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Contributors

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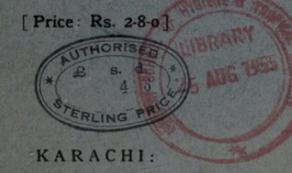
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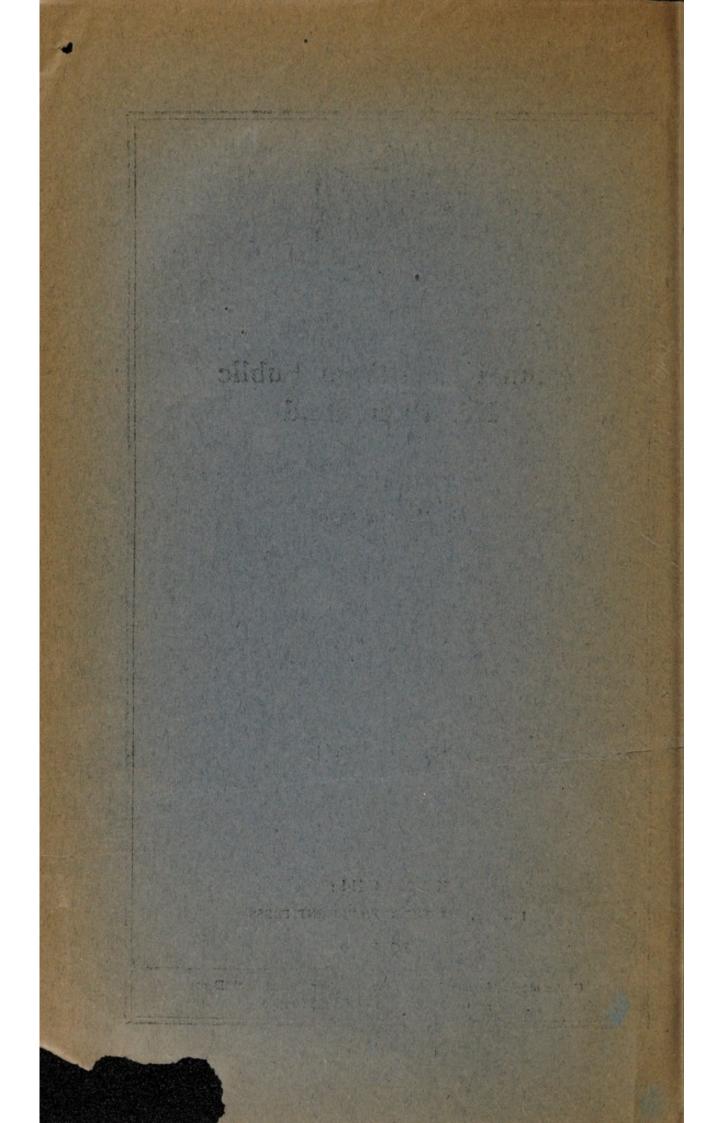
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ANNUAL REPORT ON PUBLIC HEALTH, 1939.

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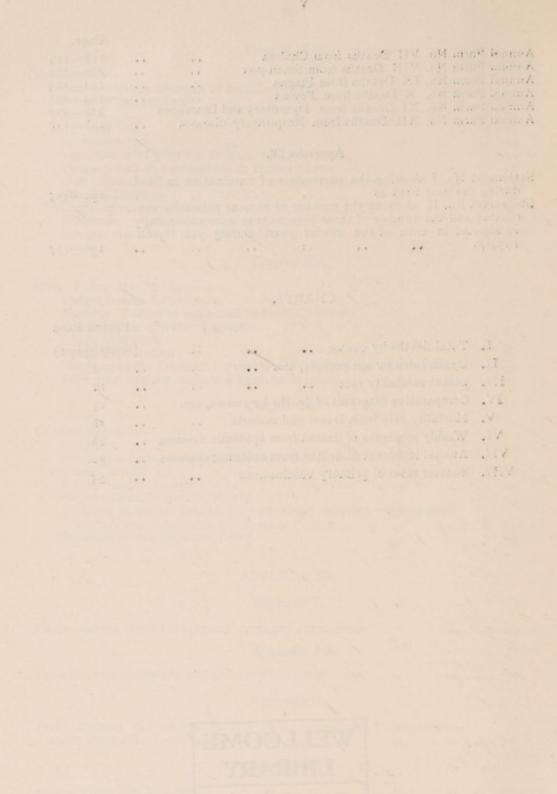
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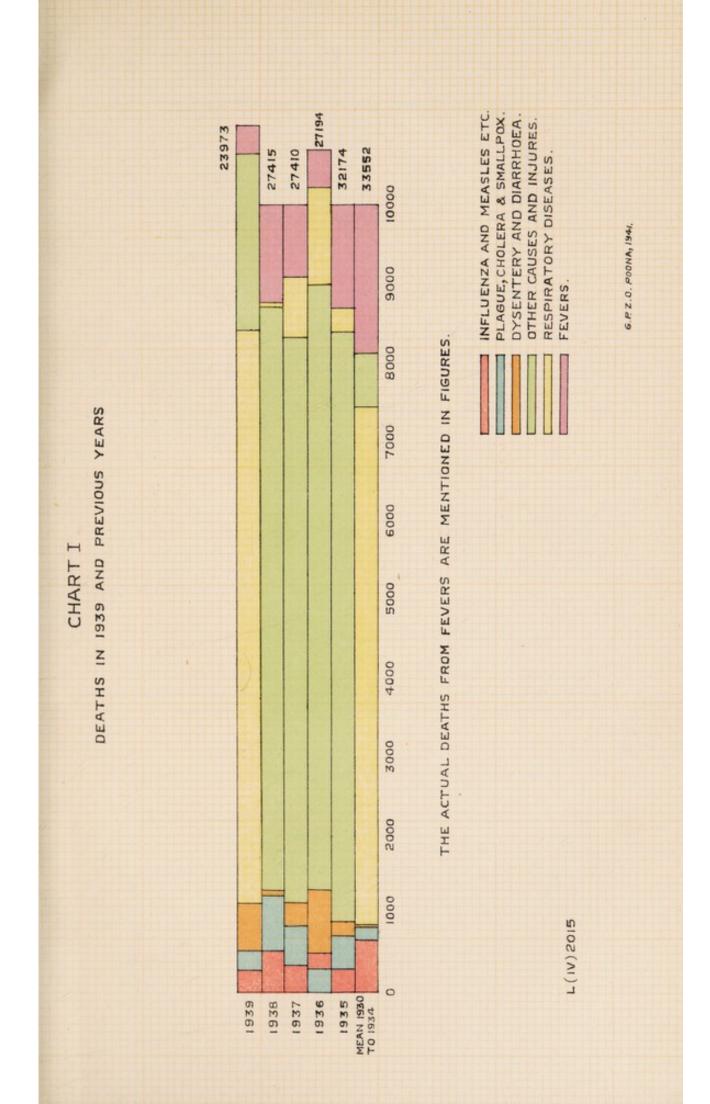
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CHAPTER I.

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

1. Rainfall.-

(a) The Cold Weather Period-January and February.

The total rainfall over Sind as a whole was in large defect in January, in large excess in February, and was in large excess taking the cold weather period as a whole. Cloud amount was above normal during the period. Humidity was in defect in January and excess in February. Minimum temperatures were generally above normal during February.

(b) The Hot Weather Period-March-May.

Rainfall was, in large excess in March, normal in April and in large defect in May and in large excess taking the hot weather period as a whole. Cloud amount was above normal in March. Humidity was in excess in March and May. Temperatures were below normal throughout the period.

(c) The South-West Monsoon Period-June-September.

Actual rainfall during the period was 0.24 showing a percentage departure from the normal of -95. Cloud amount was in excess in June, July and September and maximum temperatures were below normal in June.

(d) The Retreating Monsoon Period-October-December.

Weather was generally dry except for light showers in Karachi on the 22nd and 23rd November. Rainfall was in slight defect in November and there was no rain in October and December. Cloud amount was in defect in October and November and in excess in December. Humidity was normal. Both maximum and minimum temperatures were normal in October and above normal in the other two months.

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The total rainfall during the year was 3.07" and was 51 per cent. below the average.

2. Economic Conditions.—Due to lack of rain during the last monsoon season, cultivation in non-barrage tracts received a setback, and even in barrage areas crops showed signs of water deficiency. Crop conditions differed in each district. There was a slump in the prices of agricultural commodities but the prices rose on the eve of the outbreak of war. It is yet too early to state how far this has resulted in improving the economic conditions of zamindars. The communal disturbances at Sukkur had an adverse effect on the economic conditions of the people, to whom, however, some relief (in deserving cases) was given in cash, grain, bedding and loans.

In the desert division there was no timely rain and the belated showers that fell at the end of the season were insufficient for the growth of grain crops or natural grass. Cattle died in large numbers and the labour class migrated to Sind for work. Cheap grain and fodder shops were opened at various centres in the desert tract. Liberal taccavi grants were made both for maintenance and agricultural purposes and relief works were started to provide labour for those able bodied persons who remained there.

A large number of famine-stricken people moved into Badin taluka in Hyderabad district, necessitating special relief measures. Cheap grain shops were opened in several villages. The Public Works Department gave free supplies of water for raising pasture in Government waste and occupied lands. The Special Roads Engineer employed some 500 of the men on his road works, while the Railway allowed concessional rates for the transport of fodder.

There were no extensive floods in the Province. In Larkana district there were some floods in Rabi on account of hill torrents on the far side of the Protective Bund in Shahdadkot taluka. Damage to crops was to the extent of six annas in a rupee. There was a break in the Kashmore-Sehwan Bund in Larkana taluka also and a portion of the Bund was eroded. About 250 acres of rice land in Garhi Yasin taluka, Sukkur district, were flooded owing to a breach in the Khirthar Branch Bund. Cultivation did not suffer seriously. Seedlings were lost to a certain extent, but the crops were benefitted eventually by extra water. A few houses only were damaged.

CHAPTER II.

VITAL STATISTICS (INCLUDING POPULATION, EMIGRATION AND IMMIGRATION).

1. The Province of Sind comprises 8 Revenue Collectorates (including the City of Karachi). There were 61 Rural Circles (talukas and mahals), 26 Town Circles and 3 Cantonments. These divisions are shown in Appendix III to this report.

2. Emigration and Immigration.—The Port of Karachi is declared to be a port from which emigration of skilled labour is lawful. Unskilled labourers do not proceed from this port to any other countries outside India. Skilled workers emigrated mainly to Iran, Bahrein, Iraq, Ceylon, America, Africa, St. Settlements, Japan, China, Phillipine Islands, and Europe, etc.

The bulk of the emigrants registered at the port were recruited by Sind Work Merchants and were mainly drawn from the Province. They proceeded abroad under agreements approved by the Government. The minimum pay permitted must not be less than Rs. 30 per mensem and the maximum is sometimes as much as Rs. 400 per mensem. The health of the emigrants proceeding abroad and those who returned was generally good. The number of emigrants registered was 574 in 1939.

No immigration was reported to have occurred.

3. Population.—The birth and death rates are calculated on the population as recorded at the census of 1931. According to this census the population of the province is 38,76,388 and is distributed as follows :—

Rural Circles	 31,91,186
Town Circles	 6,72,432
Cantonments	 12,770

This population is inclusive of the figures for Europeans and Anglo-Indians. Separate information by localities for these communities is not available.

Estimated population.—In accordance with the Government of India's letter, Department of Education, Health and Lands, No. F.-96-43/32-H., dated the 15th August 1932, the estimated population for the year 1939 for the province by Collectorates and

Name of Collectorate.	Census populatiou 1921.	Census population 1931.	Estimated population 1939 (mid year.)	Birth-rate based on population of 1931.	Birth-rate based on estimated population 1939 (mid year.)	Death-rate based on population of 1931,	Death-rate based on estimated population 1939 (mid year.)
1	2	3	4	5	6	7	8
Karachi		5,79,432		32.76		16-05	
Dadu		3,34,282		17.70		9.29	
Larkana		4,52,141		22-88		10-97	
Upper Sind Frontier,		2,60,326	\	13.62		6'86	
Hyderabad	5,73,450	6,61,776	7,35,376	15.20	13*68	11.08	9.09
Nawabshah	4,18,660	4,96,612	5,61,570	14.88	13*16	9.08	8*04
Thar Parkar	3,96,331	4,68,040	5,27,798	20*65	18.31	14'11	12.53
Sukkur	5,10,292	6,23,779	7,18,454	24.10	20*92	11.52	10.01
instants				viller son			dis sam
Total	32,79,377	38,76,388	43,73,896	20*88	18*52	11.55	10.23

the birth and death rates based thereon are shown in the following table :--

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

4. Changes in Area.-No territorial changes took place during the year under report.

EUROPEAN AND ANGLO-INDIAN VITAL STATISTICS.

Vital statistics figures for Europeans and Anglo-Indians have been included in the Christian group and have been incorporated with those for other communities. This has been done in accordance with the Note by the Public Health Commissioner with the Government of India which has been commended to the Government of Sind by the Government of India in their letter No. F.-45-14(7)-39-H., Department of Education, Health and Lands, dated the 3rd February 1940.

VITAL STATISTICS.

2. Births.—There was a marked increase in the recorded number of live births. The figures for the year under report being 80,946 as against 77,269 in the previous year.

The number of births registered in the past 8 years and the 3 previous decades and the corresponding birth rates were :---

	Years.	No. of Births.	Birth rate.
1901-1	o (Man)	 66,578	20.77
1911-2	ο "	 71,306	20.33
1921-3	0 ,,	 73,693	22.57
1931		 88,261	22.77
1932		 77,976	20.11
1933		 77,789	20.07
1934		 75,729	19.53
1935		 78,843	20.33
1936		 79,536	20.25
1937		 77,389	19.96
1938		 77,269	19.93
1939		 80,946	20.88

3. Provincial birth rate compared with birth rates of other provinces.

The birth rate of 20.88 was recorded during the year under review as compared with 19.93 in the previous year.

The birth rate of Sind compared with that of the other provinces in India, is shown in the following table :---

p	rovince.	2008	1000
r	rovince.	1938.	1939.
Madras		 38.67	38.53
Bengal		 30.48	33'02
Assam		 29.92	29.92
Bihar		 34.48	33.30
Orissa		 33.76	34.92
United Prov	inces	 36.79	36.26
Punjab	•••	 49.20	40.82
Central Prov	vinces	 43.19	38.28
Bombay		 42.22	42.22
North-West	Frontier	 30.26	30.32
Sind		 19.93	20.88

It will be seen from the above figures that as usual the birthrate is low compared with that of the other Provinces.

4. Birth rates in Collectorates.—As usual the highest birth rate was recorded in Karachi district (32.76). This is on account of the inclusion of the figures for the City of Karachi which tends to swell the rate of the district. The next in order was Sukkur district in which a birth rate of 24.10 was registered. The lowest birth rate was recorded in Upper Sind Frontier District (13.62). Of the remaining districts, two returned a birth rate of between 20 and 30 per mille of population and the rest of the three recorded birth rates between 10 and 20.

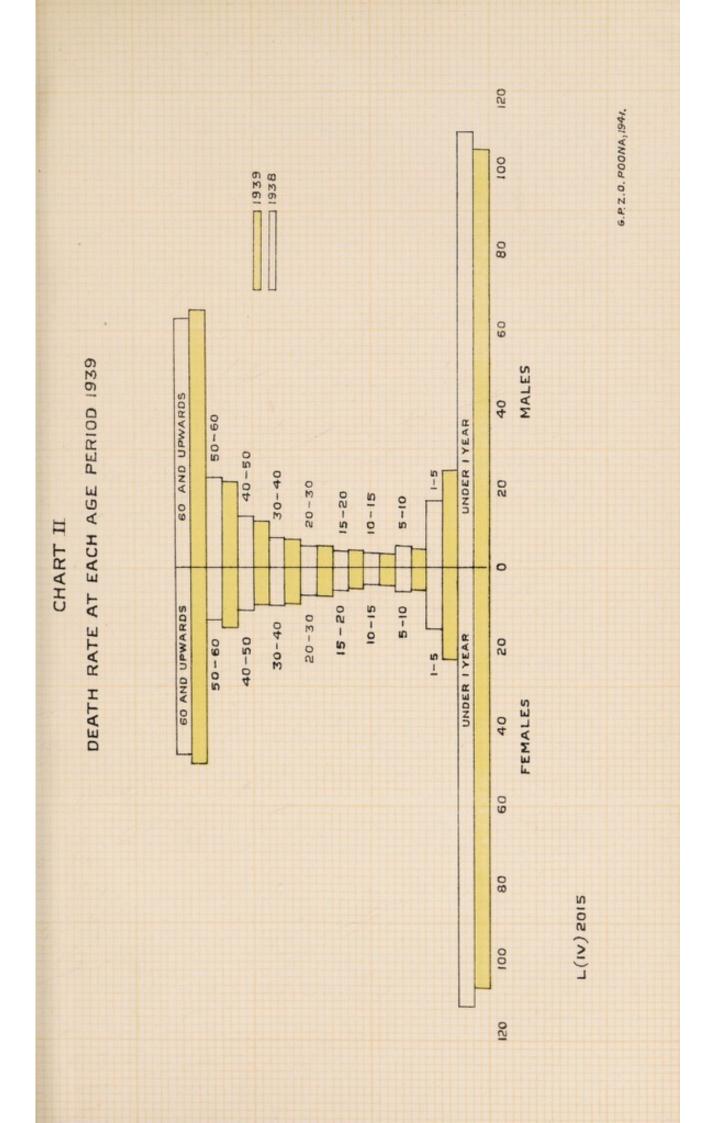
The details of births and birth rates in Collectorates are shown in Annual Form No. I, Appendix III.

5. Birth rates in rural areas.—The number of births during the year under report was 52,994 as against 50,358 in the year 1938 showing an increase of 2,636. The corresponding birth rates were 16.61 and 15.78, respectively, in the years 1939 and 1938.

Of the 61 talukas and mahals, one returned a birth rate between 30 and 40 per mille of population, 19 between 20 and 30, 16 between 15 and 20, 17 between 10 and 15 and the remaining under 10. Nagar Parkar taluka in Thar Parkar District recorded the highest birth rate of 32.57 and was followed by Mithi in the same district (28.90). High birth rates were also recorded in Shahdadkot taluka, Larkana district (27.46) and Sukkur taluka, in Sukkur district (27.41). The lowest birth rate was recorded in Tatta taluka, Karachi district (7.46) as was the case in the previous year also.

6. Births and birth rates in urban areas.—There was an increase in the number of recorded births in urban areas also. During the year under report 27,952 births were registered as against 26,911 in the previous year, indicating the birth rates of 40.79 and 39.27, respectively.

7. Births and birth rates in Karachi City.—The number of births registered in the City of Karachi during the year under review was 14,578 as compared with 14,063 in the preceding year. The birth rates during the years 1939 and 1938 were 58.83 and 56.75, respectively.





		19	39.	1938.			
Cantonment.		No. of Births.	Birth rate.	No. of Births.	Birth rate.		
Karachi		373	59.77	376	60.26		
Drigh Road		29	14.20	36	18.00		
Hyderabad		53	11.20	47	10.38		

8. Births and birth rates in Cantonments.—This is shown in the following table :—

9. Births according to sex.—The male and female births numbered 45,091 and 35,855, respectively. The number of males born to every 100 females born was 125.76 as against 128.44 in the previous year.

10. Still births.—During the year under report 1,033 stillbirths were recorded as against 1,071 in the preceding year, the percentage to live births being 1.28 and 1.04, respectively. The percentage ratio of still-births to live-births varied from 0.11 in Thar Parkar district to 2.66 in Karachi district.

Distribution of still-births by Collectorates, class and sex is shown in Annual Form No. I-(a), Appendix III.

11. Verification of vital statistics.—There was a great increase in the detection of the number of unrecorded births. These rose from 667 in 1938 to 2,517 in 1939. This is no doubt due to the inspecting staff of the Public Health Department becoming more vigilant.

These omissions were brought to the notice of the Revenue Officers and the Municipal Authorities as the case was for necessary action.

12. Deaths.—There was an appreciable decrease in the registered deaths. 44,779 deaths giving a death rate of 11.55 were registered during the year under review as against 48,085 showing a death rate of 12.40 in the previous year. The average number of deaths during the quinquennium ending 1938 was 47,821 indicating a mean ratio of 12.34 (Graph No. I).

C	vious years				
	Year,		Deaths.	Death rate.	
	1901-10 (Mean)		68,335	21.62	
	1911-20 ,,		94,320	26.89	
	1921-30 "		56,174	17.23	
	1931		46,714	12.05	
	1932		59,067	15.23	
	1933		54,239	13.99	
	1934		48,489 -	12.21	
	1935		47,249	12.10	
	1936	51	48,425	12.49	
	1937		46,860	12.00	
	1938	····	48,085	12.40	
	1939		44,779	11.22	

The following table shows the number of deaths registered in the previous years :---

13. Death rate as compared with those in other Provinces.— The following table shows the death rates of the various Provinces during the years 1938 and 1939 :—

Province.			1938.	1939.
Madras			23.46	25.26
Bengal			26 36	21.85
Assam			22.42	22.42
Bihar			23.59	23.00
Orissa			29.49	28.18
Punjab			26.44	20.12
Central Pro			41.07	31.07
United Prov	vinces		25.82	23.09
Bombay			30.47	27.55
North-West	Frontier		22.89	18.74
Sind		•••	12.40	11.55

14. Death rate in Collectorates.—The following table shows the death rates recorded in the Collectorates during 1938 and 1939 compared with the quinquennial mean :—

Colle	ectorates.	Death rate in 1938.	Death rate in 1939.	Quinquennia mean.	
Karachi Hyderabad			17.07	16.05 11.08	16·20 11·87
Nawabshah			10.13	9 0 8	10.33
Thar Parkar Larkana			11.35	14.11 10.97	12.21 11.86
Dadu Sukkur			10.29	9 ^{.29} 11 ^{.52}	10.30
Upper Sind Fr			8.72	6.86	8.06
	Total		12.40	11.22	12.34

15. Death rates in rural areas.—The death rate of 9.72 was recorded in rural areas as against 10.46 in the previous year. Of the 61 talukas and mahals, none recorded a death-rate of above 20 per mille of population. 24 returned death-rates between 10 and 20, and the remaining 37 below 10 per mille of population. The highest death rate was recorded in Chachro taluka in Thar Parkar district (19.14) and the lowest in Kandhkot taluka in Upper Sind Frontier district (4.68).

16. Death rates in urban areas.—In urban areas, the recorded death-rate was 20.11 as compared with 21.43 in the preceding year. Of the 26 town registration circles, one returned a death-rate of 32.32 per mille, 5 between 20 and 30, 14 between 10 and 20 and the remaining 6 below 10 per mille of population.

17. Death rates in Cantonments.—The death rates recorded in the Cantonments were :—

Karachi 17.62; Drigh Road 4.50 and Hyderabad 6.18.

18. Excess of births over deaths.—Out of 80,946 births registered during the year, 52,994 births were in rural areas and 27,952 in urban areas. The registered deaths numbered 44,779 of which 30,998 were in rural areas while 13,781 in urban areas. The excess of births over deaths was 36,167 as compared with 29,174 in 1938.

19. Deaths according to sex.—The number of deaths recorded among males and females was 25,394 and 19,385, respectively. The corresponding death rates were 11.69 and 11.38, respectively. In the year 1938, 27,225 deaths giving death rate of 12.53 were among males and 20,860 deaths giving a death rate of 12.25 were among females. The number of deaths of males to every 100 deaths of females was 131.00 as against 130.51 in 1938.

20. Deaths by caste or classes and by sex.—These are recorded in Annual Form No. V (Appendix III).

21. Deaths according to cause compared with previous years.— The causes of deaths recorded in 1939 compared with 1938 and the quinquennial mean are shown in the following table :—

Causes of deaths.			19	38.	19	39.	Mean of 5 years.		
			Deaths.	Death rate.	Deaths.	Death rates.	Deaths.	Deaths rates.	
Cholera			343	0.00	3	0.0008	79	0.03	
Small-pox			941	0.24	565	0.12	565	0.12	
Plague			0				4	100'0	
Fevers			27,970	7.22	23,973	6.18	28,782	7'42	
Dysentery an	d Diarrhoea		1,316	0'34	1,150	0.30	1,128	0'20	
Respiratory d			8,759	2.20	8,444	2.18	8,827	2.28	
Injuries			850	0.55	966	0.52	863	0.55	
Other causes	105-9-5		7,906	2.03	9,678	2.49	5,571	1.44	
	Total		48,085	12.40	44,779	11.22	47,821	12.34	

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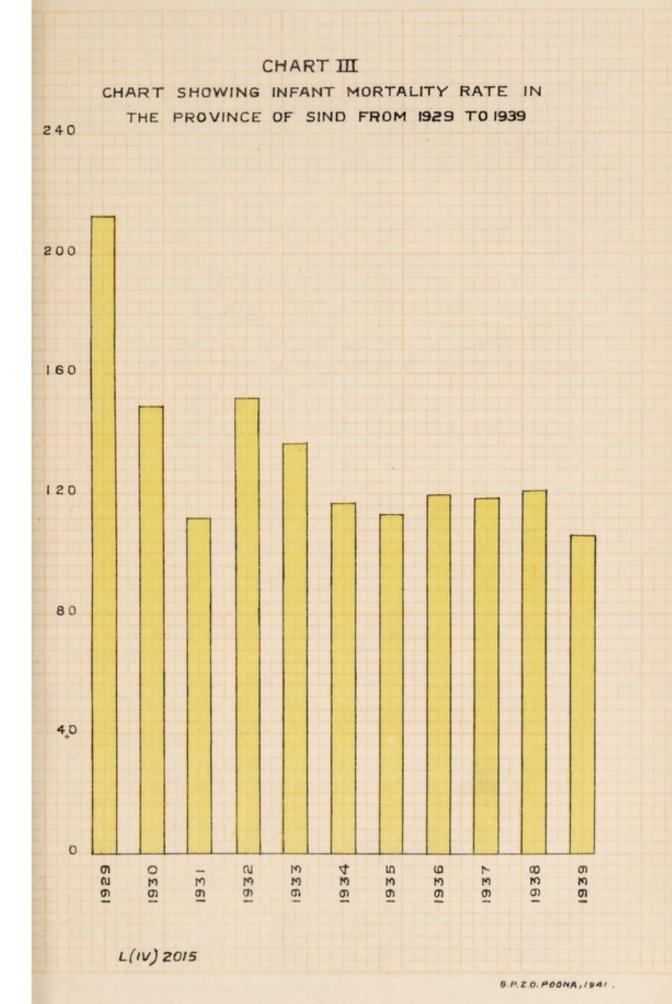
Graphs showing the incidence of deaths due to the chief causes for the year under report, compared with the previous years, are shown in Charts I and IV. Graphs showing the annual incidence of deaths due to chief epidemic diseases, *viz.*, cholera, smallpox and plague are shown in Chart No. VII.

22. Infant mortality.—The number of deaths among infants under one year of age was 8,560 as compared with 9,375 in the preceding year, the infant mortality rate being 105.75 in 1939 and 121.33 in 1938. The male and female infant mortality rates were 105.30 and 106.32, respectively, as compared with 119.48 and 123.70, respectively, in the preceding year. The distribution of deaths amongst the various age groups under one year and the percentage compared with the corresponding figures of the previous year are shown in the following table :—

The shadown	19	38.	1939.			
Age groups.	Total deaths.	Percentage.	Total deaths.	Percentage.		
and a support of	,			and a series		
Under 1 week	1,898	20.26	1,784	20.84		
I week to I month	1,629	17.37	1,560	18 22		
to 6 months	3,298	35.18	3,217	37.58		
6 to 12 months	2,550	27.20	1,999	23.35		

23. Infant mortality in the Provinces.—The following table shows the details of the infant mortality rates in the various provinces in British India :—

Province,		1938.	1939.
Madras		160.04	175.50
Bengal		184.66	146.65
United Provinces		146.61	139.45
Punjab		166.84	167.57
Central Provinces		238.20	218.62
Bombay		174.16	152.70
Bihar		119.86	155'3
Orissa		221.00 .	197.41
Assam		164.67	167.64
North-West Front	ier.	154.08	130.52
Sind		121.33	105.75





24. Infant mortality in urban and rural areas.—The infant mortality rates per 1,000 registered births for urban and rural areas were 138.59 and 88.25, respectively, as against 157.67 and 101.91 in the past year. The infant mortality rate during the year under report compared with that of the previous years is shown in the following table :—

Year,		Deaths under 12 months.			Births registered.			Infant death-rate per 1,000 births.			Infant deaths
		Male.	Female,	Total.	Male.	Female.	Total.	Male.	Female.	Total.	per 1,000 of births,
1939		4,768	3,812	8,560	45,091	35,855	80,946	105-30	106*32	105-75	191-16
1938		5,191	4,184	9,375	43,415	33,824	77,269	119.48	123.70	121.33	192-89
1937		5,024	4,110	9,134	43,095	34,291	77,389	116.57	119.85	118.02	194.92
1936		5,227	4,422	9,649	44,175	35,361	79,536	118.32	125.05	121.31	199.26
1935		4,917	4,023	8,940	44,024	34,819	78,843	111.9	115.54	113.01	189.21
1934		4,776	3,938	8,760	42,012	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	49,800	34,961	88,261	110-27	113.43	111.68	211.01
1930		5,664	4,690	10,354	38,374	30,892	69,266	147.60	151-82	149.48	176.24
1929		8,889	7,897	16,7%6	44,744	35,394	80,138	198.66	223.12	209.46	195.49
1928		6,401	5,144	11,555	44,968	35,354	80,322	142.57	145.49	143.85	212.76
1927		6,308	5,361	11,669	41,616	33,577	75,193	151.58	159.63	155-19	224.71

High infant mortality rates were recorded in the following urban areas :---

Nawabshah town 460.99, Garhi Yasin 297.87, Ghotki 266.80, Tando Mahomed Khan 257.58, Tando Allahyar 212.12, Kotri 200.00, Hyderabad 182.40, Shikarpur 179.90 and Nasarpur 161.29.

Among the rural circles, the highest infant mortality rate was recorded in Karachi district (122.75) and the lowest in Dadu district (77.90).

The details of infant mortality rates in urban and rural areas are given in Annual Form No. VI (a), Appendix III.

SUMMARY OF VITAL STATISTICS OF THE CHIEF TOWNS.

25. Karachi City.—Population 247,791 (1931 Census). There was an increase of 515 in the recorded births during the year under review. The total births numbered 14,578 as compared with 14,063 in the previous year. The birth rates in the years 1938 and 1939 were 56.75 and 58.83, respectively.

There was a fall of 398 in the recorded deaths. The number of deaths recorded in the year under report was 6,247 compared with 6,645 denoting the death rates of 25.21 and 26.82, respectively. The infant mortality rate per 1,000 registered births was 135.68 as against 149.61 in the previous year.

Hyderabad town.-Population 96,021 (1931 Census).

The number of births registered in the year 1939 was 4,035 as against 3,831 in the year 1938. The corresponding birth rates during these years were 42.03 and 38.89, respectively. 2,544 deaths giving a death rate of 26.49 were registered during the year under report as compared with 2,493 giving a death rate of 25.96, respectively. The infant mortality rate was 182.40 as against 192.64 in the preceding year.

Sukkur town.—Population 69,277 (1931 Census).

The registered births numbered 2,590 giving a birth rate of 37.39 as compared with 2,580 and 37.24 during 1938. There were 847 deaths as compared with 944 deaths in the previous year. The corresponding death rates for the years 1939 and 1938 were 12.24 and 13.63, respectively. The infant mortality rate was 71.43 as against 96.90 in the preceding year.

Shikarpur town.-Population 62,505 (1931 Census).

2,179 births giving a birth rate of 34.86 were registered during the year under report as compared with 2,184 births and a birth rate of 34.94 in the preceding year. The number of deaths registered was 1,369 as compared with 1,528 in the last year. The death rates were 21.90 in 1939 and 24.45 in 1938. The infant mortality rate was 179.90 as compared with 219.32 in the previous year.

Larkana town.-Population 26,841 (1931 Census).

The registered births numbered 926 being equivalent to a birth rate of 34.50 as compared with an equal number of births and an equal birth rate registered in the previous year. The number of deaths was 439 or a death rate of 16.36 as against 542 or a death rate of 20.19 in the previous year. The infant mortality rate was 105.83 as compared with 156.59 in the previous year.

	13.4						19.40	21110	0.01					
			Cho	olera,			Sma	ll-pox.		sV.	Fevers.			
		19	39.	19	38.	19	39.	19	38.	19	39.	19	38.	
		No. of deaths.	Ratio.	No. of deaths.	Ratio.	No. of deaths.	Ratio.	No. of deaths.	Ratio.	No. of deaths.	Ratio.	No. of deaths.	Ratio.	
									Ì	1	-	1: 60	1703	
Karachi						12	0.02	18	0.07	179	0.73	227	0.93	
Hyderabad						34	0.35	18	0.18	401	4 17	517	5-38	
Sukkur								3	0.02	118	8.50	88	1.23	
Shikarpur	0			4	0.02				19.27	532	7.15	415	6.64	
Larkana								2	0.02	166	6.19	219	8.13	
nippent fron velfatta have	a vi	Dysen	tery an	d Diar	rhoea.	Res	pirator	y Dise	ases.	/	ll othe	r cause	, :S.	
Town.		19	39.	19	38.	19	39.	1 15	38.	19	39.	15	38.	
Town.	a no	No. of deaths.	Ratio.	No. of deaths	Ratio.	No. of deaths.	Ratio.	No. of deaths.	Ratio.	No. of deaths.	Ratio.	No. of deaths	Ratio.	
Karachi	20.5	628	2.53	731	2.95	2,664	10.75	3,007	12.13	2,651	10.70	2,565	10-35	
departs have in		61	0.64	95	0.99	697	7-26	761	7.93	1,297	13.51	1,053	10-3:	
0.11		197	0.11	222	3.20	255	0.72	314	4.53	243	2.81	293	4.2	
CI 11		197	0.01	19	0.30	166	0.08	151	2.43	613	1.201	918	14.68	
			0.01		0.30	94	3'54	191	3*38	165	6.15	211	7.80	
Larkana		10	0.37	12	0 43	94	0.54	191	3.38	105	0.12	211	1.80	
				-			-					-		

The principal groups under which deaths were recorded in these towns are shown in the following table :---

26. Vital Statistics (General Remarks).—The Public Health Commissioner with the Government of India in the Annual Report for 1937, remarks "In last year's report, attention was drawn to the recorded rate in Sind which suggested a high degree of error in registration. This year no improvement has taken place, the recorded rate being 11.1 per mille as against 11.5 per mille in 1936." This remark is applicable to-day also as the rate is obviously too low when compared with the rates recorded in other Provinces in India. There has, however, been a slight improvement in the case of registration of births which may partly be due to the vigilance of the inspecting staff who were responsible for detecting not less than 2,517 unrecorded births.

A scheme for the improvement of registration has been submitted to the Government and is receiving their attention. Birth rates below 10 per mille have been recorded in the following Municipal towns :---

Tando Allahyar	 6.41
Nasarpur	 7.27
Shahdadpur	 8.93
Tando Mahomed Khan	 9.96

Very low death rates were recorded in the following Municipal towns :---

Shahdadpur			4.87
Jacobabad	• •••		6.10
Sehwan			6.56

Although these Municipalities have passed bye-laws making registration of births and deaths compulsory, it would appear from the recorded rates as indicated above, that practically no efforts have been made to effect improvements in this respect.

The attention of all such Municipalities has been drawn to this fact and they have been asked to take steps in this direction in right earnest.

Conditions are most unsatisfactory in rural areas. Only three districts recorded a birth rate of little over 20 per mille. Except two districts, the rest recorded a death rate of below 10 per mille.

Such a state of affairs is mainly due to the paucity of health staff. Although a new sub-section has been inserted to section 119 of the Bombay District Local Board Act, 1923, making it compulsory for every District Local Board to appoint a Health Officer, yet it is regrettable to note that so far none of the District Local Boards have appointed Health Officers (with the exception of the District Local Board, Larkana, where a Health Officer was appointed 12 years ago).

CHAPTER III.

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

1. General Remarks on the Health of the Province.—The year under review showed an improvement in the general state of health in the Province. There was a marked increase in the number of births recorded and decrease in the number of deaths. As usual the greater number of deaths was recorded under the heading "Fevers". Except in the case of deaths due to injuries, the mortality recorded under various heads in the statistical returns appended to this report, showed a decrease as compared with the previous year. The death rate during the year under report was 11.55 as against 12.40 in the previous year. The number of deaths recorded under various groups compared with the previous year and the quinquennium ending 1938 has been shown in paragraph 21 of this report.

For the second year in succession, the City of Karachi enjoyed immunity from plague.

6 cases of, and 3 deaths from cholera were reported to have occurred as against 611 cases and 343 deaths in the preceding year.

