during revious five years.		
Male.	Female.	Total.	Male.	Female,	Total.	
16.34	14.53	30'77	14.63	13-19	27-85	
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	20-85	
13.14	10-47	23-61	11,74	9-07	20.81	
11-31	8.12	19-43	10'42	7-81	18-2	
22.83	18-52	41-35	13.09	10-55	23*64	
8.64	6.16	14.80	9-41	7.02	16-43	
21 .30	19-69	40-99	19.07	17'09	36.16	
9-39	6.99	16.38	9-91	7.20	17:41	
11.40	9.12	20.22	11.45	9.11	20.56	

in the Districts of the Province of Sind during 1936.

III.

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

Percen- tage Bat to Live		Total.		Classes,	Other	rsis.	Pa	tians.	Chris
births.	Total.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.
1.0	354	145	209	2	3		2	2	6
1.80	199	82	117						1
*21	16	7	9						
.28	21	10	11						
-86	99	46	53			*			
-44	29	15	14						
1.65	245	102	143						
1.20	. 6	5	1						
1.20	969	412	557	2	3		2	2	7

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		9					-			
- 1		2				3	per &		5	
	interest of					les.	d u	Num	nber of de registered	aths L
aber.	2 Allowed	Distri	iets.			square miles.	s population mile.			
Serial number.						Area in sq	Average P	Male.	Female.	Total
- 00							4	~		F
1	Karachi			R. C.		1,615	23	226	194	420
2	Tatta					1 910	46	189	137	326
3	Mirpur Sakro			,		1 100	30	180	121	301
4	Ghorabari					990	69	94	101	195
5	Keti Bunder					010	63	68	59	127
6	Mirpur Bathoro					070	158	269	209	478
7	Sujawal			,		800	14	269	170	439
. 8	Jati					1 488	23	218	166	384
9	Shah Bunder			,,		1 000	29	276	205	481
10	Karachi			T. C.				(3,817	3,270	7,087
11	Karachi			0. 0.		1 62	4,098	1 76	49	125
13	Tatta			T. C.				73	53	126
				District Total		0.000	72	5,755	4,734	10,489
13	Hyderabad			R. C.		. 366	212	456	337	793
14	Guni			,		. 987	106	465	337	802
15	Tando Bago			31		650	105	282	164	446
16	Badin			"		. 792	113	436	297	733
17	Tando Allahyar					595	103	493	362	855
. 18	Hala			"		. 511	233	639	449	1,088
19	Dero Mohbat					498	94	356	236	592
20	Hyderabad			т. с.		h	- 994	\$1,545	1,274	2,819
91	Hyderabad			C. C.		. } 18	5,334	20	11	31
22	Hala			т. с.				39	21	60
23	Matiari			,,				76	57	133
			Hyderabad	District Total	a	3,888	128	4,807	3,545	8,352
24	Shahdadpur	100		R. C.		501	194	011	459	1.103
24 25	TT					104	184	644	459	1,103 975
25 26	Naushahro Feroze			,		400	200	543	432	
26 27	Man					400	175	488	399 937	887
27 28	Calmand						124	319 957	237	556
28	Namahahah					0.00	124	257	139	396
	Chilbana	**				1	161	263	173	436
30 31	Tanda I dam	-			•••		161	370	243	613
31 32				T. C.				97	74	171
32	Nawabshah		 Nawababab	 District Total				13	13	26
			Nowohenne	District	d	3,888	128	2,994	2,169	5,163

Annual statement showing the Deaths registered in the districts

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No. II.

						6						7	
				Desting	per 1,000	of nonvi	ation from	m					
				Deatins	per 1,000	or popula			Dinita			ratio of d	
	x.			r and	ory di-		other		Il causes	l.	previ	ous five y	ears.
Cholera.	Small-pox.	Plague.	Fevers.	Dysentery Diarrhœa.	Respiratory seases.	Injuries.	All causes.	Male.	Female.	Total.	Male.	Female.	Total.
			6-85		2.61	.13	1-69	11-29	11-27	11.28	9.44	9.24	9.35
	'16		3.24	.10	2.16	.12	-62	6.56	6'20	6.40	6.31	6.01	6.18
			3.00	.12	3.44	·24	1.87	9.59	7.76	8.76	10.60	9-89	10.27
			3-72		3.32	.08	·86	6-91	9.33	7'98	10-44	10-44	10-44
			3.25	.59	2'95	.37	2.21	9.39	9.33	9.37	11.40	9.80	10.69
	.35		5-98	.05	3.29	•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	10.17
			6.03	·17	4.03	-38	-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	-43	10-36	26.31	31-82	28.60	21.73	26.20	23.58
			5.88	1.12	2.59		10-44	20.20	19-34	20.03	15.37	17.37	16.02
	·21		3.65	.62	5.30	'10	3.22	14.28	11.73	13.10	13.10	11.72	12-45
	'14	.01	3.53	1.29	7.63	•28	5.33	17.51	18-77	18.10	15.38	16.70	15.97
	·01		5.65	·10	8.27	.15	-99	10-48	9-78	10-17	10.98	. 10.91	10.95
	.05		4-44	.17	2.24	.13	·65	7.91	7-36	7'67	9-05	8.65	8.87
	.10		4.31	-05	1.24	.13	-73	7.59	5.54	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
*18			9.36	-23	2.65	.19	1.38	14.50	13.25	13-94	13.78	12.84	13.37
			7.18	•23	2.64	-08	.80	11-29	10-45	10.93	10.32	10.66	10.46
	.02		8.04	•17	3.75	•34	·64	13.86	12.26	12'96	12.22	11.30	11.81
	.05		3.12	1.51	12.44	.68	11.55	28.96	29.84	29.35	2		
			4.63		•66		1.55	7.58	6'07	6.84	3 23-97	25'04	34-44
			4.93		2.19		1.09	9.87	6-25	8.21	9.62	10.13	9.72
			7-01		8.22	.29	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	.72	12-65	11.82	12.29	11.20	11.02	11-12
	.29		9'76	•06	•68	·16	1.11	12.27	11 81	12.06	11.57	12'00	11.74
			8.14	.05	'98	-25	·89	10.29	10'32	10.31	10.17	10.01	10-09
			7-64	.02	.81	.18	•65	9-70	8.90	9-33	9-57	9.30	9-45
			5.27	•06	•59	.17	*25	7.16	5'23	6.34	8-19	8.01	8-23
	-06		7.79	•04	.61	·21	.14	9.26	8.44	8.82	10'32	9-35	9-91
	.02		10.52	-02	1.37	.25	-54	13.53	11.62	12.72	15-56	14.60	15-12
			4.83	-22	4.39	.22	3.04	12.76	12-60	12.70	17.40	19-89	18-48
	.14		1.57		1.14		.82	2.99	4.83	3.70	6'00	6.10	6.18
	•06		8-20	.02	1.11	·25	-73	10.76	9-97	10-40	10.93	10.78	10.86

of the Province of Sind during the year 1936.

1		-	2				1	3	4	11111	5	1977
-									per		ber of dea	
							- 1	ailes.		re	gistered.	
÷							-	Area in square miles.	e population mile.			
nmbe			Distric	nts-			-	mbs	lod			
Serial number.								ni si	Average square n	le.	Femalo	Total.
Seri			-		1		1	Are	AVG	Male.	Fei	To
							1					
33	Umarkote					R. C.		1,459	30	298	211	509 420
34	Jamesabad					.,		505	· 61 22	227	193 250	566
35	Chachro							2,797	22	316 298	261	559
36	Nagar Parkar							1,618 1,503	16	199	130	329
37	Diplo					"			29	268	231	499
38	Mithi							1,562	29	253	129	382
39	Khipro							818	41	205	139	360
40	Sanghar Mirpurkhas							415	115	241	152	393
41	1000 100000		***			"		483	91	291	173	464
42	Samaro					"		225	191	378	248	626
43	Digri Umarkote					" T. C.				57	53	110
44	Mirpurkhas						•••			99	62	161
GIE	Mirpurkhas			 har Parkar	Dietri	",		13,936	34	3,146	2,232	5,378
	N. Incl			uat Fainat	Distric	ou rotar		10,000				
46	Larkana					R. C.		217	329	407	323	730
47	Warah							380	148	395	283	678
48	Dokri							326	235	544	416	960
49	Kambar							479	173	465	394	sta
50	Mirokhan							288	164	253	299	552
51	Ratodero							214	241	355	282	637
52	Shahdadkot							577	58	170	130	300
53	Larkana					T. C.			13,420	250	226	476
54	Kambar									47	32	79
55	Ratodero									70	56	126
	1000			Larkana	Distri	ct Total		2,477	150	2,956	2,441	5,397
	-						11					-
56	Kotri					R. C.		1,496	22	239	210	419
57	Kohistan					,,		1,806	9	77	60	137
58	Sehwan							1,273	35	372	283	655
59	Johi					"		755	68	324	248	-572
60	Dadu					,,		297	194	272	218	490
61	Kakar							448	108	299	201	- 500
62	Mehar							364		368	274	642
63	Kotri					T.C.				42	43	85
64	Sehwan									21	20	41
65	Dadu									41	38	79
	and a			Dad	a Distr	iet Total		6,439	51	2,055	1,595	3,650

No. II-contd.

						6					1	7	TT
				Deaths	per 1,000	of popula	ation fro	m			Mean	ratio of	deaths
				and	y di-		other		All cause	8		ious five	
Cholera.	Fmall-pox.	Plague.	Fevers.	Dysentery Diarrhoa.	Respiratory seases.	Injuries.	All causes.	Male.	Female.	Total.	Male.	Female.	Total.
	1		0.02					10.07			1	1	
	-09		8-83 9-01	·15 ·16	2.45	·20 ·33	1.21	13.37	12·16 14·23	12'84	13.70	12.68	13-22
			7.21	.03	1.00	.08	.79	9-51	8.69	9.13	15.88	15'49 11'58	15'70
	-28		8.60	.12	3.21	19	.99	13-13	13-48	13-39	12 19	10-91	12.81
	-39		7.60	-05	3'64	'20	1.15	14-48	12.17	13-03	17'83	17.04	11-62
	02		8.88	-04	.72	-20	1.05	10-99	10.82	10-91	15-31	14.78	15:22
	.16		4.39	•08	2.09	.10	.66	8-61	6-02	7.48	11.28	11-15	11-40
			5.18	-06	3.82	-24	1.36	11:04	10-10	10.66	10-74	10-96	10.83
	·16		5.24	-03	3.24	'16	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	10'68	10.19	10-46
			8.90	-05	8-95	-24	1.40	15-63	13.14	14-54	17.98	17.11	17.60
			12.50	'26	12.76		3.12	27'84	29.54	28-64	22'47	23-35	23.16
			5.30	.21	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	11.28	13.90	13-18	13.57
			9-01	*03	*32	'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	'5 3	12.85	11.74	12.54	12.52	11.97	13.27
	·01		11.35		.02	.22	-29	11.72	12.18	11.92	10.10	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	14.52	14.86	14.87
			7.94	'06	·36	.17	'45	9.18	8'94	8.08	12.00	10.96	11.54
			4.73	-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	11.93	12.55	13.35	13*13
				-									
	-61		10*21		-89	.30	1.45	13.02	13.20	13.26	14.03	13-11	13.64
	•40		3.63	'12	1-37	-23	2.13	8-25	7-46	7.88	7.07	6.71	6.90
	-23		11.20	.18	2.26	-41	2.09	16.95	16'36	16.67	13-90	14.40	14.17
7	.03		9.30	.08	75	-23	.74	11-41	10.23	11.12	10.00	10.22	10.63
			8-40	·04	.45	-27	'45	9.30	10'17	9.61	10.92	11.48	11.15
			9.12	·13	-20	·21	·66	11.50	9 24	10.32	11'53	11 12	11.35
	.14	[7.59	•05	-31	-28	.74	9-26	8.91	9.11	10.01	11'68	10.73
	·20		4.29	-29	1'90		1.79	6.77	11.22	8.47	9-99	11.22	10.56
			3.45		2-41		1-21	5.97	8.32	7.07	7.10	9.66	8.11
			8'08	-61	•77	-15	2-43	11.96	12.12	12.04	2.04	1.59	1.83
	.13		8.24	-09	•83	*26	1.07	10-98	10.84	10.92	11.16	11-47	11.29

1		2			1	3	4		5	
2010					1	niles.	tion per		ber of de egistered	
Serial number.		Districts.				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 Mathelo			. ,,		1,604	- 30	305	202	507
73	Ubauro			. ,,		462	100	354	281	635
74	Sukkur			. т.с.		3	23,092	591	395	986
75	Shikarpur					9	6,745	898	764	1,662
76	Rohri							102	60	165
77	Garhi Yasin			,,				68	61	125
	1 0000 1 10-00 10		Sukkur Dist	rict Total		5,008	111	4,544	3,602	8,140
78	Jacobabad			B, C.		254	157	174	147	321
79	Garhi Khairo			,,		273	135	141	152	29:
80	Kandhkot	int fatol.				542	119	208	141	349
81	Thul					497	63	247	209	456
82	Kashmor	101 101 10				543	76	153	124	273
83	Jacobabad			T.C.				79	75	15
(Incl)			Frontier D st			2,109	123	1,002	818	1,850
			otal of all To			94	265	8,121	6,707	14,828
	and a state of the	Т	otal of all Ru	ral circles		46,569	69	19,138	14,459	33,59
	1 5000 1 63 M		Total of the			46,663	83	27,259	21,166	48,42

No. II-concld.

