Annual report on the public health in Sind.

Contributors

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For the year 1940.



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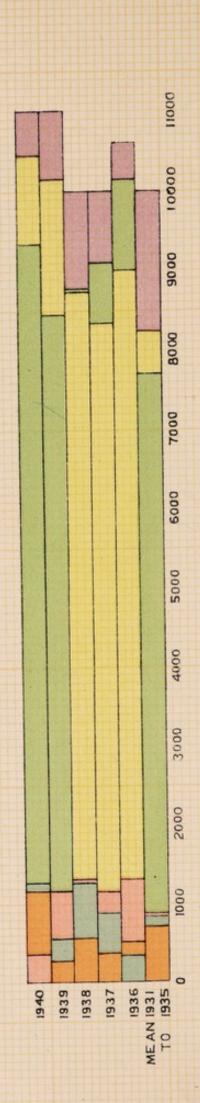
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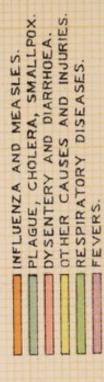
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6.P.Z. P. POONA, 1842.

DEATHS IN 1940 AND PREVIOUS YEARS





Annual Report on Public Health for 1940. CHAPTER I.

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

1. Rainfall .-

- (a) Cold Weather Period (January and February).—The total rainfall over Sind for the months of January and February was in large excess. The cloud amount was normal. Humidity was in excess. The temperatures were generally above normal.
- (b) Hot weather Period (March-May).—The rainfall was in large excess in March, in large defect in April and in moderate excess in May. Taking the hot weather period as a whole, the rainfall was in moderate excess. Cloud amount was in excess. The maximum temperature was below normal in March and the minimum was below normal in April.
- (c) South West Monsoon Period (June-September).— Taking the whole period the rainfall was in slight defect. The maximum temperature was in defect in June. The humidity and cloud amount were normal.
- (d) Retreating Monsoon Period (October-December).— Temperatures were above normal during the whole period. Humidity and cloud amounts were normal. The total rainfall during the year was 5.95" and was 4 per cent. below the average*.
- 2. Economic Conditions.—The economic conditions in the province differ in respect of each district. The prices of agricultural produce had risen, but this rise was not commensurate with the rise in the prices of manufactured articles. The conditions of the agricultural classes therefore may not have improved appreciably. The wage earners had also been affected as there had been practically no rise in wages to compensate for the rise in prices of the essential commodities.

On account of war, the maritime and inland trade having been affected, the mercantile community had on the whole been hit hard. The slump in trade had also reacted unfavourably on the employment problem with the result that there had been acute distress among the educated and uneducated unemployed. In Karachi the construction of many works by the Military, however, helped the labouring classes.

The Collector of Sukkur remarks that communal disturbances over-shadowed the whole of the district and this naturally had some effect on the economic condition of the agriculturists.

The following is the summary of Famine Conditions in the Desert Tract during the year 1940:—

The crops grown on the rains of 1940 failed except in a few scattered makans in which too they had been very much below the normal. The small villages and hamlets were generally deserted and the people migrated to Sind where they could find labour for their support.

Most of the bovine cattle died in 1939. It is not possible to give accurate figures of mortality but according to the cattle census of January, 1940, 62 per cent. died in taluka Mithi, 18 per cent. in Diplo, 12 per cent. in Nagar Parkar and 56 per cent. in taluka Chachro on account of starvation. The following measures of relief were continued during the year:—

- (1) Cheap grain shops.—23 cheap grain shops were opened. Rs. 33,000 were invested in these. The grain was purchased by the Mukhtiarkars and sold at annas 0-4-0 per maund below the market rate. The total loss incurred on this concern was about Rs. 17,000.
- (2) Provision of labour.—Before setting in of the monsoon 150 tarais were excavated at a cost of Rs. 40,000. About 3,000 labourers were working per day.
- (3) Free cash doles.—The old and infirm, the females and children who were unable to work or had no one to support them were put on the free doles at a total cost of Rs. 10,000. About 1,300 persons were put on this free dole.
- (4) Taccavi Advances.—Taccavi was distributed freely for maintenance and purchase of grain at the Government shops. The amount given for maintenance was Rs. 50,000. In addition, Rs. 1,00,000 were given for the purchase of seed and cattle for cultivation purposes. The crop having failed, the repayment of the loans had been postponed to the next year.