There was a decrease in the recorded mortality due to smallpox. The number of deaths reported was 565 as against 941 in the previous year.

During the year only 3 deaths due to Influenza were recorded as compared with 16 deaths in the previous year.

2. Fevers: (General Prevalence). — As usual "Fevers" accounted for the highest number of deaths among the principal groups under which mortality is recorded, the number of deaths being 23,973 as compared with 27,970 in the previous year, and 28,782 in the past five years ending 1938. The death rate was 6.18 as against 7.22 in the previous year and 7.42 in the past quinquennium.

The percentage of deaths due to fevers to the total deaths was 53.53 as against 58.16 in the previous year. This clearly shows that many of the deaths that may have occurred due to malaria are shown under this head. This is largely due to the lack of public health staff in rural areas. Improvement could, however, be expected with the appointment of the District Health Officers and their staffs.

3. Fever mortality in the previous years.—The number of deaths and the death rates due to fevers for the previous ten years are shown in the following table :—

Year.	No. of deaths.	Death-rate.
1929	61,581	18.89
1930	42,426	13.01
1931	31,080	8.02
1932	39.728	10.22
1933	35,742	9.22
1934	32,147	8.29
1935	28,713	7.41
1936	27,679	7'14
1937	27,410	7.07
1938	27,970	7.22
1939	23,973	6.18

Distribution of fever deaths is shown in Annual Form No. X (Appendix III).

4. Death rates from fevers in Collectorates :--

Collectorate.		Death-rate in 1939.	Death-rate in 1938.
Karachi		2.90	3.08
Hyderabad		5.04	5.25
Nawabshah		6.29	7.73
Thar Parkar		8.27	7*29
Larkana		8.31	10.40
Dadu		6.80	8.28
Sukkur		6.88	9.26
Upper Sind Fro	ntier	5.72	7.78

5. Death rates from fevers in urban and rural areas.— The death rates for urban and rural areas were 3.66 and 6.73 as compared with 4.11 and 7.89, respectively, in the previous year. The highest death rate was recorded in Ghotki town, Sukkur district (21.13), as was the case in the previous year and the year before that. The other towns in which high death rates were recorded are Manjhand (Dadu district) 15.29, Nawabshah (Nawabshah district) 15.24, Ratodero (Larkana district) 13.73, and Garhi Yasin (Sukkur district) 10.45. The lowest rates were recorded in Karachi (Karachi district) 0.73 and Tatta (Karachi district) 1.14.

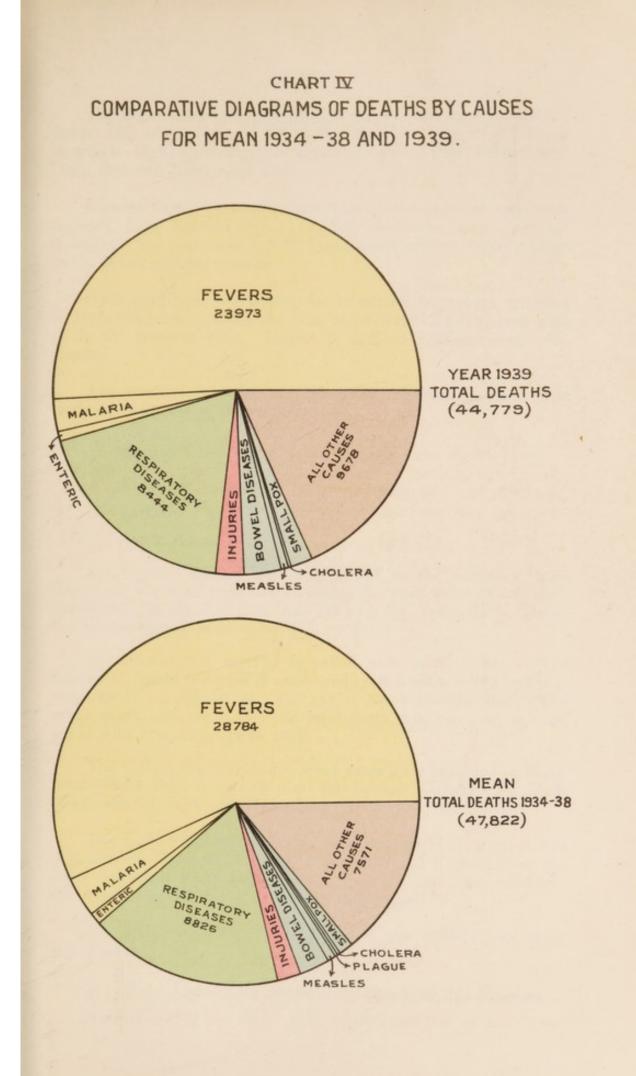
In rural areas, the highest death rate was recorded in Chachro (Thar Parkar district) 13.43. High death rates were recorded in the following rural areas :---

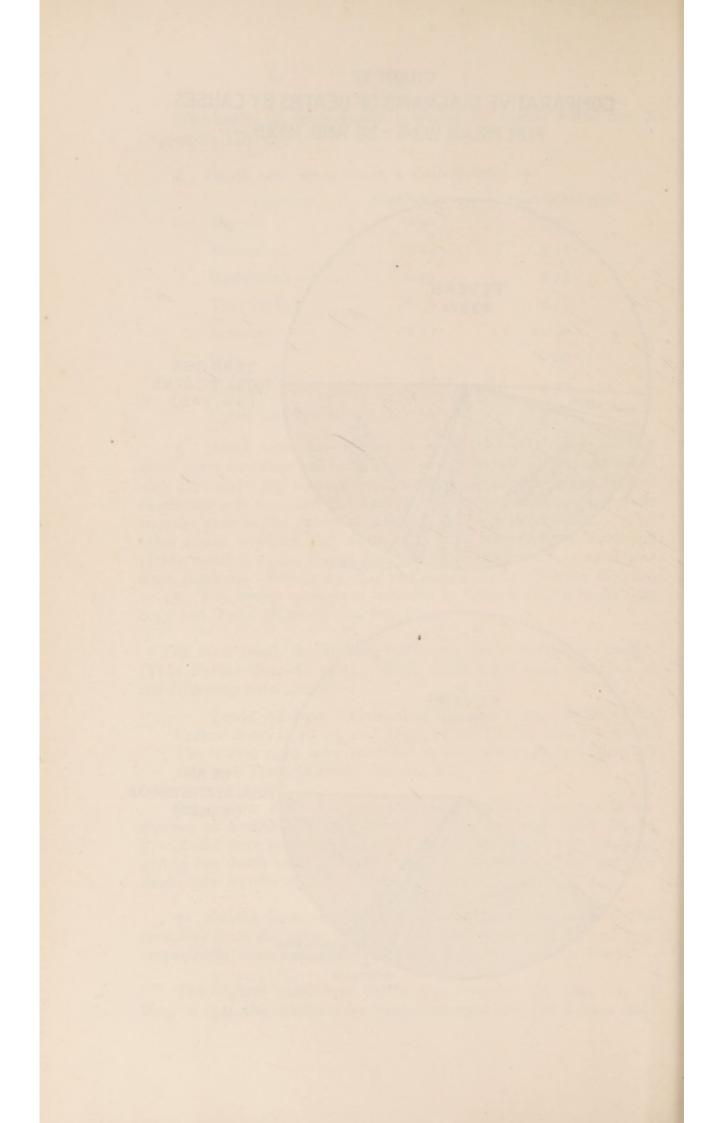
Tando Allahyar (Hyderabad district) 11.09, Mithi (Thar Parkar district) 10.15, and Digri (Thar Parkar district) 10.38. The lowest rates were recorded in Ghorabari (Karachi district) 2.83 and Tatta (Karachi district) 2.69.

6. Enteric Fever.—There was an appreciable decrease in the number of deaths from this cause. During the year under report 312 deaths were reported as against 518 deaths in the previous year giving the death rates of 0.08 and 0.13, respectively, the average death rate for the past five years was 0.10.

7. Deaths from enteric fever in urban and rural areas.—The mortality from this cause in urban and rural areas was 167 and 145, respectively, compared with 250 and 268 in the previous year.

The highest number of deaths was recorded in the City of Karachi (34), the next in order were, Shikarpur (29) and Sukkur (26).





The highest mortality for rural areas was recorded in Sukkur district (30) as was the case during the last year. The other districts in which high mortality was recorded were Thar Parkar (27), Dadu (25) and Nawabshah (24).

Karachi City.—34 deaths against 41 in the previous year were reported from Karachi city. Anti-fly measures were adopted throughout the year, and T.A.B. inoculations offered free of charge in the Municipal dispensaries.

Hyderabad town.—9 deaths due to enteric fever were recorded in Hyderabad town during the year under report as compared with 56 in the previous year. Houses of typhoid patients were disinfected.

The number of deaths recorded under this head in other large towns in Sind was as shown below :---

Town.		1939.	1938.
Sukkur	 	26	13
Shikarpur	 	29	30
Larkana	 	25	45
Tando Adam	 	15	IO

8. *Measles.*—There was a great fall in the mortality from this cause, the number of deaths during the year under report compared with the previous year was 288 and 555, respectively, giving the corresponding death rates of 0.07 and 0.14.

9. Deaths from measles in urban and rural areas. — The number of deaths recorded in urban and rural areas was 184 and 104, respectively, as against 242 and 313 in the preceding year. The urban death rate was 0.27 while rural death rate was 0.03 as compared with 0.35 and 0.10 in 1938.

The highest death rates for urban areas were recorded in Manjhand (Dadu district) 2.54, Matiari (Hyderabad district) 1.05, Dadu (Dadu district) 0.76 and Hyderabad (Hyderabad district) 0.72.

The highest number of deaths from measles in rural areas was registered in Dadu district (22). Nawabshah and Karachi were the other districts in which high mortality from this cause was recorded, the relevant figures being 21 and 20, respectively.

10. Relapsing Fever.—The Province was entirely free from this disease.

11. Kala Azar.-This disease is unknown in this Province.

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12. Typhus Fever .- This disease is not common in Sind.

13. Cerebro-spinal fever.—11 cases and 7 deaths were reported as against 22 cases and 14 deaths in 1938. The case mortality during the year under report was 77.77 as compared with 63.63 in the previous year. The details are as under :—

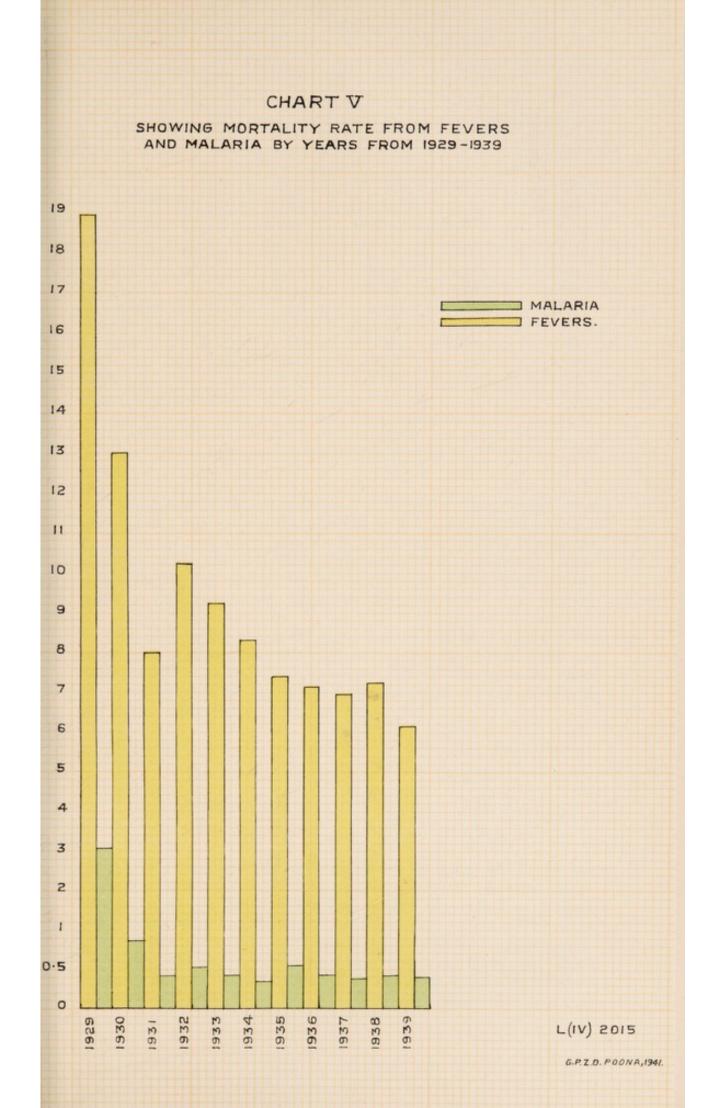
Name of Circle.	Attacks.	Deaths.	Date of 1st case.	Date of last case.
Karachi T. C	5	3	19th Feb. 1939.	28th May 1939.
Hyderabad T. C	4	3	15th Feb. 1939.	6th May 1939.
Jacobabad T. C	1		22nd April 1939.	22nd April 1939.
Ubauro R. C	1	I	24th Dec. 1939.	24th Dec. 1939.
Total	II	7		

Deaths from cerebro-spinal fever in urban and rural areas.— Only one death was reported from rural area, while the remaining 6 deaths occurred in urban areas. The deaths in urban and rural areas in the previous year were 13 and 1, respectively.

14. Respiratory Diseases. (General Prevalence).—During the year under report, there was a further decrease in the mortality under this head. The deaths numbered 8,444 as against 8,759 in the year 1938 and 8,827 the average of the past five years. The death rates in the years 1939 and 1938 compared with the quinquennial mean were 2.18, 2.26 and 2.28, respectively.

15. Deaths and death rate from Respiratory diseases in the previous years :--

Year.		No. of deaths.	Death rate.
1929	 	7,355	2.26
1930	 	7,249	2.22
1931	 	6,292	1.63
1932	 	8,149	2.10
1933	 	8,036	2.07
1934	 	7,399	1.91
1935	 	8,654	2.23
1936	 	10,225	2.64
1937	 	9,098	2*55
1938	 	8,444	2.18





Collectorate.		19	39.	1938.		
		No. of deaths.	Ratio per mille.	No. of deaths.	Ratio per mille,	
Karachi		3,617	6.25	4,187	7.23	
Hyderabad		1,772	2.68	1,822	2.75	
Nawabshah		391	0.19	499	1.00	
Thar Parkar		1,513	3.23	1,027	2.19	
Larkana		205	0.42	210	0.40	
Dadu		227	0.67	211	0.63	
Sukkur		674	1.08	742	1.18	
Upper Sind From	tier.	. 45	0.12	61	0.23	

16. Death rates from respiratory diseases in Collectorates :-

17. Death rates from respiratory diseases in urban and rural areas.

The urban death rate continued to be higher than that in rural areas as was the case in the previous year. 4,327 deaths giving a death rate of 6.31 were recorded in urban areas while 4,117 deaths giving a death rate of 1.29 in rural areas were registered. The corresponding figures for the year 1938 were 4,873 or 7.11 and 3,886 or 1.22, respectively, in urban and rural areas.

Karachi city registered the highest death rate from among urban areas (10.75) as was also the case in the preceding year when the death rate was 12.13. Hyderabad and Mirpurkhas were the other towns which recorded high death rates, the relevant rates being 7.26 and 5.39, respectively.

High death rates were recorded in the following rural circles :--

Thar Parkar district	 3.16
Karachi district	 2.87
Hyderabad district	 1.84

18. Seasonal mortality of Respiratory diseases.—As in the last year, this year too the greater number of deaths recorded under this group was in the cold weather months, the month of January being responsible for the highest number, viz., 1,311. The next in order was the month of February which claimed 1,244 deaths. The lowest number of deaths was registered in the month of August (374). The seasonal distribution of deaths from respiratory diseases is shown in Annual Form No. XII (Appendix III). 19. Phthisis and measures against it.—Tuberculosis cases are treated at all Government Hospitals and grant-in-aid dispensaries. There is a special ward of four beds at the Civil Hospital, Mirpurkhas, and two beds are reserved at the Rao Bahadur Udhavdas Tarachand Hospital at Shikarpur.

There are Tuberculosis Dispensaries at Karachi and Hyderabad maintained by the Karachi Municipal Corporation and Hyderabad Municipality, respectively. A tuberculosis clinic has been started at the Civil Hospital, Sukkur, where the necessary X-ray Apparatus is available. Other Government Medical Officers in charge of headquarter Hospitals have been directed to make efforts to start antituberculosis measures by opening clinics.

The Government Inspectors of Sanitation and Vaccination also delivered lectures in the schools during the course of their tour. Pictorial posters showing the "Signs and Symptoms", "Causation and Prevention" of tuberculosis were exhibited at several fairs and shows where lectures were also given on the subject for the benefit of the visitors.

The Government of Sind in their Resolution, General Department, No. 690-G.B./37 (III), dated the 23rd October 1938, directed that with effect from the 1st November 1938, arrangements should be made at all Government Hospitals and Dispensaries for the free microscopic examination of sputa, on the recommendation of a Registered Medical Practitioner, of patients suffering or suspected to be suffering from tuberculosis.

The Government considered it necessary to provide such facilities at all dispensaries in the Province. The Revenue Commissioner for Sind was requested to impress upon local bodies the necessity of providing at their own expense a microscope at each of their respective dispensaries, a start being made with those dispensaries which are in charge of such medical officers as are duly qualified to do microscopical examination.

The reports received from the Civil Surgeons and the District Medical Officers show that microscopic examination of sputa of persons suffering or suspected to be suffering from tuberculosis is done only at the Civil or District Hospitals. The local bodies have not provided microscopes in their dispensaries.

Greater number of deaths due to tuberculosis have been recorded in the two important towns of Karachi and Hyderabad. In the former 560 and in the latter 171 deaths were recorded. Thus out of the total 978 deaths recorded in urban areas, 731 deaths were registered in the above two towns indicating thereby that better arrangements in these towns exist in this respect. In response to an appeal issued by Her Excellency the Marchioness of Linlithgow for the King Emperor's Anti-Tuberculosis Fund, Rs. 58,325 were collected from this Province out of which the Headquarters remitted Rs. 53,423 being 95 per cent. of the total collections and 'The Sind Provincial Tuberculosis Association 'was formed on the 16th March 1939 to assume the control and management of the funds. Among the aims and objects of the Association are included :—

- (i) The prevention, control, treatment and relief of tuberculosis.
- (ii) The establishment, throughout the Province, of District and other Associations having objects similar in whole or in part to those of the Association.

The following are the extracts from the Annual Report of the Association for 1939-40:---

Scope of work.—The Director of Health Services and Inspector-General of Prisons, Sind, and the 2nd Assistant Health Officer and Medical Officer In-charge Municipal Tuberculosis Dispensary, Karachi, were requested to work out a scheme both on the curative and preventive side. The scheme submitted by them is receiving attention of the special sub-committee of the Association.

Future programme.—The method of dealing with tuberculosis through clinics has been universally accepted and it is being carried out in many places already with considerable success. To make a start in this direction, the Association has an intention of having tuberculosis clinics in each of the district towns of Sind placed under the charge of a fully trained Tuberculosis Medical Officer along with the District Local Board dispensaries and with this view in end the Committee have sanctioned a grant-in-aid of Rs. 300 towards the expenditure of a Lady Health Visitor for tuberculosis clinic to be attached to the Civil Hospital at Sukkur.

It is gratifying to note that as far as Karachi City is concerned there is a Municipal Tuberculosis Dispensary in charge of a fully qualified medical officer. In addition a Sanatorium at a suitable site at the distance of about 8 miles from Karachi, made possible by the munificent donation of late Mr. Dipchand T. Ojha, is now under construction and on its completion, it will provide one of the much felt needs of the City of Karachi.

Collectorate.			1939.	1938.
Karachi			 657	634
Hyderabad			 328	359
Nawabshah			 68	85
Thar Parkar			 130	110
Larkana			 45	50
Dadu			 72	64
Sukkur			 154	180
Upper Sind Fre	ontier.		 5	14
		Total	 1,459	1,496

21. Death rates from phthisis in urban and rural areas.—The death rates in urban and rural areas were 1.43 and 0.15, respectively, as against 1.49 and 0.15, respectively, in the previous year.

22. Pneumonia (General Prevalence).—5,510 deaths giving a death rate of 1.42 were registered as compared with 5,759 or 1.49 in the previous year.

23. Death rates from pneumonia in urban and rural areas.— The urban death rate was 3.72 as against 4.45 in the previous year, while the death rate in rural areas was 0.93 as against 0.85 in the last year.

In urban areas high death rates were recorded in the towns of Karachi (6.86), Umarkot (4.69), Hyderabad (4.23) and Mirpurkhas (4.22).

High death rates were recorded in rural areas in the districts of Thar Parkar (2.52) and Karachi (2.31).

1,701 deaths were recorded in the City of Karachi and 406 in Hyderabad town making a total of 2,107 out of 2,551 deaths recorded under this head in urban areas.

24. Dysentery and Diarrhoea (General Prevalence). — 1,150 deaths were registered as against 1,316 in the previous year and 1,128 formed the average of the previous five years ending 1938. The corresponding death rates were 0.30, 0.34 and 0.29, respectively.

20. Deaths from phthisis by Collectorates :--

25. Death rates from Dysentery and Diarrhoea in the previous years by Collectorates :-

Cellectorat		1939.	1929 to 1938 (Mean).
Karachi		1.12	2.09
Hyderabad		0.14 -	0*42
Nawabshah		0.03	0.11
Thar Parkar		0.10	0.13
Larkana		0.04	0.13
Dadu		0.02	0.12
Sukkur		0.42	0.23
Upper Sind Fro	ontier.	0.03	0.02

Dysentery.—There were 308 deaths giving a death rate of 0.08 as compared with 3.74 and 0.10, respectively, in the previous year.

Diarrhoea.—The number of deaths due to this cause was 842 equivalent to a death rate of 0.22 as against 942 and 0.24, respectively, in the preceding year.

26. Death rates from Dysentery and Diarrhoea in urban and rural areas.—The urban death rate was 1.42 as compared with 1.67 in 1938, while rural death rate was 0.06 as against 0.05 in the previous year.

High death rates were recorded in the towns of Ghotki (3.31), Sukkur (2.85) and Karachi (2.53).

From among rural areas high death rates were recorded in the districts of Dadu (0.06), Karachi (0.05), Hyderabad (0.05) and Sukkur (0.05).

27. Injuries.—966 deaths were recorded under this head as compared with 850 in the previous year. Of these 741 deaths were among males and 225 among females. The number of deaths among males and females in the previous year was 577 and 273, respectively. The average number of deaths due to injuries in the previous five years ending 1938 was 863.

The following are the details of deaths during the previous ten years :--

Year.	Number of deaths,
1929	924
1930	926
1931	838
1932	938
1933	1,004
1934	916
1935	884
1936	873
1937	791
1938	850
1939	966
	-

			1939.			1938.		
Ca	uses.		Male.	Female.	Total.	Male.	Female,	Total.
Drowning			79	39	118	8:	45	120
Poisoning			16	3	19	5	3	8
Hanging			10	I	11	13	5	18
Wounding			391	- 101	492	199	93	292
Wild Beasts			I		I	I	4	5
Snake bites			178	29	207	190	46	236
Rabies			II	9	20	14	2	16
Railway accid	ents		6	I	7	II	5	16
Other causes			49	42	91	63	70	133
		Total	741	225	966	577	273	850

28. Details of deaths from injuries. — Further comparisons arranged under the various heads are shown in the following table : —

29. Deaths from snake bites.—During the year under report 207 deaths were recorded as against 236 in the previous year. The deaths by Collectorates were :—

Collector	ate.		1939.	1938.
Karachi			27	31
Hyderabad			30	53
Nawabshah			15	37
Thar Parkar			43	36
Larkana			40	25
Dadu			23	17
Sukkur		'	25	28
Upper Sind F	rontier		4	9
			be attended as	
	Total		207	236

Anti-venom serum is stocked in all the Government hospitals and grant-in-aid dispensaries.

30. Deaths from Rabies .- 20 deaths were recorded during the year under report as compared with 16 in the previous year.

Anti-rabic treatment centres have been opened up at all the district head-quarter hospitals and the Rao Bahadur Udhavdas Tarachand Hospital at Shikarpur. During the year under report 885 persons received anti-rabic treatment at the centres. Cards are issued to the patients on the expiry of their treatment who are required to send these to the medical authorities concerned. Co-operation on the part of the patients is not to the desired effect. The Civil Surgeon, Karachi, writes as under :—

"No statistics are available regarding the results of antirabic treatment as the cards issued to the patients on the expiry of their treatment are not returned and no reply has been received even after issuing reminders except in a very small number of cases all of whom are alright. No cases of rabies come to notice from amongst those who received the prophylactic treatment during the year in question. Until the destruction of stray dogs is systematically undertaken, the present high figure will persist."

31. Details of suicidal deaths.—The deaths due to suicide recorded under various heads compared with the previous year are shown in the following table :—

Causes.		1939.			1938.		
		Male.	Female.	Total.	Male.	Female.	Total.
						1934	
Drowning .						0.001	
Poisoning		5		5	t	1.937	I
Hanging .		10	1	11	5	2	7
Wounding .		8	2	10	2	1	3
Railway .						1100 2	2
					i.i	Karad	
				····			
	Total	23	3	26	8	5	13

32. Deaths from other causes.—Greatest number of deaths are attributable to this cause. The percentage of deaths recorded under this head to the total deaths from all causes comes to 21.61. The number of deaths during the year under report was 9,678 as compared with 7,906 in the previous year and the average of the quinquennium ending 1938 was 7,571. The corresponding death rates were 2.49, 1.95 and 1.44, respectively.

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Deaths from	other causes	in the pa	st decade z	vere :—
Year.			Nu	mber of deaths.
1929				7,815
1930	The vill			6,795
1931				7,123
1932				7,658
1933				7,473
1934	on here been		strutte ave	6,886
1935	inder	metenity	ei mit in	7,471
1936	a aldeble a	when a	In Ile	8,025
1937				7,568
1938				7,906
1939				9,678

33. Deaths from Child birth.—During the year under review, the deaths from this cause numbered 950 as compared with 974 in the previous year. The maternal mortality rate was 11.59 as against 12.43 in the previous year.

34. Deaths from Child birth in the previous years.—The number of deaths recorded during the previous five years were as under :—

Year.		N	umber of death	15
1934		 	1,027	
1935		 	979	
1936		 	1,023	
1937		 	88 t	
1938		 	974	
1939		 	950	

35. Deaths from Child birth by Collectorates :-

Collectorate.			1939.	1938.
Karachi			145	131
Hyderabad			151	148
Nawabshah			118	154
Thar Parkar			109	95
Larkana			132	143
Dadu	design - these	a	76	77
Sukkur	- 10		191	207
Upper Sind Fro	ontier		28	19
	Total		950	974

36. Deaths from Child birth in urban and rural areas.—The number of deaths registered in urban and rural areas was 339 and 61, respectively, as against 332 and 642 in the previous year. The maternal mortality rate per 1,000 births for urban and rural areas was 11.85 and 11.47 as compared with 12.82 and 12.51, respectively, in the preceding year. One woman died of child bearing to every 84 live births.

The incidence of maternal mortality in the important towns is shown in the following table :---

Town.		Total No. of births in 1939.	Total No. of deaths from child birth in 1939.	Total No. of births in 1938.	Total No. of deaths from child birth in 1938.
Karachi		14,578	93	14,063	84
Hudarahad		4,035	52	3,831	42
Sukkur		2,590	14	2,580	23
Shikarpur		2,179	58	2,184	39
Larkana		926	30	926	4
	1 11	ath rate from		respective	orr and 349

37. Diptheria.—19 deaths giving a death rate of 0.004 were registered during the year under report as compared with 23 deaths or a death rate of 0.006 in the previous year. 15 deaths were recorded in urban areas and the remaining in rural areas.

In rural areas 2 deaths were registered in Larkana district and one death in each of the districts of Hyderabad and Nawabshah.

Out of the 15 deaths in urban areas 12 deaths were recorded in the City of Karachi as was the case in the previous year when out of the total number of 14 deaths in urban areas 13 were registered in the City.

The Medical Officer of Health, Karachi Municipal Corporation writes :---

"173 cases resulting in only 12 deaths were reported from this disease during the year, out of which 167 were admitted in the Epidemic Diseases Hospital, when they were treated with Diphtheria Anti-Toxin.

With a view to preventing the spread of this disease in the City, active immunisation against Diphtheria was carried out amongst school going children and also among children in the vicinity where cases of Diphtheria were reported. In all 3,394 inoculations were performed during the year under report. Further measures adopted to control the infection were to isolate the cases and carriers of Diphtheria bacilli and to immunise the contacts. Throat swabs were taken of the contacts in order to isolate the carriers, disinfection of houses of infected persons in every case was carried out. Bedding and clothing in every case disinfected with steam under pressure. Samples of milk were taken from various shops particularly from the vicinity where cases of Diphtheria occurred, and were sent to the laboratory but in no case milk was found infected."

38. The number of deaths from chief causes for each Collectorate by months is shown in Annual Form No. VII to XII (Appendix III).

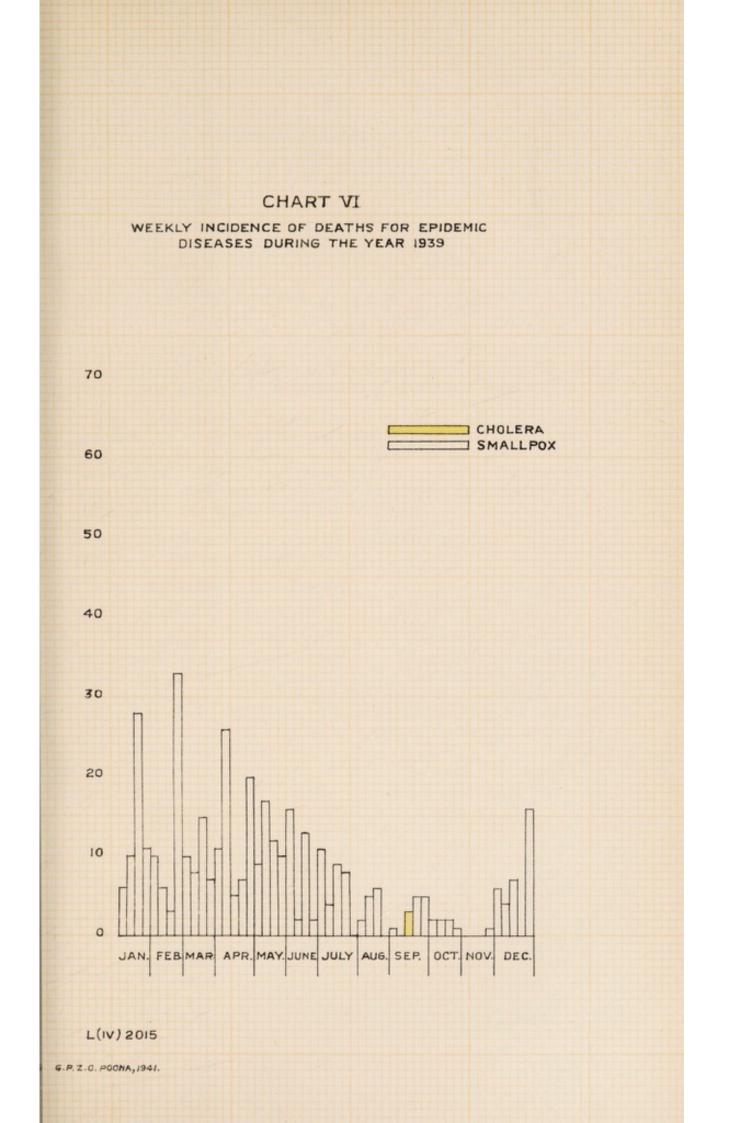
CHAPTER IV.

EPIDEMIOLOGY.

1. Cholera (General Prevalence).—During the year under report the prevalence of cholera was restricted to one village in taluka Matli (Hyderabad district). The rest of the Province was free from the disease. In all 6 cases and 3 deaths were reported. The number of cases and deaths reported during the previous year was 611 and 343, respectively. The death rate from the disease for the Province was 0.0008 as against 0.09 in 1938.

2. Deaths from Cholera in previous years.—The following table and Chart No. VII show the total number of deaths from cholera from 1918 to 1939.

Year.			Number of deaths.
1918			 2
1919			 316
1920			
1921			 429
1922			 25
1923 .			 9
1924	• • •		 409
1925			 I
1926		1	 133
1927	1 In 10		 I
1928	wall		 214
1929			 6,411
1930			
1931			 68
1932			 15
1933			 3
1934	••		
1935			 44
1936	ne. 50		 8
1937	sizes		 2
1938	internet and a		 343
1939	in actual at	ib panines	 3





 	1
 3	13
 	33
 	49
 	77
 	152
 1	18
	343
 	······································

3. Deaths from cholera by Collectorates :--

4. Deaths from cholera in urban and rural areas.—All the three deaths occurred in the rural area of Hyderabad district.

5. Brief history of Cholera.—On receipt of information about the outbreak of cholera, the Assistant Director of Public Health, Sind, proceeded immediately to the affected area to make personal investigation. A local conference was convened for the purpose. The medical officer who was detailed for cholera duty reported that the origin of the disease could not be traced.

6. All precautionary measures including inoculation with anticholera vaccine were taken.

7. Expenditure on cholera-

Cost of cholera vaccine ... Rs. 18-0-0.

8. Smallpox (General Prevalence).—There was a decrease in the recorded mortality due to smallpox. The number of deaths was . 565 as against 941 in the previous year. The death rate was 0.15 as compared with 0.24 in the previous year and quinquennial mean 0.15. The case mortality was 23.33 as against 21.81 in the previous year. The seasonal distribution of smallpox deaths as compared with the previous year was :—

*				
Month.			1939.	1938.
January			77	181
February			66	87
March			63	120
April			98	132
May			73	125
June			43	67
July			31	51
August			15	66
September	***		13	5
October			IO	25
November			13	46
December			63	36
	The state of the s			
	Tota	al	565	941
			and the second second	

9. Deaths from smallpox in previous years.—The following table shows the number of deaths and death rates recorded in the years 1929 to 1939. Chart No. VII shows this information in graphic form for the years 1918 to 1939 :—

Year.			No. of deaths.	Death rate.
1929			747	0.53
1930		···	509	0.16
1931			795	0'21
1932	Total		1,553	o .40
1933			1,093	0.58
1934			209	0.02
1935			571	0.12
1936			308	0.02
1937	the affects		798	0*21
1938	tailed fores		941	0 [.] 24
1939	not be trac		565	0.12

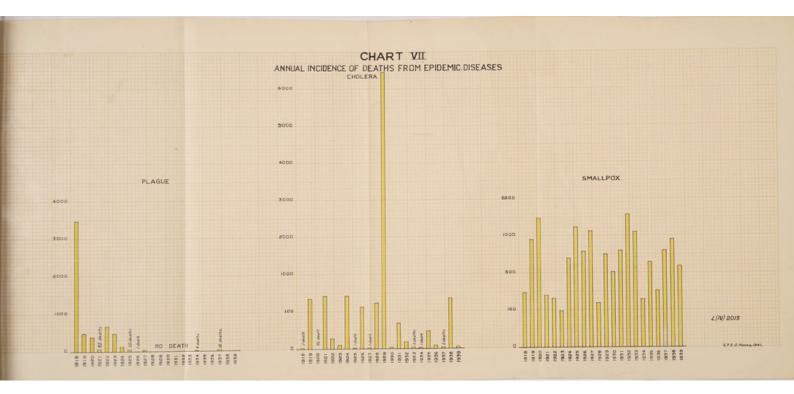
Out of 565 deaths, 52 were amongst infants under 1 year of age and 227 above 1 and under 10 years and the remaining 286 above 10 years.

10. Deaths from smallpox by Collectorates :-

			C	1939.			1938.		
Colle	ctorate.	ann. ast	Cases.	Deaths.	Death rate.	Cases.	Deaths.	Death rate.	
Karachi			235	50	0.00	139	26	0.03	
Hyderabad			507	128	0.10	62	29	0'04	
Nawabshah			281	90	0.18	561	144	0.20	
Thar Parkar			732	165	0.32	1,292	210	0.45	
Larkana			303	56	0'12	1,433	312	0.69	
Dadu			280	67	0'20	396	69	0'21	
Sukkur	ES		65	7 2	0.01	354	113	0 18	
Upper Sind F	rontier		18	2	0.007	86	38	0.12	
	Total		2,421	565	0.12	4,314	941	0'24	

11. Deaths from smallpox in urban and rural areas.—131 deaths were recorded in urban areas and 434 in rural areas. The number of deaths registered in urban and rural areas in 1938 was 70 and 871, respectively.

High death rates were recorded in the towns of Tando Adam (3.03) and Mirpurkhas (2.36).