			Г)eaths pe	r 1,000 of	populati	ion from					ratio of	
		-	1	and	y di-		other		All cause	8.		1,000 dui ous five y	
Cholera.	Small-pox.	Plague.	Pevers.	Dysentery Diarrhoa.	Respiratory scases:	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	10-21	10.32	12.88	13.39	13.11
			3.77	.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	1.26	.13	.87	13-79	13.36	13.59	19.45	19.67	17 53
	.02		8.62	·06	-62	-21	·68	9.76	10-76	20.21	13.13	13.07	13.00
			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	13.78	15.73	16.12	15-94
			2.96	1.93	4'68	-45	4.21	13.62	15.20	14.23	12.68	14.77	13.45
	-03		7.35	-43	2.77	·30	15.70	26.61	28.56	26.58	24.06	25.38	24.67
			5.33	-41	2.43	.06	1.36	10.04	8.90	9.58	12-30	14-98	13-31
			11.80	14	2'03	-27	3.26	18-08	16.90	17.50	22.06	25.76	23.88
	.03		8.54	.33	1.30	•21	2.65	13.01	13-12	13.06	15-26	16.33	15.73
	.15		7.73	·	.05	-05	-07	7*81	8.32	8.05	10.51	11.63	11.01
			7.31			'26	·18	6.83	9.01	7.75	7.27	6.83	7.07
	.02		4-92	.02	.17	.20	.08	5.74	4.98	5.41	9.38	9.25	9.33
	*05		6-83	.08	.07	.15	.25	7.26	7.66	7.43	9.93	10.20	10.21
			5-90	.09	.19	.19	.31	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	-89	8.41	21.54	24.49	22.78	18.88	21.94	20.16
.002	.07		7.81	.08	1.46	·19	.79	10.68	10.12	10.40	11.82	11.74	11.78
•0002	·07	·0001	7.14	-34	2.64	·23	2.07	12.54	12.43	12.49	13.04	13-38	13-19

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L (IV) 2477-9

					January.	February.	March.	April,	May.
A,-D1	STRICTS ((EXCLUDING	TOWN	s).					
Karachi					. 452	447	414	232	260
Hyderabad				١.	. 684	782	716	474	376
Nawabshah					. 684	624	619	459	416
Thar and Par	kar				558	690	678	563	437
Larkana					568	517	534	424	308
Dadu					458	320	407	309	290
Sukkur					689	547	521	386	296
Upper Sind F	rontier				182	144	173	132	118
		Total	for Dist	tricts .	4,268	4,071	4,062	2,979	2,501
	. Rati	o per mile o	f popul	ation .	1.32	1.56	1-26	.92	•78
	В,-	-Towns			1	1.4	1917	1	
	Karac	hi District			10		A. 1.18		
Karachi				т.с	608	714	728	682	658
Karachi				C. C	10	8	14	. 14	. 7
Tatta				т. с	22	21	12	7	7
	Hydera	bad Distri	ct.				A	-	
Hyderabad				T. C	303	324	274	229	242
Hyderabad				C. C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	1	3	6
Hala				T. C		10	8	6	4
Matiari						19	18	11	3
						1	10		
	Nawab	shah Distri							
Nawabshah				T. C.	5	1	6	7	
Tando Adam				,,	33	27	16	' 14	12
T	har and	Parkar Di	istrict.		1				
Mirpurkhas				T. C	20	30	18	10	10
Umarkot					13	35	5	5	7
	Larka	na Distric	t.						
Larkana				т.с.	49	43	32	39	41
Kambar				,, ,	8	6	7	7	7

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

No: III.

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June.	July.	August.	September,	Jetober.	November.	December.	Total Death registered during the year.
					-	and she	
153	171	178	163	- 156	283	242	3,151
309	277	299	299	315	322	456	5,309
279	243	260	272	291	394	425	4,966
311	273	377	257	370	329	364	5,107
,229	312	304	340	420	439	321	4,716
179	180	229	226	254	286	307	3,445
301	291	392	315	414	581	481	5,207
91	107	107	126	192	190	- 131	1,696
1,855	1,854	2,046	1,998	2,4 2	2,824	2,727	33,597
•53	•57	63	-61	-75	-88	-85	10*41
	1995	1.5			and the lattice they	all 10 7.4	
539	496	529	478	490	514	561	7,087
10	11	8	12	9	16	6	125
11	6	8	8	7	. 9	8	126
215	189	229	. 191	180	204	239	2,819
1	2	4	6	1		1	31
1	3	4	3	4	5	2	60
8	8	6	14	5	3	10	133
	2		1.200				26
4	9			8			171
	5	9	8	•		20	
3	3	9	2	8	22	26 .	161
7	2	3	10	6	4	13	110
				90		49	
- 50	34	29	23	38 6	· 49	49 12	476 79
2	6	6	3			12 21	
13	7	4	9	. 4	7	21	126

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

	-	_			January.	February.	March.	April.	May.
And the second	В.—Точ	TN8—contd.							
	Dadu	District.							
Kotri			1	г. с	13	7	. 8	5	3
Dadu				,,	7	5	9	3	18
Sehwan				"…	7	8		5	3
	Sukku	r District.		100					
Sukkur		==		т. с	100	101	68	81	. 92
Shikarpur				,,	157	149	124	125	144
Rohri				,,	18	11	21	13	23
Garhiyassin		•		,. ···	19	16	11	5	τı
Uf	per Sind	Frontier Di	strict.					2.	
Jacobabad				т. с	14	8	7	8	15
		Tot	al for to	owns	1,550	1,561	1,403	1,287	1,822
		Ratio per m	ile of to	owns	2.38	2:38	2.16	1.98	2.03
		Total for t	he prov	vince	5,818	5,632	5,465	4,266	3,623
	Ratio p	er mile for t	the prov	ince	1.20	1.46	1.41	1.10	

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No. III-concld.

June.	July.	August.	September.	October,	November,	December.	Total Deaths registered during the year.
			A standard a start				
						and the state	and a
9	7 7	Бэ	7	5	8	8	85
6	9	2	4	4	2	10	79
1	1		1	1	5	9	41
					omy	P Selans	1177 III-2 .
75	70	88	63	65 .	85	98	986
134	135	106	118	138	164	168	1,662
14	. 3	7	13	10	14	15	162
14	5	9	8	9	11	11	129
	1					+++	
5	5	18	10	7	26	31	154
1,126	1,013	1,084	991	1,005	1,168	1,318	14,828
1.73	1.26	1.67	1.52	1.22	1.29	2-03	22'78
2,981	2,867	3,130	2,989	3,417	3,992	4,045	48,425
•77	-74	-81	-77	*88	1.03	1.04	12.49

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Designed District.

						Under	r one year			
			-		No	at exceeding	one mont	:h.		
Distr	ricts and T	owns,			Male.			Female.		Total
				Under one week.	Over one week,	Total.	Under one week.	Over one week.	Total.	
A-DISTE	TOWNS	CLUDI	NG	1						
Karachi				. 53	43	96	52	44	96	19
Hyderabad			10	88	89	177	79	79	158	33
Nawabshah				100	110	210	85	98	183	39
Thar Parkar				104	80	184	118	74	193	37
Larkana				105	92	197	90	71	161	35
Dadu		,		81	78	159	74	58	132	29
Sukkur				108	123	231	97	110	207	43
Upper Sind Fr	ontier			24	25	, 49	27	22	49	9
		Т	otal	663	640	1,303	622	556	1,178	2,48
area .	BTOWN	10				1	-		1 4	-10
	B10wr			-						
Ka	rachi Dis	trict.	10.8	Mark		en a	(Income)	100		0.000
Karachi			т. с	254	167	421	144	118	262	68
Karachi	***	/	C. C	8	1	9	5	5	10	1
Tätta	***	· !	r. c	2	3	5	3	2	5	1
Hyd	erabad D	istrict.							-	
Hyderabad			т. с	89	64	153	S6	75	161	31
Hyderabad			C. C	1	0	1	0	0	0	
Hala	1		T. C	4	2	6	2		2	
Matiari				1	1	2	1	1	2	
	vabshah D		T. C	1	0	1	0	0	0	
Nawabshah Tando Adam			and the second	1	1	2	2	2	4	
			.,							
	r Parkar									
Mirpurkhas			т. с	1	1	2	3	1	4	
Umarkot	•••			2	1	3	1	1	2	
La	rkana Di	strict.					1			
Larkana			т. с	. 14	12	26	14	13	27	6
Kambar			,,	2	2	4		2	2	
Ratodero				0	3	3	1	0	1	1

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

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No. IV.

				Under or	ie year-o	contd.					
Over o	one month av eding six mo	nd not nths.	Over i exceedi	six months as ing twelve mo	nd not onths,		Total,		One and under five years.		
ale.	Female,	Total.	Male.	Female.	Total.	Male.	Female	Total.	Male.	Female,	
									week.		
94	80	174	46	39	85	236	215	451	210	15	
143	88	231	60	48	108	380	294	674	310	23	
120	. 120	240	72	49	131	402	352	754	353	26	
129	97	226	63	74	137	376	363	739	292	21	
144	118	262	75	77	152	416	356	772	387	. 30	
121	93	214	44	24	68	324	249	573	225	18	
204	171	375	94	86	180	529	464	993	412	30	
59	50	109	20	41	61	128	140	268	129	13	
,014	817	1,831	474	438	912	2,791	2,433	5224	2,318	1,78	
		-					1. 1. T			Laci Cont	
427	369	796	446	403	819	1,294	1,034	2,328	780	75	
7	1	. 8	3	5	8	19	16	85	19	10	
1	6	7	2	2	4	8	13	21	4		
							1 and the se				
131	110	241	147	139	286	431	-410	841	223	20	
1	0	1	2	0	2.00	4	0	4	0	20	
1	1	2	3	0	3	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		
3	1	4	1	0	1	7	3	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		

of the Province of Sind during the year 1936.

				Not	exceeding or	ne month.			
		.,		Male,				Total.	
			Under one week.	Over one week.	Total.	Under one week,	Over one week.	Total.	
В-	-TOWNS-con	tā.	1						-
	Dadu District	100040				7	1	8	12
Kotri		T.C	4		6	2	5	7	13
Dadu			2	4	0	0	1	1	1
Sehwan		,	0	0	0	0	in the second		-
	Sukkur Distric	1.							
Sukkur		T. C	26	24	50	16	12	28	78
Shikarpur		,	45	41	86	37	50	87	173
Rohri		,,	9	4	13	2	3	5	18
Garhiyasin		,	2	3	5	4	3	7	12
Upper	r Sind Forntier	District.							2
Jacobabad		T. C	2	5	. 7	3	0	3	10
	Tota	lfortowns	470	330	809	3 33	295	628	1,437
	Total for th	e province	1,133	979	2,112	955	851	1,806	3,9,18
	atio per mile of								

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No. IV-contd.