From among rural areas the districts of Thar Parkar and Dadu recorded high death rates, the relevant figures were 0.31 and 0.20, respectively.

12. Steps taken by the Public Health Department in rural areas.—As usual, necessary precautions were taken to check the spread of disease. On receipt of the intimation of an outbreak of small-pox in any rural area, the vaccination staff was immediately ordered to carry on vaccination and re-vaccination work vigorously. The Vaccinators were supplied with extra lymph in addition to their regular weekly supplies. In addition temporary Vaccinators as shown below were entertained at the cost of the District Local Boards concerned :—

District.	No.	Period.	From	To
Hyderabad	 I	5 months.	14th Feb. 1939.	13th July 1939.
Do.	 I	2 months.	1st June 1939.	31st July 1939.
Do.	 I	4 months and 13 days.	19th August 1939.	31st Dec. 1939.
Nawabshah	 1	3 months.	1st Feb.11939.	30th April 1939.
Do.	 1	2 months.	15th June 1939.	14th August 1939.
Thar Parkar	 3	6 months.	1st Jan. 1939.	30th June 1939.
Dadu	 1	5 months.	2nd Feb. 1039.	1st June 1939.
Do.	 1	5 months.	15th Feb. 1939.	14th June 1939.

Preserved lymph from Belgaum was indented for and stocked in a refrigerator in the head office. 27,950 doses were supplied to the Vaccinators in addition to their usual supplies.

13. Vaccinal conditions.—38 cases of small-pox were admitted to the Municipal Epidemic Diseases Hospital, Karachi, of which 7 proved fatal. Of these I was with one vaccination mark, 5 with two marks, 3 with three marks, I with four marks, 5 unsuccessfully vaccinated and 23 unvaccinated. Out of the 7 deaths which occurred in the Hospital, 6 were amongst unvaccinated and I amongst unsuccessfully vaccinated.

14. Plague (General Prevalence).—The Province was completely free from plague during the year under report like the year previous to it.

15. Deaths from plague in previous years.—The incidence of mortality due to plague from the year 1918 is shown in Chart No. VII.

16. Ratting operations.-Ratting operations were continued throughout the year in the following Municipal towns :--

- 1. Karachi,
- 2. Hyderabad.
- 3. Mirpurkhas.
- 4. Tando Adam,
- 5. Sukkur.
- 6. Shikarpur.

The total number of rats caught in these towns was 174,691. The number of rats examined in Karachi City was 11,167 but none was found to be infected.

17. Influenza.-During the year under report only one death was reported as against 16 in the previous year.

18. Deaths from influenza in previous years.—The number of deaths due to influenza since its appearance in 1918 is shown below :—

Year.			Nun	ber of deaths.
1918	featrol age			90,217
1919				1,008
1920				552
1921				327
1922				128
1923	or diamento to	1		37
1924	Bog-mell 199		and make to	39
1925	idening to ano	diamenant :		30
1926	b loto" and its,	in		20
1927				26
1928				45
1929				12
1930				6
1931				6
1932	/			3
1933				5
1934				14
1935				18
1936				. 4
1937				
1938			,	16
1939				I

CHAPTER V.

1. Fairs and Festivals.—The following are the important fairs which took place during the year :—

I.	Lal	Shahbaz	Fair.		Dadu	district.	
----	-----	---------	-------	--	------	-----------	--

- 2. Bhit Shah Fair ... Hyderabad district.
- 3. Sajan Sawai Fair ... Hyderabad district.
- 4. Pithoro Fair ... Thar Parkar district.

2. Government Inspectors of Sanitation and Vaccination in whose beats the fairs were held were ordered to supervise the sanitation of the fair areas, inspect the sources of water-supply and treat these with Potassium Permanganate powder and inspect food stuffs.

No case of infectious disease was reported to have occurred from any of the above mentioned pilgrim centres.

3. On account of the prevalence of small-pox in the vicinity of Ghulam Shah, the fair at that place was stopped.

4. The Public Health Commissioner with the Government of India, in his Annual Report for the year 1936, under the heading 'Venereal Diseases' has touched a most important point, viz., the action against prostitution and traffic in women.

So far as the Province of Sind is concerned, there have been no two opinions that of the important factors leading to the incidence of venereal diseases is the presence of prostitutes at the fairs. The Assistant Director of Public Health, Sind, visited the Lal Shahbaz fair and reports as under :--

"This year a large number of prostitutes visited the fair. Some of them were singing and dancing girls. They had constructed kutcha huts in the fair area with openings in the roofs for ventilation purposes. Others had erected tents at some distance outside the municipal limits. The tents for the purpose were hardly spacious enough to accommodate one charpoy and there were absolutely no washing or other sanitary arrangements.

(2) In my opinion the best remedy to eradicate this evil and danger of spread of venereal diseases is to stop this prostitution altogether at fairs."

Enquiries made show that the District Local Boards have framed bye-laws prohibiting prostitution within a radius of 2 miles from the fair area. The Revenue Commissioner for Sind to whom a reference was made on the subject informed that in practice such rules are not observed and it is therefore necessary and he believes practicable, to introduce tighter control in this respect.

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With a view to effectively handling the situation, the provisions of the Bombay Prevention of Prostitutes Act, 1923, and the relevant sections of the Police Act are being examined closely. If need be, the Government will be approached to introduce legislation in this respect.

CHAPTER VI.

URBAN SANITATION (INCLUDING NOTIFIED AREAS).

1. Number of Medical Officers of Health.—Municipal Medical Officers of Health having British Diplomas in Public Health have been employed at Karachi, Hyderabad and Sukkur only. The Medical Officer of Health employed at Shikarpur possesses an Indian Diploma. The two municipalities 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. One Assistant Health Officer and one Deputy Health Officer having British Diploma in Public Health have also been employed in the City of Karachi for the Municipal Corporation.

2. Number of Sanitary Inspectors.—22 qualified Sanitary Inspectors were employed in the principal towns of the Province, *viz.*, Karachi (8), Hyderabad (4), Shikarpur (3), Sukkur (3), Larkana (1), Rohri (1), Tando Adam (1) and Jacobabad (1). Besides these, qualified Sanitary Inspectors were employed in Nawabshah and Mirpurkhas towns but no Government subsidy was paid in respect of them.

3. With a view to improving the sanitary conditions of the towns by the employment of qualified Sanitary Inspectors, it is proposed to recommend to the Government to revise the policy of the payments of grants-in-aid as laid down in Government Resolution, General Department, No. 8747, dated the 26th March 1936, so that the municipal towns having populations of 10,000 may be declared as 3rd Class towns and be entitled to receive the Government subsidy.

Municipal Sanitary Works.—There are in all 26 municipalities including the City of Karachi with a total population of 672,432.

The incidence of Municipal income and taxation per head of population in the larger municipalities was :--

Name of the town.		Income.			Taxation.			
		Rs.	a.	p.	Rs.	a.	p.	
Karachi		18	2	8	10	8	8	
Hyderabad		12	4	3	6	11	II	
Sukkur		12	4	0	3	14	1	
Shikarpur		7	3	9	4	IO	8	
Larkana		7	5	-	5	6	4	

During the year under report, sanitary inspection of 9 towns and 7 Notified and Sanitary Area Committees was made by the Director of Health Services and Inspector-General of Prisons, Sind, and the Assistant Director of Public Health, Sind. In each case a complete report of the inspection was sent to the local authority concerned and advice given with regard to sanitation and public health measures.

It is regrettable that as usual very little attention was paid to the improvements suggested in the inspection notes.

It has been noted that in many of the towns arrangements for the removal, collection and disposal of night soil is very unsatisfactory. There exist private arrangements for the same. The municipalities concerned have been advised from time to time to discourage this and to take over the responsibility and appoint extra sweepers for the purpose. To meet the increased expenditure, it has been suggested to them to levy halalkhore cess. This suggestion has been opposed. It may be stated that by private arrangement every householder pays something to the sweeper who comes to remove the night soil, and it is therefore not understood why the proposal to levy halalkhore cess is opposed.

The Larkana Municipality passed a resolution in June 1939, sanctioning the appointment of a Health Officer. This remained on paper only and no appointment was made during the year.

4. The expenditure on public health measures per head of population came to Rs. 2-7-10 approximately in Karachi City and the average of Rs. 2-2-8 for the remaining municipalities having subsidised health staffs.

5. Municipal water-supplies.—During the year under report, the state of water supplies remained the same as described in the Annual Public Health Report for the year 1938.

6. Infectious Diseases Hospital.—There is only one such hospital at Karachi maintained by the Municipal Corporation.

It is a matter of surprise that the Hyderabad municipality has taken ten years in simply considering the proposal and deciding on a suitable site for the construction of the Infectious Diseases Hospital. It is absolutely imperative that no time should be lost in the construction of the Hospital.

The municipalities of Sukkur and Shikarpur were advised to construct Infectious Diseases Hospitals. The question is under consideration with the former while the latter turned down the proposal on financial considerations. 7. Housing conditions in urban areas.—There were no improvement trusts or other bodies concerned with the improvement of houses in any of the towns in this Province, nor were there any industrial housing schemes. The Karachi Port Trust, the North-Western Railway and the Karachi Municipal Corporation and some of the industrial concerns have provided a number of quarters for their low paid staffs.

There are Co-operative Housing Societies at Karachi and Hyderabad.

The Karachi Municipal Corporation has been following a constant policy of opening up congested areas and improving narrow streets and roads. The Corporation has framed a set of building rules and the construction of buildings is not permitted unless the rules laid down are observed.

CHAPTER VII.

RURAL SANITATION.

1. District Health Officers.—There is only one District Health Officer in the Province. He is employed by the District Local Board, Larkana, to whom the Government pay a grant-in-aid to the extent of 2/3rd of his pay. He is not borne on the provincial cadre.

Section 119 of the Bombay District Local Boards Act, 1923, was so amended as to make it compulsory for each District Local Board to appoint a District Health Officer. It is regretted that though this amendment was passed early last year, no appointment was made by the District Local Boards till the end of the year under review.

2. Land acquisition in villages.-No land was acquired for the purpose of relieving over-crowding in villages.

3. Housing conditions in rural areas.—The housing conditions in rural area are not satisfactory. People usually put up in kacha (mud) huts. Some model huts were constructed but they have made little impression. The villagers are generally apathetic to the adopting of such improvements. There has however been progress in that as far as new villages are concerned, the sites are now sanctioned only after a proper layout is submitted and approved. Settling in the villages according to this layout is made one of the conditions of the grant, and the plan of the houses to be constructed will be subject to the approval of Revenue Officers. 4. Village Water-supply.—The work in connection with the improvement of village water supplies is being carried on by the District Revenue authorities as well as through the Rural Reconstruction Department. The latter has concentrated its activities towards sinking tube wells. In accordance with the resolution passed at the Inter-Governmental Conference, Java, the Revenue Commissioner for Sind, distributes the grant in consultation with the Public Health Department.

97 draw wells were newly constructed in the following districts :---

Karachi			 4
Nawabshah			 8
Thar Parkar			 66
Dadu		·	 7
Sukkur			 12
	ai baining inclusion	Total	 97

The Special Officer, Rural Reconstruction for Sind, writes that 85 tube wells and 10 draw wells were constructed during the year under report.

5. The expenditure of District Local Boards on public health measures varied from 7 per cent. of their income in Larkana district to 3.64 per cent. in Dadu district.

The average expenditure on public health per head of population varied from Re. 0-1-7 in Larkana district to Re. 0-0-4 in Sukkur district.

6. Village Sanitary Boards.—There was one Sanitary Board at Shahpur Chacker, taluka Shahdadpur, district Nawabshah.

7. Sanitary Committees.—There were 237 Sanitary and Notified Area Committees in the Province.

CHAPTER VIII.

RURAL RECONSTRUCTION.

1. The Government have appointed a Special Officer for Rural Reconstruction work, who is also provided with a Publicity Officer. 2. There were 8 units, one in each district, selected and taken up for intensive Rural Reconstruction work in the Province. Each unit comprised a number of villages within the radius of 5 to 10 miles. A definite programme of work for each unit for a period of 12 months was chalked out by the Special Officer for execution by the District Village Sudhar Committees.

3. The following is a summary of the work done by the Rural Reconstruction Department :---

(1) Free medical aid was provided in the selected centres. The District Local Boards of Thar Parkar, Upper Sind Frontier, Larkana and Dadu each appointed a Medical Officer who was stationed at the central village, and toured frequently in the area selected for rural reconstruction work.

(2) 101 medicine chests were supplied to the school masters or literate villagers who treated the patients for minor ailments common in the moffusil.

(3) Trained dais were appointed in the selected areas of Dadu, Upper Sind Frontier, Hyderabad and Larkana districts.

(4) Almost all the villages in the selected areas were provided with manure and rubbish pits on the outskirts. The streets were levelled and jungle clearance and filling up of depressions and pits in close proximity to the villages were regularly carried out by the villagers.

(5) 85 tube wells and 10 draw wells were constructed.

(6) 220,900 quinine tablets were distributed free.

(7) Wells were treated with potassium permanganate.

(8) In all 64 model houses were constructed solely at Government cost for demonstration purposes in various villages throughout the Province. These were handed over to poor agriculturists for residential purpose. The houses were kept neat and tidy and in some villages the occupants planted fruit and other trees in the coutyards.

(9) The Government were pleased to sanction Rs. 15,000 for the construction of complete model villages, one in each district, on contributory basis. The sites for such villages in Karachi, Nawabshah, Dadu, and Upper Sind Frontier districts were selected. The layout plans for model villages and houses were prepared by the Consulting Surveyor to Government. The work of constructing Model Villages was in hand. These will be provided with drainage system, parks, playgrounds equipped with gymnastic schools and dispensaries. 10. The sweepers for the selected areas were provided by the District Local Boards as under :---

Dadu	 2
Sukkur	 .4
Thar Parkar	 3
Larkana	 4

11. Dust-bins and 'houdies' were provided in the villages in the selected area.

12. Thousands of fruit and other trees and flower plants were planted on the road sides.

13. The District Local Boards fully co-operated in connecting various villages by means of good roads. The villagers themselves constructed about 8 miles road voluntarily in Dadu district.

14. The Government sanctioned an amount of Rs. 3,200 for organising Rural Reconstruction shows.

CHAPTER IX.

MALARIA.

1. Incidence.—Malaria is the disease most prevalent in rural areas. The prevalence of this disease has been accentuated by the enormous increase in the area which has been brought under cultivation after opening of the Lloyd Barrage. The problem of malaria is one of the major problems to be faced in this Province. To effectively control its incidence and spread, the appointment of a malariologist and his staff is a long felt necessity.

During the year under report, 1,546 deaths giving a death rate of 0.40 were recorded as compared with 1,686 and a death rate of 0.43 in the previous year.

Efforts have been made to collect information with regard to the cases of malaria from every available source. This cannot be taken as a true index of the situation as a whole. The number of cases so reported was 236,539 as against 212,262 in the previous year.

From the recorded mortality it would appear that deaths due to this cause are not properly registered and many go to swell the number under the heading "Other Fevers".

1	Deaths from	malaria	in Coll	lectorates :-	- The part of the
	Collectorate.		No. of c	leaths in 1939.	No. of deaths in 1938.
	Karachi		• •••	122	135
	Hyderabad			298	463
	Nawabshah	9		60	80
	Thar Parkar			38	35
	Larkana			180	209
	Dadu			101	88
	Sukkur			730	657
	Upper Sind I	Frontier		17	19
		Tota	1	1,546	1,686
					And the owner of the owner

3. Relation of deaths from malaria to deaths from fevers.— Out of 23,973 deaths due to fevers, 1,546 showing a percentage of 6.45 as compared with 1,686 and a percentage of 6.03 in the previous year were due to malaria.

4.	Seasonal	mortality	of	malaria	:

Month.		Number o	f deaths.
		1939.	1938.
January		 171	154
February		 112	III
March		 114	141
April		 93	118
May		 117	187
June		 112	138
July		 130	114
August		 89	108
September		 114	137
October		 137	173
November		 168	140
December		 189	165
	Total	 1,546	1,686

2.

5. Deaths from malaria in urban and rural areas.—It cannot be denied that malaria is essentially a rural disease, but it is surprising to note that the recorded mortality is the highest in urban areas. This clearly shows the defective manner in which the figures of mortality are classified. Greater number of deaths occurring due to malaria are registered by the village registrars under the heading "Other Fevers". On account of the paucity of public health staff in rural areas, very little improvement can be expected in this respect.

The number of deaths in urban and rural areas was 1,169 and 377, respectively, corresponding to death rates of 1.71 and 0.12, respectively. The number of deaths registered in the year 1938 in urban areas was 1,254 equivalent to a death rate of 1.83 and 432 giving a death rate of 0.14 in rural areas.

The highest death rate in urban areas was in Ghotki town (8.49) as was the case in the previous year. The other towns in which high death rates were recorded were Shikarpur (7.85), Kotri (5.58), Larkana (5.07) and Hyderabad (2.81).

The highest death rate in rural areas was registered in Karachi district (0.29), same being the case in 1938. The next in order was Sukkur district (0.15). The lowest death rate was recorded in Hyderabad district (0.43).

6. Anti-malaria measures.-

Karachi City.—The Corporation of the City of Karachi maintains a special establishment of 1 Inspector, 11 Sub-Inspectors, 10 Munshis and 64 Coolies who form the Mosquito Brigade. About 254,308 houses and huts were inspected during the year under report. The cost of the malarial branch was Rs. 26,708.

11 wells were closed during the year and 39 trap door covers over the wells were renewed and thus rendered mosquito proof. Almost all the wells, storage tanks and all such breeding places were periodically examined with a view to detecting the breeding of mosquitoes.

The result of examination of larvae showed that only 0.2 per cent. were anopheles, 26.8 per cent. were Stegomyia and 73.0 per cent. were Culex and other groups.

Hyderabad town.—Storm water channels were all cleared up before the rainy season and all stagnant and rain water was pumped from the low lying lands.

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The services of an Anti-mosquito Brigade consisting of 2 Jamadars and four sweepers was continued throughout the year. Breeding places of mosquitoes were treated with suitable larvicides.

Sukkur town.—Malaria was the most prevalent disease in Sukkur town. During the year under report, 20,985 cases of malaria were treated in the municipal dispensaries.

Searches are made for breeding places of mosquitoes. Crude oil was sprayed every week for 8 months over all collections of stagnant water, 2 per cent. Paris green mixed with lime ash was dusted over the edges of Sukkur Canal.

An anti-malaria brigade consisting of one Sanitary Sub-Inspector and two sweepers is provided. They remove the weeds on the banks of Sukkur Canal and Dubba and take larvicidal measures generally.

50 larvicidal fish were introduced into the Sukkur Canal.

The Vasapur Hollow was reclaimed.

Larkana town.—The ponded water in the Old Ghar Canal has been a cause of much concern to the authorities. Realising the necessity of suitably tackling the problem, the Government were pleased to place at the disposal of the Collector of Larkana a sum of Rs. 2,000 to meet expenses in connection with special measures. In the absence of any Government Malaria staff, the Civil Surgeon, Larkana, was requested to personally supervise the operations and render such assistance as may be required by the Collector.

Orders for tools, plants, larvicides, etc., were placed by the Provincial Public Health Department.

As the anti-larval operations were started towards the end of the year, a further report as to the extent and nature of measures adopted and the results achieved would be given in the next year's annual report.

Such measures are bound to fail unless all local authorities carry out similar measures in their own areas.

7. No special anti-larval or anti-mosquito measures were reported to have been carried out by the District Local Boards in the Province.

8. Government measures.—(a) Appointment of Touring Medical Officers.—Temporary touring medical officers were appointed during the malaria season to tour in rural areas specially in those parts where medical aid, in the ordinary course, is not available. The touring medical officers were also required to take the spleen index, map out mosquito breeding places, send mosquitoes to the Assistant Director of Public Health, Sind, for identification, send blood smears for examination for malaria parasites and gametocytes and advise the villagers regarding simple preventive measures against malaria and the value of quinine in the treatment of malaria. These medical officers visited 406 villages, treated in all 23,030 patients (11,024 for malaria and 12,006 for other complaints). They also examined the spleens of 11,843 children as well as adults and found 2,429 with enlarged spleens. They also distributed quinine tablets among the villagers.

(b) The sale of Jail made mosquito nets.—Improvements have been made on the old pattern. The improved pattern mosquito net costs Rs. 2 each.

(c) The amount of Rs. 33,000 has been sanctioned by the Government for the manufacture of quinine tablets.

(d) The following agencies were employed for the free distribution of quinine tablets on a large scale :---

(1) Officers of the Public Health, Revenue and Educational Departments, (2) Administrative Officers of District School Boards, (3) Philanthropic and Voluntary Societies, (4) Zamindars employing large number of 'haris', (5) The Special Officer for Rural Reconstruction.

During the year under report also opinions were invited from the District Revenue Officers with regard to the policy of free distribution of quinine tablets and it was generally agreed that quinine did reach those for whom it was primarily intended.

(e) Quinine tablets were supplied to Post Offices for cheap sale.

(f) A fishery for the supply of larvivorous fish (Gambussia) was maintained.

(g) Health Bulletin No. 22, "Man made Malaria", has been translated into Sindhi and distributed free of cost.

(h) Pictorial posters on personal preventive measures against malaria were printed and distributed to the following :---

- (1) Medical Department for Hospitals and dispensaries.
- (2) Prison Department for Jails and sub-Jails.
- (3) North-Western Railway and Jodhpur Railway authorities.

(4) Judicial Department.

(5) Postal Department for sub-post offices.

(6) Education Department for Schools.

(7) Forest Department.

(8) Veterinary Department.

(9) Factories Department for factories.

(10) Public Works Department.

(11) Special Officer, Rural Reconstruction Department.

(12) Police Department for Thanas and out-posts.

(i) Leaflets on malaria and on the value of quinine have been printed and distributed.

(j) Anti-malaria work was carried on by the staffs of the two Motor Travelling Dispensaries.

(k) In all 1,245,681 (5 gr.) and 4,212,678 (2 gr.) quinine sulphate tablets were supplied by the Public Health Department for distribution. In addition 248,650 quinine hydrochloride tablets (5 gr.) each were supplied on payment.

(1) During the year under report, information was called for from the agencies to whom the use of Pyrocide '20' as an insecticide was suggested as desired by the Public Health Commissioner. The results obtained have been more encouraging but from some quarters complaints have been received that the cost of the insecticide is prohibitive. It will be interesting to read the following extracts from the replies received from some of the agencies :—

(1) Officer In-charge and Principal, King George V Institute of Agriculture, Sakrand.—The chemical was tried and found to be effective in killing both the mosquitoes and flies. Household pests were also found dead, only a few were living, but almost paralysed. The latter were kept under observation and did not recover.

(2) Messrs. Volkart Brothers.—From the information received from our medical adviser we learn that where as malaria is raging in Mirpurkhas town, cases of malaria amongst our staff members are comparatively less.

From our own experience during the last working season we had very few absentees from the work due to malaria fever and we are satisfied that this is a very large measure due to the regular use of Pyrocide '20'. (3) Horticulturist in Sind.—During the period when Pyrocide was in use, the incidence of malaria was reported to be much less. It is also a very good repellent of flies, wasps, and other domestic pests.

(4) The Civil Surgeon, Hyderabad, and the District Medical Officer, Thar Parkar, reported that Pyrocide '20' was found effective and it did kill mosquitoes and flies.

(5) Pyrocide '20' was used in the Central Prison, Hyderabad, Sind Convict Gang, Hyderabad, and the District Prisons, Karachi and Sukkur. The reports received from the Superintendents show that the method is effective.

(6) Of all these, the most systematic operations seem to have been carried on by the Railway administration. The report received from the Divisional Medical Officer, North-Western Railway, Karachi, is reproduced below :—

"I. The following stations particularly and many others were visited by the Malaria Staff for carrying out anti-malaria operations :---

- 1. Keamari.
- 2. Karachi City.
- 3. Karachi Cantonment.
- 4. Kotri.
- 5. Hyderabad.
- 6. Sukkur.
- 7. Rohri.
- 8. Larkana.
- 9. Dadu.
- 10. Ruk.
- 11. Khanpur.
- 12. Jacobabad.
- 13. Pad Idan.
- 14. Drigh Road.

2. The spraying was carried out throughout the year at different intervals. The spraying was done in all the quarters whether menial or superior on all the occasions when these stations were visited by the Malaria Squads. As a result of these anti-malaria measures having been vigorously carried out this year, the percentage of malaria cases has gone down still further as compared to the figures of the last year as shown in the statement below :—

Month.		Number of m	Decrease.	
January		1938. 977	1939. 644	333
February		607	162	445
March		556	288	268
April		951	405	546
May		937	773	164
June		567	538	29
July		507	338	169
August	·	547	319	228
September		696	360	336
October		949	486	463
November		1,130	581	549
December		768	710	58
Tota	1	9,192	5,604	3,588

3. From the reports received from different stations it is noticed that most useful work has been done with a limited amount. In my opinion the money has been spent most usefully resulting in an appreciable reduction in the number of malaria cases on the whole and giving general relief against mosquito nuisance to our employees and their families.

Public Works Department.—Pyrocide '20' or Pyrethrum insecticide has been tried and found to be efficacious in killing adult mosquitoes.

9. Distribution of quinine.—Government authorised the Director to incur expenditure up to Rs. 1,000 per annum from the allotment for the purchase of magnessium sulphate to be supplied free of charge with quinine tablets.

During the year under report 1,977,905 (5 gr.) and 4,541,000 (2 gr.) quinine sulphate tablets were supplied to various agencies as under :--

(1)	Quinine sulphate tablets to Post Offices for cheap sale.	152,252 (5 grains).
(2)	Quinine hydrochloride treatment parcels sold to Government depart- ments.	986‡ parcels each containing 200 tablets (5 grains each).
(3)	Quinine sulphate tablets sold to local bodies at concessional rates.	404,305 564,928 (5 grains). (2 grains).
(4)	Quinine hydrochloride treatment parcels sold to local bodies.	257 parcels each containing 200 tablets (5 grains).
(5)	Quinine sulphate tablets for free distribution (Government Officials).	б14,000 78,500 (5 grains). (2 grains).
(6)	Number of quinine sulphate tablets sent to various local bodies for free distribution.	3,566,000 (2 grains).
(7)	Quinine sulphate powder and tablets sold to Government depart-	75,124 3,250 (5 grains). (2 grains).

10. Special inquiries and investigations.-Nil.

ments.

CHAPTER X.

MATERNITY AND CHILD WELFARE.

1. At present Maternity and Child Welfare services are chiefly organised by voluntary organisations such as the Provincial Branch of the Indian Red Cross Society, Lady Graham Dais' Improvement and Village Uplift Scheme, Hyderabad, Lady Graham Dais' Training School, Sukkur, and the Karachi Health Association. A Maternity and Child Welfare Sub-Committee under the auspices of the Red Cross Society has been set up with the Director of Health Services and Inspector-General of Prisons, Sind, as Chairman. 2. The Lady Graham Dais' Improvement and Village Uplift Scheme, Hyderabad, and the Lady Graham Dais' Training School, Sukkur, are the training centres for dais. Under the auspices of the former classes for Dais were held at the following places :--

> Dhoro Naro (Thar Parkar district). Khipro (Thar Parkar district). Radhan (Dadu district).

In all 67 dais received instruction. 9 dais appeared for examination and all passed.

There were 19 dais under training in the Lady Graham Red Cross Dais' Training School, Sukkur, in the beginning of 1939. Four dais appeared for examination. All passed and one of them secured Honours.

3. During the year under review the Countess of Dufferin's Fund, Sind Provincial Council (Women's Medical Relief) provided instruments and equipment in Women's Hospitals and Maternity Homes to the value of Rs. 4,340.

4. As a first step towards the eight year plan for the provision of trained maternity services, it was decided to train five candidates in midwifery at the Lady Dufferin and Louise Lawrence Provincial School of Midwifery. The first batch will undergo training in the year 1940-41. The Government were pleased to sanction the award of a scholarship of the value of Rs. 20 per mensem tenable for a period of 12 months to each selected candidate. In order that suitable candidates may be attracted, appointments for successful candidates have been guaranteed. There is however great difficulty in getting suitable Sindhi girls.

5. Maternity services in urban and rural areas.—More superior services are available in urban areas than in rural areas. It is only in the latter case that concerted action is very necessary although the provision of the same in many minor towns cannot be neglected. It is however a happy sign that the District Local Boards are also considering the necessity of providing trained maternity services in rural areas.

The extent of maternity and child welfare services in urban and rural areas is shown in Appendix I-A.

In some of the towns, child welfare work is carried on by voluntary associations which in some cases are aided by the municipalities concerned. Very useful work is being done in this respect. The details are as under :--

Karachi City.—The number of child welfare centres was 8 of which 6 were Municipal, one conducted by the Red Cross Society and one by the Poor Patients Relief Society. These centres did excellent work. The Health Visitors attached to the Municipal centres visited homes of the people, conducted propaganda and attended to the children who were brought to the centres. Hyderabad town.—As usual the Child Welfare Centre of Fuleli quarter was kept open on all days from 8 a.m. to 12 noon and from 4 p.m. to 6 p.m. A large number of children and infants attended the centre.

Sukkur town.—The Municipality pays an annual grant of Rs. 600 to the Red Cross Society, Sukkur, for the maintenance of the Child Welfare Centre.

The Health Visitor visits the homes, gives health talks to mothers on sanitation, cleanliness and infant feeding.

Free milk is distributed to the poor and weak children of the town, irrespective of caste and creed. On an average 50 children were given $\frac{1}{2}$ lb. of milk every day and the total attendance was 763 in 1939. The children taking milk increased in weight.

A statement showing particulars of deaths due directly to child bearing and compiled under the headings of the International List (1929) for the municipal towns employing qualified Health Officers is given below :—

Name of Tov	vn.	Septic abortion.	Abortion (non-septic).	Ectopic gestation.	Other accidents of pregnancy.	Puerperal sepsis.	Paerperal alb, and convulsions.	Other toxaemias of pregnancy.	Embolism and sudden death.	Other accidents of child birth.	Other or unspecified conditions of the puer- peral state.	Anaemia.
1		2	3	4	5	6	7	8	9	10	11'	12
							and the				16.14	
Karachi			3		- 4	41	4	8	3	9	15	6
Hyderabad			1		2	40				5		4
Sukkur						6				3		
Shikarpur				1	2	2		1	1	6		1

Note 1.-2 deaths to eclampsia, 1 post partum haemorrhage, and 1 obstructed labour were recorded in Sukkur town.

Note 2.—The figures shown against Shikarpur town have been supplied by the Lady Doctor, In-charge, Lady Dufferin Hospital, Shikarpur. Particulars of the remaining deaths could not be collected for want of satisfactory statistical record.

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6. The Government pays grant-in-aid to the	e foll	owing :-
(1) Lady Dufferin Hospital, Karachi		Rs. 25,000
(2) Lady Dufferin Hospital, Shikarpur		5,000
(3) Baker Mission Hospital, Larkana		2,000
(4) Alexandra Mission Hospital, Sukkur		1,200
(5) Lady Graham Dais Improvement Scheme		3,000
(6) Zanana Mission Hospital, Hyderabad		2,380
(7) Margaret Gibson Maternity Home, Sujar	wal	1,000
(8) Female Dispensary, Tando Adam		2,050
(9) Karachi Health Association		2,000
(10) R. B. Chandiram Verhomal Maternity		
Home, Rohri		1,000
(11) Ishwari Rai Maternity Home, Shikarpur	:	500
(12) Red Cross Society		2,000
Total	Rs.	47,130

CHAPTER XI.

SOCIAL HYGIENE AND MEDICAL INSPECTION OF SCOOL CHILDREN.

I. The system of school medical inspection in the Province of Sind is still in the embryonic form. The value and importance of school medical inspection has been fully realised, but the only obstacle is the provision of adequate funds.

As usual the Sind Subordinate Medical Service Officers Incharge of the mofussil dispensaries carried out monthly medical examination of children attending primary schools situated within the villages in which such dispensaries are located.

During the year under report, the Sind Subordinate Medical Service Officers examined 63,596 children as against 11,355 in the previous year. Of these, 12,904 children or 20.29 per cent. showed defects. The principal defects found were :--

Enlarged spleen, enlarged tonsils, diseases of the eye, ear, teeth, respiratory system, and digestive system, malaria, and anaemia, etc.

2. The Government Inspectors of Sanitation and Vaccination visited 98 schools to inspect the vaccinal condition of the school children and to inspect sanitation, ventilation and water-supply. Of 2,683 children examined, 437 were found to have enlarged spleens. They delivered 78 lectures on tuberculosis and general hygiene.

3. The Medical Officer of Health, Municipal Corporation of the City of Karachi, writes :---

"Although the Corporation rejected the scheme for Medical Inspection of School Children on grounds of financial stringency, examination of the teeth of the school children of a few quarters was carried out free of charge at the College of Dentistry. This has proved of immense benefit to pupils.

Poor pupils were also given free treatment. The following statistics will show the results of the examination of the teeth of the school pupils :---

Out of total number of 543 children examined;

68 per cent. were found having ' tartar ' requiring cleaning.

61 per cent. were found having ' caries ' in the teeth.

0.4 per cent. were found having suffering from ' abscesses '.

8 per cent. children were showing 'mal-occlusion'."

The ages of the children examined were between 5 to 13 years.

Hyderabad town.—Three examinations each of the duration of four months were made by the Honorary Medical Inspector, Municipal Schools, Hyderabad. In all 7,452 boys and girls were examined. The results were as under :—

Affection.	111		Percentage in boys.	Percentage in girls.
Defects in teeth]	12.97	16.35
Mal-nutrition and anaemia	a		3.43	5.20
Enlarged spleen			2.85	0.48
Enlarged glands			2.96	2.97
Ear, nose and throat affect	ctions		3.30	3.14
Skin diseases			0.20	0.42
Eye diseases			2.46	0.23
Other affections			0.29	0.50
Defective vision			7.79	9.12

Arrangements have been made in the various municipal dispensaries in the different parts of the city where pupils are treated free of charge and special attention is paid to them.

Poor children with defective vision are given spectacles free of charge from the fund collected by the Administrative Officer for such children.

CHAPTER XII.

HEALTH PROPAGANDA.

No material advancement was made with regard to public health propaganda. There is no separate establishment for the purpose. It has been recommended to the Government that in this age of publicity and in view of the increased necessity of public health propaganda specially in this Province where the public health services are so meagre, a separate establishment may be sanctioned. This recommendation and a scheme for the purpose is receiving their attention.

An account of work carried on by the various societies is given below :---

1. Karachi Health Association.—The Lady Health Visitor and the midwives visited 4,715 houses, talked to 9,530 women, paid visits to 1,072 ante-natal cases and 783 were re-visits. They attended to 1,051 deliveries and paid 1,906 post-natal re-visits. This Association also maintains a Maternity Home of 45 beds.

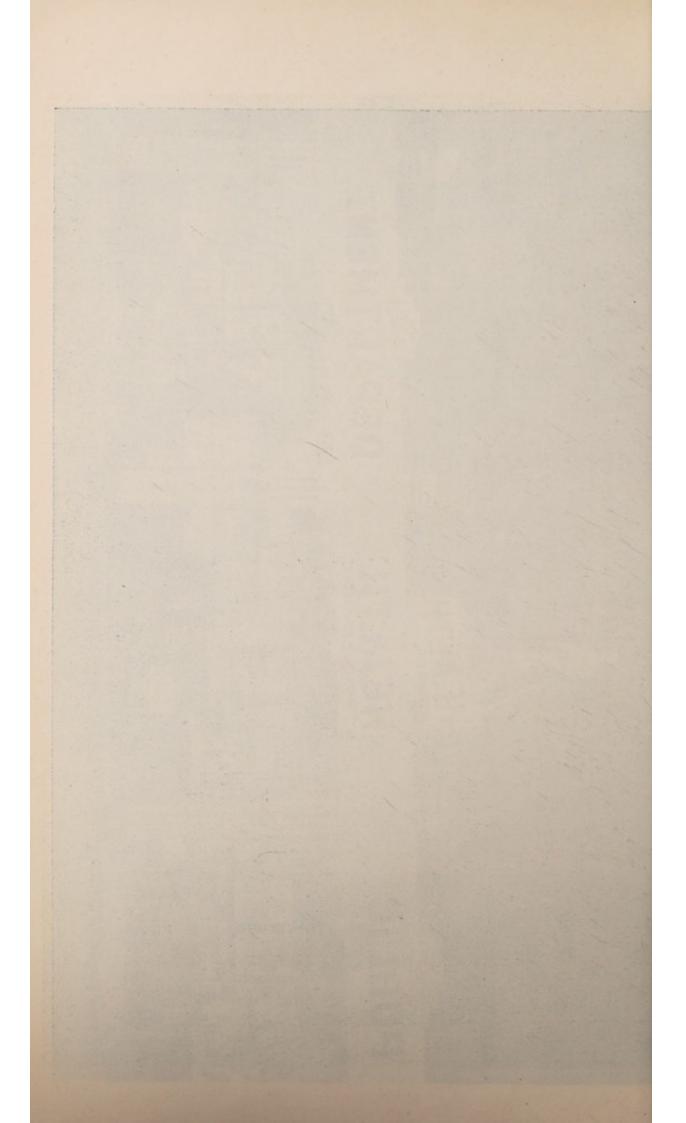
The Government of Sind increased their grant from Rs. 1,000 to Rs. 2,000.

2. Red Cross Society.—The Society continued to maintain Maternity Homes in Thul, Sultankot, Dadu and Nawabshah. The Society also maintained Child Welfare Centres at Kiamari and Sukkur.

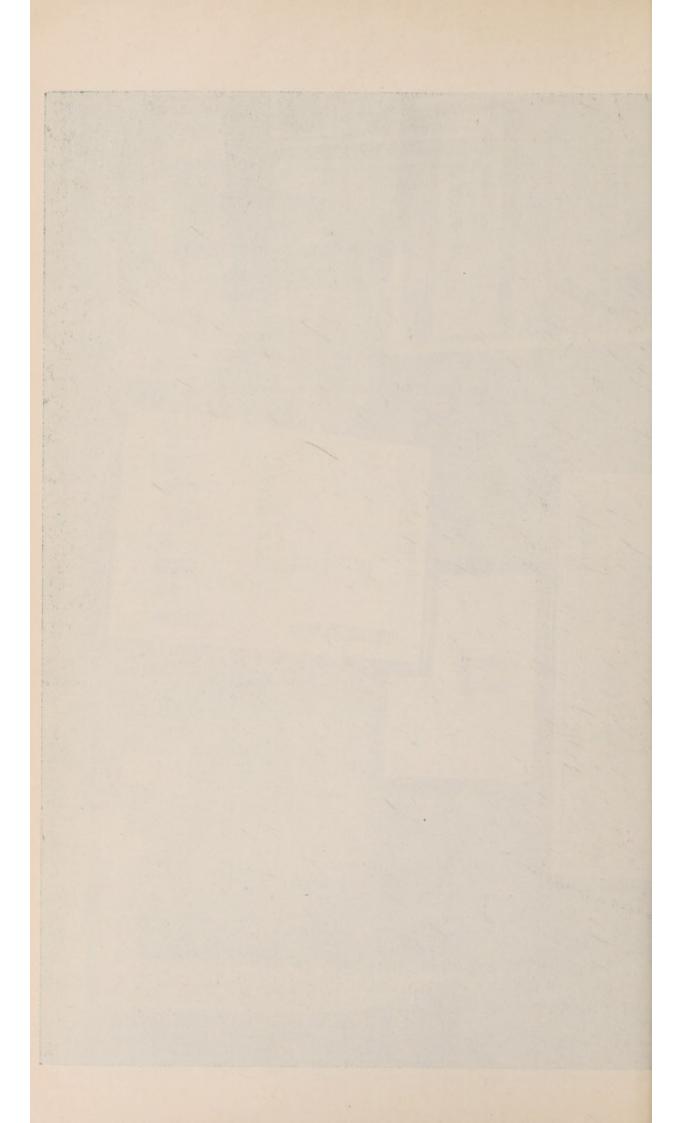
The Provincial Organiser visited towns and villages, delivered 112 lectures and visited 89 Junior Red Cross Groups.

Junior Red Cross.—The number of groups at the end of 1939 was 285 with 12,351 members against 11,107 in 1938. The Junior Red Cross concentrating as it does on health, social service and friendship to all assisted the schools in educating children. Lectures were delivered on health, hygiene and sanitation.

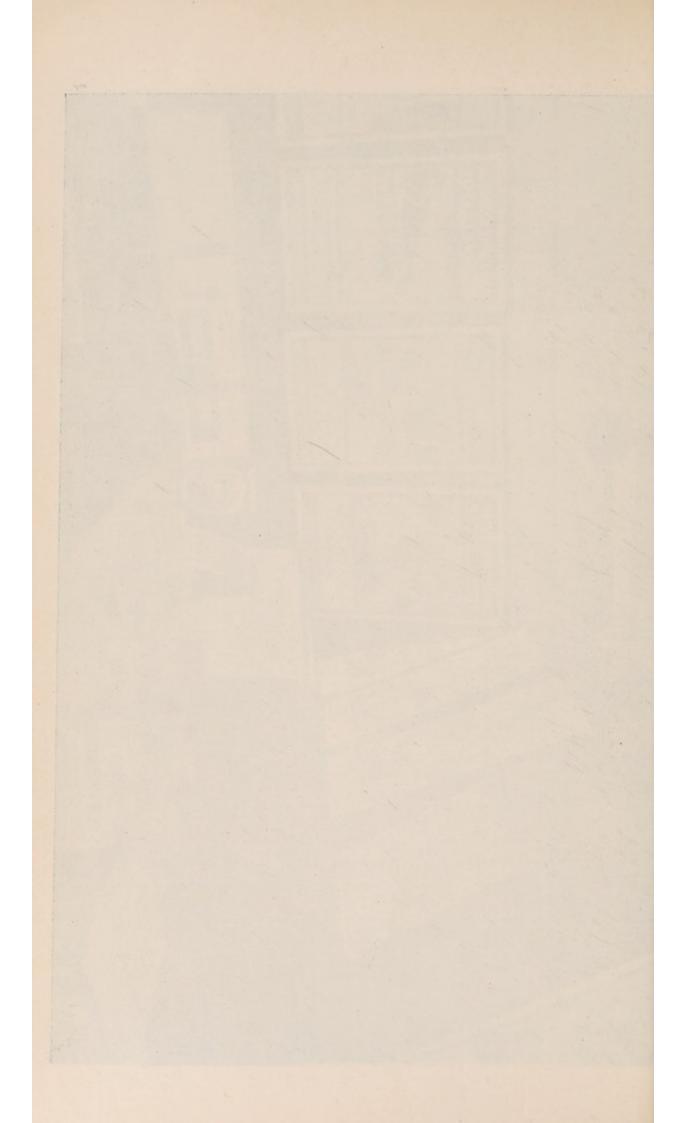












3. Provincial Public Health Department.—With the present meagre staff useful work as far as possible has been done which has been very well appreciated by all. Public Health stalls had been put up at important shows and exhibitions, e.g. (1) The All-India Industrial Exhibition, Karachi, (ii) The Horse Show, Jacobabad, (iii) The Agri-Horticultural Shows organised by the Agricultural Department and (iv) The Rural Reconstruction Shows organised by the Special Officer, Rural Reconstruction, where public health propaganda was carried on by means of models and the exhibition of pictorial posters. Lectures on health and hygiene were also delivered.

Anti-malaria propaganda.—As usual anti-malaria propaganda was carried on with the aid of pictorial posters. Leaflets on malaria were widely distributed and the cheap mosquito nets were demonstrated at the shows as well as by the Touring Medical Officers on anti-malaria duty and Government Inspectors of Sanitation and Vaccination. The Medical Officers In-charge Government Travelling Dispensaries also carried on anti-malaria propaganda.

Tuberculosis propaganda was also carried on by means of Red Cross illustrated charts. The Inspectors of Sanitation and Vaccination delivered lectures on tuberculosis in the schools visited by them.

CHAPTER XIII.

PUBLIC HEALTH ADMINISTRATION.

1. General Administration of the Department—Budget allotments increase and decrease, etc.—The Director of Health Services and Inspector-General of Prisons, Sind, was the administrative head of the Public Health Department. There was one Assistant Director of Public Health, one Officer In-charge, Chemico-Bacteriological Laboratory, Karachi. The subordinate staff consisted of 5 Inspectors of Sanitation and Vaccination and 65 vaccinators. There were two Chemical Assistants in the Laboratory. The Bacteriological Assistant officiated as Officer In-charge of the laboratory in addition to his own duties.

The municipalities in the Province employed 6 qualified Medical Officers of Health (3 in Karachi) and 23 qualified Sanitary Inspectors. Section 119 of the Bombay District Local Boards Act, 1923, was so amended as to make it compulsory for each District Local Board to appoint a District Health Officer. It is regrettable to note that so far none of the District Local Boards have appointed Health Officers (with the exception of the District Local Board, Larkana, where a Health Officer was appointed prior to the separation of Sind). The Government pays a grant-in-aid to the extent of 2/3rds the pay of the Health Officer, District Local Board, Larkana. This offer is open to all the District Local Boards who appoint Health Officers hereafter.

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

Appendix II shows the annual income and expenditure of the Public Health Department during the year 1939-40. 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. 17,648. The total expenditure including this amount was Rs. 171,606.

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 District 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 for the training of Sanitary Inspectors. The question of Government recognition of the proposed classes for the Sanitary Inspectors under the auspices of the Karachi Municipal Corporation was not finally decided till the end of the year.

CHAPTER XIV.

VACCINATION.

(This chapter and all statistical tables connected therewith refer to the period from 1st April 1939 to 31st March 1940.)

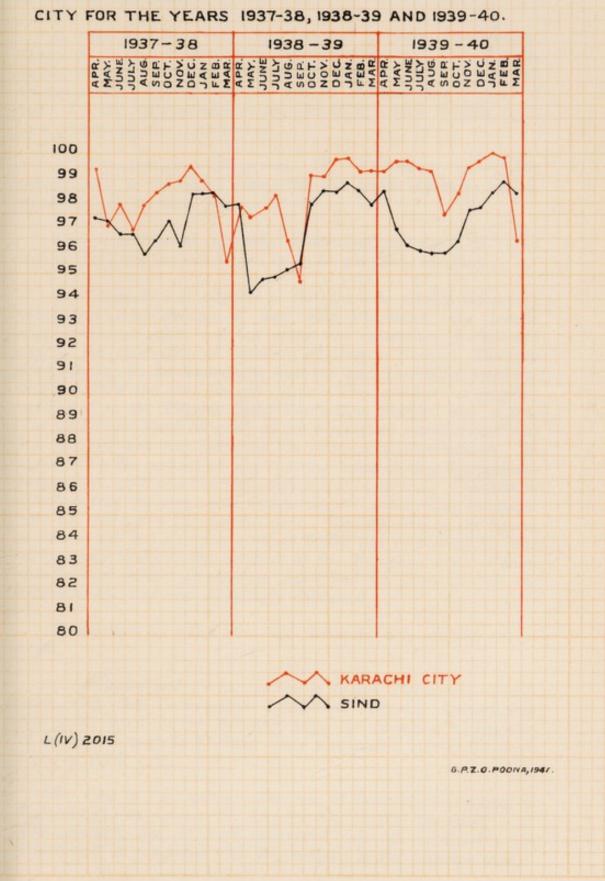
1. Changes in the strength of establishment.—The vaccination establishment was increased from 64 to 65 which was on account of the appointment of a separate Government Public Vaccinator for Kambar town.

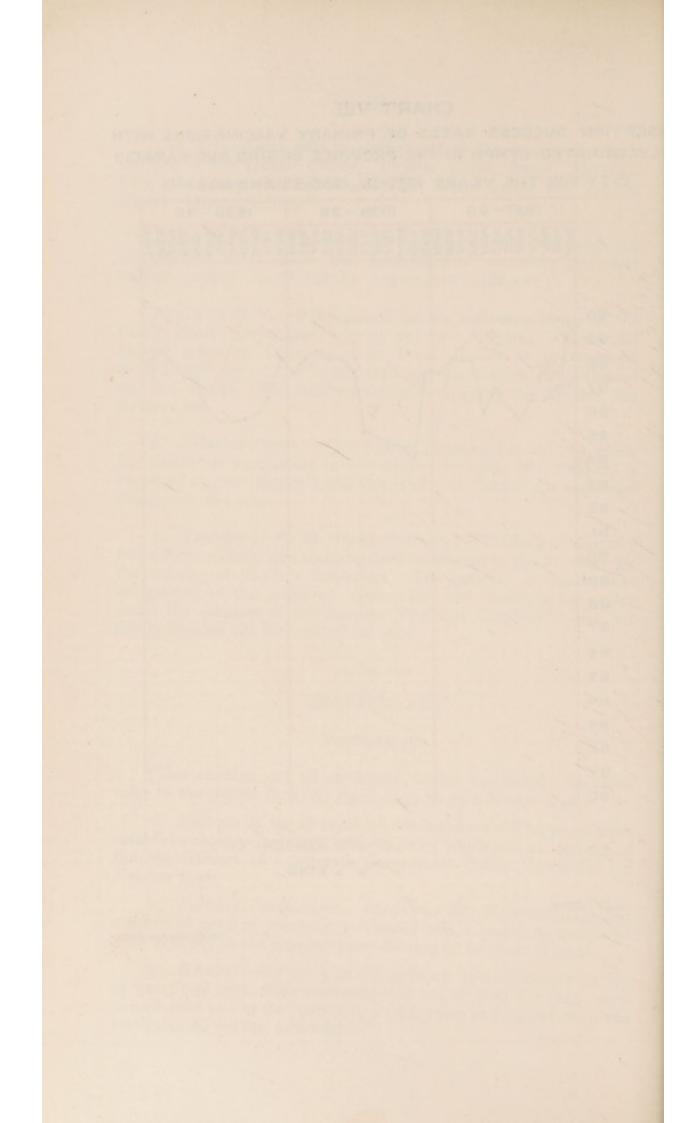
2. Primary Vaccinations. (Appendix IV, Statement I).—The number of persons primarily vaccinated was 1,42,408 as compared with 1,36,467 in the previous year showing an increase of 5,941.

3. Results.—Out of 1,42,408 primary vaccinations, 1,31,685 or 92.47 per cent. were successful and 124 or 0.09 per cent. were unsuccessful and in the remaining 10,599 cases or 7.44 per cent. the results could not be ascertained.

CHART VIII

NSERTION SUCCESS RATES OF PRIMARY VACCINATIONS WITH GLYCERINATED LYMPH IN THE PROVINCE OF SIND AND KARACHI





22 persons were vaccinated a second time owing to the failure of the first operation.

4. Age and Sex.—Out of 1,42,408 primary vaccinations, 73,072 or 51.31 per cent. were infants under one year of age, 60,662 or 42.60 per cent. children between the ages of one and six years and 8,674 or 6.09 per cent. of children over 6 years of age. By sex, 76,237 were males and 66,171 were females equal to a proportion of 115.21 to 100.

5. Re-vaccination—(Appendix IV, Statement I).—73,605 persons were re-vaccinated during the year under report as against 79,061 in the previous year.

The percentage of successful re-vaccinations was 9.86. The results could not be ascertained in 43.61 per cent. of cases.

6. Vaccination of pilgrims at Karachi.-As usual a temporary vaccination establishment of one male vaccinator, one female vaccinator, one clerk, and one cooly was entertained in Karachi city for the vaccination of intending pilgrims to Hedjaz. The outward pilgrim season commenced with the 22nd November 1939 and terminated on the 5th January 1940. The number of pilgrims vaccinated at the Pilgrim Camp Vaccination Station was 2,450. The total expenditure incurred on the vaccination establishment was Rs. 301-11-6 and was borne by the Provincial Government. As against this the number of pilgrims that sailed during the previous season was 8,068 and the total cost was Rs. 735-1-0. The cost of lymph during the year under review was Rs. 136-11-6 as compared with Rs. 396-2-0 in the previous year. This disparity in the figures is due to the fact that the outward traffic was suspended for the earlier part owing to the outbreak of the European war. Consequently less number of pilgrims sailed and the duration of the establishment was correspondingly shortened.

Vaccination in police lines and outposts was carried out as usual.

7. Primary and Re-vaccination in Indian States.—In accordance with the Government Resolution, General Department, No. 9083, dated the 8th February 1935, 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. 1,13,384 as against Rs. 1,16,881-8-0 in the preceding year. The average cost of each successful case of vaccination was Re. 0-13-6 as compared with Re. 0-13-10 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. 46,500 doses of lymph were sent for and stored in the Head-office refrigerator for emergent use, of which 42,680 doses were supplied to the vaccinators in addition to their regular weekly supplies.

10. Compulsory Vaccination.—Excluding the 2 Cantonments of Karachi and Hyderabad and the City of Karachi, the Bombay District Vaccination Act was in force in the following 9 municipal towns :—

(1) Larkana, (2) Sukkur, (3) Rohri, (4) Hyderabad,
(5) Hala, (6) Shikarpur, (7) Nasarpur, (8) Tatta, (9) Dadu.

It had been experienced that all efforts to induce many of the Municipalities to agree to the provisions of the Bombay District Vaccination Act, 1892, being extended within their limits, did not achieve the desired effect. At last the Government came to the rescue and exercised the powers conferred by clause (b) of subsection (2) of section 2 of the Bombay District Vaccination Act, 1892 (Bom. I of 1892) and directed that the provisions of sections 1 to 32 of the said Act shall come into force within the Municipal districts in which these were not in force hitherto.

During the year under review 124 prosecutions were instituted in the towns where the Act was in force. Out of these 57 got their children vaccinated before the cases were heard, 1 was fined, 3 died, 2 were warned, 10 are pending, 41 were not traceable and 10 were withdrawn.

11. Diagrams.-Nil.

12. General Remarks.—Great difficulty has been experienced by the dilatory attitude of the Municipalities in not supplying in time, forms, stationery, and articles of dead stock to the public Vaccinators.

Efforts are being made to persuade the Municipalities to appoint Government Vaccinators exclusively for the towns.

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 1939-40, 2 candidates were trained in vaccination. There were in all 23 candidates on the list of waiting candidates for service in the Province.

CHAPTER XV.

OTHER PUBLIC HEALTH SERVICES.

1. Public Health Laboratory. The Chemico-Bacteriological Laboratory, Karachi. — Mr. H. C. Hiranandani, Bacteriological Assistant, continued to officiate as Officer In-charge of the Chemico-Bacteriological Laboratory, Karachi, during the year 1939. There are two sections in the Laboratory, viz., a Chemical Analyser's Section and a Public Analyst's Section. The Report of the Chemical Analyser's Section is published separately.

2. During the year under report, the number of samples examined in the Public Health Section of the Laboratory was 7,838 as compared with 12,215 in the previous year showing a decrease of 4,377. This is due to the fact that the Karachi Municipal Corporation discontinued sending bacteriological diagnostic work to the laboratory for examination. Added to this was the less number of samples of water for bacteriological examination and of foodstuffs for examination under the Bombay Prevention of Adulteration Act.

Kind of samples.	1935.	1936.	1937.	1938.	1939.
Chemical examination of	1,098	895	461	446	455
water. Bacteriological examination of water.	3,005	1,508	2,110	2,711	2,204
Public Analyst's work Chemical examination of food	2,349 96	3,940 120	3,856 113	5,054 180	4,672 106
stuffs. Diagnostic work Miscellaneous	2,150	3,451	13,616	3,817	388
Total	8,751	9,916	20,214	12,215	7,838

The details of the work during the year under report compared with the previous 5 years are given in the following table :---

3. Examination of water supplies .--

Karachi.—In order to ascertain the nature of bacteria in water, which is pumped from the wells at Dumlotte before chlorination, bacteriological examination of untreated water is carried out every day. In all 286 samples of water were examined and 1,451 samples of chlorinated water were examined bacteriologically. For the purpose of ascertaining the amount of chlorine required to purify water the daily dose is estimated and reported to the Chlorination Station.

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Besides this daily examination, the Health Officer, Karachi Municipal Corporation, sent samples from various houses in different localities in the city when there was either a case of continued fever or from which complaints were received as regards bad smell in water. The number of such samples examined was 289.

61 samples of water were examined chemically. The Special Engineer, Karachi Municipal Corporation, also sent 20 samples for chemical examination in addition to the above number of 61.

The Karachi Municipal Corporation are granted liberal facilities for the examination of water and a fixed annual contribution of Rs. 2,000 is recovered from them irrespective of the number of samples examined.

Hyderabad Municipality.—Hyderabad Municipality sent 12 samples of chlorinated water for bacteriological examination during the year as against 4 in the previous year.

The importance of getting water supplies examined regularly and frequently has been brought to the notice of the Municipality and it is hoped that many more samples will be sent next year.

Each sample of water sent by the Hyderabad Municipality is charged for at the rate of Rs. 5.

Sukkur Municipality.—Sukkur Municipality sent 50 samples of water, 37 for bacteriological and 13 for chemical examination. With a view to providing better facilities to the Municipality, the Government accepted the fixed annual contribution of Rs. 640 for a fixed number of samples.

Jacobabad Municipality.—Jacobabad Municipality sent 8 samples for chemical analysis during the year as against 4 in the previous year. The Government were recommended that the Municipality should be granted a concession as has been done in the case of Sukkur Municipality, and accept an annual contribution of Rs. 150 for fixed number of samples.

The Officer In-charge, Chemico-Bacteriological Laboratory, Karachi, inspected the Jacobabad and Hyderabad water works. He also made inspection of river water at Kotri as complaints about the contamination of the water were received.

4. Diagnostic work.—The Government have provided facilities to the Local Bodies in the case of bacteriological examination of material from cases of infectious diseases at a special rate of Rs. 2 per specimen. It is regrettable to note that no advantage is being taken of this as can be seen from the fact that during the year under review no specimen was received for examination. The question of allowing free examination, with a view to encourage the sending of materials, is under consideration. The Government have also been pleased to direct that all analytical work sent to the Chemico-Bacteriological Laboratory, Karachi, on behalf of in-patients at Government or Government aided hospitals and dispensaries, who are exempted from the payment of hospital or dispensary fees in accordance with the rules for the time being in force, should be done free of charge as an experimental measure for a period of one year with effect from the 1st November 1939.

During the year under review 388 examinations were made under this head as compared with 3,817 in the previous year. The decrease is due to the fact that the Karachi Municipal Corporation which used to send for examination many samples, sent only 20 samples during the whole of the year.

Diagnostic work included bacteriological, microscopic and chemical examination of urine, faeces, sputa, throat swabs, blood slides, blood cultures, Widal's tests, cerebro-spinal fluid, autovaccine, disinfetants and the examination of rats for P. Pestis

5. Food Adulteration.—The Bombay Prevention of Adulteration Act, 1925, was in force in the following towns :—

Year.
 1930
 1935
 1936
 1937
 1938
 1938

With the co-operation of the Revenue Department, the following Municipalities agreed to the extension of the provisions of the Act within their respective Municipal limits :—

> Tando Adam, Mirpurkhas, Rohri, Garhi Yasin, Kotri, Ghotki, Jacobabad, Shahdadpur, Kambar, Umarkot, Dadu.

Negotiations were started with regard to the number of samples to be examined on their behalf and the fixed annual contribution. The question was still under correspondence till the end of the year under report.

With a view to maintaining uniformity, the Government approved of a draft set of rules framed under the provisions of the Bombay Prevention of Adulteration Act. The Municipalities in the limits of which the provisions of the Act were in force or which agreed to the extension of the same, were advised to adopt the model rules approved by the Government.

6. Working of the Bombay Prevention of Adulteration Act.— The number of samples of ghee or butter and milk examined under the Bombay Prevention of Adulteration Act, 1925, and the percentage of adulteration is shown in the following table :—

Town.		Ghee and	butter.	Milk.	
Karachi		1,229	19.2	1,632.	17.0
Hyderabad		35			
Shikarpur			51.4 65.1		
Sukkur		43		67	44.7
Tatta		21	47°0 42°8		

The Karachi Municipal Corporation filed 704 cases under the Bombay Prevention of Adulteration Act, 1925. Of these only 5 ended in the acquittal of the accused, 13 pending, 29 withdrawn as untraceable, while the remaining 657 were decided in favour of the Corporation.

The number of prosecutions filed by the other Municipalities and results thereof are shown in the following statement :---

Town.	Number of prosecu- tions.	Number acquit ted.	Number with- drawn,	Number convicted.	Number pending.
Sukkur	 30	I	14	14	I
Shikarpur	 15			15	
Hyderabad	 15				15
Tatta	 7			6	I

The convictions ranged from warnings to fines extending from Re. 1 to Rs. 150.

Ghee Conference.—The Official Committee appointed by the Government of Sind in 1938, concluded its deliberations during the year under report.

General Remarks.—The fixing of standards specially with regard to ghee and butter is a difficult problem and it is hoped that the discussions by the Central Advisory Board of Health on the Report of the *ad hoc* Committee may lead to some definite conclusion.

Financial Position.—The total receipts during the year 1939-40 amounted to Rs. 30,267-9-6 and the expenditure was Rs. 20,098-1-9 showing a saving of Rs. 10,169-7-9.

7. Industrial Hygiene including Hygiene of Mines.—The Assistant Director of Public Health continued the inspection of factories (registered under the Factories Act) in his capacity as an ex-officio Inspector of Factories and made out reports which were sent to the managements of the factories who were requested to carry out the recommendations contained therein. Special attention was paid to light, ventilation, water-supply, sanitary arrangements, lime washing, first aid outfits and arrangements for the welfare of the workers.

There are no mines in Sind.

CHAPTER XVI.

GENERAL REMARKS.

1. Nutrition.—Although fully occupied on account of paucity of the public health staff, Mr. O. M. Akbani, D.P.H. (London), Assistant Director of Public Health, Sind, paid as much attention as possible to the subject of nutrition.

The following work was done during the year under report :--

(1) Propaganda with the aid of Nutrition Charts was carried on at all the important fairs and festivals. In addition to this, various articles of food stuffs arranged in order of well balanced and ill-balanced diets were actually exhibited and the visitors to the Public Health Stall were explained the significance of these.

(2) The Nutrition Section at the All-India Industrial Exhibition, Karachi, proved interesting. One of the local papers made mention of this. "Of special interest was the Health Pavilion which besides other things, showed the visitor in diagram the nature of a Balanced Diet". (3) Health Bulletin No. 23 entitled "The Nutritive Value of Indian Foods and the Planning of Satisfactory Diets" was translated and printed into Sindhi, copies of which were liberally distributed in schools, libraries, and other institutions.

(4) Food Charts obtained from the Secretary, Christian Literature Society for India, Madras, were re-printed with explanations in Sindhi. These were distributed free of charge.

(5) Leaflets on milk in English as well as in Sindhi, were prepared by the Public Health Department.

2. Stegomyia Mosquito Control in Major Sea Ports of India.— The details of stegomyia mosquito operations carried on by various local authorities are as under :—

(1) Karachi Port Trust.—Anti-Stegomyia measures in the harbour area and the adjoining Karachi Port Trust estate were carried out throughout the year under the direction and supervision of the Port Health Officer. The following health staff was entertained by the Karachi Port Trust :—

> One Medical Officer specially trained in anti-mosquito work;

One Sanitary Inspector (qualified).

Eight Coolies.

Statement of work done afloat regarding inspection of Country Crafts, fishing, boats, etc.

Name.		Number	Number found breeding.				
		inspected.	Anopheline.	Stegomyia.	Culex.		
Country Craft		3,998	4	638	3		
Fishing Craft		2,200		118			
Lighters, Launches a harbour craft	nd	6,256		original and	dier esei		
Total		12,454	4	756	3		

Name.	Number	Numb	er found breed	eding.	
	inspected.	Anopheles.	Stegomyia	Culex.	
West Wharf Area	 1,336			3	
East Wharf Area	 a 6	I	5	64 16 58	
Mansfield Yard Area	 			16	
Thole Produce Yard Area	 3,792			58	
Total	 9,858	I	5	141	

The following statement shows the places inspected :--

(2) Karachi Municipal Corporation.—To work out systematically the Stegomyia Index for the islands of Baba, Bhit, Bunker and Shamspir, the Municipal Corporation have entertained the following extra establishment exclusively for this purpose :—

One Munshi.

Three Coolies.

The Mosquito Brigade maintained by the Corporation carried on anti-mosquito operations within the Municipal limits. About 2,54,308 houses and huts were inspected. Stegomyia mosquito larvae were found breeding in 2,463 places. About 18,607 houses and huts were inspected at the islands of Baba, Bhit, Bunker and Shamspir. Immediate action was taken in every case to destroy the larvae.

(3) Karachi Cantonment Area.—For Stegomyia Mosquito control in Karachi Cantonment no establishment has been exclusively entertained. The work was carried out by the Anti-Malarial Squad. Visits were paid to all bungalows and all areas in Cantonment four times during each month.

(4) North-Western Railway Area.—No special staff was entertained for Stegomyia operations. The work was carried on by the anti-malarial gang. Necessary steps were taken to stop further breeding at places where on inspection mosquito larvae were found.

(5) Air Port Area.—The staff engaged on this work was the Air Port Anti-Mosquito Gang assisted by the coolies engaged out of a special District Local Board grant of Rs. 360.

(6) Drigh Road Cantonment.—No establishment is maintained exclusively for this work which is incorporated in the general anti-mosquito measures undertaken in the Cantonment. The steps taken are periodic searches for breeding places and monthly mosquito catches throughout the Cantonment. When mosquitoes are prevalent, all buildings examined are sprayed out with insecticide.

(7) Manora Cantonment.—The Military Area, the Cantonment Area, and the Royal Indian Navy Area are supervised by the Assistant Surgeon in Medical charge of Troops, assisted by one British and one Indian soldier and the Superintendent of the Executive Officer's office. The Royal Indian Navy Area has been personally supervised by the Assistant Surgeon in Medical charge of Troops. The only establishment exclusively employed for this purpose was one cooly employed by the Karachi Port Trust at Manora.

A monthly statement of the stegomyia index is sent on by these local bodies and a consolidated statement is prepared for the information of the Public Health Commissioner with the Government of India.

3. Public Health Act.—There is no comprehensive Public Health Act for the Province of Sind.

4. Public Health Essays.-No remarks.

5. Board of Public Health Works.-The following is a brief note on the Board of Public Health Works for Sind in 1939 :---

(1) The project for the Improved Pressure Scheme of Karachi Water-Supply Distribution System, estimated to cost Rs. 27,31,535 was approved by the Board of Public Health Works for Sind and technically sanctioned by the Consulting Public Health Engineer to Government.

(2) It was proposed to finance the scheme by raising a loan and the Karachi Municipal Corporation are arranging to start the work as early as possible.

(3) As regards other projects already approved by the Board of Public Health Works since the date of its constitution to the end of the year 1938, the work of improvements to the Sukkur water-supply distribution system estimated to cost Rs. 3,92,500 is in progress and all the projects of improvements to the Karachi Water-Supply estimated to cost Rs. 2,49,213 are nearing completion. The following two works are expected to be started shortly :—

- (i) Jacobabad Drainage and Improvements to present watersupply Rs. 5,72,525.
- (ii) Larkana Drainage Scheme Rs. 4,00,000.

In addition, the following two sanctioned projects pertaining to the Hyderabad Municipality remain to be carried out. Permission to raise a loan to finance Scheme No. I, viz., Rapid Filtration Plant has been accorded to by Government and work will be started shortly. The work No. 2, viz., Partial Drainage Scheme will be started after permission to raise a loan for the scheme in question is granted by Government :--

(i)	Rapid	Filtration	Plant		Rs.	2,79,600.
-----	-------	------------	-------	--	-----	-----------

(ii) Partial Drainage Scheme ... ,, 7,27,950.

During the year under report, the scheme for the drainage of Kambar town estimated to cost Rs. 1,00,000 has been approved by the Municipality and will be submitted to the Board of Public Health Works for their administrative approval.

The following Municipalities have called for preparation of plans and estimates for improvements to their present water-supply and drainage :—

(1) Sukkur Municipality.—It is proposed to prepare a complete scheme for drainage of the whole town including Old Sukkur and Garibabad Quarters, etc., within Municipal limits. The site for the sullage farm has been proposed below the Barrage and as soon as it is definitely decided upon, the scheme will be prepared accordingly.

(2) Mirpurkhas Municipality.—The Municipality desired to improve the source of water-supply and the present system of disposal of the sullage water. The staff required for preparation of the schemes will be appointed soon.

(3) Kotri Municipality.—The plans and estimates for water-supply and drainage of the Kotri town have been prepared by the Municipality and submitted for scrutiny.

(4) Shahdadpur Municipality.—The Municipality desires to improve the present system of disposal of sullage and storm water. The staff required to prepare the scheme will be appointed soon.

(5) Ratodero Municipality.—It is proposed to improve the present system of disposal of sullage and storm water. The project will be taken in hand after inspection of the site by the Consulting Public Health Engineer to Government.

6. Problems of Public Health, Co-operation between various local authorities. Formation of Sanitary Boards.—The need for close co-operation between the various local authorities, viz., Municipal, Railway, Local Board, Public Works Department and

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the Revenue Department in problems of Sanitation and Public Health in large towns in Sind has been very keenly felt. A Sanitary Board was established at Karachi in 1932 the details of which were given in the Annual Report for the year 1938. Similar Boards have now been formed at all the district head-quarter towns.

In their Resolution, General Department, No. 452-G.B./37(VIII), dated the 26th July 1939, the Government were pleased to recognise the Sanitary Board, Karachi.

7. Personal Proceedings and Office.—The following table shows the various officers who held the appointments in the Public Health Department during the year under report : —

Appointment.	Name	Period.	Remarks.
Director of Health Services and Inspector-General of Prisons, Sind.		1st January to 31st December 1939.	
Assistant Director of Public Health, Sind.	Mr. O. M. Akbani, M.B.B.S. (Bom.), D.P.H. (London),	Do.	
Officer in-charge, Chemico Bacterio- logical Laboratory, Karachi.		Do.	Officiated in addition to his own duties.

Mr. O. M. Akbani, M.B., B.S. (Bom.), D.P.H. (London), vas confirmed as Assistant Director of Public Health, Sind, on the 1st July 1939.

The post of the Officer In-charge Chemico-Bacteriological Laboratory, Karachi, and the Chemical Examiner to Government was not permanently filled in till the end of the year.

The Director of Health Services and Inspector-General of Prisons, Sind, attended the meetings of the Executive Committees of St. John's Ambulance Association, Red Cross Society, Hiranand Leper Asylum, Countess of Dufferin's Fund, Sind Provincial Council, Sind Provincial Tuberculosis Association, and acted as Chairman of the Red Cross Child Welfare Sub-Committee. He also inspected sanitary conditions of the following towns and advised the Municipalities on public health measures :---

Mirpurkhas, Shikarpur, Dadu and Tando Adam.

The Assistant Director of Public Health, Sind, inspected the sanitary condition of 5 Municipal towns. He inspected vaccinal condition of children during the course of his tour and also inspected the sanitary condition of Police lines, Sub-jails, and Dispensaries. Suggestions for improving the sanitation of these were communicated to the authorities concerned. He inspected 6 factories, approved of site plans for the construction of school buildings and gave opinion on the analytical results of some samples of water examined at the Chemico-Bacteriological Laboratory, Karachi. He conducted a class of touring medical officers appointed on anti-malaria duty, for one week at Hyderabad and gave practical demonstrations to them. He visited Ratodero and Sukkur towns in connection with sewage pit and mosquito menace, respectively. He delivered lectures in Hygiene to the Hyderabad Medical students. He attended the meetings of the Karachi Sanitary Board and Karachi Health Association. He also visited Khadeji Hill Water Falls.

The Assistant Director of Public Health, on receipt of a report of the outbreak of cholera, immediately proceeded to the affected area and convened a conference to discuss the ways and means to meet with any emergency.

He attended the Lal Shahbaz Fair, Sehwan with a view to investigating the problem of avoiding the spread of venereal disease at such fairs in rural areas.

He was present at the inaugural ceremony of the Rural Reconstruction Centre at Butra, district Dadu.

He was a member of the Foods Inspection Committee on the occasion of the All-India Industrial Exhibition, Karachi. He was also a member of the Education Court Committee.

The Inspectors of Sanitation and Vaccination gave lectures on tuberculosis in schools, and inspected the vaccinal condition of school children. They were deputed to look after the sanitation of fair areas. During their tours, they visited 1,287 villages for inspection of vacination work and examined 22,012 children for primary vaccination and re-vaccination. They also visited villages for sanitary inspections. The Inspectors paid periodical visits to the areas selected for intensive rural reconstruction programme and attended the meetings of the Village Sudhar Committees.

Office Staff.—The office work has increased considerably and the existing staff is hardly adequate to cope with it. It is a pleasure to record that the difficulty was tided over to some extent by the great zeal with which the staff worked.

The Laboratory staff also worked satisfactorily.

N. BRIGGS, Lieut-Col., I.M.S., Director of Health Services and Inspector-General of Prisons, Sind, Karachi.

Karachi, 22nd August 1940.