			Under	one year-c	outd.						
Over o	one month a eding six mo	nd not oths.		ix months an ing twelve m			Total.		One and under five years.		
ale.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	
									1.191		
2	4	6	3	3	6	9	15	21	5		
4	5	9	0	3	3	10	15	25	7		
2	0	2	1	0	1	3	1	4	2	3041	
62	43	105	54	37	91	166	108	274	83	4	
123	82	205	81	70	151	290	239	529	105	9	
14	9	23	3	1	4	30	15	45	6		
7	4	. 11	2	0	2	14	11	25	12	1	
8	4	, 12	14	3	17	29	• 10	39	15	2	
829	663	1,492	798	698	1,496	2,436	1,989	4,425	1,333	1,24	
,843	1,480	3,323	1,272	1,136	2,408	5,227	4,422	9,649	3,651	3,03	
						118.33	125.05	121-31	14.77	12.7	

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			-		und under years.	Ten and und	ler 15 years.	15 and und	er 20 years.
			-	Male.	Female.	Male.	Female.	Male.	Female.
A-DISTRI	CTS (EX TOWNS)	CLUD	ING						
Karachi				86	77	87	58	79	60
Hyderabad				145	128	113	92	144	128
Nawabshah				166	145	122	69	74	69
Thar Parkar				159	105	132	94	101	72
Larkana				165	155	96	66	88	43
Dadu				102	86	63	61	82	68
Sakkur				137	132	121	104	110	96
Upper Sind Fro	ntier			50	59	41	26	34	21
			Fotal	1,001	897	775		712	
	-TOWN								
	achi Dist			1			1	•	
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	rabad Di	strict.	and the	1000					
Hyderabad			т. с	32	30	23	25	58	85
Hyderabad			C. C		1				1
Hala			т. с			1	1		· 1
Matiari			,,	1	2	2	3	2	4
Nawa	bshah Di	strict.							
Nawabshah			т.с	2			1	2	2
Tando Adam			,,	3	2	3	1	8	4
Thar 1	Parkar D	istrict.							
Mirpurkhas			т. с	5	3	2	2	9	3
Umarkot			,,		1		2	5	7
Lark	ana Dis	tirct,							
Larkana			т.с	8	5	4	3	6	10
Kambar			.,	4		2	3		1

No. IV-contd.

	d under years.		d under vears,	40 and 50 ye			under ears.	60 уся ирм	ers and ards.	Ag	es not own.		otal ages.)
Male.	Female.	Male,	Female.	Male,	Female.	Male.	Female.	Male,	Female.	Male.	Female.	Male.	Female
												205-1	
205	201	253	192	198	139	174	94	261	176		· · · · ·	1,789	1,862
308	312	473	345	407	248	353	159	494	240			3,127	2,182
272	297	336	281	358	185	\$13	166	488	254			2,884	2,083
364	320	379	277	351	218	351	156	494	294			2,990	2,117
222	253	277	320	275	191	216	137	447	305			2,589	2,127
161	20	220	209	233	138	190	88	351	214			1,951	1,494
218	299	310	274	278	212	272	127	498	312			2,885	2,322
79	92	89	98	102	67	95	44	176	96			923	775
1,829	1,967	2,337	1,996	2,202	1,398	1,984	971	3,209	1,891			19,138	14,459
		-											
		•											
250	324	275	200	256	136	222	115	482	397			3,817	3,270
9	4	9	3	5	1	7	2	13	12			76	45
7	6	9	2	14	7	4	7	23	8			73	53
	1				1.11						-		
145	1	140	81	190	83	119	66	185	154			1,545	1,274
5	-	1		2		2		•6	5			20	11
2		1	3	3	3	6	2	12	3			39	21
3	10	12	7	12	3	- 8	5	24	13			76	57
1	3		2	1	1	2		1				13	13
11	10	11	13	12	.7	15	8	13	12	•		97	74
			12	19		14			-			99	65
18		1			6	5	6	7	7			57	55
12	14	5		12			0	7				07	03
35	27	38	29	19	12	21	17	21	21			250	226
4	6	8	7	5	I	3		8	8			47	32
5	4	4	11	4	5	11	1	12	10			70	56

				nd under years.	Ten and und	er 15 years,	15 and unde	er 20 years.
			Male.	Female.	Male.	Female.	Male.	Female.
I	3TOWNS-	contd.						
	Dadu Distr	ict.	1			12.1		
Kotri		T. C	1	1		1	1	3
Dadu		,,	7	3	1	2		
Sehwan		,,	1		1	2	1	1
	Sukkur Dist	rict.	-					
Sukkur		T. C	27	11	10	15	16	24
Shikarpur		59	26	16	19	25	20	44
Rohri		,,	1	2		1	3	4
Garhiyasin	'	,,	6	6	2	1	1	2
					11- 1946		1 1981	
	Sind Frontie			7	3	1	3	3
Jacobabad		T. C	2	'	0	1		
	то	tal for towns	236	206	143	176	8 227	325
	Total for	the province	1,237	1,093	918	746	939	882
				4.91	3.72	4.29	4'97	5.31

.

No. IV-concld.

20 ar 30	ad under years.		nd under years.		l under ears.	50 and 60	l under years.	60 yes upw	urs and vards,		es not iown.		otal iges),
Male,	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female,	Male,	Female
			-98										
3	. 7	6	4	8	3	5	2	4			rha		
1	9	4	2	4		3	1	4	4			43	43
2	4	1	3	6	2	1	1 1 1 1 1 1	*	4			41	38
		0.00				-		0				21	20
						-							
51	48	58	40	54	19	50	23	73	60			591	395
38	80	61	58	99	45	83	24	158	140			898	764
7	8	6	6	15	1	11	10	24	6			102	60
2	10	6	2	6	4	5	2	.14	11			68	61
											10.14	81.5	
6	8	5	3	3	8	4	1	9	10	1		79	75
620	733	675	495	749	351	600	295	1,102	890			8,121	6,707
.449	2,700	3,012	2,491	2,951	1,749	2,564	1,266	4,311	2,781			27,259	31,166
5.73	7.83	8.66	10.03	14 10	11.22	24.57	16-11	63.64	49.31			12.54	12.42

.

Deaths registered according to Classes and sex in

		-						
1		2						NUMBER OF
No.		Districts.		-	Muhamn	nadans.	Hind	us,
				-	Male.	Female.	Male.	Female.
1	Karachi				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	Dadu				1,603	1,228	451	366
7	Sukkur				2,638	1,988	1,900	1,601
8	Upper Sind F	rontier			826	716	176	132
		Total for th	ne Provinc	ce	17,637	13,229	9,460	7,807
						1		
1	11	2			e Maria	end und		
1		2					Ra	TIO OF DEATE
1 No.	-	2 Districts.			Muhami	nadans.		tio of Deate
					Muhamu Male.	nadans. Female.		
	Karachi						Hir	idus.
No.	Karachi Hyderabad	Districts.			Male.	Female.	Hit Male.	idus. Female.
No.		Districts.			Male. 15-35	Female.	Hir Male. 23-55	rdus. Female- 31·22
No.	Hyderabad	Districts.			Male. 15.35 11.04	Female. 15:07 9:74	Hir Male. 23 ^{.55} 17 ^{.34}	adus. Female. 31·22 17·58
No.	Hyderabad Nawabshah	Districts.			Male. 15:35 11:04 9:71	Female. 15.07 9.74 9.31	Hir Male. 23 ^{.55} 17 ^{.34} 14 ^{.48}	idus. Female. 31·22 17·58 12·23
No.	Hyderabad Nawabshah Thar Parkar Larkana	Districts.			Male. 15:35 11:04 9:71 12:41	Female. 15.07 9.74 9.31 10.52	Hit Male. 23.55 17.34 14.48 11.70	ndus. Female. 31·22 17·58 12·23 11·31
No.	Hyderabad Nawabshah Thar Parkar Larkana • Dadu	Districts.			Male. 15:35 11:04 9:71 12:41 11:05	Female. 15:07 9:74 9:31 10:52 11:67	Hin Male. 23.55 17.34 14.48 11.70 13.17	ndus. Female. 31·22 17·58 12·23 11·31 14·02 15·91
No.	Hyderabad Nawabshah Thar Parkar Larkana Dadu Sukkur	Districts.			Male. 15:35 11:04 9:71 12:41 11:05 10:12 10:62	Female. 15:07 9:74 9:31 10:52 11:67 9:91	Hir Male. 23-55 17-34 14-48 11-70 13-17 15-93	ndus. Female. 31·22 17·58 12·23 11·31 14·02

No. V.

the Province of Sind during the year 1936.

J	ains.	Chri	istians,	P	arsis.	Othe	r Classes,
Male.	Female.	Male.	Female,	Male,	Female.	Male.	Female
2	5	63	47	15	19	30	13
			1			42	29
			1.				
		1	1			2	
							
					8.74	1	1
		2	3	·		4	10
2	5	66	53	15	19	79	53

PER 1,000 OF POPULATION.

]	ains,	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	33*56
			18.18				
		13.51	26-32			1.22	
	··· ··						
						9*26	6*71
		4.17	8.65			1.23	5108
8-17	9-76	9.54	10.35	8.03	11:40	8.57	8.62

1			1	3	4 Births,				
No-	Distrie	Towns.	Population according to Census of 1931,	Male.	Female.	Total.	Birth rate.		
	Α	DISTR	ICTS.						
1	Karachi				3,15,766	1,970	1,383	5,953	10.63
2	Hyderabd				5,47,229	3,597	2,393	5,990	10.94
3	Nawabshah				4,76,120	4,259	3,129	7,388	15.53
4	Thar Parkar				4,54,021	4,396	3,514	7,910	17.42
5	Larkana				4,08,298	5,181	4.090	9,264	22.69
6	Dadu				3,11,892	3,604	2,571	6,175	19-80
7	Sukkur				4,67,727	5,182	3,939	9,121	19.20
8	Upper Sind Fre	ontier			2,44,578	2,123	1,538	3,661	14.97
		Total	of the Districts		32,25,631	30,315	22,547	52,862	16.38
	. в	TOW				-			
	KAP	ACHI DI				1	1. Same		
9	Karachi		T. C.		2,47,791	7,169	6,768	13,937	56-24
10	Karachi		C.C.		6,240	197	208	405	64.90
11	Tatta		T. C.		9,635	73	59	132	13*70
	HyDE	RABAD I	DISTRICT.		1 mars				33
12	Hyderabad		T.C,		96,021	2,136	2,107	4,243	41.18
13	Hyderabad		c.c.		4,530	83	23	56	12:35
14	Hala		т. с.		7,304	66	44	110	15.06
15	Matiari		T. C.		6,692	46	31	77	11.50
	Naw	ABSHAH	District.						
16	Nawabshah		т.с.		7,023	17	13	30	4.27
17	Tando Adam		,,		13,469	137	74	211	15.66

Deaths registered from different causes and Births in the Districts

No. VI.

and Towns of Province of Sind during the Year 1936.

5	6	7	8	9	10	11 INJURIES. Suicide,		
Cholera.	Small pox.	Plague.	Fevers.	Dysentery and Diarrhoea.	Respiratory Diseases,			
					anoistere.	Male. Female.		
		1	1			Titre at 1		
	28		1,580	49	1,125	2		
8	23		3,337	79	1,330	1		
	29		4,002	22	490	1 *		
	41		3,301	31	1,139			
	31		4,259	7	109			
	41		2,743	24	237	2 1		
	19		4,485	34	260	2 1		
	10		1,506	10	35	. 1 1		
8	220		25,223	256	4,715	9 3		
	54	4	448	686	3,226	3		
			37	7	16			
	3		35	6	51			
. 7						And and a state of the		
	. 5		300	145	1,193	5 8		
			21		3			
-		•••	36		16			
			47		55			
				1.00		dentedentelle etc.		
	1		11		8			
			65	3	59			

1	2						12	13			
No,	Districts and Towns.				Wound- ing or Accident.	Snake- bite, or killed by wild beasts.	Rabies.	Total.	All other causes	Total deaths from all causes	
	A	DISTR	ICTS.								
1	Karachi					25	29	2	58	363	3,151
2	Hyderabad					47	30	2	80	452	5,309
3	Nawabshah					63	87	2	103	320	4,966
4	Thar Parkar					40	38	1	79	516	5,107
5	Larkana					61	35	1	97	213	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		42	43	1,696
	·	Total of TOW!		stricts		391	210	8	621	2,554	33,597
		ACHI DIST								1	
9	Karachi		T	. c.		103			105	2,566	7,087
10	Karachi		C	. C.						65	125
31	Tatta		T	. C.		1			1	31	126
	Hype	RABAD DI	STRICT,			1					
12	Hyderabad		т	. C,		56	2		66	1,110	2,819
13	Hyderabad		C	. C.					•••	7	31
14	Hala		т	. c.		`				8	60
15	Matiari			.,		3	1		4	27	133
	Nawa	BSHAR DI	ISTRICT					-		-	-
16	Nawabshah		т	, C,						6	26
17	Tando Adam			,,		. 3			3	41	171
No. VI.-contd.