APPENDIX

		Rural areas.										
		Me	dical Office	ers of Health			Vacci	nators.				
Districts.		Holding	D. P. H.	D. P. H. Licentiates L. P. H. S.		Epidemic, staff.	Sanitary and Health Ins-					
		Whole time.	Part time.	Whole time.	Part time-		pectors.	Male.	Female.			
1		2	3	4	5	6	7	8	9			
Karachi								9				
Dadu								8				
Hyderabad								11				
Nawabshah								10				
Thar Parkar								13				
Larkana				1 (Holding M.B. B.S.,			1	9	1			
Sakkur				degree.)				9				
Upper Sind Frontier								6				
Total				1			1	75	1			

Table showing Health Services in Rural and Urban

						Urban area	18.								
		Ме	dical Offic	ers of Healt	th.	par et en	Vacci	nators.			1				
School Other Medical Health Officers. staff.		Holding D. P. H.		Licentiates L. P. H. S.		Sanitary and Health Ins-	and Health	Female.	Ins- pectors of Vacci-	School Medical Officers.	Other Health staff.				
		Whole time.					Part time.	Whole time.	Part time.	pectors.	Male.	Female.	nation!		
10	11	12	13	14	15	16	17	18	19	20	21				
		3		3		8	5	2							
									~						
		1				4	1		1 (Supe- rinten- dent of Varci-	1 · (^p art time).					
						2			nation).						
···						1	,								
						1	2								
		2				8	3								
						1	1								
		6		3		25	12	2	1	1					

areas in the Province of Sind during 1939.

I.

APPENDIX I-A.

Table showing maternity and child welfare centres health visitors, mid-wives and dais in rural and urban areas in the Province of Sind during 1939.

		1	Cent	ity and res mai	Child	Welfar d by—	0						
District.			rern- ent-	Mun	l and icipal dies.		her ncies.	Trained	visitors		ined vives.	Traine	d dais.
In they		Rural,	Urban.	Rural.	Urban.	Rural.	Urban.	Rural.	Urban.	Rural.	Urban.	Rural.	Urban.
Karachi				1	6		2		4	2	8		12
Padu				5			2			2	3	5	1
Hyderabad				2	1		1					1	
Nawabshah							2				2	5	1
Thar Parkar				1	1						1	8	1
Larkana				19	1		1				3	20	
Sukkur				1		4	4		1	1	13	6	24
Upper Sind From	tier			1		1	2				2	3	
Tot	al			30	9	5	14		.5	5	32	48	43

APPENDIX II.

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

Sind, during the year 1939-40.

				Income.	ne.								Fxpenditure.	.e.		
No.	N a me of Institute.	Sale proceeds of scra vaccines, quinine and malaria posters, etc.	Contri- bution	Mis- cellane- ous,	Recovery of over payments.	Collection of fees for services rendered.	Dednet. refunds.	Total.	Pay of officers and lenve sularies, etc.	Pay of Establish- ment including menials,	Allowan- crs.	Contin- gencies.	Grant-in-aid to Local Bodies.	Other charges including cx- penditure on Medical Officers appointed on malaria, quinine, etc.	And a second	Total.
-		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
-	Director of Health Services and Assistant Director of Public Health, Sind.	1	I	:	:	ł	:	I	15,212	23,176	7,327 711(a)	} 3,359	11,533(b)	41,366	10,204 Charged. 90,799 Voted. 711 Charged.	Charged. Voted. trged.
63	Chemico-Bacteriologi c a l Laboratory, Karachi.		14,394 38,876	23,592	128	57,798	195	1,35,336	4,800	9,840	2,147	4,797	1	1	21,584 Voted.	Voted.
~	Local Vaccination Estab- lishment.		:	:	:	:	:	:	:	31,689	10,504	:	6,115(c)		48,308 Voted.	Voted.
	Total		14,394 33,876	23,592*	\$71*	67,798*	195	1,35,336*	20,042	63,705	20,689	8,156	17,618	41,366	10,915 Charged. 1,60,691 Voted.	Charged. Voted.
•	· These include amounts pertaining to Anti-Rabic charges, fees realised by	rtaining to An	nti-Rabie	charges,	fees realise		Consultin	ng Public	Health Er	ngineer and	Consulting	Surveyor	to the Gos	the Consulting Public Health Engineer and Consulting Surveyor to the Government of Suid-		

Consulting Surveyor to the Government of Sind DITE

(a) Sterling overseas pay of the Director of Health Services and Inspector-General of Prisons, Sind.

(b) Grant-in-aid to municipatities in connection with the employment of subvidised health staff, (c) Grant-in-aid to District Local Boards, Sukkur and Larkana, and municipalities in the Sukkur District on account of vaccinators.

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APPENDIX

FORM

1	2			8	18 40		4	
No.	Districts.		Populatio	n according t of 1931.	o Census	Number	of Births regi	stered.
			Male-	Female.	Total.	Male.	Female.	Total.
1	Karachi		3,28,679	2,50,753	5,79,432	10,002	8,982	18,984
2	Hyderabad		3,71,097	2,90,679	6,61,776	5,732	4,329	10,061
3	Nawabshah		2,79,032	2,17,580	4,96,613	4,431	2,959	7,390
4	Thar Parkar		2,61,945	2,06,095	4,68,040	5,443	4,224	9,667
5	Larkana		2,50,178	2,01,963	4,52,141	5,770	4,577	10,342
6	Dadu		1,87,071	1,47,211	3,34,282	3,353	2,564	5,917
7	Sukkur		3,49,312	2,74,467	6,23,779	8,356	6,678	15,034
8	Upper Sind Frontier		1,45,588	1,14,738	2,60,326	2,004	1,542	3,546
9	Town Circles		3 96,171	2,89,031	6,85,202	14,680	13,272	27,953
10	Rural Circles		17,76,731	14,14,455	31,91,186	30,411	22,583	52,991
11	Grand total of the Pro	vince.	31,72,903	17,03,486	38,76,388	45,091	35,855	80,946

Annual statement showing the Births registered

FORM NO. 1 (a). Annual statement showing still-births registered accord-

									Sti
ierial No.	Distr	ricts.		Muham	madans	Hip	dus.	Ja	ins.
				Male.	Female.	Male,	Female.	Male.	Female.
1	Karachi			120	102	159	114		
2	Hyderabad			17	13	101	67		
3	Nawabshah			4	6	12	6		
4	Thar Parkar			4	3	2	3		
5	Larkana			28	18	16	19		
6	Dadu			6	7	6	3		
7	Sukkur			12	7	106	62		
8	Upper Sind F	rontier							
	Т	otal, Si	nd	191	156	402	273		

No. I.

in the Districts of the Province of Sind during 1939.

Ratio of	Births per 1,000 cf po	pulation.	Mean Ratio	o of Births per 1,000 revious five years.	during
Male.	Female.	Total.	Male.	Female.	Total.
17.26	15.50	32.76			
8.66	R-54	15.20			
8-92	5.96	14.88			
11.63	9.02	20.65			
12.76	10.10	22.86			
10.03	7.67	17.70			
13-40	10.70	24.10			
7:69	5.93	13.62			
21.43	19-36	40.79			
9.53	7.08	16.61			
11-63	9.25	20'88			

ing to the classes and sex in the Districts of the Province of Sind during the year 1939.

Christ	tians.	Pa	arsis.	Other o	lasses.	2. F. 1	Total.		Percen- tage Ratio
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Tot∘l.	to live. births.
13	3		1	3		295	210	505	2.66
1						119	80	199	1.98
						16	12	28	0*39
-						6	5	11	0.11
						44	37	81	0.78
	***					12	10	22	0.38
						118	69	187	1.25
14	3		1	3		610	423	1,033	1.28

APPENDI

	P.	01	
1.0	-	~	

1	2	_			3	4		5		(3	1	7	
						per		opulatio sus, 1931		Bir	ths.		nber of	
	-				mile	ation	(cen	sus, 1001					Gister	1
Serial Number.	Distric	ts,			Area in square miles.	Average population square mile.	Male.	Female.	Total.	Total number-	Birth rate per 1000, of popula- tion-	Male.	Female.	Total.
	1									1				
1	Karachi		R. C.		1,615	23	18,610	16,604	35,214	479	13.60	121	117	25
2	Tatta				1,318	46	28,810	22,097	50,907	380	7.46	165	118	28
3	Mirpur Sakro				1,738	30	18,771	15,585	34,356	419	12.20	227	181	44
4	Ghorabari		,.		339	69	13,598	10,820	24,418	269	11.03	116	81	11
5	Ketibundar				213	63	7,236	6,322	13,558	186	13.72	71	59	1:
6	Mirpur Bathoro		.,		272	158	23,992	18,834	42,826	533	12-45	232	173	40
7	Sujawal				269	14	21,117	16,829	37,946	625	16-47	206	148	34
8	Jati				1,475	23	19,214	15,437	34,655	455	13.13	227	168	35
9	Shahbandar		.,		1,388	129	22,058	17,832	39,890	548	13'73	258	194	44
10	Karachi		т. с.		} 62	4,098	145,052	102,739	247,791	14,578	<i>5</i> 8·83	3,404	2,843	6,21
11	Karachi		C. C.		5 02	9,000	3,707	2,533	6,240	373	59.77	68	42	11
12	Drigh Road		.,				1,400	600	2,000	29	14.50	3	6	
13	Tatta		T. C				5,114	4,521	9,635	110	11.42	46	27	:
									1				1. 24	
	Total, Kar	achi	Distric	et	8,089	72	328,679	250,733	579,432	18,784	32.76	5,144	4,157	9,36
								1000	-			120	-	
14	Hyderabad		R. C.		366	212	43,515	34,433	79,948	656	8.42	303	200	50
15	Guni		.,		987	106	55,089	42,830	97,919	771	7.87	363	244	60
16	Tando Bago		34		650	105	38,438	29,560	67,998	531	7'66	243	151	38
17	Badin				792	113	50,169	39,111	89,280	827	9.26	363	306	68
18	Tando Allahyar		.,		595	103	28,987	22,933	51,920	826	15.91	465	296	78
19	Hala				511	233	56,552	42,948	99,500	1,263	12.63	502	370	87
20	Matli				495	94	25,678	20,960	46,633	688	14.75	321	246	57
21	Hyderabad		т. с.		1		(53, 339	42,682	96,021	4,035	42.03	1,375	1,165	2,54
22	Hyderabad		c. c.		} 18	5,334	2,770	1,760	4,530	53	11.70	16	12	2
23	Hala		т. с.				3,918	3,356	7,304	199	27.24	49	26	7
24	Matiari		,,				3,930	2,762	6,692	92	13-74	49	40	8
25	Tando Muha madkhan,	m-	•,				3,669	2,957	6,626	68	9.96	65	44	10
26	Nasarpur		,,				2,261	1,993	4,254	31	7.27	25	19	4
27	Tando Allahyar		.,				2,752	2,394	5,146	33	6.41	45	22	60
	Total, Hyderab	ad D	istrict		4,417	150	371,097	290,679	661,778	10,061	15.20	41.91	31-41	73-3

Annual statement showing the Births and Deaths registered in t

183		1.1	۴.
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4	t	u	

4						9						10	
				Deaths 1	er 1,000 o	of popula	tion fron	1			Mean r	atio of d	eaths
1		1	1	and	ry di-		other	Al	l causes.	*	per 1 previo	,000 duri ous five ye	ng tars.
Alloretar	Small-pox.	Plague.	Fevers.	Dysentery Diarrhoa.	Respiratory seases.	Injuries.	All causes.	Male.	Female.	Total.	Male.	Female.	Fota
			1-1				1000		1000		-		
•			4.18	0.03	1.36	0.03	1.16	6.20	7.05	6-76	9.72	9.87	9-8
•	0.12		2.69	0.02	1.75	0.13	0.86	5.73	5'34	5.26	6.25	6.06	6.1
			6.49	0.03	3.32	0.32	1.68	12.09	11'61	11.87	8.57	8.21	8.3
	0.45		2.83		3.32	0.24	1-23	4.75	3.32	8.07	9.85	9-42	9-6
	0.12		3.26	0.02	2.80	0.22	2.58	9.81	9.33	9.58	8.42	7.27	7.8
	0.02		5.19	0-12	2.66	0.16	1.31	9.67	9.13	9.46	10-83	10.35	10-6
			4.38	0.02	3.69	0.10	1.11	9.75	8.79	9-33	11-46	10.23	10-9
	0.12		5.03		3.81	6.38	2-02	11.81	10.80	11.40	10.21	9.33	9-9
	0.30		5.16	0.08	3.68	0.35	1.76	11.61	10.88	11.33	11.47	11.27	11-3
	0.02		0-73	2.53	10-75	0.45	10-70	23.46	27.67	25.21	23.39	27.23	24.9
			4.81	1.44	2.24	0.19	8-97	18.34	16.58	17.62	15.91	18.16	16.8
			3.20		0.20		0.20	2.14	10.00	4.20			
			1.14	0.10	3-63	0.31	2.49	9.00	6.00	7.87	13.68	11-28	12.5
	0.09		2.80	1.13	6.24	0.32	5.47	15.62	16.57	16-05	15.82	16.70	16.2
-				-	-	100.00							
	2.02		2.00	0.02	1.60	0.00	0.50						
	0.00		3-90	0.03	1.72	0.08	0.78	6.96	5.81	6-45	9.51	8-94	9.3
	0.01		3.67	0.02	0.81	0.03	0.66	6.99	5.70	6.20	7.57	7.05	7.3
••	0.28		3.84	0.16	2.09	0.21	0.59	6'32	5.11	5.80	7.33	6.22	6-8
	0.16		4.04	0.01	1.95	0.15	1.04	7-23	7.82	7.49	7.45	6.82	7.1
	0.35		11·09 5·18	0-02	2.24	0-09	1.16	16.04	12.91	14-66	14.11	11.72	13-0
	0.34		7.70	0.04	2.49	0.13	1.46	8.87 12.62	8-61	8-76 12-22	10.87	9.84	10.4
601			Prove of		7-26				11.73		11.72	10.69	11-2
	0.32		4·17 2·64	0.64	1.77	0.26	13-51	25·85 5·78	27·29 6·82	26-49 6-18	27-36	27.20	27.2
			6.02		2.05		2-19	5.78 12.41	1000	10.26	10.64	 9·23	
	0.45				3.88		2.19	12.41	7.75	13.29	13-78	9°23 18·10	9-9
	0.45		5.68		2.56	0-30	3.92	12.40	14·48 14·88	16.45	13.63	and the second	15.6
	0.01		9°06 2'82	0.70	4.23		2.59	11.05	9.23	10.34	20-79	15-55 19-66	14.4
	0.19		5.05	0.70	3.11	0.19	4.47	16.35	9.19	13-01	15-22	15.83	19·7
).02	0-19	-	5.03	0.14									

ts of the Province of Sind during the year 1939.

APPENDIX

1	:	3	3	4		5			6	-	7	
			, vi	per		opulation csus, 193		Bi	rths.	Nu	mber of registe	deaths
			mile	ation							i .	
ber.	Dis	tricts.	square miles.	Average population square mile.					e per of			
Serial number.			in se	age]		ale.			Birth rate 1 1,000 population.		ulo.	-
ierial			Area in	Aver	Male.	Female.	Total.	Total.	Birth 1,00	Male.	Femalo.	Total.
	01.1.1.1	R. C.	. 561	184	45,732	35,169	80,901	1.229	15.19	409	264	673
28 29	Shahdadpur Kandiaro		101	200	4,4231	36,583	80,814	1,284	15.89	391	338	732
30	Naushahro Fe		401	175	47,421	38,644	86,068	1,239	14:40	494	333	827
31	Moro		483	124	33,904	26,659	59,563	927	15'56	305	244	549
32	Sakrand		506	124	35,901	26,575	63,476	591	9.46	227	142	369
33	Nawabshah		967	58	28,387	20,860	49,247	807	16.39	255	179	434
34	Sinjhoro		473	161	27,351	20,853	48,204	817	16.95	305	186	491
35	Tando Adam	T. C.			7,598	5,871	13,469	276	20.49	101	109	210
36	Nawabshah	·* 11			4,336	2,687	7,023	141	20.08	110	75	185
37	Shahdadpur	,ı			8,168	3,679	8,847	79	8.13	27	16	43
	Total, Nawab	shah District	3,889	128	279,032	217,580	496,812	7,390	14.88	26.27	1,886	4,5 3
38	Umarkot	B. C.	1,459	30	22,281	17,347	39,628	599	15.12	289	183	472
39	Jamesabad	,,	505	61	17,188	13,557	30,745	807	26.22	342	241	583
40	Chachro	11	2,707	22	33,217	28,757	61,974	14.70	23.72	678	508	11.86
41	Nagar Parkar	,	1,618	26	22,384	19,342	41,726	1,359	32.57	342	243	585
42	Diplo	17	1,503	16	13,743	11,499	25,242	557	22.06	200	138	338
43	Mithi	,, `	1,562	29	24,372	21,337	45,709	1,323	28.90	462	320	782
44	Khipro	,	2,251	23	29,606	21,424	51,030	451	5*84	239	166	405
45	Sanghar	1,	818	41	20,010	13,767	33,777	524	15.21	187	117	304
46	Mirpurkhas	,,	415	115	21,268	16,093	37,358	901	24.12	386	272	658
47	Samaro	··· 10	483	91	25,229	18,550	43,779	450	10.58	234	128	360
45	Digri	,,	225	191	24,180	18,873	43,053	1,004	23.32	384	328	712
49	Umarkote				2,047	1,794 3,758	3,841	88	22.39	32	24	56
50	Mirpurkhas Total, Thar Pa				6,420 261,945		10,178	136	13·36 20·65	105	57	6,603
	Louis Liar ra	and protected									2,7:3	
51	Larkana	R. C.	217	329	39,422	31,850	71,272	1,361	19.09	448	310	758
52	Warah		. 380	148	30,701	25,396	56,097	1,417	25-26	334	299	626
53	Dokri	*** #1	326	235	42,332	34,235	78,567	1,877	24.52	536	411	917
54	Kambar	,,	473	173	39,689	32,339	72,028	1,084	15 05	335	272	607
55	Mirokhan		288	164	26,177	21,037	47,214	990	20-97	259	189	448
56	Ratodero Shahdadkot		214	214	28,152	23,612	51,764	1,337	25'83	344	253	597
57 58	Larkana		. 577	58 13,420	18,572 15,641	14,784	33,356	916	27:40	155	139	294
59	Kambar				5,500	11,200 4,217	26,841 9,717	926 218	34'50 22'43	226	213	439
60	Ratodero				3,992	3,293	7,285	218	31.57	63 50	68 59	136 109
	Total, Larka		0.00	150	250,178	201,963		10,347	22.88	2,755	22,06	4,961
			[]			1019000		-0,047		2,100	22,00	3,001

-contd.

-			-											
8							9						10	
of aths						per 1,000	of popul		m				ratio of	
mal~s every) dea-		1			a.	ry di-		other		All cause	8-		rious five	
hs of nales.	Cholera.	Small-pox.	Plague.	Fevers.	Dysentery Diarrhoa.	Respiratory senses.	Injuries.	All causes.	Male.	Female.	Total.	Vale.	Female.	Total.
51-13		0.02		6.29	0.03	0-94	0.24	0.81	9.89	7.51	8.32	10.58	11.65	12.16
6.57				7'19		0.38	0.10	1.39	8.91	9-27	9-06	10.76	11.01	10.88
18.32		0.16		7.04	0.03	0.83	0.20	1.52	10.41	8.60	9.61	10.08	9.60	9.74
25.00		0.03		7.07	0.05	0.29	0.24	1.24	9.27	9.12	9.22	10-39	9.75	10-10
9.86		0.21		4.20		0.42	0-11	0.64	6.35	5'34	5.91	7.38	6.13	6.85
12.46		0-22		7.07	0.05	0.22	0.12	0-83	8.88	8.28	8.81	9.12	8.10	8.73
33-98		0.14		7.51	0.02	0.77	0.12	1.28	10.75	8.03	10.19	12.08	11.89	12.51
92.66		3.03		2'68	0-30	3.26	0.15	5.87	13-21	18.57	15.29	15.13	16.01	15.51
46.67		0.14		15.24	0.14	2.82		7-97	25.37	27.85	26.34	9.95	11.16	10.39
38.75				2.71		1.02		1.14	5.22	4.35	4.87	7.35	10-33	8.69
39-29		0.18		6.59	0.03	0-79	0.16	1.33	9-43	8.67	9.08	10.55	10.05	10.33
57.92		0.71		6.41	0.30	3-38	0.10	1.01	12.97	10.92	11'91	12-65	11.99	12-38
1.91		0.45		9.69	0.06	6.28	0'33	2.15	19.90	17-77	18.96	13.79	12.69	13.30
13.46		0.12		13-43	0-40	3.03	0.16	1.98	20.41	17.67	19.14	13.57	11.28	12.65
0.74		0-33		8.03	0-22	2.40	0'33	2'86	15.28	12.56	14-02	13.18	12-05	12.65
4.93		0.08		6.63	0.20	3.60	0.58	2.61	14.55	12.00	13-39	15'07	13-39	14-30
0.44		0.35		10.15	0 ·20	3.94	0.18	2.32	18.96	15.00	17.11	14.97	13.57	14.30
3'98				5.22	0.04	1.62	0.08	0.95	8.07	7.75	7.94	9-32	7.37	8.20
\$9·83		0.41		5.60	0-06	1.42	0.52	1.24	9.35	8.50	9.00	10-54	10-38	10.48
41.91		0.34		9.29	0.08	4.90	0-30	2.54	18.15	16.90	17.62	12.78	10.44	11.77
5.71		0.48		4.91	0.05	1.21	0-09	1.21	9.20	6-80	8.22	10.85	9-27	10-16
7-08		0.33		10.38	0.04	3.62	0.32	1.79	15.88	17:38	16.83	14-31	12.23	13.40
33-33		0*26		5-47		6.77		2.08	11-63	13.38	14.28	20.02	21.74	20.83
4-21		2.36		3-44	0'59	5.39	0.49	3.83	16.36	15-16	15.90	16-43	15.16	15.72
2.49		0.32		8*28	0.16	3.23	0.55	1.87	14.81	13-21	14-11	12.82	11-44	12.21
4.52		0.03		8.01	0.04	0.23	0'21	1.82	11.36	9.79	10-63	11.61	10.95	11.29
4.36		0.12		9.23		0.53	0.29	1.23	10.88	11.49	11.16	10*22	11.06	10-66
0-42		0'31		9.19	0.01	0.52	0.38	2.23	12.66	12.00	12.37	11.95	11.45	11.20
3.16		0-15		6.75		0.16	0.27	1.09	8.44	8'40	8-42	10'38	10.57	10.46
7.04				7'96		0'17	0.09	1.27	9-89	8.98	9.49	11.88	12.03	11.93
5.98		0.18		9-58	0.02	0.12	0.21	1.43	12.19	10.79	11.54	15.06	15.03	15-02
1.51		0.09		7'49	0.15	0.15	0.12	0.87	8.32	9'40	8.81	11.28	11'57	11-53
6.10				6.19	0.32	3.20	0.12	6.12	14-45	19'02	16.36	19.05	22.67	20-56
0.00				9-47		1.03	0*31	3.19	12*36	16.13	14.00	14.55	17.31	1573
1.75				13.73			0.27	0.96	12.23	17.30	14.96	19.29	23.91	21.41
.89		0.12		8.32	0-01	0.42	0.24	1.80	11.01	10-92	10.97	11.72	11.95	11.86

	2	1	3	4		5	1	6	1		7		
1	2			Der	P	opulation				Num	ber of (leaths	
			iles.	i uoi		nsus, 193		Birt	hs,		egistere		
			Area in square miles.	e population 1 mile.		1	Ì		of .				
nber	Districts.		quar	pop				qui .	rate				
Inur			t in s	verage square		Female.	al.	Total number.	lith rate 1,000 population,		Female.	al.	
Serial number.			Area	ave	Male.	Fen	Total.	Tot	Birth 1,000 popul	Male.	Fen	Total.	
61	Kotri	R. C,	1,496	22	16,913	14,198	31,111	533	17.13	167	139	306	
62	Kohistan	,,	1,806	9	9,334	8,010	17,374	187	10.76	67	77	144	
63	Sehwan		1,273	35	21,939	17,352	39,291	835	21-25	284	248	532	
64	Johi	,,	755	68	28.339	23,118	51,448	676	13.14	242	234	476	
65	Dadu	,,	297	194	29,563	21,424	50,987	753	14.77	222	187	409	
66	Kakar		448	108	26,697	21,751	48,448	1,053	21.71	295	200	495	
67	Mehar	,,	364		39,753	30,734	70,487	1,458	20.68	243	220	463	
68	Kotri	т. с			6,203	3,831	10,033	150	14.95	59	48	107	
69	Sehwan	.,			3,518	2,277	5,795	64	11.04	22	16	38	
70	Dadu	,			3,428	3,134	6,562	125	12-06	44	20	64	
71	Manjhand	,,			1,394	1,352	2,746	84	30-59	33	19	62	
4 90	Total, Dadu D	istrict	6,439	51	187,071	147,211	334,262	5,917	17.70	1,678	1,418	3,096	
72	Sukkur	R. C	267	248	36,661	29,689	66,350	1,819	27.41	527	363	890	
73	Shikarpur	,,	298	147	40,421	32,908	73,419	1,385	18.86	348	306	654	
74	Rohri	,,	1,629	48	43,830	33,996	77,826	802	10.30	244	150	394	
75	Garhi Yasin		402	171	33,519	27,785	61,304	1,372	22.38	408	317	725	
76	Ghotki	,,	341	137	23,221	18,792	42,013	912	21.71	281	185	466	
77	Pano Akil	,,	393	120	26,104	21,183	47,287	1,148	24.26	260	199	459	
78	Mirpur Mathelo	,,	1,604	30	26,742	21,814	28,556	946	19-47	267	175	412	
79	Ubauro	,,	462	100	25,289	20,857	46,146	967	20.95	255	224	479	
80	Sukkur	т.с	3	23,092	43,282	25,995	69,277	2,590	37.39	521	326	847	
81	Shikarpur	· ···	9	6,745	33,744	28,761	62,505	2,179	34.86	715	654	1,369	
82	Rohri	,,			10,159	6,741	16,900	382	22.80	98	65	163	
83	Garhi Yasin	.,			3,761	3,609	7,370	258	39.07	79	65	144	
84	Ghotki	,,			2,519	2,247	4,826	244	50.56	73	84	156	
	Total, Sukkur I	District	5,608	111	349,312	271,467	623,779	15,034	24.10	4,075	3,113	7,188	
85	Jacobabad	R, C	254	157	22,272	17,590	39,862	518	12.99	148	103	251	
86	Garhi Khairo	.,	273	135	20,624	16,857	37,481	650	17 31	218	156	374	
87	Kandhkot	,,	542	119	36,229	28,296	64,525	616	9.55	171	131	302	
88	Thul	,	497	63	34,041	27,262	61,303	1,134	18.20	303	237	540	
89	Kashmor	,,	543	76	22,962	18,445	41,407	464	11-20	137	85	223	
90	Jacobabad	т.с			9,460	6,288	15,748	164	10.41	67	29	96	
	Total, Upper Sine District	d Frontier	2,109	123	145,588	114,738	260,360	3,446	13.62	1,044	741	1,785	
	Total of all Town	Circles	94	265	396,171	289,031	685,202	27,952	40-79	7,578	6,203	13,781	
	Total of all Rural	Circles	46,569	69	1,778,731	1,414,455	3,19,1186	52,904	16'61	17,816	13,182	30,908	
	Grand Total of the I	Province	46,663	83	217,290	1,703,480	3,876,388	80,946	20*88	25,391	19,385	44,77	
			-	-	1	1		1					

III - concld.

8						1)						10	
Number				I	eaths pe	r 1,000 of	populati	on from						Inthe
of deaths of males					-							per	1,000 du ious five	ring
to every 100 dea-					and	y di-		other		All cause	s . ,	prev	tous nve	years.
ths of females.	ra.	xod-	·•		tery	s.	.98.			3		-		
	Cholera	Small-pox.	Plague.	Fevers.	Dysentery Diarrhœa.	Respiratory seases.	lnjuries.	All causes.	Male.	Female.	Total	Male.	Female.	Total.
120.15		0.32		6.91	0.10	0.77		1.74	9.87	9.79	9.84	13.54	12.88	13.37
87.01		1'27		2'25	0.32	1.55	0.06	2.82	7.17	9.57	8-30	6.96	7.34	7.14
114.52		1.(2		9-57	0.02	1.38	0.18	2.37	12.93	14'29	13.54	14.35	14.52	14'43
103.42		6.33		7.49	0.04	0.28	0.18	0.65	10.38	8'01	9*25	11.28	10.86	11-25
118-72				6.69	0.06	0.34	0.18	0.74	7.51	8.72	8.02	8.96	9*65	9.00
147.50			····	8.61	0-06	0.51	0-27	1.07	11.02	9.20	10-22	11-42	10'85	11.14
110.46		0.14		5.14	0.01	0.16	0.14	0.98	6.11	7 15	6.22	9.72	10.66	10.14
122.92		0.20		5.28	0 30	2'00		2.29	9-51	12.53	10.67	10.00	10.44	10.17
137.50				1.55	0*17	2.25	0.12	2.42	6-25	7-02	6.26	7.96	10.10	8.80
220.00		0.15		5.03	0.30	1-99	0.12	2.14	12.84	6.40	9.76	7.58	7.34	7.46
113.45		0.37		15-20		2.91		4.01	23-67	21.45	22.58	17.22	13.31	15.29
118.34		0.20		6.81	0-08	0.69	- 0'16	1.32	8.97	9.63	9.29	10.37	10.21	10-30
145.18				8.50	0.11	0.72	1.27	2'81	14.37	12.23	18.41	17.98	19.63	18.73
113.73		0'03		7.15	0.01	0.08	0.08	1.36	8.61	9.27	8.91	13.26	13.73	13.47
162.67				3.81	0.02	0.37	0.35	0.28	5.22	4-41	5.10	7.75	7.50	7'63
128-71				9.33	0.03	0.43	0.60	1.43	12.17	11-41	11.82	17.42	18.46	17.89
151.87				9.15	0.03	0.31	0.13	1.39	12.10	9.84	11.09	14.46	14:31	14-40
130.62				8.05	0.03	0.58	0:40	0.92	9-96	9-39	9.70	14.25	13.60	13-96
152.57		0.02		7.25	0.02	0.42	0.92	1.22	9-98	8.02	9.10	15.22	14.86	15.02
113'84		0.02		8.20	0.11	0.55	0.30	1.12	10.08	10.74	10.38	15.66	15.68	15.67
159.82				1.21	2*85	3.68	0.49	3.21	12.03	12.54	12-24	12:57	15.34	13.61
109.33				8.20	0-27	2.07	0.66	9-80	21.18	22.73	21.90	23.47	25.28	24.30
150.77				4.56	0.62	2.18	0.42	3.08	9.64	9.64	9-64	11.22	13.62	12-18
121.54			•••	10.42	0.14	1.49	1.49	5.97	21.00	18.00	19.54	24.19	25.49	24.83
85'72		0.21		21.13	3.31	4.77	0.21	2.69	27.91	37.38	32-32	31.02	41.39	35.85
130.90		0.01		7.00	0.13	1.06	0.46	2.26	11.66	11.34	11.22	13.81	14.52	14.15
133.98				5.33	0.03	0.12	0.18	0.73	6*65	5.86	6-31	7.99	7.16	7.63
139.75				8.19	0.03	0.43	0.58	1.04	10.57	9 - 25	9.98	8-15	9.25	8.61
180.54				3.95		6-06	0.11	0.26	4.72	4.63	4.68	7.20	6.56	6.78
127.85		0.03		7.63	0.05	0.08	0.13	0-91	8.90	8.70	8.80	9.11	9.46	9.32
161.18				4.44	0.03	0.14	0-10	0.62	5.96	4.00	5*36	8.36	7.64	8.04
231.04				4.19	0.25	0.52	0.18	0.95	7.08	4.91	6.10	7.61	9.22	8.75
140.89		0.01		5.71	0.03	0.18	0.16	0.77	7.17	6.54	6:86	8.13	7.98	8.06
122.17		0.19		3.66	1.43	6:31	0.42	8.11	19.13	21.16	20.11	19.69	22.12	20.73
135.16	·001	14		6.73	80.0	2.19	0-21	2:40	10.03	9:32	9.72	10.78	10.24	10.53
131.00	'0008	.15		6.18	-30	2.18	•25	2:49	11.69	11.38	11.22	12.40	12.26	12-34

FORM

D	istricts a	nd Towns.			January.	February.	March.	April.	May.
ADist	RICTS (EX	CLUDING	TOWN	s).					
Karachi					 466	346	281	194	171
Hyderabad					 817	656	527	364	373
Nawabshah					 510	491	373	346	365
Thar Parkar					 687	804	809	723	487
Larkana					 470	403	379	266	240
Dadu					 355	259	231	244	267
Sukkur					 616	426	406	295	266
Upper Sind Fro	ntier				 203	140	150	109	128
		Total fo	or Dist	tricts	 3,854	3,528	3,156	2,541	2,297
	Ratio pe	r milleof	popula	ation	 1.21	1.11	-99	.80	-72
	D	OWNS.							
		District.			FILE				
Karachi				т. с.	678	514	540	497	100
Karachi				C. C.	15	10	15		490
								5	5
Drigh Road				" т. с.	 			1	1
Tatta					 •	7	11	4	4
1	Iyderaba	d District						•	
Hyderabad				T. C.	278	196	188	208	210
Hyderabad				C. J.	2	5	6		4
Hala			•••	т. с.	5	6	6	4	12
Matiari				"	 13	18	4	13	13
Tando Muhamr				39	 7	7	5	23	15
Nasarpar					 10	7	2	5	4
Tando Allahyar				"	 14	3	3	7	9
1	Nawabsha	h Distric	<i>t</i> .						
Nawabshah				т. с.	 19	19	16	15	11
Tando Adam				"	 25	14	18	20	16
Shahdadpur				"	 7	5	1	2	3
T	har Park	a r Distric	t.						
Mirpurkhas				т. с.	 24	13	17	31	18
					 11	7	1	8	. 3
Umarkot		District.							
	Lagrana					223	1000		
	Larkana			T. C.	 41	31	90	08	40
				T.C.	 41 20	31 12	89 8	25 8	42 13

Annual deaths registered in the districts (rural circles) and in the

III.

No. III

towns of the Province of Sind during each month of the year 1939.

June.	July.	August.	September,	October,	November.	December.	Total death registered during the year.
160	169	148	192	201	252	292	2,863
246	252	195	218	235	366	427	4,376
245	208	255	220	279	361	389 .	4,075
398	310	251	373	430	518	595	6,380
258	268	280	316	441	507	449	4,273
184	221	183	169	230	233	249	2,820
261	277	339	253	379	473	519	4,500
124	111	108	97	145	208	166	1,689
1,876	1,816	1,759	1,827	2,340	2,918	3,086	30,998
•59	-57	•55	-57	-73	-91	-97	9*72
481	470	488	459	478	642	607	6,243
13	12	5	8	3	10	9	110
1	2	3		1			1
8	3	3	5	6	9	5	75
-	100	100		170	278		
176	180	192	163 2	179	2/8	296	2,544
1	2	2 5	4	5	5	1	28
5	4	3		3	8	19	78
5	7	9	2	4	11	15	104
4	2	3		14	4	15	44
6	9	4	4	1	3	5	62
0							
10	13	9	13	16	9	35	183
24	18	14	7	11	14	29	210
3	5	3	2	4	5	3	- 43
18	6	6	5	11	8	5	162
2	1	3	2	2	8	8	56
30	30	25	17	38	54	67	. 439
11	8	4	4	10	13	25	136
9	11	8	8	7	8	17	109

L (IV) 2015-11

FORM

	District	and Town	я.		January.	February.	March.	April.	May,
-	BTow	NB.—con	tđ.						
	Dadu	District.							
Kotri				т. с	8	7	2	10	12
Dadu				,,	4	10	7	1	3
Sehwan				,,	7	4	6	5	:
Manjhand				» ····	7	5	10	13	
	Sukkus	District					-		
Sukkur			•	т. с	91	84	69	63	8
Shikarpur				,,	159	108	92	82	10
Rohri				,	22	22	14	11	1
Garhi Yasin				,,	28	6	4	4	1
Ghotki				,,	16	11	9	11	1
Then		rontier I	Vistaliat						
Jacobabad	r Sing P	romier L		т. с	14	8	4	10	
ACCOUNTRA									
		То	tal for t	owns	1,543	1,144	1,109	1,091	1,128
	Ratio	per mile c	of popul	ation	2-35	1.67	1.62	1.59	1.63
		Total for	the pro	vince	5,397	4,672	4,265	3,632	3,425
	Ratio	per mile o	of popul	ation	1.39	1.21	1.10	-94	*88

III—contd.

No. III -concld.