		0441	1	RATIO OI	DEATHS PE	R 1,000 Po	PULATION	ι.		
Che	olera.	Small-	Plague.	Fevers.	Dysentery and	Respira-	Injuries	All other	From a	II Causes.
		Pox.			Diarrhoea.	Diseases.		causes.	For the year.	previous five years,
				-			· A Parts	- miwor		
		•08		4.91	•15	3*55	.18	1.13	10.00	10.02
	°01	·04		6.09	•14	2.44	•15	.83	9-70	10-1I
		-06		8*40	-09	1.02	•21	•65	10-43	10.72
		•09		7.28	.07	2.20	-17	1.13	11-24	13-53
		*08		10'43	*01	-27	-24	•52	11-55	12.48
		.13		8.80	-08	•76	-27	1.01	11.02	11.60
		104		9.29	'06	•55	.16	.71	11.13	14.83
		•04		6.40	-05	.10	•17	·18	6.94	9-87
	•002	*07		7.81	-09	1.46	.19	.79	10 40	11.78
		-23	02	1.80	2.76	13-02	-42	10.36	28.60	23.58
				5.88	1.12	2.29		10.44	20.03	16.02
		-21		8*65	-62	5.30	.10	3-22	13-10	12.45
							.			
		-05		3.12	1.21	12:44	-68	11.55	29.35	24.15
				4.63		-66		1.22	6.84	J
				4.93		2'19		1.09	8:21	9.72
				7.01		8-22	.20	4.04	19.86	14.19
					-					
		-14		1.57		1.14		.82	3.20	6.12
				4.83	-22	4:39	-22	3-64	12.70	18-48

14 ATIO OF DEATHS FER 1.000 POPULATION

1		2	automent field	3		4 Birt	hs.	
No,	Dist	ricts and	Town,	Population according to Census of 1931.	Male.	Female.	Total.	Birth rate.
	в,—Т	OWNS	-contd.				e	
1	THAR	Parkar D	ISTRICT.	10				
18	Mirpurkhas		т.с	10,178	65	42	107	10.21
19	Umarkote			3,841	54	39	93	24.31
-	Lar	KANA DIS	TRICT.	-				•
20	Larkana		т. с	. 26,841	551	481	1,032	38.42
21	Kambar			. 9,717	105	88	193	19.86
22	Ratodero			7,285	103	87	190	26.08
17	D	ADU DIST	RICT.	l or	1			
23	Dadu		т.с	6,562	36	39	75	11.48
24	Kotri		т.с	10,033	96	80	176	17.54
25	Sehwan		T. C	5,795	45	26	71	12.25
	Su	KEUR DIS	TRICT.			1.1		
26	Sukkur		T.C	. 69,277	1,841	1,198	2,539	36-65
27	Shikarpur		••• •• ••	. 62,505	1,177	1,068	2,243	35.88
28	Rohri			. 16,900	175	175	350	20.71
29	Garhi Yasin			. 7,370	111	100	211	18.63
	UPPER SIN	D FRONT	ER DISTRICT.					
30	Jacobabad		T.C	. 15,748	127	66	193	12.25
	-	Т	Cotal of Towns	. 6,50,757	13,860	12,814	26,674	40.99
	14 114	То	tal of Province .	38,76,388	44,175	35,361	79,536	20.52

No. VI.-concld.

5	6	7	8	9	10	11 Injuri	
Cholera.	Smallpox.	Plague.	Fevers.	Dysentery and Diarrhoea.	Respiratory Diseases.	Suici	de.
						Male.	Female.
					Ewoi		
					and similar	TRAN	
			54	5	70		
			48	1	49		•6
			/		PRESENT AND	E.a.	
			127	' 17	139		1
			62	1	8		
			119		1		1
			52	4	5		
	2		43	3	19		
			20		14		
					anna ma		
			197	134	332		
	2		447	27	185	2	1
			90	7	41		
6 i			87	1	15		
					re surface a	nt' contr	
	22		112		5		
	88	4	2,456	1,047	5,510	9	5
8	308	4	27,679	1,303	10,225	18	8

.

85

1	- H	2					11			12	13
	anticitin [~				1	INJURIES	-contd.			
No.	Dist	rict and,	Town	5.	2 2	Wound- ing or Accident.	Snake bite, or killed by wild beasts.	Rabies.	Total.	All other causes.	Total deaths from all causes
	B7	rowns	-cont	ð.							
	THAR	PARKAR	Distri	ICT.							1.1
18	Mirpurkhas			т.с.		2		***	2	80	161
19	Umarkote					·				12	110
	LAR	KANA D	ISTRIC	т.	1						
20	Larkana			т. с. `		10			10	163	476
21	Kambar					1	1		2	6	79
22	Ratodero					4			5	1	126
	D	DU DIS	TRICT					-			
23	Dadu			т. с.		1			1	17	79
24	Kotri							·		18	85
25	Sehwan									7	41
	Suk	KUR DE	STRICT								
26	Sukkkur			т. с.		30	1		31	292	986
27	Shikarpur			.,		14	2		19	982	1,662
28	Rohri					1	·		1	23	162
29	Garhi Yasin			,,		2			2	24	129
	UPPER SIN	D FRONT	IER D	ISTRICT.							
30	Jacobabad			т. с.						15	154
		т	otal o	f Towns		231	7		252	5,471	14.828
	1.1.1	Tot	al of 1	Province		622	217	8	873	8,025	48,425

No. VI.-concld.

	id and i	Ra	TIO OF I	14 Deaths per 1		OPULATIO	N.		
	-						1	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.
	,								
			5-30	•51	6.87	-20	2-94	15-82	11.90
			12.20	-28	12.76		3.12	28.64	23.16
			4.72	.63	5.21	-37	6.80	17-73	20·01
			6.38	•10	•83	-20	-62	8-12	16.15
			16-33		•14	*69	.14	17.30	20 31
			8.08	-61	-77	-15	2:43	42.04	1.82
	20		4-29	-29	1.90		1-79	8-47	10.26
			3*45		2.41		1-21	7.07	8.11
			2.96	1.93	4.68	-45	4-21	14.23	13.45
	•03		7*35	-43	2.77	•30	15.70	26.28	24-67
			5.33	•41	2*42	•06	1.36	9-55	13 •31
			11.80	•14	2.03	-27	3-26	17.50	23 *88
	1.40		7.12		•30		.95	9.77	9-91
	-14	.001	3.77	1.61	8*46	.39	8.41	22.78	20.16
.0002	'07	·0001	7.14	•34	2.84	-23	2.07	12:49	13-19

1		2		3			4		5
-				Ente Feve		Mea	sles.	spi	ebro- inal ver.
No.	Distr	icts and T	owns.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
	A.—	DISTRIC	TS.						
1	Karachi			5	*02	5	.03	1	'003
2	Hyderabad .			23	·04	10	°02		
3	Nawabshah			16	.03	36	·08		
4	Thar Parkar			20	·05	14	-03		
5	Larkana			20	•05	9	-02		
6	Dadu			34	.11	9	-03		
7	Sukkur			15	.03	26	•06		
8	Upper Sind Fre	ontier		4	·02	3	.01		
	or - 1 100 -	Total of	the Districts	137	·04	112	•03	1	10003
	a contract of the second	ATOWN			-1	-			
9	Karachi		T. C	40	•16	324	*90	3	.01
10	Karachi		C, C						
11	Tatta		T. C	3	-31				
	Hyder	ABAD DIST	TRICT.		1240				
12	Hyderabad		T. C	81	*84	81	•84	2	*02
13	Hyderabad		· C. C						
14	Hala		T. C						
15	Matiari		,	1	.14			1	-14
	Naw	аңзнан Di	STRICT.			1			
16	Nawabshah		т. с	1	.14			2	'28
17	Tando Adam		"	8	•60				

Deaths registered from certain diseases in the Districts

No. VI (a).

and Towns of the Province of Sind during the year 1936.

6	210	7	-	1	8	1	9	1	10	1	11	1	12
Mala	ria.	Other F	evers.	Infl	ienza.	Din	theria.	Ty	phus.	Can	icer.	Wh	ooping
	_								pittos	Can	iocz,	C	ough.
Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio,	Deaths.	Ratio.	Deaths.	Ratio.
								-	1	1			
222	•70	1,297	4.17			1	.003					ATE S	
76	.14	3,228	5.89								1.40		
47	-09	3,903	8.20			4	•001				1	W/1572	
124	•27	3,143	6.93			1							
	-18					1	*002			***			
72		4,158	10'18			1	.003					3.377	
136	-44	2,563	8.23	1	.003	1	.003			-			÷
92	-20	4,352	9*30							natio)	1.111	1470	
39	-16	I,520	6.31										
808	•25	24,164	7*49	1	-0003	8	.003						
						1	1						
26	•11	151	·61	2	*01	23	•09			23	•09	4	•03
1	•16	36	5.72										
16	1.67	16	1.67]					
							1						
110	1.15	26	•27			7	.07			12	·13	3	.03
1	-22	20	4-41										
7	-96	29	3.97										
3	•45	42	6'28										
2	-28	6	·85			2	*28			*			
10	.75	47	3-48			1	*07					***	
			0.10]	***	1:	07			•••			

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	2				13	1	1	1	15	10	5
								Phtl	hisis.	rate	ry
Dist	ricts and To	wns.		-					-		1
n lala		1			Ratio,	Deaths	Ratio.	Deaths	Ratio.	Deaths	Ratio.
A	DISTRI	CTS.									
Karachi						947	2.98	83	-26	95	-31
Hyderabad				ı	'001	1,007	1.81	117	-22	206	•38
Nawabshah						362	*76	61	·12	67	•14
Thar Parkar		• ••				908	2.00	65	.14	166	-36
Larkana						45	-11	93	.08	31	.*08
Dadu						125	-40	60	•19	52	•17
Sukkur						126	-27	58	.12	76	•16
Upper Sind Fr	ontier					14	-06	8	03	3	•01
	Total of	the Districts		1	.0003	3,534	1.09	485	·15	696	.22
	BTOWN	s.									
K	ARACHI DIST	RICT.									1
Karachi		T.C.				1,752	2.02	597	2.41	873	3.23
Karachi		C. C.				15	2.43			1	•16
Tatta		т.с.				44	4'57	5	52	2	-21
Нур	erabad Di	STRICT.					124				
Hyderabad		т.с.				871	9.07	226	2.38	93	-96
Hyderabad		C, C,				3	·66				
Hala		T. C.				13	1.78	3	•41]
Matiari		T. C.				41	6.13	14	2*09		
NAV	VARSHAR DI	STRICT.					-				
Nawabshah		T. C.				5	•71	3	•43		
Tando Adam		29				40	2.97	9	•67	10	•75
	A Karachi Hyderabad Nawabshah Thar Parkar Larkana Dadu Sukkur Upper Sind Fr Karachi Karachi Tatta Hyn Hyderabad Hala Matiari Matiari	Districts and To A.—DISTRIC Karachi Hyderabad Thar Parkar Thar Parkar Dadu Sukkur Dadu Sukkur Dadu Sukkur Total of Sukkur Sukkur Total of Karachi Karachi Tatta Hyderabad Hyderabad Hala Nawabshah	Districts and Towns. ADISTRICTS. Karachi Hyderabad Nawabshah Nawabshah Nawabshah Itari Parkar Dadu Dadu Sukkur Sukkur Sukkur Sukkur Sukkur Sukkur Sukkur Karachi Karachi Matari <	District survers Karachi Hyderabad Nawabshah Nawabshah Itar Parkar Dadu Jadu Jadu Jakkur Karachi Tatta Tatta Tatta Tatta Hyderabad Tatta Tatta Tatta Tatta	ADISTRICTS. Independent of the posterior of	ADISTRICTS. Initial State Stress and Towns. Second State Stress and	Listricts and Jown Click Processes A.—DISTRICTS. j <td>Districts and Jown and and and and and and and and and an</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>Districts and Towns. <math>Pirescond Point <math>Pirescond Point <math>Pirescond Point A.—DISTRICTS. i i<!--</math--></math></math></math></td> <td>Districts and Towns. Chicken Provide the state of t</td>	Districts and Jown and and and and and and and and and an	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Districts and Towns. $Pirescond Point Pirescond Point Pirescond Point A.—DISTRICTS. i$	Districts and Towns. Chicken Provide the state of t

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No VI (a).-contd.