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June.	July.	August.	September.	October.	November,	December.	Total death registered during the year.
-		13			1	The second second	1
1.5							
11	5	7	6	12	10	17	107
6	7	4	6	1	6	10	64
. 4	1			2	3	3	38
3	8	3	- 1	1	4	3	62
100			2				- bedreven
63	59	70	63	72	63	64	847
101	101	75	80	78	179	212	1,369
8	13	. 8	12	9	17	15	163
8	13	17	4	9	22	16	144
12	7	14	9	16	26	16	156
							the states of
5	7	5	14	6	8	11	96
1,033	1,009	992	900	990	1,328	1,514	13,751
1.21	1.42	1'45	1*31	1.44	1'94	2*21	20.11
2,919	2,815	2,751	2,727	3,330	4,246	4,600	44,779
•75	.72	-71	.70	.86	1.10	1.10	11.22

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FORM

Annual deaths registered according to age in the districts (rural circles)

						Under	one year	r.		_
					No	t exceeding	one mont	th.		
District	s and T	owns.			Male.			Female.		Total.
				Under one week.	Over one week,	Total.	Under one week.	Over one week.	Total.	
A-DISTRIC	TS (EX	CLUDIN	G							
Karachi				69	62	131	48	39	87	218
Hyderabad				55	68	123	44	56	100	223
Nawabshah				87	88	175	58	43	101	276
Thar Parkar				108	68	176	94	60	154	330
Larkana				93	95	188	64	59	123	311
Dadu				48	34	82	46	41	87	16
Sukkur				103	119	222	69	62	131	353
Upper Sind Front				12	27	39	14	25	39	71
Total Districts				575	561	1,136	437	385	822	1,95
	TOWN									
	hi Dist									
Karachi			. c	250	173	423	185	129	314	73
Karachi			. c	7	6	13	1		1	1
Drigh Road							1		1	1
Tatta			. c	1		1	1		1	:
Hydera	bad Di	strict.								
Hyderabad			. c	83	62	145	71	63	134	279
Hyderabad			. c	- r1		1				. 1
Hala			. C	4	7	11		1	1	15
Matiari				1	1	2				2
Tando Muhamma			,,	3	1	3	2		2	1
Tando Allahyar			·, ···		1	1				1
Nasarpur			,,			1	1	1	2	2
Nawabi				-						
Nawabshah			. c	10	7	17	8	7	15	32
Tando Adam				1	3	4	1	7	8	15
Shahdadpur			•• •••	1	1	2				2
Thar Pa			·, ···							
Mirpurkhas			. c	1	1	2		4	4	6
Umarkot		1		1	1	3				2
	na Dis									
Larkana			. c	4	17	21	4	14	18	39
Kambar			1	2	5	7	5	1	6	13
as to the to the				-			-			

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III. —contd.

No. IV.

and towns of the Province of Sind during the year 1939.

		_		Under on	e year-c	ontd.			1	
Over exce	one monthar eding ⊳ix mo	nd not enths.	Over exceedi	six months a ng twe.ve m	nd not onths,		Total.			d under five ars.
Male.	Female,	Total.	Male.	Female.	Total.	Male.	Female	Total.	Male.	Female
									-	
95	77	172	46	43	88	272	206	478	201	16
122	95	217	60	37	97	305	232	537	271	27:
108	80	188	48	40	88	331	221	552	321	22
177	134	311	79	57	136	432	345	777	415	32
163	108	271	71	87	158	423	318	740	391	356
96	91	187	38	34	72	216	212	428	243	213
211	164	375	82	89	171	515	384	899	372	34
60	49	109	50	29	79	149	117	256	204	16:
1,032	798	1,830	474	415	889	2,642	2,085	4,677	2,418	2,060
									-	
11								-	-	
360	336	696	293	242	535	1,076	892	1,968	617	553
8	3	11	2	6	8	23	10	33	6	1
1		1				L	1	2	1	1
3	3	6	3	3	6	7	7	14	7	1
-										
108	97	205	122	130	252	375	361	736	176	165
	1	1				1	1	2	3	1
3	6	9	2		2	16	7	23	10	
3	1	4	2	1	3	7	2	9	6	10
4	5	9	2	1	3	9	8	17	19	11
3		3	1	2	3	5	2	7	5	
1	1	2				2	3	5	2	1
						1.34				
8	10	18	8	7	15	33	32	65	29	21
8	10	18	6	7	13	18	25	43	17	16
						2		2	8	
					-			10		
4	3	7	3	1	4	9	8	17	14	7
2	1	3	1		1	5	1	6	1	6
21	13	34	11	14	25	53	45	98	33	41
6	4	10	6	6	12	19	16	35	7	91
		1.				18	223	10 301		
5	5	10	8	2	10	10	7	25	6	- 10

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Form

						Under	r one year			
					Not	exceeding c	ne month	ı .		
Di	stricts and	Towns.			Male.			Female.	2	Totai.
			Anara	Under one week.	Over one week.	Total.	Under one week.	Over one week.	Total.	
в_	TOWNS-	contd.								
	Dadu Dist	rict.								
Kotri			т.с	4	3	7	5	2	7	14
Dadu				3	1	4	1	1	2	6
Sehwan			,,				1		1	1
Manjhand	•••		.,	1		1				1
S	ukkur Dist	rict.		1						
Sukkur			T. C	8	18	26	10	8	18	44
Shikarpur			.,	38	20	58	21	22	43	101
Rohri			.,	1	3	4	1]	1	5
Garhi Yasin			.,	6	4	10	4	2	6	16
Ghotki				5	8	13	10	15	15	28
Upper S	Sind Fronti	er Dist	rict.							
Jacobabad			т. с	1	1	2				2
	To	tal for t	owns	575	561	1,136	437	385	822	1,958
	Total for	the pro	vince	1,014	908	1,922	770	652	1,422	3344,
Ratio	per mille	of popul	ation							

III—contd.

No. IV-contd.

				-	ontd.	one year-co	Under		-	
nd under e years.	One an five		Total.		id not onths.	x months an ng twelve m	Over si exceedi	nd not nths.	one morth ar eding six mo	Over exce
Female.	Male.	Total.	Female.	Male.	Total.	Female.	Male.	Total.	Female.	Male.
-			1							
	12	30	14	16	4	3	1	12	4	8
	3	10	2	8	2		2	2		2
	3	4	2	2	1		1	2	1	1
1	8	7	3	4	2	2		4	1	3
5	69	195	80	115	65	30	35	86	32	54
7	86	392	190	202	110	58	52	181	89	92
1	4	23	8	15	8	3	5	10	4	6
1	9	42	16	26	9	6	3	17	4	13
1	8	65	31	34	14	7	7	23	9	14
	4	8	3	5	3	1	2	3	2	1
2,06	2,418	4,677	2,035	?,642	889	415	474	1,830	798	1,032
3,12	3,591	8,560	3,812	4,748	1,999	957	1,052	3,217	1,443	1,774
13.1	14.45	105.75	106-32	105.30						

FORM

				and under years	Ten and und	er 15 years.	15 and und	er 20 years
Districts	and Towns.							
			Male.	Female.	Male.	Female.	Male.	Female.
A-DISTRICT TOWNS	S (EXCLU)	DING			•			
Karachi			92	63	50	45	50	6
Hyderabad			164	131	90	79	84	6
Nawabshah			157	129	103	78	87	7
Thar Parkar			219	167	174	120	173	12
Larkana			175	139	115	84	85	6
Dadu			116	108	60	50	43	6
Sakkur			137	110	94	64	76	7
Upper Sind Frontie	·		84	66	43	42	31	3
		Total	1,144	913	729	562	6:8	55
B-TOWN	S-could.							
Karachi	District.							
Karachi		T.C	85	91	68	62	78	11
Karachi		C. C	1	2	3	2	1	
Drigh Road		,,		1				
Tatta		т.с.	1				3	
Hyderaba	d District.							
Hyderabad .		T. C	41	46	24	31	45	5
Hyderabad		c. c			2		1	
Hala		т. с			1		1	
Matiari			1	3	3	2	2	
Tando Muhammadk	han		3	2	1	4	1	
Nasarpur			2		1	1		
Tando Allahyar				1		1		
Nawabsha	h District.							
Nawabshah			3	4	3	1	5	1
Tando Adam			10	5	4	7	5	11
Shahdadpur		,,	2	1	1	2		
Thar Park								1
Mirpurkhas '		T. C	10	9	2	5	3	
Umarkot		,,	2	1	1		2	
	Distirct.						-	
Larkana		т. с	6	9 1	5	3	8	14
Kambar			6	10	3	2	1	19
Ratodero				5		-	-	a

III-contd.

No. IV-contd.

	d under years.		d under years,	40 and 50 y	under ears.		l under vears.		ars and vards,		es not lown.		'otal ages.)
Male.	Female.	Male,	Female.	Male,	Female.	Male.	Female.	Male,	Female.	Male.	Female.	Male.	Female
180			100					074				1,623	
287	163 248	190	188	173	119	141	88	274 463	140 237			2,563	1,239
249	248	325	254	338	172	236 236	89	404	237			2,389	1,613
399	348	250 410	331	251	137	390	174	715	454	•••		3,743	2,642
201	227	212	183	416 201	143	200	113	409	238			2,4)1	1,866
136	1 170	135	152	139	90	154	71	279	178			1,520	1,305
200	224	208	209	213	134	215	120	530	253			2,590	1,919
75	74	86	71	74	35	60	29	171	85		•••	977	712
1,727	1,702	1,816	1,641	1,835	1,085	1,632	803	3,245	1,813			17,816	13,182
.,,				1,000	1,000	1,00%							
													1-ACAM
242	315	265	209	275	126	281	93	467	385			3,404	2,843
3	4	8	3	4	1	5	1	14	10			68	42
	1	1										3	6
5	1	3	1	5	5	6		9	8			46	27
													College of
141	109	123	68	135	71	134	167	186	190			1,379	1,165
2	3		1	2	2		3	5				16	12
4	3	2	1	2	4	2	1	11	3			49	26
3	7	7	2	3	3	3		14	9			49	40
7	5	8	2	6	2	s 1	4	10	6			65	44
3	4	6	3	12	4	4	1	7	6			45	22
2	1	2	2	7	1	3	3	7	4			25	19
6	4	5	3	8	2	11	2	7	5			110	75
2	12	2	5	16	4	14	8	13	16			101	109
1	3	5	2	5	1	2	1	1	8			27	16
22	9	12	4	6	3	16	1	11	8			105	57
8	6	2	4	5	3	3	2	3	1			32	24
												90.0	213
13	27	21	18	36	16	19	11	32	29			226 68	68
2	5	4	8	7	4	9	3	15 9	10 13			08	59

L (IV) 2015-12

FORM

				Five at ten	nđ ui year		Ten and und	ler 15	years,	15 and und	er 20 3	ears,
Distric	ts and Tor	wns.			22000	15	-					
				 Male.	Fe	male.	Male.	Fer	nale.	Male.	Fen	nale.
в.—то	WNS-co	ncld.	-			1.01	-			91		-
Da	lu Distric	1.				-	-					
Kotri			т. с.	 	11	3	2			1		
Dadu			,,	 1	111	3	2		3	2		
Sehwan				 		1		-		1	-	
Manjhand			,,	 3	121	4	1			1		
					1			-				
Sukkur	kur Distri			19	101	14	16	25/10,1	21	22	12.1	
Sukkur Shikarpur			т. с.	21		10	10		21	30		3
Sohri		• •••	32	 7		12		-	4			·
Garhi Yasin			"	 3	10	2		122	1		-	
Ghotki			"	 5		3	2	6	2	1		
anotat			"			5			-			
Upper Sind	Frontier	Distr	ict.				1		1	A.		
acobabad			т. с.	 1			2		2	2		1
	Tota	l for t	owns	 1,144	141	\$13	729		562	628		55
								-				
1	otal for th	ne prov	vince	 1,376		1,146	893		739	845		84
					-			-				-
Ratio pe	r mille of	populs	ation	 4.81		5.14	3.62	2	4.26	4:47		5.73

III-contd.

No. IV -concld.

'otal ages),		es not own.		rs and ards,	60 yea upw	under years.	50 and 60 ;	under ears.		d under years.		d under years.	
Fema	Male.	Female,	Male.	Female.	Male.	Female.	Male.	Female,	Male,	Female.	Male.	Female.	Inle,
		- Mare				14							
	59	1		12	9	2	6	3	5	5	3	4	5
	44			4	13		8	1	3		3	4	1
	22			2	3	1	4	2	4	1	5	4	
	33			3	11	2	1			3	3	2	1
	1.3	Races									1 20		
3	\$21			58	83	11	48	15	57	29	52	32	40
6	715			142	150	14	61	31	68	43	43	86	41
	98			16	21	4	23	+	11	9	12	6	5
	79			6	14	4	4	2	5	3	10	11	6
	72			6	6	5	9	4	3	6	4	9	
1			-	-			and in		Mag.		- Paly	1	
	67			6	22	2	11	2	9	4	5	8	6
13,1	17,816			1,813	8,245	803	1,632	1,085	1,835	1,644	1.816	1,702	1.727
19,3	25,394			2,777	4,398	1,051	2,271	1,404	2,538	2,092	2,435	2,395	2,299
113	11.69			49.25	64.93	13.38	21-76	9.48	12.13	8:47	7.00	6-94	5.38

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APPENDIX Annual Form

Deaths registered according to classes and sex in

1	Contraction of the Contraction o	2						
		~						NUMBER OF
No.	-	Districts.			Muhamn	nadans.	Hind	lus.
					Male.	Female.	Male.	Female.
1	Karachi				3,225	2,523	1,802	1,550
2	Hyderabad				2,586	1,759	1,601	1,380
3	Nawabshah				1,920	1,319	704	565
4	Thar Parkar		L		2,124	1,520	1,749	1,197
5	Larkana				2,152	1.686	602	520
6	Dadu				1,331	1,086	346	332
7	Sukkur				2,290	1,715	1,779	1,394
8	Upper Sind I	Frontier			909	631	135	110
		Total for the	Province		16,537	12,239	8,718	7,048
1		2		1				
							RATI	O OF DEATH
No.		Districts.			Muhamn	nadans.	Hine	dus.
23		- 40	nine -		Male,	Female.	Male.	Female.
								Female.
1	Karachi				13.23	13.77	20-21	25-45
1	Karachi Hyderahad				13·53 9·95		20°21 14°65	
						13.77		25-45
2	Hyderabad				9*95	13.77 8.74	14-65	25-45 15-54
2 3	Hyderahad Nawabshah				9*95 8*97	13.77 8.74 8.04	14:65 11:10	25-45 15-54 10-76
2 3 4	Hyderahad Nawabshah Thar Parkar		 		9*95 8*97 15*35	13:77 8:74 8:04 14:12	14°65 11°10 14°37	25-45 15-54 10-76 12-32
2 3 4 5	Hyderahad Nawabshah Thar Parkar Larkana				9*95 8*97 15*35 10*51	13.77 8.74 8.04 14.12 10.22	14.65 11.10 14.37 13.22	25-45 15-54 10-76 12-32 14-13
2 3 4 5 6	Hyderahad Nawabsbah Thar Parkar Larkana Dadu				9*95 8*97 15*35 10*51 8*40	13.77 8.74 8.04 14.12 10.22 8.76	14.65 11.10 14.37 13.22 12.21	25-45 15-54 10-76 12-32 14-13 14-43

III-contd.

No. V.

the Province of Sind during the year 1939.

3

DEATHS REGISTERED

1	ains.	Chri	stians.	Pa	arsis.	Other	Classes,		Total.	
Male.	Female.	Male.	Female.	Male,	Female.	Male.	Female.	Male.	Female.	Total.
		85	59	20	17	12	8	5,144	4,157	9,301
1		3	1				1	4,191	3,141	7,332
		1	1			2	1	2,627	1,886	4,513
						7	6	3,880	2,723	6,603
						1		2,755	2.206	4,961
		1						1,678	1,418	3,096
		2	1		1	4	2	4,075	3,113	7,188
								1,044	741	1,785
1		92	62	20	18	26	18	25,394	19,385	44,779

PER 1,000 OF POPULATION.

Jai	ins.	Chr	istians.	P	arsis.	Other	Classes.		Total.	
Male	Female,	Male.	Female.	Male.	Female.	Male.	Female.	Male,	Female,	Total
		14.97	13.76	11.41	10.64	16.82	13-16	15-65	16.22	16*52
23		9.55	4-29				1.12	11-29	10*80	11-00
		13-33	1 8 •18			1.12	0.86	9.41	8.66	9.00
						4.23	5.19	18.41	13-21	14.1
]					2.55		11.00	10.92	10.9
		5.00						8•96	9~63	9-2
		4.16	2.88		18.86	1.23	1.02	11.66	11.34	11.5
								7.17	6-45	6-8
1.58		13.29	12.11	10.71	10.79	2.81	2.93	11.68	11:37	11.5

93

ANNUAL FORM

Deaths registered from different causes and Births in the Districts

1			2		3		4		
							Birt	hs,	
No-	Trent.	Districts	s and To	wns.	Population according to census of 1931.	Male.	Female.	Total.	Birth rate.
1					 	-		1	1
		AD	ISTRIC:	rs.	-			100	
1	Karachi				 3,13,766	2,283	1,611	3,894	12.41
2	Hyderabad			-	 5,31,203	3,329	2,223	5,552	10.45
3	Nawabshah				 4,67,273	4,146	2,748	6,894	14.75
4	Thar Parka	r			 4,54,021	5,319	4,126	9,445	20*80
.5	Larkana				 4,08,298	5,009	3,973	8,982	22.00
6	Dadu				 3,09,146	3,109	2,385	5,491	17-78
7	Sukkur				 4,62,901	5,313	4,038	9,351	20.20
8	Upper Sind	Fronti	er		 2,44,578	1,903	1,479	3,382	13.83
	Total of the	Distric	ots (exclu	iding towns)	 3,191,186	30,411	22,583	52,994	16-61
	Junior	B.—7	rowns	-					
		KARACI	HI DISTR	ICT.					
9	Karachi			T. G.	 2,47,791	7,422	7,156	14,578	58.83
10	Karachi			c.c.	 6,240	212	161	373	59.77
11	Drigh Road			C. C.	 2,000	17	12	29	14.50
12	Tatta			T. C.	 9,635	68	42	110	11.42
	11.41								
	1223	Hyder	BAD DIS	TRICT.					
13	Hyderabad			т.с.	 96,021	2,128	1,907	4,035	42.03
14	Hyderabad			c.c.	 4,530	24	29	53	11-70

III—contd.

No. VI.

and Towns of the Province of Sind during the year 1939.

5	6	7	8	9	10	11 Injur	
Cholera.	Small-po	x. Plague.	Fevers.	Dysentery and Diarrhœa.	Respiratory Diseases,	Suid	
					.grojuralo	Male.	Femal.
Dials 4	-	1- 1	12 %			. 1/m	1
	38		1,395	14	903		
3	84		2,735	27	975		
	48		3,108	10	314	3	
	140		3,818	72	1,432	1	
	56		3,401	9	101	1	
-	60	-	2,135	19	173	3	1
	•		8,451	22	182	5	
		·	1,422	4	37	1	
3	434		21,465	177	4,117	14	1
	and His	-	1	1 de			
eu., /	11		179	628	2,664	3	1
> '			30	9	14	· · · · ·	
···· ··			7		1	13	
			11	1	35	 Rhep	
				. 21			11 11
	34		401	61	697	1 2	1
a			12		8	:1	earar
			44		15		

1		2				11			12	13
	Constant in				6 brill	INJURIES	-contd.	drilo	alsys of	Bad
No.	Dist	ricts and T	'owns.		Wound- ing or Accident.	Snake- bite, or killed by wild beasts.	Rabies.	Total.	All other causes	Total deaths from all causes.
.Int	Α	-DISTRIC	TS.							
1	Karachi				40	26		66	448	2,862
2	Hyderabad				29	25		54	498	4,376
3	Nawabshah				58	15	3	79	516	4,075
4	Thar Parkar				53	43		97	826	6,385
5	Larkana				53	40	4	98	612	4,277
6	Dadu				23	23	1	51	387	2,825
7	Sukkur				163	21	6	195	653	4,509
8	Upper Sind F	rontier	•• ==		32	4		37	187	1,689
-	Total of the I	Districts (ex	cluding tow	/n)	451	197	14	677	4,125	30,998
:	I	3.—TOWN	s.		1.00					
	Kar	ACHI DISTR	RICT.							
9	Karachi		т.с.		103	4	2	113	2,651	6,247
10	Karachi	1963	c.c.		1			1	56	110
11	Drigh Road		C.C.						1	9
12	Tatta		T.C.		2			2	24	73
-	Hype	RABAD DIS	TRICT.		11					
13	Hyderabad		т.с,		46	5		54	1,297	2,544
14	Hyderabad		c. c.					***	8	28
15	Hala		т.с.						16	75

No. VI.-contd.

RATIO OF DEATHS PER 1,000 POPULATION.

									From al	Causes.
Cho	olera.	Small- pox.	Plague.	Fevers.	Dysentery and Diarrhœa.	Respira- tory Diseases.	Injuries	All other causes.	For the year.	Mean of previous five years.
								ener-		
		0.13		4.44	0.02	2.87	0.21	1.43	9.12	9.44
11.7	·006	0.10		5.15	0.02	1*84	0.10	0.93	6.24	9-02
		0.10		6-65	0.05	0*67	0.12	1.10	8.71	10-21
		0.31		8-41	0.19	3.16	0.21	1.82	14.07	11-62
		0.14		8.33	0*03	0.25	0*24	1.49	10.48	11.26
		0-20		6.90	U.06	0.26	0.12	1.25	9.14	10.38
		0.01		7.45	0.02	0:40	0'42	1.41	9.74	12.65
		0.01		5.81	0.05	0.12	0.12	0.76	6.90	8.05
1	·001	•14		6.73	•06	1-29	•21	1-29	9.72	10.23
10-11	-	15	1							
			62			.7 .01			inter	12
		0.02		0.73	2.23	10.75	0.45	10.70	35.21	24-98
02:00		***		4-81	1.44	2.24	0.10	8.97	17.62	16.83
				3.20		0.20		0.20	4.20	
				1.14	0'10	3.63	0.51	2.49	7.57	12.55
		4	1		-	Pire				
		0*35		4.12	0.64	7.26	0.26	13.22	26-49	27.28
				2.64	··· ··	1.77		1-77	6-18	
	**			6.05		2.05		3.19	10.26	9.99

1

L (IV) 2015-13

1	2				3			4		
								Birth	18.	
No.	Districts and	l Town	5.	toc	ilation ensus 1931.	Ма	le.	Female.	Total.	Birth rate.
	BTOWNS	5.—con	18.							
	Hyderabad Dist	RICT	contd.							00
16	Matiari		т. с.	 -	6,692	2.2	61	28	92	13.74
17	Tando Muhammadkhan	ı	т. с.	 -	6,626	in the	39	27	66	9.86
18	Nasarpur		т. с	-	4,254	13-1	17	14	31	7*27
19	Tando Allahyar		т.с	1000	5,146		21	12	33	6.41
	Nawabshah I	DISTRI	ст.	-				1. 1. 1. 1.		
20	Nawabshah		т. с.	 	7,023	101	79	62	141	20.08
21	Tando Adam		т. с.		13,469		158	118	2 76	20.49
23	Shahdadpur		T. C.	 1	8,847		48	31	79	8-93
	THAR PARKAR	DISTR	ист.	-						
23	Mirpurkhas		т. с.		10,178		77	59	136	13-36
24	Umarkot		т. с.		3,841		47	39	86	22.39
	LARKANA D	ISTRICT	r.	115		100		0078		
25	Larkana		т.с.	 	26,841		527	399	926	34.50
26	Kambar .		T. C.		9,717	1	1!2	106	216	22-43
27	Ratodero		T. C.	 nis.	7,285	1	122	99	221	3 1-57
	DADU DIS	TRICT.								
28	Dadu		т. с.		6,582		66	59	125	19.06
29	Kotri		T. C.		10,033		94	56	150	14-95
30	Sehwan		T. C.		5,795		37	27	64	11.04
31	Manjhand		T. C.		2,746		47	37	84	30.29

No. VI -contd.

5	6	7	8	9	10	1 Injur	1 188.
Cholera.	Small-pox	. Plague.	Fevers	Dysentery and Diarrhoea.	Respiratory Diseases.	Suid	ide.
				Diate nota.		Male.	Female.
						of us	
	-				NOT . THE		
	3		38		26		
	6		60		17		
			12	3	18		
	1		26		16		
			01		-		
	1		107	1	20		
	41		36	4	48		
			24		9		
	-			1		1500	nik
	24		35	4	55		
	1		21		26		•13
	-	-	1 - S	1. 200	1972		and The
			166	10	94		
			93		10		
			100				
	1. 19		1				
	1		:3	2	13		
	1	5	56	3			
			9	1	13		
	1	1	42		8		

		2			12			13	14
					INJURIES	-contd.			
No.	District	tand Towns.		Wound- ing or Accident,	Snake bite, or killed by wild beasts.	Rabies.	Total.	All other causes.	Total deaths from all causes,
	в.—то	WNScontd.							
	Hyderabad	DISTRICTcon	icld.						
16	Matiari .	т.	. C	2			2	20	89
17	Tando Muhamma	dkhan T.	C					26	109
18	Nasarpur	т.	c					11	44
19	Tando Allahyar	т.	с	1			1	23	67
	Nawabsi	HAH DISTRICT.							
20	Nawabshah	т,	с					56	185
21	Tando Adam	т.	c	2			2	79	210
22	Shahdadpur	т.	c					10	43
	THAR PAI	REAR DISTRICT		-					
23	Mirpurkhas	т.	c	4	1		5	39	162
25	Umarkot	т.	c					8	56
		A DISTRICT.	-	-					
25	Larkana	т.	c	4			4	165	439
26	Kambar			3			3	31	136
27	Ratodero			1		1	2	7	109
-		DISTRICT.	··				-		100
28	Dadu	T.		1	•••		1	14	64
29	Kotri	Т.						23	107
30	Sehwan	Т.	c	1			1	14	38
31	Manjhand	т.	c					11	62

No. VI.-contd

		DN.	OPULATIO		EATHS PER	TIO OF E	RA		
all Causes.	From a				and talk of the				
Mean of previous five years.	For the year.	All other causes.	Injuries	Respira- tory Diseases.	Dysentery and Diarrhoea.	Fevers.	Plague.	Small- pox.	Cholera.
		2HWC	Jaiman						
		anet av	-						
15.61	13-29	3.98	0.30	8.88		5.68		0'45	
14.48	16.45	3.92	- 15 a	2.26	er in	9.06	•	0.91	
19.74	10.34	2.59		4.23	0.70	2.82			····
15-35	13.01	4.47	0.19	3.11		5.02		0.15	5
						-	-	445	
10.39	26:34	7-97		2.85	0.14	15:24		0.14	
15.51	15-59	5.87	0.12	3.26	0.30	2.68		3.03	
8.69	4.87	1.14		1.02		2.71			·
		in the second					ing and	1200,00 H	
15.72	15.90	3-83	0.49	5:39	0.39	3.44		2.36	
20.83	14.28	2*08		6.77		5.47		0*26	
1									
20.56	16.36	6.15	0.12	8.20	0'57	6.19			
15.73	14.00	3.19	0.31	1.03	/	9.12			
21.41	14.96	0-96	0.27			13.73			
7.46	9.76	2.14	0.12	1.99	0.30	6*03		0.12	
10.12	10.62	3.29		2'00	0.30	5.58		0.20	
8.80	6-56	2.42	0.17	2.25	0.17	1.55			
15.29	22 58	4.01		2.91		15.29		0.37	
	9 *7 6 10*67 6*56	2·14 2·29 2·42	0·15 0·17	1.99 2.00 2.25	0·30 0·30 0·17	6103 5158 1185		0.15 0.20	

15

1		2		3		Birt	hs,	
ło.	mesid	ricts and T	'owns.	Population accordin to census of 1931.	Male.	Femsle.	Total.	Birth- rate,
	в.—7	rowns	-contd.					
	Sur	KUR DIST	RICT.					
32	Sukkur		т.с	69,277	1,393	1,197	2,590	37.39
33:8	Shikarpur		T. C	62,505	1,173	1,006	2,179	34-86
34	Rohri		т. с.	16,900	208	174	382	22.60
35	Garhi Yasin		T. C	7,370	147	143	288	39.07
36	Ghotki		T.C	4,826	122	122	344	50.26
25	UPPER SIN	D FRONTIE	R DISTRICT.					
37(8	Jacobabad		т.с	15,748	101	63	164	10.41
	90 - 7800							
		Т	tal of Towns	6,85,202	14,680	13,272	27,952	40.79
	an in the			-			100	
30	NE. SPACE	Tota	al of Province	38,76,388	45,091	35,885	80,946	20*88

No. VI.-contd.

5		6	7	8	9	10	11 Injuri	ES.
Chole	era.	Small-pox,	Plague.	Fevers.	Dysentery and Diarrhoea.	Respiratory Diseases,	Suici	ie.
					Diarrnoea.		Male.	Female.
					int.	98- 38CVOT	- 4	
						terrer i estar	4	
				118	197	255	200.21	
-				532	17	166	2	
	••	s		72	11	87		
-				77	1	11	the formation	***
		1		102	16	23	···tealf	
						marchief av	(Eringe 50)	
				66		8	hansestrop	
		131		2,508	973	4,327	7	2
	3	: 565		23,973	1,150	8,444	21	3

103

1	34, Dependen	2			I	12 NURIES			13	14
No.	Di	strict and	Town	ns.	Wound- ing or Accident.	Snake bite, or killed by wild beasts	Rabies	Total,	All other causes.	Total deaths from all causes.
	в.—	TOWNS	.—co+	ıld.						
	Su	KKUR DI	ISTRIC	т.						
32	Sukkkur			т. с.	 33	1		34	243	847
33	Shikarpur	1.01		т. с.	 37	2		41	613	1,369
34	Rohri	·		т.с.	 8			8	35	163
35	Garhi Yasin			т. с.	 11	**1		11	46	144
36	Ghotki			т. с.	 14.1. A	1		1	13	156
	UPPER SI	ND FRONT	rier]	District.						
37	Jacobabad			т. с.	 3			3	15	96
	Ξ.	THE T	fotal o	of Towns	 263	14	3	289	5,553	13,78)
	22	To	tal of	Province	 714	211	17	966	9,678	41,779

No. VI.-concld.

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RATIO OF DEATHS PER 1	,000 OF POPULATION.
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				-				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 year
			1.71	2.82	3.68	0.49	3.51	12.24	13.61
			8'50	0-27	2.67	0.66	9.80	21-90	24.30
			4.36	0.62	2.18	0.42	2.08	9.64	12•18
			10.42	0'14	1.49	1.49	5.97	19-54	24.83
	0.51		21.13	3.31	4.77	0.51	2.69	32-32	35-85
			4.19	0.52	0.22	0.19	0.95	6.10	8-75
	•19		3 06	1.43	6-31	•42	8·1I	20.11	20.72
-0008	.12		6.18	•30	2*18	*25	2.49	11-55	13.34

										_	
1		2			3	- 4			5		б
-	and in some				Population	Ente		Mea	sles.	spi	ebro- nal ver.
No.	D	istricts and	Towns.		according to Census of 1931.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
	A	DISTRI	CTS.								
1	Karachi				3,13,766	3	0.10	20	0.06		
3	Hyderabad				5,31,203	17	0.033	12	0.033		
3	Nawabshah				4,67,273	24	0-05	21	0.04		
4	Thar Parkar				6,54,031	27	0.06	11	0.03		
5	Larkana				4,08,298	18	0.04	7	0.03		
6	Dadu				3,09,146	25	0.08	22	0.07		
7	Sukkur				4,62,901	30	0.07	3	0.006	1	0*002
8	Upper Sind F	rontier			2,44,578	1	0.004	8	0.03		
	Total of the I	Districts (e	xcluding t	owns)	31,91,186	145	0.04	10\$	0.03	1	0.003
		BTOW	NS.								
	к	ARACHI DIS	TRICT.								
9	Karachi		т.	c	2,47,791	34	0.14	71	0.29	3	0.01
10	Karachi		C.	c	6,240						
11	Drigh Road		C	c	2,000						
12	Tatta		т.	c	9,635	1	0.10	1	0.10		
	Hy	DERABAD D	ISTRICT.								
13	Hyderabad		т.	с	96,021	9	0.09	69	0.72	3	0.03
14	Hyderabad		C.	с	4 ,530						
15	Hala		т.	c	7,304]		

Deaths registered from certain diseases in the districts

No. VI (a).

and towns of the Province of Sind during the year 1939.

	7	8			9 .	1	10	-	11	1	12	1	13	1	14
Mal	aria.	Othe		Influ	ienza.	Beri	Beri,	Diph	theria.		icken-	Mu	imps.	Wh	ooping bugh.
			-					-	1	-	1		1	-	1
Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.								
-						-		1Ē	1			1	1	1	
-	-		-		-									-	
92	0-29	1,280	4.08												
23	0-043	2,683	5.2					1	0.005	2	0.004				
59	0.13	3,004	6.43					I	0.003						
33	0.02	3,746	8.25	1	.002									6	0'01
39	0.10	3,887	8.12					2	0.004						
44	0.14	2,044	6.61												
71	0.12	3,346	7-22							1	0.003				
16	0.02	1,397	5-71												
377	0.13	20,837	6.23	1	0.0003			4	0.001	3	0.0003			6	0.003
								_				****			
											-		2		
23	0 10	48	0.19					12	0.02					25	0.10
2	0.33	28	4.49												
1	0.20	e	3.00												
4	0.42	5	0.52												
											1				
270	2.81	50	0.23					3	0.03						
		12	2.64												
		44	6.03												
						-	4		J						

1		3	1.8.4			1	1	5	16		13	7	18	-4bas
1							Can	cer.	Pne mon		Phth	isis.	Other R rator Disea	y
No.	Distri	cts and To	wns.			-	Deaths.	Ratio,	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
_	 A.	-DISTRI	CTS.				I	H	I	H4	I	4	I	
1	Karachi								723	2.31	83	0-27	97	0*29
2	Hyderabad								689	1.30	122	0*23	164	0.31
3	Nawabshah								197	0.43	44	0.03	73	0.16
4	Thar Parkar								1,142	2.52	112	0.25	172	0.38
5	Larkana								29	10-07	25	0.06	47	0.12
6	Dadu								81	0.26	53	0.17	39	0.13
7	Sukkur								72	0.16	37	0.08	78	0.16
8	Upper Sind Fr	ontier							20	0.11	5	0.02	6	0.02
	Total of the D	istricts (ex	cludin	ng to	wns)				2,959	0.93	481	0.12	671	0.21
		BTOWI												
		ARACHI DIS												
9	Karachi								1,701	6'86	560	2.26	378	1.23
10	Karachi			C.					11	1.76			3	0.48
11	Drigh Road			с.	c.	'			1	0.20				
12	Tatta			т.	C.	,			19	1.95	14	1.47	2	0.21
	Нур	erabad D	ISTRIC	т.										
13	Hyderabad			т.	с.				406	4.23	171	1.78	120	1.25
14	Hyderabad			c.	c.				8	1.77				
15	Hala			т.	C.				6	0.82	9	1.23		

No VI (a).—contd.

19			20	21		22		23
Dysen	tery.	Diarr	hœa.	Deaths	Death	hs under 1 ;	year.	
				Deaths from child- birth.		. [Infant mor tality rate per 1,000 births.
Deaths.	Ratio.	Deaths.	Ratio.	birth.	Male,	Female.	Total.	births.
5	0.05	9	0.03	48	272	206	478	122-75
17	0.03	10	0.05	86	305	232	537	96•72
1	0.002	9	0.05	94	331	221	552	80.02
16	0.04	56	0.15	101	432	345	777	82*27
		9	0'03	95	422	318	740	82-39
7	0.03	12	0.04	66	216	212	428	77-90
9	0.03	13	0.03	93	515	384	899	96*13
2	0.01	2	0.01	28	149	117	266	78.65
57	.02	120	-04	611	2,642	2,035	4,677	88.25
102	0.41	526	2.12	93	1,076	892	1,968	135.68
5	0.80	4	0.64	1	23	10	33	88:47
					1	1	2	68·97
		1	0.10	3	7	7	14	127-27
						2		
26	0.52	35	0.32	52	375	361	736	182.40
					1	1	2	37.74
					16	7	23	115.58

•

1		3				3		1		5		6
	Tala and					Population according to	Ente Fev		Me	asles,	sp	ebro inal ever.
No.	Distri	ict and To	owns.		-	Census of 1931.	Deaths-	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
	В	-TOWNS	contd.									
	Hyderal	bad Disti	RICTCO	icld.							200	-
16	Matiari		7	r. c.		6,692			7	1.02		
17	Tando Muhan	nmadkhan	I	c. c.		6,626	1	0.12				
18	Nasarpur		ว	r. c.		4,254						
19	Tando Allahy	ar	5	г. с.		5,146						
	NA	WABSHAH	DISTRICT									
20	Nawabshah		т	с. с.		7,023	5	0-71	1	0.14		
21	Tando Adam		1	r. c,		13,469	15	1.11	1	0.02		
22	Shahdadpur		?	г. с.		8,847	1	0.11				
	Тна	r Parkar	DISTRIC	т.								
23	Mirpurkhas		т	r. c.		10,178			2	0.30		
24	Umarkot		т	. c.		3,841						
	L	ARKANA DI	STRICT.									
25	Larkana		т	. c.		26,841	25	0.83	4	0.12		
26	Kambar		т	. c.		9,717	1	0.10	1	0.10		
27	Ratodero		т	. c.		7,285						
	1	Dadu Dis	TRICT.									
28	Dadu		1	c. c		6,562	6	0.92	5	0-76		
29	Kotri		т	. C.		10,033						
30	Sehwan		т	r. c.		5,795						
31	Manjhand		т	. c.		2,746	1	0.37	7	2.54		

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No. VI (a).-contd.

7 Malaria.		8 Other Fevers.		9 Influenza,		10 Beri Beri.*		11 Diphtheria,		12 Chicken- pox.		13 Mumps,		14 Whooping Cough.	
Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
											10 Ma				
		31	4.63												
		59	8.91												'
		12	2.82							•.4					
5	0*97	21	4.08												
										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
1	0.14	100	14-25												
		20	1.20												
		23	2.61												
										and man					
5	0.49	28	2.75												1.
		21	5.47												
136	5.07	1	0.04	1 9											
5	0.21	85	8·76	19											
		100	15 73											•••	
1	0.12	21	3.20												
56	5.28	1000								.1	0.10				
		9	1.55												
		34	12.38	3						1	0.32				
	-	-					1	1	1.1.						

1	2					l5 ncer.	16 Pneumonia.		17 Phthisis.		18 Other Respi- ratory, Diseases,	
No.	Dist	ricts and	Towns.		Deaths.	Ratio.	Deaths.	Ratio.	Deaths,	Ratio.	Deaths.	Ratio.
		OWNS	contà. ct.—conclā.									
16	Matiari		T. C.				12	1.79	13	1.94	1	0'15
17	Tando Muhamr						8	1-20	7	1.06	2	0.30
	Malan malance						9	2.12	3	0.20	6	
18	Nasarpur		T.C.								6	1.41
19	Tando Allahyar		T. C.				13	2.23	3	0.28		
	NAWABSHAH DISTRICT.											
20	Nawabshah		т. с.				14	2.00	5	0.71	1	0 14
21	Tando Adam		т.с.				26	1-91	12	0 90	10	0*75
23	Shahdadpur		т.с.				1	0.11	7	0.80	1	0.11
	Thar	PARKAR	DISTRICT.									
23	Mirpurkhas		T.C.				43	4.22	10	0.98	2	0.19
24	Umarkot		т.с.				18	4.69	8	2.08		
	LAP	ikana Dis	STRICT.									
25	Larkana		T.C.				41	1.23	17	0.63	36	1.34
26	Kambar		т.с.				5	0.21	3	0.31	2	0.31
27	Ratodero		т.с.									
	D	ADU DIST	RICT.									
28	Dadu		т.с.				2	0.31	3	0.46	8	1.22
29	Kotri		T.'C,				10	1.00	7	0.20	3	0-30
30	Sehwan		т. с.				9	1.55	4	0.20		
31	Manjhand		T. C.				3	1.09	5	1.82		

No. VI (a) -contd.

18		19	rrhœa.	20	Deat	22 7			
Dysen	ery.	Dia	rrnœa,	Deaths	Deat	Infant mor-			
Deaths.	Ratio.	Deaths.	Ratio,	from child birth	Male. Female.		Total.	tality rate. per 1000 births,	
					,ta	1104-,811V	101°(I		
						Germell a	Sures		
				ne 4	7	2	9	97.83	
			· ···	5	9	8	17	257-58	
		3	0.20	2		3	5	in - 161-29	
				2		2	.7	212-12	
in ja	200	£3:0		-	.c. //			M Gheddi	
		1	0.14	5	33	32	G	460-99	
2	0.12	2	0.12	14	18	25	43	155-80	
				5	3	- 10.92	2	25 ·32	
						-5 1 13			
		4	0.39		9	8	17	125.00	
			0.00	4	5	1	6	69*77	
					5				
4	0.12	6	0.55	30	53	45	98	105-83	
/				5	19	16	35	160-55	
				2	18	7	25	113-12	
1	0.12	1	0.12	3	8	2	10	80.00	
1	0.10	2	0.30		16	14	30	200.00	
1	0.12			1	2	2	4	62.50	
				2	4	3	7	83-33	

L (1V) 2015-15

ANNUAL FORM

1 (10) 2015-15 ...

1	in the ball	1			3 Population according	4 Ente Fev		Mea	5 asles.	6 Cerebro- spinal Fever.	
No.		Districts a	nd Town	ns.	 to Census of 1931.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
2		B.—TOWN	NS.—con	stđ.							
		SUKKUR	DISTRIC	r.							
32	Sukkur			T. C.	 69,277	26	0.38				
33	Shikarpur			т.с.	 62,505	29	0.42	11	0.12	-	
34	Rohri			T. C.	 16,900	8	0.42	1	C-06		
35	Gathi Yasi	in		т.с.	 7,370	2	0.52				
36	Ghotki			T. C.	 4,826	3	0.62	3	0.62		
	UPPER	SIND FRO	NTIER I	DISTRICT.							2.0
37	Jacobabad			т. с.	 15,748						
			Total	of Towns	 6,85,202	167	0.24	184	0.22	6	0 008
		Tota	l of the	Province	 38.76,388	312	0.08	238	0.02	7	0.003

No. VI (a)-contd.

7	-	8			9		0		11		12 cken-		13	14 Whooping	
Mala	aria.	Other F	evers.	Infl	uenza.	Beri	Beri.	Dipht	heria.		ox.	Mu	mps.	Co	ugh.
Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.								
											1000 al				
										Tech.		ne.			
				1				-	1. 1	Line and	1.000			and .	84
62	0.90	30	0-43											2	0.03
491	7.85	1	0.01			••••								9	0.13
61	3.61	2	0.15												-
4	0.24	71	9.61												
41	8-49	55	11-40												
										-	in the				
1	0.06	65	4.13												
,169	1.71	982	1.43					15	0 02	2	0.003			36	0.03
, 546	0 40	21,819	5.63	1	0.0003			19	0.004		0.001			42	0.03

ANNUAL FORM

					1012					1	
1	1 64	2		1 4	15	1	6	1	7	1	8
	W secondade	Chickan. 1935	similari	Ca	ncer,	Pneur	monia,	Phit	hsis,	Other rate Dise	
No.	N	ame of Town.			1	1					
official	antarasil Alamin	alternit.	atrad	Deaths.	Ratio	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
	в,—т	OWNS.—con	cld.								
	Su	KKUR DISTRIC	т.								
. 32	Sukkur		. т.с			99	1.42	38	0.52	116	1:68
21 9 33 2	Shikarpur		. т.с			48	0.77	59	0.92	50	0:80
- 3	Rohri		т.с			18	1.06	10	0.20	9	0-53
35	Garhi Yasin		. т.с			6	0.81	3	0.41	2	0.22
36	Ghotki		. т.с			6	1.25	7	1.45	10	2.07
	UPPER SIN	D FRONTIER	DISTRICT.		1						
- 37	Jacobabad		т.с			8	0.25		·		
100 08		Total o	of Town			2,551	3.72	978	1-43	762	1.11
1070 22		Total of the P	rovinces .			5,510	1.42	1,459	0.38	1,433	0.37
		and the second second		1	1	1					

19		20	-	21		22		23
Dysente	ery.	Diarr	hoea,		Deatl	ns under 1 y	ear.	
				Deaths from			2	Infant mortality
Dcaths.	Ratio.	Deaths.	Ratio.	child-birth,	Male.	Female.	Total.	rate per 1,000 births.
96	1:40	101	1:45	14	115	80	195	71*43
6	0.10	11	0.17	58	202	190	392	179-90
2	0.15	9	0.23	6	. 15	8	23	60-21
1	0'14			10	26	16	42	297-67
4	0.83	12	2:48	10;	34	31	65	266.80
						14. 1-1		+ Thur Faci
	-12.	4	0*25		5	3	8	48.78
251	0.32	722	1.02	359	2,106	1,777	3,883	138-59
303	0.08	842	0.22	950	4,748	3,812	8,560	105.75

APPENDIX

ANNUAL FORM

Deaths registered fr	rom cholera	in the	districts
----------------------	-------------	--------	-----------

1	2			3		4						
	and a second		Cir Regi	cles of stration.	Vil	lages.						
ło.	Districts.		Number in each district.	Number from which deaths from cholera were reported.	Number in each district.	Number from which deaths from cholera were reported.	January,	February.	March.	April.	May.	June.
1												
1	Karachi		14		1,041				***			
2	Hyderabad		14		870							
3	Nawabshah		10	1	734	1						
4	Thar Parkar		13		948		*					
5	Larkana		10		2,118							
6	Dadu		11		1,047							
7	Sukkur		13		685	· · · · ·						
8	Upper Sind Front	icr	6		1,652							
	Total of the Provis	nce.,.	91	1	9,095	1						

III—contd.

No. VII.

of the Province of Sind, during each month of the year 1939.

5							6		5	7		8	9
							Total.	1-1	Rati 1,000	o of death of popula	is per ation,	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.
		1.25-					-						
													1
		3				3		3	0.008		0.005	0.006	2
												0.01	8
												0.02	84
												0.04	5
												Lawine.t	6
				-					*			0.02	7
										.44		0.01	8
		3				3		3	0.001		0.0008	0.02	
								2					

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APPENDIX

ANNUAL FORM

Deaths registered from small-pox in the districts of the

1	ő 3		-	3		4						-
	Tad v unon	drado) ateracoj	Cir Regi	cles of stration.	vii	lages.						
и.	Districts.	-n [*] euro	Number in each district.	Number from which deaths from small- pox were reported.	Number in each district.	Number from which deaths from small- pox were reported.	January.	February.	March.	April.	May.	June.
			in the second				1					
1	Karachi		14	7	1,041	15	2	6	6	8	4	3
2	Hyderabad		14	11	870	22	6	4	7	31	28	3
3	Nawabshah		10	8	734	9	7	4	2	21	10	24
4	Thar Parkar		13	12	918	31	12	41	28	23	20	10
5	Larkana		10	6	2,118	13	15	3	4	10	4	1
6	Dadu		ŋ	8	1,047	21	35	8	13	8	5	
7	Sukkur		13	4	685	4			3	2	1	1
8	Upper Sind From	tier	6	1	1,652	1					1	-1
-	Total for the Prov	ince	91	57	9,095	119	77	66	63	98	73	43

III—contd.

No. VIII.

Province of Sind during each month of the year 1939.

5							6		7			8		9	10
							Total.		Numb these o am- child	per of leaths ong iren.	Tot de po	al ratio aths p 1,000 o pulatio	o of er f on.	for previous	
July.	August.	September.	October.	November.	December.	Male.	Female.	Total.	Under 1 year.	Under 10 years.	Male.	Female.	Total.	Mean ratio per 1,000 for previous five years.	No
6	3	8	1		3	33	17	50	4	23	.10	.07	-09	0.13	1
6	8	1	3	6	25	66	62	128	10	54	•17	•21	•19	0 13	2
4				1	17	50	40	90	14	31	•18	•18	·18	0.13	3
6	3			5	17	90	75	165	9	68	•34	-36	-35	0*18	4
9	1	2	б		1	26	30	56	8	32	•10	-14	.12	0.26	5
		2		1		34	33	67	6	16	-18	•23	-20	0.13	6
						4	3	7		2	-01	-01	•01	0.10	7
						1	1	2	1	1	•(-06	.008	· 0 07	0.13	8
31	15		10	13	63	304	261	565	52	227	•14	·15	.15	0.12	

APPENDIX

ANNUAL FORM

Deaths registered	from plague	in the	districts	of the

1	2			3	_	4						
-			Cir Regi	cles of stration.	Vil	lages.						
4.	Districts.		Number in each district.	Number from which deaths from plague were reported.	Number in each district.	Number from which deaths from plague were reported.	January.	February.	March.	April.	May.	June.
1	Karachi		14		1,041							
2	Hyderabad		14		870							
3	Nawabshah		10		734							
•	Thar Parkar		13		918							
5	Larkana		10		2,118	······						
6	Dadu		11		1,047					-		
7	Sukkur		13		685							
8	Upper Sind From	ntier	6		1,652							
	Total for the Pro	vince.	91		9,095							

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L. (10) 2015--16

III-contd.

No. IX.

Province of Sind during each month of the year 1939.

5		-		_			6			7		8	9
					-		Toʻal.		Ratio 1,000	o of death o of popul	s per ation.	00 of	
July.	August.	September.	October.	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 previous five years.	No
												0.002	1
			***										2
													3
		'										`	4
												*	5
													6
												*	7
							· ···						8
1												0.001	

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APPENDIX

ANNUAL FORM

Deaths registered from Fevers in the districts of the

1	2			3	•	4						
	<			cles of stration.	Vill	lages.						
			each	which fevers	each	which fevers						
No.	Districts.		в.		.E	from from orted.						
			Number district.	Number from deaths from were reported	Number district.	Number from deaths from were reported.	January.	February.	March.	April.	May.	June,
1	Karachi		14	14	1,041	461	202	135	170	135	129	128
2	Hyderabad		14	14	870	851	374	455	346	314	374	253
3	Nawabshah		10	10	734	734	462	437	303	272	301	190
4	Thar Parkar		13	13	948	929	427	394	427	463	331	273
5	Larkana		10	10	2,118	860	443	397	303	244	251	244
6	Dadu		11	11	1,047	502	255	227	208	218	250	165
7	Sukkur		13	13	685	685	585	423	407	305	309	310
8	Upper Sind Frontie	er	6	6	1,652	392	198	124	143	106	119	108
	Total for the Provis	nce.	91	91	9,095	5,414	2,946	2,592	2,367	2.056	2,064	1,671

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III.-contd.

No X.

Province of Sind during each month of the year 1939.

5					-		6			7	-	8	9
							Total,		Ratio 1,000	of death of popula	s per ation.	30 O	
July.	August.	September.	October.	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 previous five years.	No
119	99	106	120	140	139	885	737	1,623	2.69	2-94	2*90	8.42	1
232	153	139	165	246	277	1,910	1,418	3,328	5 15	4'88	5.04	5 85	2
170	217	154	217	256	296	1,931	1,344	3,275	6.92	6.18	6 59	8-13	3
201	178	248	289	334	310	2,263	1,611	3,874	8.64	7.81	8.27	8-28	4
242	217	223	324	407	404	2,107	1.652	3,759	8'42	8 18	8.31	9.82	5
195	141	111	148	155	202	1,227	1,048	2,275	6*36	7.12	6-80	8.77	6
309	208	239	302	367	468	2,455	1,897	4,352	7.03	6.91	6 88	9.78	7
100	81	87	118	170	134	895	603	1,488	5.87	5.52	5.72	7.19	8
1,568	1,384	1,307	1,713	2,075	2,230	13,663	10,310	23,973	6.29	6.02	6.18	7.43	

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APPENDIX

ANNUAL FORM

Deaths registered from Dysentery and Diarrhoea in districts

1	2	_		3		4						
	ter attack to	200	Cir Regis	cles of stration,	vii	lages.						
No.	Distrcts.		Number in each Dis- trict.	Number from which deaths from dysentery and Diarrhoea were reported.	Number in each Dis- trict.	Number from which deaths from Dysentery and diarrhoea were reported.	January.	February.	March.	April.	May.	June.
1	Karachi		14	10	1,041	10	34	29	35	46	66	67
2	Hyderabad		14	9	870	17	3	5	7	5	3	6
3	Nawabshah		10	7	734	10		1.		3	4	
4	Thar Parkar		13	12	948	26	2	2	9	3	7	3
5	Larkana		10	5	2,118	9	4	2	2	1	1	1
6	Dadu		11	10	1,047	10	2	•••	1	4	1	1
7	Sukkur		13	13	685	14	27	21	17	17	17	20
8	Upper Sind Frontier		6	5	1,652	11		1				
	Total for the Province		91	71	9,095	107	72	61	71	79		98

III—contd.

No. XI.

of the Province of Sind during each month of the year 1939.

							6			7	2	8	9
							Total.	Ar est	Ratio of	í deaths p Populati	er 1,000 on,	[previous	-
Julr.	August.	September.	October.	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 of previous five years.	No.
61	66	57	64	62	65	351	301	652	1.07	1.20	1.12	1.11	1
7	16	9	9	11	10	53	38	91	0.14	0.13	0.14	0.24	2
3		1		1	2	10	5	15	0.04	0.03	0.03	0.02	3
2	12	8	2	8	18	49	27	76	0.18	0.13	0.16	0.03	4
		3	5		1	12	7	19	0'04	0.03	0.04	0.02	5
, 2	3	2	3	4	2	14	11	25	0.07	0.02	0.07	0.02	6
21	25	22	27	24	26	144	120	264	0.41	0.43	0*42	0.32	7
1	4	1		1		6	2	8	0.04	0.05	C*03	0-03	8
97	126	102	110	111	124	639	511	1,150	0.30	0.30	0*30	0.29	

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APPENDIX

ANNUAL FORM

Circles of Villages. Registration. Number from which deaths from Respira-tory diseases were reported. Number from which deaths from Respira-tory diseases were reported. Dis-Diseach each Districts. No. Number in trict. п. February. Number trict. January. March. April. May. June. Karachi 1,041 Hyderabad Nawabshah Thar Parkar 2,119 Larkana 1,047 Dadu Sukkur Upper Sind Frontier 1,652 Total of the Province 9,095 1,344 1,311 1,244 1,069

Deaths registered from Respiratory diseases in the districts of the

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III-contd.

No. XII.

Province of Sind during each month of the year 1939.

5							6			7		8	9
							Total.	-	Ratio of	deaths p Populati	oer 1,000	f previous	
July.	August.	September.	October.	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 of previous five years,	No
219	216	205	215	294	363	2,061	1,556	3,617	6.27	6-21	6.22	6.44	1
76	59	77	80	169	244	1,104	663	1,772	2.97	2:29	2.68	0.42	2
17	9	6	13	42	33	257	134	391	0*92	0.63	0°79	1.10	3
38	23	30	51	81	165	948	565	1,513	3.62	2.74	3-23	2.67	4
11	11	14	21	12	28	133	72	205	0.23	0*35	0'45	0.42	5
5	10	13	14	26	20	153	74	227	0.82	0.20	0.62	0.76	6
41	43	35	38	57	81	417	57	674	1.19	0-94	1.08	1.19	7
2	3	1	1	4	7	29	16	45	0.19	0.14	0.12	0.33	8
409	374	381	433	685	941	5,102	3,342	8.444	2.35	1.96	2.18	2.28	

I. (IV) 2015-17

APPENDIX

STATEMENT

Showing the Particulars of Vaccination

No.		Dist	ricts or 7	Cowns.				Population according to census of 1931,	Average number of Vaccinators employed throughout the year.
1	S		2	1				3	4
1	Karachi					т. с.		2,54,031	6
2	Do.					C. C,			1
3	Do.					R, C.		46 748	1
4	Tatta					,,		41,020	1
5	Do.					T. C.		9,635	1
6	Ghorabari					R. C.		37,976	1
7	Mirpur Sakro					.,		34,356	1
8	Sujawal							37,946	1
9	Jati							34,651	1
10	Shahbandar							39,890	1
11	Mirpur Bathoro					"		42,826	1
				Total,	Karac	hi district		5,79,079	16
12	Hyderabad					т. с.		96,021	1
13	Do.					C, C		4,530	1
14	Do.					R. C.		79,096	1
15	Hala							1	
16	Do					т. с,		- 1,13,496	2
17	Matiari							J	
18	Nasarpur)	
19	Tando Allahyar							- 61,320	1
20	Do					R. C.		J	
21	Tando Muhamm	adkhan				т. с.		- 1,04,545	2
22	Guni					R. C.		J 1,04,343	4
23	Tando Bago							67,998	1
24	Badin							89,280	2
25	Matli							46,638	1
				Total, Hy	deraba	ad distric	·	6,62,924	12
26	Tando Adam					т. с.		1	
27	Shahdadpur							- 1,03,217	2
28	Do.					R. C.			

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IV

No. I.

in Sind during the year 1939-40.

					-	Prin	nary Vaccin	nation.	
		nber of pers	ons	Average number of persons			Successful	ι.	
M	ale.	Female.	Total.	vaccinated by each Vaccinator.	Total.	Under one year.	One and under six years.	Total of all ages.	Unknown.
	5	6	7	8	9	10	11	12	13
{ P. { R.	8,034	7,555	15,589	4,320	15,609	11,013	3,727	15,539	36
(P.	6,422 21	3,909 21	10,331 42	198	42	33	4	38	3
KR.	149 671	7 576	156 1,247	1,482	1,247	322	714	1,191	56
(R. 5 P.	185 1,000	50 776	235 1,776	2,088	1,776	438	1,029	1,561	215
₹R. €P.	246 125	66 135	312 260	336	260	79	159	241	19
₹R. ∫P.	53 691	23 513	76 1,204	1,481	1,204	206	749	1,114	87
(P.	239 421	38 375	277 796	1,004	796	336	337	698	90
₹R. ∫₽.	152 935	56 786	208 1,721	2,180	1,721	355	1,068	1,592	128
(R. (P.	340 542	119 376	459 918	1,111	918	309	504	890	28
(R. (P.	168 629	25 480	193 1,109	1,186	1,109	299	623	1,065	44
(R. (P.	63 902	14 652	77 1,554	1,787	1,554	352	885	1,496	58
R.	176	57	233						
{ P. { R.	13,971 8,193	12.245 4,364	26.216 12,557	2,423	26,236	13,742	9,799	25,425	764
5 P.	2,280	2,172	4,452	13,329	4,453	1,887	1,428	3,393	1,035
{R. 5 P.	5,282	3,595	8,877 120	194	120	56	45	102	18
₹R. §P.	36 1,361	38 1,116	74 2,477	3,617	2,477	790	1,331	2,270	207
₹R.	891 1,770	249 1,483	1,140 3,253	2	3,253	1,727	1,676	3,068	185
{P. (R.	301	93 102	394 235	- 2,060	235	149	81	231	4
{P. (R.	133 17 102	102	18 191	1,000	191	49	128	185	5
{P. R.	18	10 37	28 78	j	78	18	59	78	
{P. (R.	41		194	- 3,675	194	43	118	183	11
{ P. (R.	105	66 1,129	223 2,465	5,075	2,465	615	1,531	2,327	138
{ P. { R.	1,336 519	196 161	715	į	331	118	173	319	130
{P. (R.	170 408	136	544	2,338	3,344	818	1,998	3.049	294
{P. (R.	1,912	1,432	3,344 456 2,481	4,509	2,481	701	1,315	2,331	150
{P. (R.	1,419 1,432	1,062	2,028		3,842	1,010	1	10000	396
{ P . (R.	2,218	1,624 201	3,842 971 2,647	2,437	2,647	734	2,020	3,446	210
{P. R.	1,513 1,027	1,134 439	2,647 1.466	4,113	A,047	/34	1,4!9	2,437	410
{P. {R.	14,422 11,220	11,688 5,714	26,110 16,934	3,587	26,110	8,215	13,322	23,419	2,665
			-					and a	1000
{P. (R.	676	622	1,298	1	1,298	546	521	1,174	124
₹R. {P. {R.	586 225	321 221	907 446	1,348	446	190	179	401	45
(R. 5P.	31 1,621 506	13 1,318 134	44 2,939 640]	2,939	1,031	1,506	2,645	294

						+		Re-vaccination	
		Dist							
ło.		Districts	or Towns.	•			Total.	Successful.	Unknown
	and and a		2				14	15	16
1		200	4				14	15	10
1	Karachi				т с.		10,331		10,331
2	Do.				C. C		156	37	1
3	Do.				R. C.		235	46	64
4	Tatta				R. C.		312	28	81
5	Do.				т. с.		76	33	27
6	Ghorabari				R. C.		277	20	- 35
7	Mirpur Sakro	×					208	27	64
8	Sujawal						459	69	168
9	Jati						193	36	55
10	Shahbundar						77	21	11
11	Mirpur Bathoro						233	56	30
							- The second		Ser. 1
			Tota	l, Karacl	hi distric	it	12,557	373	10,865
12	Hyderabad				т. с.		8,877	1,222	2,504
13	Do.				C. C.		74	70	
14	Do.				R. C.		1,140	98	263
15	Hala				,,		394	43	16
16	Do.				т. с.		18	1	14
17	Matiari						28	1	
18	Nasarpur								
19	Tando Allahyar				,,		223	6	61
20	Do.				R, C.		715	26	168
21	Tando Muhamma				т. с.		544	41	189
22	Guni				R. C.		456	93	20)
23	Tando Bago						2,028	128	599
24	Badin						971	141	312
25	Matli						1,466	26	272
			Total, I	lyderab	ad distric	ot	16,934	1,895	4,600
26	Tando Adam				т. с.		907	122	285
27	Shahdadpur						44	3	
-									

No. I.-contd

	the results known.	va	Persons successfully ccinated per 00 of popula-	Total cost of Vaccination Department.	Number of all successful vaccinations performed by the vaccination	Average cos each succes case perform by the vaccin	sful ned
Primary.	Re-vaccination.	1,00	tion.	isepartment.	staff only,	staff.	
17	18		19	20	21	22	
		1		Rs. a. p.		Rs. a.	p.
99-91			61.17		***		
97.44	24.03						
100.00	26*59		26.46				
100 00	12-12	1	38.74				
100.00	67.55		28'54				
100.00	8.26		29'86				
98-87	18.49		21.10				
99-94	23.71		43.77				
100.00	26.87		26.72			-	
100.00	31.82		27.22				
100.00	27.59		36-24				
	A Barres					1 Marpoli	
99:89	22.08	-	44*55	19,861 0 0	25,798	0 12	3
		-					
99:30	19.17		48*06				
100.001	94.59		37*97				
100.00	11-20		29'94				
100.00	11.38	1				Land Market	
100.00	25.00	-	31.09				
99.46	3.57	1					
100.00		1				Low hard	
100.00	3.70	1	42.73				
100.00	4.75]					
100.00	11.55	1	1000				
99*97	35'94	5	33.49				
100.00	8.96		36.16				
100.00	21.40		40.18				
100.00	2*18		52.81				
99.89	15:36	-	38.19	14,963 0 0	25,314	0 9	5
							-
100-00	19.61	1					
100.00	6.93	-	43.20				
100.00	50.36						

No		D	listricts	or Towns.				Population according to census of 1931.	Average number of Vaccinators employed throughout the year.
1		. 16		2				3	4
29	Naushahro Fer	roze				R. C.		\$6,068	2
30	Kandiaro					"		80,814	1
31	Sakrand							62,476	1
32	Moro							59,563	1
33	Nawabshah					,,		56,270	1
34	Sinjhoro							48,201	1 1
	104 million			Total, Na	wabsha	h district		4,96,612	9
	and and						_		
	-								and and a
35	Mirpurkhas					R. C.].	47,536	1
36	Do.					Т. С,)		
37	Umerkot					,,		3,841	1 1
38	Do.					R. C.		39.628]
39	Samaro							43,779	1
40	Jamesabad					31		30,745	1
41	Chachro				•••	*		61,974	1
42	Nagar Parkar					••		41,726	1
43	Diplo							25,242	1
44	Mithi					**		45,709	1
45	Khipro	••• •••				.,		51,030	2
46	Sanghar					"		33,777	1
47	Digri	•••					•	43,053	1
				Total, That	r Parka	r district	-	4,68,040	12
							-		
48	Dadu					т. с.		57,549	- 1
49	Do.					R. C.	5		
50	Sehwan					"		45,086	1
51	Do.					т. с.	5		
52	Kotri					,,		53,787	1
53	Do.					R, C,]		-
54	Manjhand					т. с.			
55	Johi					R. C.		51,448	1
56	Kakar					••		48,448	1
57	Mehar	•••				••		63,001	1
58	Kohistan							17,374	1

No. I.-contd.

						Pri	mary Vaccin	ation.	
		mber of pers accinated.	ons	Average number of persons vaccinated			Successful		
M	lale.	Female.	Total.	by each Vaccinator.	Total.	Under one year.	One and under six years.	Total of all ages.	Unknown,
	5	6	7	8	9	10	11	12	13
{P. {R.	2,031 260	1,782	3,813 365	2,089	3,813	1,964	1,487	3,559	252
§ P.	1,273	1,184	2.457	2,°61	2,457	1,794	568	2,367	90
₹R. {P.	369 949	850	404	2,031	1,799	888	723	1,673	126
₹₽. ₹₽.	202 949	30 870	232 1.819	2,200	1,819	811	867	1,721	98
₹R. ₹P.	298 1,197	83 1,022	381 2.219	2,898	2,219	10,28	916	2,042	177
₹ R.	429 1,016 356	250 948 205	679 1.964 561	2,525	1,964	821	871	1,803	161
{P. R.	9,937 3,037	8,817 1,176	18,754 4,213	2,552	18,754	9,073	7,638	17,385	1,367
{ P. { P.	958	769	1,727 1,260)	(1,727	539	923	1,651	76
{R. {P.	920 332	340 303	635	4,337	635	242	324	617	18
KR.	548 139	167 99	715 238	j	238	82	116	218	20
{P. ∫R.	175 874	85 743	260 1,617	4,352	1.617	619	710	1,414	202
₹ R. {P. {R.	1,538 1,167	699 926	2.237 2.093	3,494	2,093	737	1,097	1,991	102
₹ R. {P. R.	945 833	456 670	1,401 1,503	3,064	1,503	538	705	1,377	126
SP.	993 1,002	568 829	1,561 1,831	2,935	1,831	902	732	1,675	127
₹R. {P. {K.	S11 749	293 631	1,104 1 380	1,881	1,380	539	671	1,285	88
₹₽. ₹₽. ₹₽.	360 608	141 503	501 1,111	1,467	1,111	301	619	1,013	98
CP.	295 769	61 686	356 1,455	1,854	1,455	594	626	1,272	182
R.	299 1,542	100 1,030	399 2,572	1,912	2,572	1,023	1,252	2,368	204
(R.	945 771	306 633	1,251 1,404	2,271	1,404	602	550	1.287	117
(R. {P. (R.	615 1,257 2,281	252 1,034 1,138	867 2.291 3,419	5,710	2,291	863	1,055	2,189	102
{P. {R.	11,001 10,725	8,856 4,606	19,857 15,331	2,932	19,857	7,581	9,380	1,8357	1,462
{P. R.	103	93	196 89)	(196	76	106	185	11
CP.	86 1,011	3 1,058	2,069 293	2,647	2,069	1,172	787	2012	57
(R. {P. (R.	243 651	50 642	1,293 254	5	1,293	782	331	1,136	157
(R. {P. (R.	207 75	47 68	143 10	\$ 1,700	143	54	69	133	10
€R. §P.	6 116	4 107	223 741)	223	78	109	211	12
P.R. P.R.	584 456	157 388	844	2,511	3 844	337	396	774	70
(R. §P.	480 17	J31 16	611 33 50		33	13	13	28	5
SP. R. SP. R.	44	- 15 808	59 1,824	2,204	1,824	802	758	1,653	167
(R. (P.	294 842	86 825	380 1,667	1,829	1,667	807	735	1,591	76
P.R. P.R. R.	119 1,306	43 1.296	162 2,802	2,934	2,602	1,378	954	2,399	202
₹ R. {P. {R.	266 380 539	66 295 338	332 675 877	1,552	675	187	356	638	30
{P. {R.	5,973 2,868	5,596 940	11,569 3,808	2,197	11,569	5,686	4,614	10,760	797

						_		Re-vaccination.	
No.	1	Distric	ts or Town	s,			Total.	Successful.	Unknown
	and the second								
1	1		2				14	15	16
29	Naushahre Feroz	e			R. C.		365	61	9
30	Kandiaro						404	37	4
31	Sakrand						232	6	8
32	Moro						381	71	17
33	Nawabshah						679	58	15
34	Sinjhoro						561	109	8
			Total, N	lawabsha	h district		4,213	581	1,000
35	Mirpurkhas				B. C.		1,260	11	993
36	Do.				т. с.		715	8	53
37	Umerkot						360	45	4
38	Do,				R. C.		2,237	184	68
39	Samaro						1,401	189	455
40	Jamesabad						1,561	298	1,139
41	Chachro						1,104	39	483
42	Nagar Parkar						501	20	38
43	Diplo			·			356	23	116
44	Mithi						399	. 20	190
45	Khipro						1,251	43	833
46	Sanghar						867	175	149
47	Digri						3,419	814	901
	- mail		Total, Th	ar Parka	r district		15,331	1,869	6,573
48	Dadu				т. с.		89	9	37
49	Do.				R. C.		293	13	24
50	Sehwan			~	••		254	35	112
51	Do,				т. с.		10	2	6
52	Kotri						741	8	
53	Do.	•••			R. C.		611	2	18
54	Manjhand				т. с.		59	2	8
55	Johi			`···	R. C.		380	15	124
56	Kakar						162	15	38
57	Mehar		•••				332	11	140
58	Kohistan						877	122	149
	Toma or		T	tal Dad	u district	-	3,808	234	656

No. I.-contd.

	the results known	su vac	Persons ccessfully ccinated per	Total cost of Vaccination	Number of all successful vaccinations performed by the	Average cos each succes case perfor	sful
Primary.	Re-vaccination.		1,-00 of opulation,	Department.	vaccination staff only.	by the vaccinati staff.	
17	18		19	20	21	22	
				Rs. a. p.		Rs. a.	p.
99-94	22*59		42.06	***			
100.00	10-25		29*75				
100.00	3*95	P	2688				
100.00	33*65		30.09				
100.00	11.01		37.32				
100.00	23.09		39.66				
99 99	18.08	-	36.20	11,095 0 0	17,966	0 9	10
100.00	4.18	2					
100.00	4.44	}	48.32				
100.00	20-93		68.47				
99*83	11.88		40'33				
100'00	20.06		49.80			·	
100.00	70.63		54.48				
98'30	6.28		27.66				
99-47	4.32		31.28				
100.00	9.58		41.04				
99.92	9.57		28.27				
			47.25				
100.00	10.29					-	
100.00	24*37		43·31 65·75				
100*00	32 33		0373				_
99.79	21-34		43.21	14,873 0 0	20,216	0 11	9
100.00	17-31	2					
100.00	4.83	5	38.26				
100.00	24.64	1					
100.00	50-00	1	28-97		•••		
10).00	1.08	1					
100.00	*34	5	18.20				
100.00	3 92	-					
99.76	5.86		32-43				
100.00	12.10		33-15				
99.96	11-96		38.25				
99.96	16.76		43*75				
99.89	7.42		32.65	8,825 0 0	10,994	0 12	10

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STATEMENT

No.		Distr	icts or	Towns.			100 m	Population according to census of 1931.	Average number of Vaccinators employed throughout the year.
1			2			2		3	4
59	Larkana	 ~		-1 X		T C.		26,841	1
0	Do.					R. C.		71,272	1
51	Ratodero					,,		59,781	1
52	Do.					т. с.		}	
53	Kambar					**		9,717	1
54	Do.					R. C.		72,028	1
55	Miro Khan			`		**		47,214	1
56	Warah					,,		64,783	1
57	Dokri					**		76,567	1
68	Shahdadkot					.,		37,195	1
				Total, L	arkat	na district		4,65,399	9
59	Shikarpur					T. C.		62,505	1
70	Do.					R. C.		73,419	1
	Sukkur			••• •			***	66,350	1
2	Do.		•			т.с.	***	69,277	1
73	Rohri						***	16,900	1
74	Do.					". R. C.	***	77,826	1
75	Garhi Vasin)	
76	Do.					T. C.		68,674	1
77	Ghotki								
78	Do.					" R. C.	***	- 46,839	1
79	Mirpur Mathelo							48,556	1
80	Pano Akil							47,287	1
81	Ubauro							46,146	1
	Condio								
				Total,	Sukki	ar district		6.23.779	
82	Jacobabad					R. C.		71,561	1
83	Po.					т. с.		15,748	1
84	Garhi Khairo					R. C.			1
85	Thul							61,303	1
86	Kandhkot					.,		64,525	1
87	Kashmore							41,407	1
			Total	Unner Stall r		an distant of	-		
			rotal,	Upper Sind F	ionta	a district		2,54,544	6
							1		

No. 1.-contd

						Primary Vaccination.					
	Total nu	umber of per vaccinated.	rsons	Average number of persons vaccinated			Successfu	ıl.	t at		
	Male.	Female.	Total.	by each Vaccinator.	Total.	Under one year.	One and under six years.	Total of all ages.	Unknown		
	5	6	7	8	9	10	11	12	13		
{ P. R.	360	258	618	643	618	152	+ 426	579	39		
SP.	19 953	911	25 1,864	5,816	1,865	1,017	538	1,570	292		
R.	2,482 637	1,470 536	3,952 1,173)	1,173	843	232	1,099	74		
(R. (P.	1,465 153	659 126	2,124 279	3,649	279	229	34	264	15		
R.	65 185	8 157	73 342	356	343	190	97	287	56		
R.	5 1,214	9 1.096	14 2,310	6,802	2,310	1,325	650	2,013	291		
CR.	3,376 776	1,116 737	4,492 1,513	3,302	1,513	820	520	1,370	142		
CR.	1,004 1,096	785 1,012	1,789 2,108	3,543	2,108	1,143	723	1,924	182		
R.	1,027 713	408 599	1,435 1,312	4,068	1,312	825	272	1,124	188		
(R. (P. (R.	1,882 852 799	874 796 940	2,756 1,648 1,739	3,387	1,648	834	630	1,539	107		
{ P. R.	6,939 12,124	6,228 6,275	13,167 18,399	3,507	13,169	7,378	4,122	11,769	1,386		
(P.	970	943	1,913	1,957	1,913	1,483	395	1,880	31		
R. P.	39 1,308	5 1,223	2,531	2,623	2,531	1,689	563	2,267	264		
R.	63 817	29 784	92 1,605	1,695	1,605	1,181	243	1,436	169		
(R.	85 973	5 878	90 1,851	1,938	1,851	895	893	1,788	63		
(R. P.	62 245	25 216	87 461	467	461	285	152	439	21		
R. P.	5 1,260	1,237	6 2,497	2,673	2,497	1,470	793	2,272	225		
R. P.	171 879	5 863	176 1,742	2	1,742	1,313	273	1,593	149		
R. P.	169 100	31 87	200 187	2,134	187	155	17	172	15		
R.	4 19	1 14	5 33	1	33	17	11	28	5		
R. P.	10 659	625 625	13 1,284	1,379	1,284	856	165	1,027	257		
CP.	32 677	17 674	49 1,351	1,371	1,351	753	506	1,267	84		
R. P.	14 788	6 719	20 1,507	1,598	1,507	938	333	1,275	232		
R. P. R.	59 527 199	32 515 31	91 1,042 230	1,272	1,042	660	243	924	118		
{ P. R.	9,222 912	8,782 191	18,004 1,103	1,737	18,004	11,695	4,587	16,368	1,633		
(P.	590	503	1,093	1,332	1,093	727	280	1,038	54		
R. R.	196 234	43 202	239 436	449	436	296	135	434	2		
ςP.	7 669	6 473	13 1,142	1,357	1,142	549	508	1,085	57		
R. P.	198 1,175	17 1,003	215 2,178	2,291	2,178	1,282	776	2,086	89		
R. P. R.	96 1,411	17 1,127	113 2,538	2,962	-2,538	1,013	1,157	2,339	199		
(R. (P. (R.	310 693 200	114 651 56	424 1,344 256	1,600	1,344	735	457	1,220	124		
{ P. (R.	4,772 1,007	3,959 253	8,731 1,260	1,665	8,731	4,602	3,313	8,202	525		
P.	76,237	66,171 23,519	1,42,408	2,634	1,42,430	67,972	56,775	1,31,685	10,599		

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							Re-vaccination	
lo.		Districts o	r Towns.			Total.	Successful.	Unknown
1			2			14	15	16
59	Larkana				т. с	 25		24
60	Do.				R. C.	 3,952	800	1,623
61	Ratodero				••	 2,124	80	1,144
62	Do.				т. с.	 73	3	38
63	Kambar					 14	4	1
64	Do.				R. C.	 4,492	363	1,844
65	Miro Khan					 1,789	276	503
66	Warah					 1,435	167	373
67	Dokri					 2,756	176	975
68	Shahdadkot				••	 1,739	247	679
			Total,	Larkan	a district	 18,399	2.116	7,204
69	Shikarpur				T. C.	 44	9	3
70	Do.				R. C.	92	3	47
71	Sukkur					 90	12	51
72	Do.				т. с.	 87	18	. 59
73	Rohri					 6		5
74	Do.				R. C.	 176		130
75	Garhi Yasin					 200	8	90
76	Do.				т.с.	 5	1	
77	Ghotki				.,	 13		13
78	Do.				R. C.	 49		49
79	Mirpur Mathelo					 20	2	4
80	Pano Akil					 91	2	87
81	Ubauro					 230	24	150
			Total	, Sukku	ır district	 1,103	79	688
82	Jacobabad				R. C.	 239	7	75
83	Do.				т. с.	 13	2	5
84	Garhi Khairo				R. C.	 215	4	135
85	Thul					 113	10	15
86	Kandhkot					 424	89	179
87	Kashmore					 256	2	100
		Total, U	pper Sind	Frontie	er district	 1,260	114	509
	The second second second			To	tal, Sind	 73,605	7,261	32,098

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No. I-contd.