17		1	18	19		20		21	22
Dyse	ntery.	Dia	rrhœa,	Deaths from	Dea	ths under l	l year.	Infant mor-	
Deaths.	Ratio.	Deaths.	Ratio,	child- birth.	Male.	Female.	Total.	tality rate per 1,000 births.	No,
						1. 1.2-	-soon	6	
27	'08	22	•07	44	236	215	451	134•51	1
39	*07	40	.02	137	380	294	674	112-53	2
6	. 01	16	.08	136	402	352	754	102.06	8
7	*02	24	•05	92	376	363	739	93-42	4
1	-002	6	•01	85	416	356	772	83*33	5
2	• *01	22	.02	89	324	249	573	92.80	6
7	*02	27	.00	125	529	464	993	108.87	7
4	*02	6	.03	21	128	140	268	73*20	8
93	·02	163	*05	729	2,791	2,433	5,224	98-82	
	-						1.1		4
120	•45	566	2-28	79	1,294	1,034	2,328	167.04	9
6	•96	1	.16		19	16	35	86'42	10
3	-31	3	•31	2	8	13	21	159.09	11
51	•53	94	-98	17	431	410	841	198-21	12
					4		4	71-43	13
		•		3	10	3	13	118-18	14
				5	4	4	8	103-90	15
-			-			Pris La	7 .01		
					2	2	4	133-33	16
2	-15	. 1	*07	10	12	8	20	94.80	17

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1	B	3			3 Enter		4 Meas		5 Cereb spin:	al
					Feve	r,	100 630	ares -	Fev	er.
No.	Dist	rict and To	wns.		Deaths.	Ratio.	Deaths,	Ratio.	Deaths.	Ratio.
			1		Ā	21	9	×	9 1	
	в,—Т	OWNS	ontd.							
1	THAR	Parkar D	ISTRICT.	-	1		1	5 ·	-	
18	Mirpurkhas		т. с.	····	3	•29	2	-20	1	.10
19	Umarkot			()	3	-78				
	LAF	KANA DIST	RICT.		-				14	
20	Larkana		т с.		35	1.30	10	*37		
21	Kambar	2	19			0	1	•10		
23	Ratodero									
	De la L	DADU DISTR	ICT.		-	-			1	
23	Dadu		T.C				4	-61		
24	Kotri		,,		4	•40				
25	Sehwan		33		2	**84				
	S	UKEUR DIS	TRICT.							
26	Sukkur		т.с.		38	*55				
27	Shikarpur		"		. 57	-91	46	•74	1	-02
28	Rohri		,,							
29	Garhi Yasin		37		. 2	*27	1	-14		
	UPPER S	IND FRONT	IER DISTRIC	т.						
90	Jacobabad		т.с		. 1	•06				
30	Jacobabar		1					-		
			otal of Tov	vns	279	-43	369	.22	10	•02
	Destri i	Tatal	d the Deard	200	416		481	•12	11	*003
	arte	Total o	of the Provi	nce .	416	-11	481	•12		11

No. VI (a).-contd.

	7			8		1	,	1	0	1		1	2		3
Ma	alaria		Oth	ier Fe	vers,	Influe	enza,	Dipth	eria,	Typ fev	hus er.	Can	cer.	Who Cot	oping 1gh.
Deaths.		Ratio.		Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
												wor			
												12 10 4.10			
	5	-49		43	4.13					1	.10				
	4	1.0%		41	10.68										
							-								
	69	2.57		13	•48			1	-63			1	•03		
				61	6.28										•••
				119	16-33			•••							
	2	.31		46	7.01			1	•15						
	32	3.18		7	•70										
	2	-34		16	2.26										
	00	1.04		-	1.02									4	•0
	86	1.24		73	*05									4	-0
	340 90	5.33													
	13	1.76		71	9.63						»				
									10000		ani	innia.	ANTIN		
			-	110	7.00	1	.08	•••	0.4						
142	819	1.26		975	1.20	3	·005	35		1	•0001	35	•05	15	-00
	319	1-26		975											
1	1,627	•42		25,139	6.48	4	•001	43	-01	1	.0002	35	.009	15	.00

1		2				13	1	14	1	15	1	6
-	1974 in 19					icken- Pox.	Pr	neu- onia.	Ph	thisis.	Other rate Dise	
No.	1	Districts and	Town	15.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths,	Ratio.	Deaths.	Ratio.
		TOWNS.—										
		'har Parkar	DISTR									
18	Mirpurkhas			т.с.	 		59	5.80	9	-87	2	*20
19	Umarkot			"	 •••		40	10.43	9	2.34		
		LARKANASDI	STRICT									
20	Larkana			т. с.	 		79	2.98	24	•89	36	1.34
21	Kambar			••	 		6	•62	2	20		
22	Ratodero				 				1	•14	·	
		DADU DIST	RICT.				-					
23	Dadu			т. с.	 		2	•31	1	.15	2	•31
24	Kotri				 		12	1.20	7	•70	***	· · ·
25	Sehwan				 		10	1.72	4	•69		
		SUKEUR DIS										
26	Sukkur			-			128	1.85	59	23 .75	148	2.14
	i.			1.0.	 			•56			35	-
27	Shikarpur			"	 		35	K		1.78		
28	Rohri			"	 		22	1.30	9	-53	10	*59
29	Garhi Yasin			77	 		4	•54	10	1.35	1	•14
	Upper	SIND FRONT	IER DI	STRICT.								
30	Jacobabad			т. с.	 		2	.15	3	·18		
					-							
		r	Cotal o	f Towns	 		3,183	4.89	1,099	1.68	1,213	1.86
	an lans	Total o	of the l	Province	 1	·0002	6,717	1.73	1,584	-31	1,909	•39

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No. VI (a).-concld.

	17	1	18	19	-	20		21	22
Dy	sentery.	Dia	arrhoea.		Deat	hs under 1	l year.		1
Deaths.	Ratio.	Deaths.	Ratio,	Deaths from child-birth.	Male.	Female.	Total.	Infant mor- tality rate, per 1000 births,	No.
								This Could be	
	4 .41	1	•10	12	7	8	15	140.19	18
		1	•26	8	7	3	10	107-52	19
1	0 .37	7	•26	31	66	61	127	123.06	20
	1 .10			5	7	4	11	56.99	21
				1	14	9	23	121.05	22
									101 10
	1 •15	3	-46	5	10	15	25	333-33	23
	2 .20	1	•09	6	9	15	24	136-36	24
				2	3	1	4	56*34	25
2		113	1.63	33	166	108	274	107-91	26
1	4 .22	13	*21	56	290	239	529	235-85	27
		7	-41	8	30	15	.45	128-57	28
		1	-14	7	14	11	25	118-48	29
				4	29	10	39	202-07	30
23	5 •36	812	1.25	294	2,436	1,989	4,425	165-81	
32	8 .03	975	•25	1,023	5,227	4,422	9,649	121-31	

Deaths registered from Cholera in the Districts

						and the second	-					
1	2		and I	3	-	4					-	-
	a any title		Cir Regi	cles of stration.	Vil	lages.						
	Division		1 each	n which Cholera ed.	i each	n which Cholera ed.						
No.	Districts.		Number in district.	Number from which deaths from Cholera were reported.	Number in district.	Number from which deaths from Cholera were reported.	January.	February.	March.	Abril.	May.	June.
1	4											18
1	Karachi		12		1,041							
2	Hyderabad		11	1	870	1						
3	Nawabshah		9		734							
4	Thar Parkar		13		948							
5	Larkana	.	10		2,118							
6	Dadu		10		1,047						•••	
7	Sukkur		12		685							
8	Upper Sind Front	tier	6		1,652							
	Total of the Provis	nce .	83	1	9,095	1						

No. VII.

*

of the Province of Sind, during each Month of the year 1936.

5							6	1	B	7	-	8	9
							Total.		Rati 1,000	o of death of Popula	is per ition.	of pre-	
July.	August	September.	October.	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 of pre- vious five years.	No
		-			1							•	
		•											1
6	2					3	5	8	*008	-02	·01	·0 0 04	2
			*									.002	3
													4
												*01	5
							20.2		91			and the second	
		<i></i>			·								6
												.002	7
													8
												S POSTICIA	
6	2					3	5	8	•001	.003	.002	·0006	

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Deaths registered from Small-pox in the Districts of the

1	2			3		4						
				cles of stration.	Vill	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		1.041	9	3	25	11	22	0	
1	Karachi		12	5	1,041	9	3	20	11	dela	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 Fron	tier	6	4	1,653						3	2
	Total for the Provi	nce	83	41	9,095	77	35	40	40	48	35	16

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No. VIII. ·

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

5			. '				6			7		8		9	10
							Total.		these	ber of Deaths long Idren.	D	tal rati eaths 1,000 c epulati	per	or 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.
141	1000								1						
4	1				7	48	34	82	8	25	14	-14	.14	•26	1
1						16	12	28	5	. 14	•04	-04	*0 6	•03	2
2	3	1				16	14	30	2	16	-07	.06	•08	-25	3
4		5			2	26	15	11	3	17	•10	-07	.09	•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	8	20	•10	.11		-	
					10	19	10	04		20	10	-11	-12	*03	8
19	8	14	9	10	34	176	132	308	46	133	.07	-07	•07	-22	

1	3				3		ŧ						
-	3 40				tles of tration.	Vill	lages.						
No.	Districts			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	129
2	Hyderabad			11	11	870	870	457	447	465	350	295	234
3	Nawabshah			9	. 9	734	734	547	506	471	383	362	244
4	Thar Parkar			13	• 13	948	948	313	401	393	380	313	236
5	Larkana			10	10	2,118	973	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 Fi	ronti	er	. 6	6	1,652	529	179	138	173	131	117	87
	Total for the P	rovir	ice.	83	83	9,095	6,136	3,302	8,031	3,070	2,495	2,243	1,685

Deaths registered from Fevers in the Districts of the

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No. IX.

Province of Sind during each month of the year 1936.

5							6			7		8	9
						-	Total.		Ratio 1,000	of deaths of Popula	per tion.	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	1 5 3	1,082	966	2,048	3-29	3*85	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	8.22	7-75	8*20	8.68	3
213	214	191	271	240	238	1,967	1,436	3,403	7.51	6*97	7.05	9•32	4
299	270	306	388	424	325	2,502	2,065	4.567	10.00	12.01	10.09	11-12	5
160	183	172	215	231	255	1,639	1,219	2,858	8.76	8.28	8.54	8*99	6
807	385	328	417	569	487	2,966	2,340	5,306	8.49	8.23	8.54	11.70	7
104	111	126	182	192	138	931	757	1,678	6.33	6.29	6'44	8*95	8
1,613	1,745	1,675	2,092	2,461	2,267	15,680	11,999	27,679	7.33	7.04	7.14	8.63	

1	2	1		3		4			1			
		Standa	Cir Regi	cles of istration.	Vi	llages.	-					
No.	Districts.	-	Number in each District.	Number from which deaths from Dysentery and Diarrhoea were reported.	Number in each District,	Number from which deaths from Dysentery end Diarrhoea were reported.	January.	February.	March.	April.	May,	June,
1	Karachi		12	11	1,041	28	38	21	45	73	86	72
¢0	Hyderabad		11	8	870	40	13	12	9	15	25	16
3	Nawabshah		9	9	734	14	3	3			5	
4	Thar Parkar	·	13	• 12	948	29	2		1	1	4	1
5	Larkana		10	6	2,118	9	3	2	1		1	2
6	Dadu		10	8	1,047	19	2	1	4	5	1	2
7	Sukkur		12	12	685	18	15	16	13	17	23	14
8	Upper Sind Fro	ntier	6	3	1,652	5	4					
	Total for the Pro	ovince.	83	69	9,095	162	80	55	73	111	145	107

Deaths registered from Dysentery and Diarrhoea in the Districts

No. X.

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

							6	1		7		8	9
						- Angele	Total,		Rati 1,000	o of death of Popul:	s per ation.	Jo 00	
July.	August.	September.	October,	November,	December.	Male.	Female.	Total.	с.	Female.	Total.	Mean ratio per 1,000 previous five years.	No.
68	91	82	65	58	51	. 396	352	748	1.20	1.40	1-29	.91	1
26	35	32	17	10	14	125	99	224	•34	-35	*34	.19	2
3	2	3	1	2	3	15	10	25	-05	-05	•05	*05	3
2	7	7	3	5	4	20	17	37	•08	.08	•07	.05	4
4	2	2	2	- 4	2	. 13	12	25	.02	•06	•06	•03	5
2	1	2	2	5	4	19	12	31	•10	-08	.09	.01	6
8	18	16	20	21	22	119	84	203	•34	•31	•33	.18	7
1				4	1	4	. 6	10	-03	.02	*04	-02	8
114	156	144	110	107	101	711	592	1,303	·33	-34	•34	·23	

Deaths registere	from Respiratory	y diseases in Districts
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1	2			3	i.	4						5
	7 23	Sunda I	Circ Regis	cles of stration,	Vil	lages.						
No.	Districts.	aluna -	Number in each Dis-	Number from which deaths from Respira- tory diseases were reported.	Number in each Dis- trict.	Number from which deaths from Respira- tory 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	870	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	226	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	70	53	42
8	Upper Sind Frontie	r	6	4	1,652	20	1	4	5	4	5	
	Total of the Prov	vince	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.

							6	4		7		8	9
							Total.	March 196	Ratio of	f deaths j Populati	per 1,000 on,	1,000 of previous	
July.	August.	September.	October.	November.	-December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 of five years.	No.
213	220	229	207	300	319	2,460	1,958	4,418	7.48	7.81	7.63	5.42	1
88	113	94	105	130	223	1,522	1,075	2,597	4'10	3.69	3.91	2.56	2
9	14	10	21	39	42	356	201	557	1.28	•92	1.11	•90	3
22	35	31	48	56	111	802	456	1,258	3406	2.21	2-69	2.44	4
10	15	7	20	30	29	170	87	257	'67	•43	•57	•40	5
8	10	16	14	22	21	165	110	275	-88	. 75	*83	-87	6
26	51	40	49	64	84	515	318	833	1:47	1.16	1.30	1.14	7
	1	2	2	3	3	17	13	30	•12	.11	·12	-32	8
376	459	429	466	644	832	6,007	4,218	10,225	2.77	2:47	2.64	1.98	-

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Deaths registered from Plague in the Districts of the

1	2		3		4				5		
		Circ Regis	les of tration.	Vill	ages.			-			
No.	Districts.	Number in each Dis- trict.	Number from which deaths from Plague were reported.	Number in each Dis- trict.	Number from which deaths from Plague were reported.	January.	February.	March.	April.	May.	June.
1	Karachi	 12	1	1,041	1			4			
2	Hyderabad	 11		870							
3	Nawabshah	 9	m	734							
4	Thar Parkar	 13		948				·			
5	Larkana	 10		2,118							
6	Dadu	 10 '		1,047							
7	Sukkur	 12		685							
8	Upper Sind Frontier	 6		1,652				'			
-	Total of the Province	 83	1	9,095	1						

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No. XII.

Province of Sind during each month of the year 1936.

							6	7 5		7		8	1
							Total.	-	Ratio of	f deaths Populati	per 1,000 lon.	1,000 of previous	1
July.	August.	September.	October.	November.	December	Male.	Female.	Total.	Male.	Female	Total.	Mean ratio per 1,000 of five years.	No.
						4		4	.01		'01		1
													2
													3
													4
													5
			•••										6
													7
													8
						4		4	*0001		·0001		

APPENDIX

STATEMENT

Showing the Particulars of Vaccination

No.	100.1 m	Circ	les and D	istricts.				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					т. с.		2,54,031		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					.,		37,976		1
8	Sujawal							37,946		1
9	Jati					,,		34,651		1
10	Shah Bunder					,,		39,890		1
11	Mirpur Bathoro		`			,.		42,825		1
				Karach	i Distr	ict Tota	ı	5,79,079		15
12	Hyderabad					т. с.		96,021		1
13	Do.					с, с		4,530		1
14	Do.					R. C.		79,096		1
15	Tando Bago							67,998		1
16	Badin							89,280		2
17	Dero Mohabat							46,638		1
18	Tando Allahyar							61,320		1
19	Hala							1,13,496		2
20	Guni									2
				Hyderaba	l Dist	rict Tota	1	6,62,924		12
21	Shahdadpur					R. C.		1,03,217		2
22	Kandiaro							80,814		1
23	Naushahro Fere	ze						\$6,068		2
24	Sakrand					,,	.,	62,476		1
25	Moro					,,		59,563		1
26	Nawabshah							56,270		1
27	Sinjhoro							48,201		. 1
				Nawabsha						

IV.

No. I.

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in Sind during the Year 1936-37.

				-		Pri	mary Vaccin	ation.	
		umber of per-	sons	Average number of persons			Successful	I.	1
N	fale.	Female.	Total.	vaccinated by each Vaccinator,	Total.	Under one year	One and under six years,	Total of all ages.	Unknown,
1	6	7	8	9	10	11	12	13	14
{ P.	7,492	7,185	14,677	6,092	14,720	8,743	3,250	13,020	1,567
₹R. ₹P.	14,980 37	6,896 36	21,876 73	225	73	28	31	65	
₹R. {P.	149 608	. 553	152	1,214	1,161	359	706	1,115	46
₹R. {P.	38 537	15 456	53 993	1	993	361	549	964	26
R. (P.	44 114	22 82	66 196	} 1,286	197	64	80	177	11
R.	26 300	5 314	31 614	705	614	317	248	577	37
₹R. ₹P.	68 489	23 195	91 684	688	684	121	546	671	13
R.	3 484	350	4 834	870	834	287	484	827	. 7
₹R. ₹P.	21 402	15 293	36 695	713	695	301	365	685	10
₹R, ₹P.	17 541	417	18 958	977	958	369	471	920	38
₹R. {P. {R.	18 543 41	477 	19 1,020 41	1,061	1,020	276	636	1,002	18
{ P. 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
					Tele				
{ P. R.	1,272	1,168	2,440	4,987	2,440	1,166	813	1.987	442
CP.	1,788 29	759 29	2,547	86	58	27	25	56	1
{R. ∫₽.	20 1,065	8 780	28 1,845	2,393	1,845	640	1,048	1,738	107
₹R. ₹₽.	486 722	62 583	548 1,305	1,476	1,305	572	606	1,253	52
₹R. ∫₽.	1,355	19 1,195	171 2,550	1,359	2,550	719	1,598	2,417	133
₹R. ⊊P.	133 517	35 447	168 964	1,016	964	251	640	920	44
₹R. ₹P.	45 683	7 454	52 1,137	1,409	1,137	517	491	1,016	121
₹R. ∫₽.	229 1,776	43 1,511	272 3,287	1,695	3,287	1,594	1,456	3,105	180
(R. (P. (R.	86 1,623 22	17 1,310 10	103 2,933 32	1,482	2,933	1,115	1,589	2,763	170
{P. {R.	9,042 2,961	7,477 960	16,519 3,921	1,703	16,519	6,601	8,266	15,255	1,250
5 P.	1,663	1,614	3,277	1,685	3,277	1,683	1,352	3.072	205
R. FP. R.	84 1.571	10 1,321	94 2,892	3,056	2,892	1.721	881	2,667	205
₹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. {R.	137 859	23 751	160 1,610	1,672	1.610	902	639	1,562	48
CP.	53 951	9 845	62 1,796	1,831	1,796	934	819	1,766	30
₹ R. {P. {R.	30 899	5 769	35 1,668	1,865	1,668	896	644	1,585	79
₹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	7,274 113	15,668 762	1,826	15,671	8,554	5,959	14,730	934

STATEMENT

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						1	Re-Vaccination.	
1								
No.		Circles a	and Distric	ts.		Te	Cussesselul	Unimann
					50	To .	Successful.	Unknown.
-101111						1.1.1		
1		and sur	2		-	15	16	. 17
1	Karachi			T. C.		21,876		21,876
2	Do.			C. C		152		
3	Do.			R. C.		53		8
4	Tatta			R. C.		66	19	17
5	Do.			T. C.		31	16	5
6	Mirpur Sacro			R. C.		91	24	58
7	Ghorabari					4		1
	Sujawal					36	2	1
8	Jati						6	5
9	Shah Bunder					18		5
10						19	2	
11	Mirpur Bathoro					41	7	10
	and the second		Kar	achi District Total		22,387	187	21,986
-	T EAG							
12	flyderabad			T. C.		2,547	112	1,705
13	Do.			C. C.		28	28	
14	Do.			R. C.		548	38	173
15	Tando Bago					171		10
16	Badin					168	37	65
17	Dero Mohabat					52		10
18	Tando Allahyar			,,		272		132
19	Hala					103	20	37
20	Guni					32	1	9
			Hyder	abad District Total		3,921	236	2,141
21	Shahdadpur			R. C.		94	25	29
22	Kandiaro					164	28	24
23	Naushahro Feroz	æ				160	26	55
24	Sakrand					62	3	25
25	Moro					35	13	12
26	Nawabshah					197	17	37
27	Sinjhoro					50	3	10
			Nawab	shah District Total		762	115	192
	and the second second							

No. I.-contd.

	in which	Re-vaccination.	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	Average cost of each successful case performed by the vaccination		
	18	19	20	21	staff only,			
-					22	23		
	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					
-	99.51	46.63	34.90	18,409-4-9	20,210	0-14-7		
				1000				
	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					
	100.00	20100	32.66					
	100.00	24-76	31.06					
	100.00	8.11	25.05		-			
	100-00	56.52	- 29-87					
	99-75	10.63	25.47					
	100-00	7.50	28.67	***				
-	99.97	33.68	29.89	9,472-1-9	14,845			

STATEMENT

io.		Circ	cles and I	Districts.				Population of District according to census of 1931.	Average population per square mile.	Average number of Vaccinator employed throughout the year.
1	un l	10	2					3	4	5
28	Mirpurkhas					R. C.		47,536		1
29	Samaro	3 Tos		·		,,		43,779		1
30	Jamesabad					,,		30,745		1
31	Chachro		'			31		61,974		1
32	Nagar Parkar					39		41,726		1
33	Diplo							25,242		1
34	Mithi	14				,,		45,709		1
35	Khipro	· ·				,,		51,030		2
36	Sanghar							33,777		1
37	Dighri	·						43,053		1
38	Umarkot							39,628		1
39	Do.					T. C.		3,841		
			Tha	r and Parka	r Dist	rict Total	ı	4,68,040		12
40	Dadu					R. C.		57,549		1
40 41	Sehwan					.,		.45 0.96		1
42	Johi					,,		51,448		1
43	Kakar							48,448		1
44	Mehar							63,001		1
45	Kotri					,.		53 787		1
46	Kohistan					,,		17 974		1
	10-0	Ne.41		Dad	lu Dist	rict Tota	1	3,36,693		7
47	L arkana					т С.		26,841		1
48	Do.					R. C.		71,272		1
49	Kambar					33		81,745		1
50	Rato Dero							59,781		1
51	Miro Khan					,,		. 47,214		1
52	Warah							64,783		1 1
	Dokri					39		76,567		1
53	0	e				.,		. 37,196	·	1
53 54	Shahdadkot									

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No. I.-contd.

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						Pri	imary Vacci	nation.	
		umber of pervaccinated.	sons	Average number of persons			Successfu	ıl.	
	Male.	Female.	Total.	vaccinated by each Vaccinator.	Total.	Under one year.	One and under six years.	Total of all ages.	Unknown
2	6	7	8	9	10	11	12	13	14
{ P. { R.	849	636	1,485	1,695	1,485	947	466	1,442	43
R.	154 639	56 649	210 1,288	1,475	1,288	552	681	1,251	37
(R. (P. (R.	145 514	42 435	187 949	1,236	949	535	325	867	82
CP.	205 1,076	82 890	287 1,966	2,089	1,966	1,005	883	1,933	
(R. (P.	74 417	49 345	123 762	1,541	762	348	348		33
R.	645 477	134 400	779 877	1,020	877	276	486	719	43
2 R −	114 603	29 590	143 1,193	1,280	1,193	439	640	792	85
(P. (R. (P.	66 1,018	21 909	87 1,927	1,041	1,193	854	908	1,101	92
₹К.	143 640	12 630	155 1,270	1,357	1,927		538	1,808	119
{P. (R. (P.	60 644	27 525	87 1,169	1,595		617	458	1,10	90
R.	317 543	109 484	426	1,393	1,169	628		1,1:8	51
(P. (P. (R.	106 24 3	16 24 1	1,027 122 48 4	} 1.201	1,027	570 26	420 - 21	1,006 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
{ P. (R.	733 98	678 28	1,411	1,537	1,411	918	414	1,360	51
P. R.	845 135	684 18	126 1.529	1,682	1,550	850	542	1,438	90
P. R.	848 9	713	153 1,561 9	1,570	1,561	585	860	1,469	92
CP.	808 57	681 2	1,489	1,548	1,489	959	402	1,392	97
R. P. R.	1,325	1,145	59 2,470	2,689	2,471	1,436	796	2,325	144
P. R.	543	459 24	219 1,002	1,097	1,002	329	641	974	28
P. R,	273 137	240 64	95 513 201	714	513	178	232	463	50
P. R.	5,375 683	4,600 179	9,975 862	1,548	9,977	5,255	3,887	9,421	552
(P. R.	477	399	876	1,231	876	509	362	872	4
P. R.	282 1,104	73 920	355 2,024	4,282	2,024	1,180	588	1.801	219
P. R.	778 1,472	1,480 1,301	2,258 2,773 881	3,654	2,773	1,464	955	2,489	283
P. R.	793 1,155 656	88 1,030	2,185	3,058	2,185	1,247	729	2,010	175
P. R.	656 737 470	217 677	873 1,414	1,944	1,414	981	257	1,244	170
P.	479 1,306	51 1,195 720	530 2,501 2,490	4,991	2,501	1,117	869	2,091	378
R. P. R.	1,770	1,019	2,490 2,145 4,224	6,369	2,195	I,295	549	1,863	280
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
Р. 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