Percentage of s in which t were k		Persons successfully vacinated per 1,000 of popula-	Total cost of Vaccination Department,	Number of all successful vaccinations performed by the vaccination	Average cost of each successful case performed by the vaccinatio	
Primary.	Re-vaccination.	tion.		staff only.	staff.	
17	18	19	20	21	22	
109.00		21.57	Rs. a. p.		Rs. a. p.	
99.87	34.35	33*25			All Market	
100.00	8.16	1		i se in	Performant and	
100.00	8'57	- 24-21			and the second s	
100.03	30*77	29*95		The second second	A The Fred	
99-70	13.71	5 32.99				
99*93	21.46	34-86			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
99.90	15.73	32-28				
100.00	9*88	16-98				
99*87	23*30	48-02				
99.90	18.90	29.84	12,927	13,885	0 14 11	
99-89	21.95	30.02				
100-00	6.67	30-92				
100.00	30.77	21*82				
100.00	64*29	26.07				
99.77		25.98				
100.00		29.19				
100.00	7.27	1			Laner	
100.00	20.00	5 25'83		***		
100.00		1			1.1	
100.00]- 22.22				
100.00	12.50	26.11				
100.00	50.00	27.00				
100*00	30*06	20.54				
99.98	19:36	26.37	14,235	16,447	0 13 10	
99*90	4*27	14.62				
100.00	25.00	27.75				
100.00	5.00					
99*86	10-20	34.19				
100 00	36.33	37-63				
100*00	1.28	29-51				
99.95	15'18	32'28	6,771	8,316	0 13 0	
99.91	17.49	35:75	1,13,384	1,38,946	0 13 6	

									1
	o ententra.							Population	Average number of
No.	inato bina ang mana kata ang Mana	Dist	tricts or 7	l'owns.				according to census of 1931.	Vaccinators employed throughout the year.
1	12		2					3	4
241 24	1000		-	1					
1	Karachi d	listrict						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							4,38,558	7
6	Dadu							3,36,693	7
7	Sukkur							4,75,097	8
8	Upper Sind	Frontier						2,38,796	5
	-		Tot	al Sind, e	xcludi	ng Towns		33,27,741	66
	42 11	KARACI	II COLLE	CTORATE.			-		
	Karachi					T. C.		2,54,031	6
	Do.					C. C.			1
	Tatta					т. с.		9,635	1
	-					-	-		
						Total	***	2,63,666	8
	***	HYDERAD	AD COLI	ECTOBAT	в.				
	Hyderabad					т. с.		96,021	1
	Do.					C. C.		4,530	1
	Hala					т. с.		7,304	
	Matiari					.,		6,074	
	Nasarpur							4,243	100000
	Tando Allahy							5,146	CONTRACT OF
	Tando Muha	mmadkhan						6,560	
84	er e.					Total	-	1,29,878	2
		NAWABSH.	AH COLL	ECTOBATE			-		
	Tando Adam					T. C.		12,859	
	Shahdadpur							7,572	
							_		
	***					Total		20,431	
		THAR PAR	KAR COL	LECTORAT	гв.		-		
	Umarkot					т. с.		3,581	
	Mirpurkhas							9,12)	

No. I.—contd.

						Pri	mary Vaccin	nation.		
	Total nu v	mber of pers accinated.	ons	Average number of persons vaccinated	mber of		Successfu	ι.	Unk	nown
N	dale.	Female.	Total.	Vaccinator.	Total.	Under one year.	One and under six years.	Total of all ages.	Clix	nown.
	5	6	7	8	9	10	11	12		13
CP.	5,791	4,534	10,325	2 100	10.005	0.00	5,909	9,607	1	mor
{P. {R. ∫P.	1,569 11,529	425 8,980	1,994 20,509	{ 1,540 } 2,768	10,325	2,617	11,290	18,928	lister	706
₹R, {P, {R,	5,302 9,036	1,868 7,974	7,170 17,010	2,252	17,010	8,337	6,938	15,810	paking a	1,198
(P.	2,420 10,530	842 8,454	3,262 18,984	2.778	18,984	7,257	8,940	17,522	er si i i	1,424
₹R. ∫P.	10,002 6,241	4,354 5,687	14,356 11,928	\$ 4,316	11,929	6,807	3,565	10,639	and a state	1,276
₹R. ∫₽.	12,035 5,662	6,252 5,312	18,287 10,974	1.983	10,974	5,465	4,317	10,203	199-3	759
(P. (R.	2,148 6,915 792	761 6,644	2,909 13,559	1.813	13,559	8,860	3,119	12,061	1	1,498
(P.	4,538	156 3,757	948 8,295	1,908	8,295	4,306	3,178	7,768		523
{R. {P, {R.	1,000 60,242 35,268	247 51,342 14,905	1,247 1,11,584 50,173	2,451	1,11,585	49,544	47,256	1,02,538		3,964
CP.	8.034	7,555	15,589	} 4,320	15,609	11.013	3,727	15,539		36
{P. {R. (P.	6,422 21	3,909 21	10,331 42	198		33	4	38	and a	
{P. (P. (R.	149 125	7 135	156 260	336	42 260	79	159	241	a.	3 19
ζR.	53	23	76	ş 330	200					19
{P. {R.	8,180 6,624	7,711 3,939	15,891 - 10,563	} 3,307	15,911	11,125	3,890	15,818		58
10	2,280	2,172	4,452				/			
{P. (R.	5,282 62	3,595	8,877 120	\$ 13,329	4,452	1,887	1,428	3,393	1.918	1,035
SP. R.	36 133	38 102	74 235	\$ 194	120	56	45	102	1	18
{P. {R. {P.	17 102	1 89	18 191	5	235	149	81	231	also a	4
{R. § P.	18 41	10	28 78		191	49	128	185	inste i	5
2R	105	1 89	194		78	18	59	78	wizt(
§ ₽. (R. § ₽.	157 170	66 161	223 331	3	194	43	118	183		11
(R.	408	136	544	3	331	118	173	319	-	12
{P. R.	2,893 5,918	2,708 3,846	5,601 9,764	} 7,683	5,601	2,320	2,032	4,491		1,085
{ P. { R.	676 586	622 321	1,298 907	2	1,298	546	521	1,174	2	124
{P. {R.	225 31	221 13	446 44	3	446	190	179	401	55:02	45
{ P. { R.	901 617	843 334	1,744 951	}	1,744	736	700	1,575		169
{P. {R.	139 175	99 185	238 260	3	238	82	116	218		20
{P. {R.	382 548	303 167	635 715	}	635	242	324	617	and the	18
{P. {R.	471 723	402 252	873 975	}	873	324	440	835		38

	1							Re-vaccination.	
lo.	tall to langt	Districts	s or Towns,				Total.	Successful.	Unknown,
1	11		2				14	15	16
1	Karachi distric	t .		-			1,994	303	508
2	Hyderabad	nd re		Rent .			7,170	554	1,832
3	Nawabshah "						3,262	456	715
4	Thar Parkar ,,						14,356	1,816	5,993
5	Larkana "						18,287	2,1(9	7,141
6	Dadu ".						2,209	213	605
7	Sukkur			-			948	51	608
8	Upper Sind Fronti	ier .					1,247	112	504
		1	Fotal, Sind, (excludin	g Towns		50,173	5,614	17,906
		KARACHI (COLLECTORA	rn.					
22	Karachi	100			г. с		10,331		10,331
2	Do			(c. c.		156	37	2
19	Tatta			'	r. c.		76	33	27
82	519,51				Total		10,563	70	10,360
		TDERABAD	COLLECTOR.						
	Hyderabad				г. с.		8,877	1,222	2,504
	Uo				с. с.		74	70	
•	Hala				г. с		18	1	14
	Matiari						28	1	
	Nasarpur								
	Tando Allahyar					**	223 554	6 41	61 189
	Tando Muhamma	GKOND			31				
					Total		9,764	1,34)	2,768
	and there are	AWABSHAT	H COLLECTO				-		
	Tando Adam			'	г. с.		907	122	285
	Shahdadpur						44	3	
	1.275				Total	**	951	125	285
	Ti	IAR PARKA	R COLLECTO	PRATE.					
	Umarkot				т. с.		260	45	285
	1 Manual Annie						715	8	•••
	Mirpurkhas								

No. I_contd

Primary. Re-vaccination. 17 18 19 20 21 22	in which	successful cases the results known,	Persons Successfully vaccinated per 1,000 of population.	Total cost of Vaccination Department	Number of all successful vaccinations performed by the vaccination staff only.	Average cost of each successful case performed by the vaccination staff.
No. Rs. a. p. N. Rs. a. p. N. N.	Primary.	Re-vaccination.	population.		stan omy.	stall.
99 78 20 39 31 42 9,910 99 799 10 38 34 64 19,452 99 799 17 90 32 76 16,666 99 78 21 71 41 66 19,338 99 78 18 792 29 079 12,748 99 88 9 724 30 794 10,416 10000 15 00 25 49 12,112 99 92 10 740 32 780 7,880 99 92 61 17 75 100 00 67 75 28 54 274 99 91 61 17 75 99 91 61 26 15,883 99 91 61 27 16,853 100 00 2500	17	18	19	20	21	22
9999 1033 $34'64$ $19,482$ 9999 1790 3276 $16,266$ 9978 $21'71$ $41'66$ $19,333$ 9988 924 $30'94$ $10,416$ 9988 924 $30'94$ $10,416$ 9979 $15'07$ $33'00$ 7.800 99792 $17'40$ $32'80$ $1,08.152$ 99791 $61'17$ 15.539 99791 $61'17$ 75 9974 $24'03$ 75 9974 $24'03$ $77'4$ 99791 $61'17$ $15,838$ 99'90 $19'17$ $45'06$ 4.615 99'30 $19'17$ $45'06$ 4.615 <tr< td=""><td></td><td>1</td><td></td><td>Rs. a. p.</td><td></td><td>Rs. a. p.</td></tr<>		1		Rs. a. p.		Rs. a. p.
9999 17.90 32.76 16.266 9978 21.71 41.66 19.338 9988 18.92 29.07 12.748 9988 924 30.94 10.416 9998 924 30.94 10.416 9998 924 30.94 10.416 9995 15.07 33.00 7.880 9992 17.40 32.80 $1.08.152$ 9991 61.17 15.539 9991 61.25 28.54 274 100'00 67.55 28.54 274 9991 34.48 60.26 15.88 100'00 19.17 48.96 4.615 100'00 19.75	99.88	20*39	31'42		9,910	
9978 2171 4166 $19,338$ 9988 $18'92$ $29'07$ $12,748$ 9988 $9'24$ $30'94$ $10,416$ 100'00 1500 $25'49$ $7,880$ 99'95 $15'07$ $33'00$ $7,880$ 99'92 $17'40$ $32'80$ $1,05,152$ 99'91 $61'17$ 75 99'91 $61'17$ 75 100'00 $67'55$ $28'54$ 274 99'91 $34'48$ $60'26$ $15,888$ 99'30 $19'17$ $48'06$ 4.615 $100'00$ $25'00$ $31'76$ 2122 $100'00$ $3'70$ $36'73$ 189 $100'00$ $11'55$ $54'88$ 360 <	99.99	10*38	34'64		19,492	
99 88 18 92 29 07 12.748 99 88 9'34 30'94 10.416 100'00 15 00 25'49 12.112 99'92 15'07 33'00 7.880 99'92 17'40 32'80 1,08,152 99'91 61'17 75 99'92 17'40 32'80 75 99'91 61'17 75 99'91 61'17 75 99'91 34'48 60'26 15,883 99'91 34'48 60'26 15,883 100'00 94'59 3'77 30'62 166 100'00 18'33 78 100'0	99-99	17.90	32-76		16,266	
99.85 9724 50.94 10.416 100'00 15:00 25:49 12,112 99.95 15:07 33:00 7,880 99.92 17:40 32:80 1,08,152 99.91 61:17 15,539 99.91 61:17 75 100'00 67:55 28:54 274 99.91 34:48 60:26 15,888 99.90 19:17 48:06 :4,615 100'00 94:59 37'97 122 99'30 19:17 48:06 :4,615 100'00 25:00 31:76 212 100'00 18:38 78 100'00 370	99-78	21.71	41.66	***	19,338	
10000 1500 2549 $12,112$ 9992 1740 3280 $1,08,152$ 9992 1740 3280 $1,08,152$ 9991 6117 $15,539$ 9744 2403 75 $100'00$ $67:55$ $28'54$ 274 $99'91$ $34'48$ $60'26$ $15,888$ $99'90$ $19'17$ $48'06$ 4.615 $99'30$ $19'17$ $48'06$ 4.615 $100'00$ $25'00$ $31'76$ 212 $99'46$ $3'57$ $30'62$ 186 $100'00$ $18'38$ 76 $100'00$ 370 $54'88$ 5632	99.88	18.92	29*07		12.748	
99:95 15:07 33:00 7,880 99:92 17:40 32:80 1,08,152 99:91 61:17 15,539 97:44 24:03 75 100:00 67:55 28:54 274 99:91 34:48 60:26 15,888 99:91 34:48 60:26 44.615 99:90 19:17 48:06 44.615 99:90 19:17 48:06 44.615 100:00 25:00 31:76 232 99:46 3:57 30:62 1866 100:00 3:70 36:73 189 100:00 11:55 54:88 360 100:00 19:61	99 88	9*24	30-94		10,416	
99.92 17.40 32.30 1,08,152 99.91 61.17 15,539 97.44 24.03 75 100.00 67.55 28.54 274 99.91 34.48 60.26 15,883 99.91 34.48 60.26 15,883 99.91 34.48 60.26 15,883 99.90 19.17 48.06 .4,615 100.00 25.00 31.76 212 99.46 3.57 30.62 186 100.00 3.70 36.73 189 100.00 3.70 36.73 18.9 100.00 11.55 54.58 360 100.00 19.61	100.00	15.00	25.49		12,112	
09991 $61'17$ $15,539$ $97'44$ $24'03$ 75 $100'00$ $67'55$ $28'54$ 274 $99'91$ $34'48$ $60'26$ $15,883$ $99'91$ $34'48$ $60'26$ 44.615 $99'30$ $19'17$ $48'06$ 44.615 $100'00$ $94'59$ $37'97$ 172 $100'00$ $25'00$ $31'76$ 212 $99'46$ $3'57$ $30'62$ 186 $100'00$ $18'38$ 78 $100'00$ $11'35$ $54'88$ 560 $100'00$ $19'61$ $100'79$ $5,832$ $100'00$ $18'77$ $83'21$ $1,700$ <td>99*95</td> <td>15.07</td> <td>33.00</td> <td></td> <td>7,880</td> <td></td>	99*95	15.07	33.00		7,880	
97'44 $24'03$ 75 $100'00$ $67'55$ $28'54$ 274 $99'91$ $34'48$ $60'26$ $15,883$ $99'30$ $19'17$ $48'06$ $44,615$ $99'30$ $19'17$ $48'06$ $44,615$ $100'00$ $94'59$ $37'97$ 172 $100'00$ $25'00$ $31'76$ 212 $99'46$ $3'57$ $30'62$ 186 $100'00$ $18'38$ 78 $100'00$ $3'70$ $36'73$ 189 $100'00$ $11'55$ $54'88$ 360 $99'45$ $19'17$ $44'90$ $5,832$ $100'00$ $19'61$ $100'79$ $1,296$ <td>99.92</td> <td>17'40</td> <td>32:80</td> <td></td> <td>1,08,152</td> <td></td>	99.92	17'40	32:80		1,08,152	
97'44 $24'03$ 75 $100'00$ $67'55$ $28'54$ 274 $99'91$ $34'48$ $60'26$ $15,888$ $99'30$ $19'17$ $48'06$ $4',615$ $99'30$ $19'17$ $48'06$ $4',615$ $100'00$ $94'59$ $37'97$ 172 $100'00$ $25'00$ $31'76$ 232 $99'46$ $3'57$ $30'62$ 1866 $100'00$ $18'38$ 78 $100'00$ $11'55$ $54'88$ 360 $100'00$ $19'61$ $100'79$ $1,296$ $100'00$ $18'77$ $83'21$ $1,700$ $100'00$ $18'77$ $83'21$ $1,70$	99-91		61.12		15,539	The second second
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	97.44	and the second second			75	
99·30 19·17 48·06 \cdot 4,615 100·00 94·59 37·97 172 100·00 25·00 31·76 232 99·46 3·57 30·62 186 100·00 18·38 78 100·00 18·38 78 100·00 3·70 36·73 189 100·00 11·55 54·88 360 99·45 19·17 44·90 5,832 100·00 19·61 100·79 1,296 100·00 18·77 83·21 1,700 100·00 20·93 68·47 263						
99·30 19·17 48·06 \cdot 4,615 100·00 94·59 37·97 172 100·00 25·00 31·76 232 99·46 3·57 30·62 186 100·00 18·38 78 100·00 18·38 78 100·00 3·70 36·73 189 100·00 11·55 54·88 360 99·45 19·17 44·90 5,832 100·00 19·61 100·79 1,296 100·00 18·77 83·21 1,700 100·00 20·93 68·47 263						
99'30 19'17 48'06 $\cdot 4,615$ 100'00 94'59 37'97 172 100'00 25'00 31'76 232 99'46 3'57 30'62 186 100'00 18'38 78 100'00 18'38 78 100'00 3'70 36'73 189 100'00 11'55 54'88 360 99'45 19'17 44'90 5,832 100'00 19'61 100'79 1,296 100'00 18'77 83'21 1,700 100'00 20'93 68'47 263 100'00 20'93 68'47 263	99'91	34*48	60.26		15,885	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00-30	10-17	10-06		4.615	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
99'46 3'57 30'62 186 100'00 18'38 78 100'00 3'70 36'73 189 100'00 11'55 54'88 360 99'45 19'17 44'90 5,832 100'00 19'61 100'79 1,296 100'00 18'77 83'21 1,700 100'00 18'77 83'21 1,700 100'00 20'93 68'47 263						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			- Carlos			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
99:45 19:17 44:90 5,832 100:00 19:61 100:79 1,296 100:00 6'82 53:35 404 100:00 18:77 83:21 1,700 100:00 20:93 68:47 263 100:00 4:44 68:53 625						•••
100*00 19*61 100*79 1,296 100*00 6*82 53*35 404 100*00 18*77 83*21 1,700 100*00 20*93 68*47 263 100*00 4/44 68*53 625	100'00	11.55	54.88		360	
100*00 19*61 100*79 1,296 100*00 6*82 53*35 404 100*00 18*77 83*21 1,700 100*00 20*93 68*47 263 100*00 4*44 68*53 625	99•45	19-17	44:90		5,832	
100/00 18.77 83.21 1,700 100/00 20.93 68.47 263 100/00 4.44 68.53 625 625	100.00	19*61	100-79		1,296	
100°00 20°93 68°47 263	100.00	6*82	53*35		404	
100.00 4:44 68:53 625	100.00	18.77	83-21		1,700	
100:00 4:44 68:53 625	100.00	20.93	68*47		263	
					-	
100-00 13-44 69-92 888						

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L (IV) 2015-19

146

STATEMENT

0.	s lans energy phores a firm from the second from the second fr	Distric	t or Towns,	times I vitames I vitames and set toto set set toto set set	Population according to census of 1931.	Average number of Vaccinators employed throughout the year.
r	12	2.5 2			3	4
-	.g .e .z 1	LARKANA COLLE	CTORATE.	1	-	N.M.
	Larkana			T. C	26,841	1
	Kambar			et al	9,717	1
	Ratodero	272.01		22.13	7,285	
	Hatodero				7,005	
		212,01		Total	43,843	2
		DADU COLLEG	TORATE.	09.20		
				of the last	1.1	
	Dadu			T.C	6,562	
1	Sehwan				4,107	
1	Kotri			. ,,	10,033	
	Manjhand			. ,,	2,746	
				Total	23,448	
				_		
		SURKUR COLL	ECTOBATE.			
	Sukkur			. T. C	69,277	1
	Shikarpur				62.505	1
	Rohri			,	16,900	1
	Garhi Yasin				6,925	
	Ghotki			,	4,638	
		111		Total	1,60,245	3
	Urr	BR SIND FRONTIE	R COLLECTORAT	E		
				-174	5755	
	Jacobabad	••• •••		. T. C	15,748	1
				mail		·
				Total	15,748	1
			T	otal, Towns	6,69,960	16
					0,09,900	10
	Inspector's cos	t	-	100		
		·	· · · · · · · · · · · · · · · · · · ·			
						-
				Total, Sind	38.87.070	82

41.11

No. I.__contd.

				1997			accination.		
т	otal numb	er of persons vaccinated.	-	Average number of vaccinated by each Vaccinator	Total.	Under	Successful. One and under	Total of	Unknowr
	Male.	Female.	Total.			year.	six years.	all ages.	
	5	6	7	8	9	10	II	12	13
							discourse 1		
P. R.	360 19	258 6	618 25	} 643	618	152	426	579	39
P R.	185 5	157 9	342 14	356	345	190	97	287	56
(P. (R.	153 65	126 8	279 73	}	279	229	34	264	15
{ P. K.	698 89	541 23	1,239 112	} 676	1,240	571	557	1,130	110
· D	102	02	100						
(P. (R.	103 85 75	93 3 68	196 89 143	§	196	76	106	185	11
(P. (R. (P.	6 116	4 107	145	\$	143	54	69	133	10
R. P.	584 17	157 16	74: 33	5	223	78	109	211	12
R.		15	59	<u>} </u>	33	13	13	28	5
{ P. R.	311 720	28 t 179	595 899		595	221	297	557	38
¢ .	973	878	1,851	2 1000	1.00	0.0.5			
R.	62 970	25 943	87 1,913	<pre>} 1,938 } 1,957</pre>	1,851	895 1,483	893 395	1,788 1,880	63
CR.	39 245	216 5	44 461	\$ 467	461	285	152	439	31
(R. (P. (R,	5 100	1 87	6 187	2	187	155	17	172	15
(R. (P.	4 19 10	1 14 3	5 33 13		33	17	11	28	5
(P. R.	2,307 120	2,138	4,445	} 1,533	4,445	2,835	1,468	4,307	135
{P. (R.	234 7	202 6	436 13	} 449	436	296	135	434	2
(P. (R.	234	202	4?6		436		135	434	2
ζR.	7	6	13	\$ 449	430			+5+	
{ P. R.	15,995 14,818	14,829 8,614	30,816 23,432	3,391	30,845	18,428	9,519	29,147	1,635
(P. R.	76.237 50,086	66.171 23.5.9	1,42,408 73,605	} 2,634	1,42,430	67,972	56,775	1,31,685	10,599

									1	Re-vaccination.	
			-								
No.	the loss		Dis	tricts o	r Tow	m.			Total.	Successful	Unknown.
I				2					14	15	16
										1	
		LARK	ANA CO	LLECT	ORATI	ĸ.					
	Larkana						т. с.		25		24
1	Kambar						"		14	4	1
	Ratodero								73	. 3	38
	and a						Total		112	7	63
		DAD	or Cor	LECTO	RATE.			Ì			
	Dadu						т. с.		89	9	37
	Sehwan								10	2	6
	Kotri								741	8	
	Manjhand								59	2	8
52							Total		899	21	51
		SUKKUP	COLL	ECTOR	ATE.						
									1		
	Sukkur		*** :				T. C.		87	18	59
	Shikarpur		•••						44	9	3
	Rohri								6		5
1	Garhi Yasin								5	1	
	Ghotki						"		13		13
122	744						Total		155		80
	UPPER	SIND	FROM	TIRE C	OLLEG	TOPAT	re.	ŀ			
	Jacobabad						т. с,		13	2	5
							Total		13	2	5
								ŀ			
	- WEEK					Tota	l, Towns		23,432	1,647	14,192
	Inspector's cost				•••			-			
	- second					To	otal, Sind		73,605	7,261	32,098

No. I-contd.

Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.	Total cost of Vaccination Department.	Number of all successful vaccinations performed by the vaccination staff only.	Average cost of each successful case performed by the vaccination staff.
Primary.	Re-vaccination.	population.		statt only.	stan.
17	18	19	20	21	22
			Rs. a p.		Rs. a. p.
100'00		21.57		579	
100.03	30.77	29,95		291	Canal Page
100.00	8.57	36,79		267	Berlinson.
100.09	14:30	25-93		1,137	anna ann ann
100*00	17:31	29*56		194	
100.00	50.00	22*87		135	
100.00	1.71	2.19		219	
100.00	3 92	10-92		30	
100.00	2:48	24*65		578	
100.00	64*29	26.07		1,806	
99.89	21-95	30.06		1,889	
99-77 100-00	20-00	25·98 24·12		439 173	
100.00		6.08		28	
99.93	37-33	21.44		4,335	
	1				
100.00	25'00	27.75		436	
100.00	25:00	27-75		436	
99.86	17-82	45:95		30,794	
99.91	17'49	35-75		1,38,946	

_							
No 1	District	s or Tor 2	vns.			Population according to census of 1931.	Average number of Vaccinators 'employed throughout the year.
1		4			1	,	4
	By Spe	CIAL ST	AFF.				
	Local Boards					33,27,741	66
	Municipalities					5,54,799	14
	Cantonments					4,530	2
				Total, Sind		38,87,070	82
	By Dispensary Staff						
	By Railway Staff						
	Private Medical Practitioners						
				Total		 1910	
			G	RAND TOTAL		38,87,070	82

+

No. I-contd.

						I	Primary V	accination.		
Т	otal numbe	er of persons nated.		Average number of				Successful.		
		100		vaccinated by each Vaccinator		Total.	Under	One and under	Total of all ages.	Unknown.
3	Male.	Female.	Total.				year.	six years.		
	5	6	7		8	9	10	II	12	13
								and all		
{ P. R.	60,242 35,268	51,342 14,905	1.11,584 50,173	3	2,451	1,11,585	49,544	47,256	1,02,538	8,964
{ P. (R.	15.912 14,633	14,750 8,569	30.662 23,202	3	3,847	30,683	18,339	9,470	29,007	1,614
{P. R.	83 1\$5	79 45	162 230	~ ,	196	162	89	49	140	21
{P. (R.	76,237 50,086	66,171 23,519	1,42,408 73,605	3	2,634	1,42,430	67,972	56,775	1,31,685	10,599
(P	137		151	-						
{ P. (R.	5,916	66	5,982	}		151	6	22	136	9
$\{ {}^{P.}_{R_{\star}}$	156 519	84 154	240 673	3		240	125	50	204	20
{P. {R.	218 472	189 205	407 677	3		407	35	53	105	302
{P. R.	511 6,907	287 425	798 7,332			798	166	125	445	331
{P. (R.	76,748 56,993	66.458 23.944	1.43.205 80,937		2,733	1,43,228	68,138	56,900	1,32,130	10,930

					Re	-vaccination.	
No.	Area of	Districts or T	'own.		Total.	Successful	Unknown.
I		2	-		14	15	16
		BY SPECIAL STAP					
	Local Boards	•			50,173	5,614	17,906
	Municipalities				23,202	1.540	14,190
	Cantonments				230	107	2
	le Senara		Total, S	Sind	73,605	7,261	32,098
	By Dispensary Stat	ı.			5,982	5,159	52
	By Railway Staff	ez h.t •			673	531	96
	Private Medical Pro	actitioners			677	28	556
	114		T	otal	7,332	5,718	704
	01 051 51,1		GRAND TO	TAL	80.937	12,979	32,802

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No.-contd.

Percentage of successful cases in which the results were known.		Persons successfully vaccinated per	Total cost of Vaccination	Number of all successful vaccinations performed by	Average cost of each successful case performed
Primary.	Re-vaccination.	1,000 of popula- tion.	Department.	the vaccination staff only,	by the vaccination staff.
17	18	19	20	21	22
			Rs. a. p.		Rs. a. p.
99.92	17.40	32-50		1.08,152	
99.86	17.09	55-06		30,547	
99'29	46.93	54.75		247	
99-91	17-49	35.75		1,38,946	
95-77	87.00			5,295	
9 2*7 3	92:03			735	
100*00	23.14			133	
95-29	86*27			6,163	
99.89	26.96	37:33		1,45,109	

1

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STATEMENT NO. I.-contd.

Summary.

				Total number of persons vaccinated. Total number of operations perform					
			Primary.	Re-vaccina- tion,	Primary.	Re-vac- cination,	Primary.	Re-vac- cination.	
By Special S	Staff .								
Districts exc	luding town		1,11,584	50,173	1,11,585	50,173	99.92	17.40	
Towns '			30,662	23,202	3 0,683	23,203	99.86	17.09	
Cantonments	•		162	230	162	230	99:29	46.93	
		Total	1,42,408	73,605	1,42,430	73,605	99.91	17.49	
	number of ccinated by ccinator.	Number of successfully	f children vaccinated.	successful vaccinations	Total cos	0	mber f all cessful	erage cost	
Vaccinators employed.	Persons vaccinated by each vaccinator.	Under one year.	One and under six years.	per 1,000 of population.	departm	ent. vacci	nations s	case.	
					Rs. a	. p.		Rs, a. p. 	
66	2,451	49,544	47,256	32'80		1.0	08,152		
14	3,847	18.339	9,470	55'06		1	30,547		
2	196	89	49	54.75			247		
82	2,634	67,972	56,775	35.75		1.3	18,946		

STATEMENT NO. I.-concld.

Summary.

		165	125				6,163			
/	and the second se	125	50				735			
		35	53				133			
		6	22		Rs	a. p.	5,295	Rs. a. 1		
Vaccinators employed.	Persons vaccinated by each vaccinator.	Under one year.	One and under six years,	per 1,000 of population.	Depart	ment.	nations performed.	successful case,		
Average n persons vac each vac	umber of ccinated by ccinator.	Number o successfu nat	f children lly vacci- ed.	Ratio of successful vaccinations	Total co Departs		Number of all success- ful vacci-	Average cost of each		
	Gr	and Total	143,206	80,937	143,228	80,9	99-8	26.96		
		Total	798	7,332	798	7,3	32 95.29	86.27		
By Railway I	Dispensaries		240	673	240	6	73 92.73	92-03		
By private Medical Practitioners			407	677	407	6	77 100.00	23.14		
By Dispensar	y Staff		151	5,982	151	5,9	82 95.77	87*00		
			Primary.	Re-vacci- nation.	Primary.	Re-vace nation.		Re vacci- nation.		
				number of vaccinated,	Total nu operations		d. in who	Percentage of successful cases in which results were known.		

APPENDIX

Vaccination

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

								PERSONS 1	BIMARIL
Establishment ^{s.}	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
real library	TTD-				3			Yea	RS ENDED
	1930	-31.	193	1-32.	1932	33.	1933	-34.	1934-
Government									
Municipality	16,384	14,174	18,431	15,463	21,469	17,558	19,004	15,180	21,334
Local Funds	82,644	78,096	87,024	80,316	94,804	89,650	88,707	83,569	90,698
Cantonment	84	83	118	116	91	91	62	62	139
Native States	5,065	4,928	5,649	5,502	6,352	6,215	6,579	6,459	6,406
Dispensaries	1,218	965	771	606	1.747	t ,398	841	620	334
Army									
Europeans									
Natives							•		
Total	1,50,395	98,246	1,11.993	1,02,003	1,24,463	1.14.912	1,15,193	1.05.890	1,18,911

No. IV.-concld.

Return.

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

Number success-	Total	Numbe								
fully vacci- nated,	Number.	fully vacci- nated.	Number.	fully vacci- nated.	Number.	fully vacci- nated.	Number.	fully vacci- nated.	Number	fully vacci- nated.
ON 31ST 1	MARCH.									
5.	1935	i-36.	1936	-37.	1937	-38.	1938	3-39.	1939-	40.
17,791	22,395	18,926	22,986	20,775	30,684	28,699	27,395	26,228	30,662	29,007
84,656	96,412	89,768	1,00,045	93,120	1,07,655	99,071	1,08,846	1,00,218	1,11,584	1,02,53
139	60	60	131	121	198	161	226	221	162	140
6,257							***			
276	521	455	499	461	683	510	494	425	798	445
1,09,119	1,19,388	1.09.209	1.23.661	1.14.477	1.39.220	1,28,441	1,36,961	1.27.092	1,43,205	1 92 130

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* . . water, twomans /c.b. and the attention streaking in-atca