L (IV) 2477-15

STATEMENT

	· alle	10.11 0.0	in			1	R	e-Vaccination.	
No.		Circles	and Distri	icts.		-	To .	Successful,	Unknown.
		-					To .	Successiui.	Clikilowi.
							15	16	17
1			2		1	_	15	10	
28	Mirpurkhas				R. C.		210	34	25
29	Samaro						187	10	76
30	Jamesabad						287	17	94
31	Chachro						123	4	19
32	Nagar Parkar						779	2	203
33	Diplo			•			143	12	52
34	Mithi			~			87	7	45
35	Khipro						155	17	86
36	Sanghar				,,		87		7
37	Dighri						426	74	107
38	Umarkot						122	6	6
39	Do,				т. с.		4		
	. 100 = 1		Thar Park	ar District '	Total		2,610	183	720
40	Dadu				R. C.		128	6	91
41	Sehwan						153	26	45
42	Johi				.,		9		
43	Kakar						59	18	24
44	Mehar						219	23	141
45	Kotri				·		95	24	25
46	Kohistan						201	8	5
				Dadu Dist	rict Total		862	105	331
47	Larkana				т. с.		355	6	144
48	Do.				R. C.		2,258	908	680
49	Kambar						881	106	170
50	Rato-Dero						873	279	287
51	Miro Khan						530	29	285
52	Warah						2,490	328	1,184
53	Dokri						4,224	792	1,954
54	Shahdadkote						108	26	33
			L	arkana Dist	rict Total		11,719	2,474	4,737

No. I-contd.

in which were	successful cases the results known	Persons successfully vaccinated per 1,000 of population.	Total cost of Vaccination Department.	Number of all successful Vaccinations and Re-vaccinations performed by the vaccination	Average cost of each successful case performed by the vaccination staff.
Primary,	Re-vaccination.			staff only,	
18	19	20 .	21	22	23
100.00	18.38	31.05			
100.00	9.01	28.80			
100.00	8.81	28*75			*
100.00	3.85	31-26			
100.00	0.35	17.28			
100.00	13-19	31.85			
100.00	16.67	24*24			
100.00	24.64	35'76			
100.00		34.94			
100.00	23.20	27'69			
100.00	5.17	25.54			
97-92		12:24			
99.98	9-68	28*74	12,252-14-6	13,447	0-14-7
100.00	17.14	23*74			and put at
99.92	. 21.07	32.47			
100.00		28.55			
102.00	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	2-84	32*71			
99*78	57.54	38*01			
99-96	14.91	31.75			
100.00	24:05	38.31			
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	35.52	11.677-1-6	16,531	0-11-4

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STATEMENT

No.		Ci	rcles and	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
55	Shikarpur					т. с.		62,505		1
56	Do.					R. C.		73,419		1
57	Sukkur					R. C.	•••	66,350		1
58	Do.					т. с.		69,277		1
59	Rohri					R. C.		77,826		1
60	Do.					т. с.		16,900		1
61	Ghotki					R. C.		46,839		1
62	Mirpur Mathel	o		· ' ·	• •••			48,556		1
63	Garhi Yasin							68,674		1
64	Pano Akil						•••	47,287		1
65	Ubauro					**		46,146		1
				Sukkur	Dist	rict Total		6,23,779		11
66	Jacobabad					т.с.		15,748		1
67	Do,					R, C.		71,561		1
68	Garhi Khairo							***		1
69	Thul							61,303		1
70	Kandhkote			• •••		.,		64,525		1
71	Kashmor					.,	•••	41,407		1
			Upper	Sind Frontier	Dist	rict Total		2,54,544		6
					s	and Total		38,87,070		80

No. I-contd.

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				1.		Pri	mary Vacci	nation.	
	Total ni v	umber of pers accinated.	sons	Average number of persons vaccinated by each	Total.		Successfu	l.	Unknown
	Male.	Female.	Total.	Vaccinator.		Under one year.	One and under six years.	Total of all ages,	Chalow
	6	7	8	9	10	11	12	13	14
{ P. { R,	950 96	914 90	1,864 186	2,050	1,864	1,131	720	1,856	8
{P. (R,	1,448 185	1,362 53	2,810 238	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
{ P. { R.	984 87	902 18	1,886 105	1,991	1,886	1,231	614	1,851	35
{P. {R.	1,257 274	1,105 18	2,362 292	2,654	2,362	1,476	719	2,228	134
{ P . (R.	170 10	206 4	376 14	390	376	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
{ P. (R,	1,256 210	1,198 50	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.	780 35	692 3	1,472 38	1,510	1,472	827	511	1,343	129
{ P . (R.	10,2+6 1,103	9,481 312	19,727 1,415	1,922	19,727	12,428	5,666	18,297	1,430
∫ P. (R.	327 427	296 133	623 560	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
{ P. (R.	662 58	599 6	1,261 64	1,325	1,261	51£	588	1,145	116
{ P. (R.	1,309 565	1,162 283	2,471 848	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	513 31	1,155 221	1,376	1,155	659	414	1,093	62
{ P . (R.	5,117 1,672	4,484 693	9,661 2,365	2,004	9,661	5,008	3,686	8,969	692
(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

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STATEMENT

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٩o.						-	Re-vaccination.		
		Circles and Distric		s,		1	Total.	Successful.	Unknown.
1			2	91			. 15	16	17
55	Shikarpur		1961		т. с.		. 186	49	93
56	Do.				R, C,		238	64	55
57	Sukkur						203	. 17	99
58	Do.				т. с.		105	5	51
59	Rohri				R, C,		292	2	287
60	Do.				т. с.		14	2	6
61	Ghotki				R. C.		23		21
62	Mirpur Mathelo				.,		41	- 2	13
63	Garhi Yasin				.,		260	77	59
64	Pano Akil						15		5
65	Ubauro						38	3	18
	the set		Sukk	ur Dist	rict Tota		1,415	221	707
66	Jacobabad				т. с.		560	37	356
67	Do.				R. C.		410	61	165
68	Garhi Khairo						64	11	41
69	Thul						8 48	185	417
70	Kandhkote						262	22	139
71	Kashmore						221	27	76
	-	Uppe	r Sind Front	tier Dist	rict Tota	1	2,365	343	1,194
	amaran	and a		-	and Tota	,	46,041	3,864	32,008
No. I.-contd.

Percentage of s in which were l	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
Primary.	Re-vaccination.	tion.	Department.	the vaccination staff only,	by the vaccination staff.
18	19	20	21	. 22	23
100.00	52*69	30.48			
100.00	34.97	36*23			
100.00	16.32	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	**		
100 00	17.89	31-41			
100.00	18.22	27.05			
100.00	29*29	35'58	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.		Circle	es 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
1	Karachi	District						3,15,413		8
2	Hyderabad							5,62,373	,	10
3	Nawabshah	.,						4,96,612		9
4	Thar Parkar							4.64,199		12
5	Larkana				12.			4,38,558		7
6	Dadu				1			3,36,693		7
7	Sukkur							4,75,097		8
8	Upper Sind	Frontier						2,38,796		- 5
			Sin	d Total exc	luding	Towns'		33.27,741		66
		KARAC	HI COLL	ECTOBATE.						
	Karachi					T. C.	***	2,54,031		e
	Do.					C. C.	"			1
	Tatta					т. с.		9,635		
						Total		2,63,666		. 7
	-	HYDERS	BAD COL	LECTOBATE						
	Hyderabad					т. с.		96,021		1
	Do.				••1	C. C.		4,530		-
						Total		1,00,551		2
		NAWABS	HAN COL	LECTO BATE.						
		Тилв Р.	ARKAR CO	LLECTORAT					1	15
	Umerkot					T. C.		3,841		
	1					Total		3,841		
	1 h.	LARKA	NA COLL	ECTORATE.						
	Larkana					T. C.	•••	26,841		1
						Total		26,841		1
	20-2	DAD	U COLLE	CTORATE.						
	-	. SUKE	UR COLL	ECTORATE.						
	Sukkur					т. с.		69,277		1
	Shikarpur							62,505		1
	Rohri							16,900		1

No. I.-contd.

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	Total number of persons			Pri	mary Vacci	ination.				
	Total n	umber of per vaccinated.	sons	Average number of persons	1		Successfu	ıl.		-
N	Male.	Female.	Total.	vaccinated by each Vaccinator,	Total.	Under one year.	One and under six years,	Total of all ages.	U	aknown
	6	7	8	9	10	11	12	13		14
{P. {R.	3,904	3,055 78	6,959	3 . 911	6,959	2,391	4,005	6,761	1	195
P.	250 7,741 1,153	6.280 193	328 14,021	1,537	1,4021	- 5,408	7,428	13,212		807
P.R.P.R.	8,394 649	7,274 113	1,346 15,668 762	1,826	15,671	8,554	5,959	14,730		934
{P. (R.	7,420 2,029	6,493 577	13,913 2,606	1,377	13,913	6,771	6,153	13,217		694
{P. {R.	7,875 7,653	6,995 3,711	14,870 11,364	3,748	14,870	8,367	4,536	13,185		1,646
{P. (R.	5,375 683	4,600 179	9,975	1,548	9,977	5,255	3,887	9,421		552
{P. (R.	8,142 910	7,459 200	15,601 1,110	\$ 2.089	15,601	9,869	4,165	14,226	-	1.375
{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
· ·	7,492	7,185	14,677			ingenet	(Second)			
{P. {R. 5P.	14,980	6,896 36	21,876 73	\$ 6,092	14,720	8,743	3,250	13,020	101	1,567
? R.	149 114	3 82	152 196	\$ 325	73	28	31	65	٢.,	
{P. R.	26	5	31	3	197	64	80	. 177		11
{P. R,	7,643 15,155	7,303 6,904	14,946 22,059	} 5,286	14,990	8,835	3.361	13,262		1,578
					101	Comparison in	Direction and			
{P. (R.	1,272 1,788	1,168 759	2,440 2,547	\$ 4,987	2,440	1,166	813	1,987		442
{P. (R,	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
{P. (R.	24 3	24 1	48 4	}	48	26	21	47		
{P. (R.	24 3	24 1	48 4	}	48	26	21	47		
{P. (R.	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
		•••		,						
CP	984	902	1,886	2 1001	1 000	1.000				
R.	87 950	18 914	105 1,864	\$ 1,991	1,886	1,231	614	1,851		35
{P.R.P.R. {P.R.P.R. {P.R.	96 170 10	90 206 4	186 376 14	{ 2,050 } 390	1,864 376	1,131 197	720 167	1,856 364		8 12
{P. {R.	2,104	2,022 11,2	4,126 '	} 1,477	4,126	2,559	1,501	4,071	-	55

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					T	1		Re-vaccination.	P
									1997.00
No.		Circles	and Distric	ots,			Total.	Successful.	Unknown,
							1 otali	ouccastar.	chalown.
1			2	1.11			15	16	17
							-		
1	Karachi Dis						328	60	105
2							1,346	96	436
3		"			**		762	115	192
4	Thar Parkar ,	1				•••	2,606	183	720
5					-		11,364	2,468	4,593
6					•		862	105	331
7							1,110	165	557
8	Upper Sind Fro	ntier					1,805	306	838
	ELM-		Sind Tota	l excluding	Towns		20,183	. 3,498	7,772
		KARACHI	COLLECTO	BATR.					
	Karachi			1	r. c		21,876		21,876
	Do	· ·		(с. с.		152	· 111	
	Tatta			1	r. c.		31	16	5
					Total		22,059	127	21,881
		HYDEEABAD	D COLLECT	OBATE.					
	Hyderabad			Terra. 1	г. с.		2,547	112	1,705
	Do			(c. c.		28	28	
	1				Total		2,575	140	1,705
		NAWABSHA							
	and the second second	THAR PARK						The second	
	Umerkot	•••		1	г. с.	***	4		
		Linnin	Collecto	D A MIT	Total		4		24
	Larkana		COLLECTO	катв. 1	E. C.		355	5	144
	Distantia in								
					Total		355	6	144
			OLLECTORA						
		SUKKUB	Collector		-				
	Sukkur			7	r. c.		105	5	51
	Shikarpur		10				186	49	93
	Rohri						14	2	6
					Total		305	56	150

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 vaccinatio
Primary,	Re-vaccination.	population.		vaccination staff only,	staff.
18	19	20	21	22	23
99:95	26*91	21*63	8,271-10-6	6,821	1- 3- 5
99'98	10.22	23.66	10,751- 5-0	13,308	0-12-11
99.97	20.18	29*49	9,472- 1-9	14,845	0-10-3
99*98	9.70	28*87	12,262-14-6	13,400	0-14- 8
99*70	36*45	35*69	8,039-12-6	● 15,653	0- 8- 3
99*98	1977	28*29	7,063-6-0	9,526	0-11-10
100.00	29'84	30*29	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		51-25	10,637-10-3	13,020	0-12- 5
89*04	73'03			176	
95°67	61*54	20.03		193	
99*21	71.35	50-78	10,137—10—3	13,389	
99.45	13'30	21.86	2.818-15-0	2,099	1- 5- 0
98-25	100.00	18.50		84	
99'42	16:09	21.71	2,818-15-0	2,183	
97*92				47	
97*92				47	
100'00	2.84	32.71	951- 1-0	878	1- 1- 4
100.00	2.84	32.71	951 10	878	1-1-4
					**.
100.00	9*26	26*79	1,218- 0-0	1,856	0-10-6
100.00	52.69	30*48	864- 0-0	1,905	0 7 3
100*00	25'00	21.65	727 - 5-0	366	11-5-10
100.00	36'13	27-76	2,809- 5-0	4,127	0-10-11

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_				and the second	_	and the second		- A
No.		Circles and	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
	UPI	PER SIND FRONTI	EE COLLECTOR	ATE		14		
	Jacobabad			T. C.		15,748		1
	-11-0	ether a		Total		. 15,748		1
				Towns Total		5,59,329		14
	Inspector's cos	t			"			
	-4-0-			Sind Total		38,87,070		80
		Dar Canaca			-			
	Local Board		AL STAFF.			33,27,741		66
	Municipalities			·		5,54,799	•	12
	Cantonments	·····				4,530		2
	1.20			Sind Total		38,87,070		80
	By Prison Dis	pensary Staff						
	By Railway	Do.						
	Private Medic	al Practitioners	··· . ···					
				Total				
	2-2-2			GRAND TOTAL			·	

No. I.-contd.

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							Priz	nary Vaccin	ation.	
		mber of pers	ons	nu	werage umber of ersons			Successful		
	Male.	Female.	Total.	va	ccinated by each accinator.	Total.	Under one year,	One and under six years.	Total of all ages.	Unknown
	6	7	8		9	. 10	11	12	13	14
							lan ing			
{ P. (R.	327 427	296 133	623 560	2	1,183	623	300	297	601	22
{ P. R.	327 427	296 133	623 560	25	1,183	623	300	297	601	22
{ P. R.	11,876 17,878	11,241 7,990	23.117 25.858	3	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	3	2,115	1,23,211	64,745	45,902	1,14,016	8,975
				-						
{ P. (R.	53,701 14,572	46,344 5,611	1,00,045 20,183	3	1,822	1,00,050	51,323	39,522	93,120	6,873
{ P. (R.	11,810 17,699	11,176 7,979	22,986 25,678	3	4,055	23,030	13,367	6,324	20,775	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	3	2,115	-1,23,211	64,745	45,902	1,14,016	8,975
{ P. (R.	213 3,791	7 39	220 3,830	3		22)	4	2	220	
{P. R.	150 1,259	106 270	256 1.529	3		256	. 103	96	222	26
{ P. (R,	15 1	8 1	23 2	3		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

		- Maria Cam	01171		-	F	e-Vaccination.	
					1			
No.	eut)	Circles a	nd District	s.		To .	Successful.	Unknown.
1	and the		2			15	16	17
-	[1	-		
	UPPER	SIND FRO	NTIES COL	LECTOFATE.				
	Jacobabad			T. C,	-	560	37	\$56
	100			Total	-	560	37	356
	Teno			Towns Total		25,858	366	24,236
	Inspector's cost			.				
	HD.H.L			Sind Total		46,041	3,864	32,008
		By SPI	ICIAL STAF	¥.				
	Local Board					20,183	3,498	7,772
	Municipalities					25,678	227	24,236
	Cantonments				-	180	139	<u>81</u>
	-10.0.1			Sind Total		46,041	3,864	32,008
	By Prison Dispe	nsary Staff				3,830	2,347	123
	By Railway	Do.	-			1,529	405	899
	Private Medical	Practitione	rs			2		<u>•</u>
	-			Total		5,361	2,752	1,022
	The second			GRAND TOTAL		51,402	6,616	33,030

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No. I.—contd.

in which	auccessful 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	1-6-3
100.00	18.14	40.51	886-15-0	638	1-6-3
99*43	22.56	38-01	17,603-14-3	21,262	0-13-3
	*		13.081—0—0		
99-85	27*54	30'33	1.00,759—9—6	1,17,880	0-13-8
- Martine		- May read	Day and		
99-94	28*18	29.03			
99*47	15.74	37*85			
93'08	77-22	57*40			
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					
97.68	63*42	·····			
99*84	36*01				

STATEMENT NO. I.—contd.

Summary.

					umber of accinated	L.	Total nu operations	mber of performed.			of successfu tich results nown.
			Prim	ary.	Re-vao cinatio		Primary,	Re-vac- cination,	Prin	nary.	Re-vac- cination.
By Special Sta	ff (Statement I)	1,23	,162	46,0	41	1,23,211	46,041		99*85	27.54
By Dispensary	Staff (Stateme	nt III).		476	5,3	59	476	5,359		98'22	63*45
By other Agen	cies, if any			23		2	23	2		95.00	
	т	otal	· 1,23	,661	51,4	02	1,23,710	51,402		99.84	36'01
Average n persons vac each vac	ccinated by		mber o		dren nated.		Ratio of successful	Total cos		0	rage cost
Vaccinators employed,	Persons vaccinated by each vaccinator.	Under yea		uno	ne and ler six ears.	1.5	of opulation.	departme	nt.	su	ccessful case.
80	2,115	6	4,745		45,902		30'33	1,00,759	96	1	0-13-8
			107		98	10				1 111	
		1	19								

80

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2,115

64,871

46,000

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STATEMENT NO. 1.-contd.

Summary.

**************************************			umber of accinated.	Total nu operations	mber of performed.	Percentage of successful cases in which results were known.		
		Primary.	Re-vacci- nation.	Primary.	Re-vacci- nation.	Primary,	Re-vacci nation.	
Districts excluding towns		 100,045	20,183	100,050	20,183	99-94	28*19	
Towns		 23,117	25,858	23,161	25,858	99*43	22.50	
By Dispensary Staff		 220	3,830	220	.3,830	100.00	63*31	
By private Medical Practit	ioners	 23	2	23	2	95.00		
By Railway Dispensaries		 256	1,529	255	1.529	96.52	64-25	
	Total	 123,661	51,402	123,710	51,402	99:84	36*01	
Average number of persons vaccinated by each vaccinator.	Number o successfu		Ratio of			umber of	Average	

persons vad each va	ccinated by	successfully vacci- nated.		Ratio of successful vaccinations per 1,000 of	• Total cost of Department,	Number of all success- ful vacci- nations	Average cost of each successful	
Primary.	Re-vacci- nation,	Primary.	Re-vacci- nation,	population.		performed.	case.	
					Rs. a, p.			
1,516	306	93,120	3,498	29.27	70,074 11 3	96,618	0 11	7
1,651	1,847	20,896	366	38.01	17,603 14 3	21,262	0 13	3
		220	2,347					
		19						
		222	405					
								-
1,540	576	114,477	6 616	30.33	1,00,759 9 6	121,093	0 13	4

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Vaccination

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

			1			-			-	
Establishments.	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.	
1000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								YEAT	as Endad	
and the second	1927-28,		1928-29.		1929-30.		1930-31.		1931-	
Government	***									
Municipality	13,492	12,056	14,725	12,851	18,046	15,421	16,384	14,174	18,431	
Local Funds	81,813	76,923	84,093	79,061	69,723	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	4,916	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.

red.									
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.
Мавси.								,	
1932-33.		1933-34.		1934-35.		1935-36.		1936-37.	
21,469	17,558	19,004	15,180	21,334	17,791	22,395	18,926	22,986	20,775
94,804	89,650	88,707	83,569	90,698	84,656	96,412	89,768	1,00,045	98,120
91	91	62	62	139	139	60	60	131	121
6,352	6,215	6,579	6,459	6,406	6,257				
1,747	1,398	841	620	334	276	521	455	499	461
		`							
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
	Total Number. 1932 21,469 94,804 91 6,352 1,747 	Total Number. Number success- fully vacci- nated. MARCH. 1932-33. 21,469 17,558 94,804 89,650 91 91 6,352 6,215 1,747 1,398	Total Number. Number success- fully vacci- nated. Total Number. MARCH. 1932-33. 1933 1932-33. 1933 21,469 17,558 19,004 94,804 89,650 88,707 91 91 62 6,352 6,215 6,579 1,747 1,398 841	Total Number. Number success- fully vacci- nated. Total Number. Number success- fully vacci- nated. MARCH. 1932-38. 1933-34. 1932-38. 1933-34. 1932-38. 1933-34. 1 21,469 17,558 19,004 15,180 94,804 89,650 88,707 83,569 91 91 62 62 6,352 6,215 6,579 6,459 1,747 1,398 841 620	Total Number. Number fully vacci- nated. Total Number. Number success- fully vacci- nated. Total Number. MABCH. 1932-33. 1933-34. 1934 1932-33. 1933-34. 1934 1932-33. 1933-34. 1934 1932-33. 1933-34. 1934 1932-33. 1933-34. 1934 1934 15,180 21,334 94,804 89,650 88,707 83,569 90,698 91 91 62 62 139 6,352 6,215 6,579 6,459 6,406 1,747 1,398 841 620 334	Number Number. Number success- fully vacci- nated. Number Number. Number success- fully vacci- nated. Number success- fully vacci- nated. 1932-33. 1933-34. 1934-35. 1932-33. 1933-34. 1934-35. 1932-33. 1933-34. 1934-35. 1932-33. 1933-34. 1934-35. 1932-33. 1933-34. 1934-35. 1932-33. 1933-34. 1934-35. 1932-33. 1933-34. 1934-35. 1932-33. 1933-34. 1934-35. 1932-35. 19,004 15,180 21,334 17,791 94,804 89,650 88,707 83,569 90,698 84,656 91 91 62 62 139 139 6,352 6,215 6,579 6,459 6,406 6,257 1,747 1,398 841 620 334 276	Total Number. Number success- fully vacci- nated. Total Number. Number success- nated. Number success- nated. Total Number. Number success- nated. 1932-33. 1933-34. 1934-35. 193 21,459 17,558 19,004 15,180 21,334 17,791 22,395 94,804 89,650 88,707 83,569 90,698 84,656 96,412 91 91 62 62 139 139 60 6,352 6,215 6,579 6,459 6,466 6,257 1,747 1,398 841 620 334 276 521	Number, Number, 1100 1100 1100 1100 1100 1100 1100 11	Number, Number, nated. Number, Number, Number, nated. Number, Number, Number, nated. Number, Success- fully vacci- nated. Number, Number, Number, Number, Number, Number, Number, Number, Number, Number, Number, Number, Number, Total Number, Number, Number, Number, Total Number, 1932-33. 1933-34. 1934-35. 1935-36. 1936- 1936- 1932-33. 1933-34. 1934-35. 1935-36. 1936- 1936- 21,469 17,558 19,004 15,180 21,334 17,791 22,395 18,926 22,986 94,804 89,650 88,707 83,569 90,698 84,656 96,412 89,768 1,00,045 91 91 62 62 139 139 60 60 131 6,352 6,215 6,579 6,459 6,466 6,257

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