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 II to this Report.
- 2. Emigration and Immigration.— Skilled workers emigrated from the port of Karachi mainly to Iran, Baherin, Iraq, Ceylon, America, Africa, Strait Settlements, Japan and China. Due to International situation emigration was for a period reduced, but later almost normal conditions prevailed.

The bulk of emigrants registered at the port of Karachi, was recruited by Sind Works Merchants and were mainly drawn from Sind. They proceeded abroad under agreements approved by Government. The minimum pay permitted must not be less than Rs. 30 but the maximum is sometimes as much as Rs. 400.

The health of the emigrants proceeding abroad and those who returned was, it is stated, generally good. The number of emigrants registered at the port of Karachi was 419 in 1940.

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, Department of Education, Health and Lands, letter No. F.-96-43/32-H., dated the 15th August 1932, the estimated population for the year 1939 for the province by Collectorates and the birth and death rates calculated thereon are shown in the following table:—

Name of Collectorate.	Cen us population 1921.	Census population 1931.	Estimated population 1940 (mid year).	Birth rate based on population of 1931.	Brith rate based on estimated population 1940 (mid year).	Death rate based on population of 1931.	Death rate based on estimated population 1940 (mid year).
1	2	3	4	5	6	7	8
Karachi		5,79,432		33.47		17 - 27	
Dadu		3,34,282		20-18		10 - 52	
Larkana	**	4,52,141		22.36		14.94	
Upper Sind Frontier.		2,60,326		13-03		8.73	
Hyderabad	5,73,540	6,61,776	7,44,208	13-95	12.54	12.68	11-28
Nawabshah	4,18,660	4,96,612	5,69,365	19.65	17-14	12-50	10-89
Thar Parkar ⊷	3,96,331	4,68,040	5,34,969	17.81	15 - 58	16.70	14-61
Sukkur	5,10,292	6,23.779	7,29,703	24 · 26	20.7	13-44	11-49
1			40				19,01
Sind Total	32,79,377	38,76,388	44,33,597	16		13 - 77	12.03

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

The birth and death rates on the estimated population for the year 1940 (mid-year) were 18.49 and 12.03 as compared with 18.52 and 10.23 respectively, in the year 1939.

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.—The number of live births recorded in the Province during the year was 81,992 as against 80,946 in 1939 indicating an increase of 1,046. Compared with the recorded birth in 1938 (77,269) the figures for the year under report show an appreciable rise of 4,723.

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

		Years.		Number of births.	Birth rate.
1901-10 (M	Iean)		 	66,578	20.77
1911-20 (,,)		 	71,306	20.33
1921-30 (,,)		 	73,693	22.57
1931			 	88,261	22.77
1932			 	77,976	20.11
1933			 	77,789	20.07
1934			 	75,729	19.53
1935			 	78,843	20.33
1936			 	79,536	20.52
1937			 	77,389	19.96
1938			 	77,269	19.93
1939			 	80,946	20.88
1940		8	 	81,992	21.55

3. Provincial birth-rate compared with birth-rates of other provinces.—The birth rate of Sind compared with that of the other provinces in India is shown in the following table:—

P	1939.	1940.			
Madras				38.53	38.65
Bengal				33.02	33.70
Assam				29.92	28.21
Bihar				33.30	30.80
Orissa				34.92	35.85
United Provinces	mis. 2	i diam		36.26	34.78
Punjab				40.82	40.62
Central Provinces				38-28	37.58
Bombay				42.22	42.07
North-West Frontier				30.35	29.87
Sind				20.88	21 - 15

As usual the birth rate in the Province was low as compared with that in other provinces.

4. Birth-rates in Collectorates.—The highest birth-rate was recorded in Karachi district (33.47). This is usual as such a high rate is due to the inclusion of the figures for the City of Karachi. The lowest birth-rate was recorded in Upper Sind Frontier district (13.03) as was the case in the previous year. Of the remaining districts, three 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 rate in Collectorates are shown in Annual Form No. 1, Appendix III to this Report.

5. Birth-rates in rural areas.—The birth rate in rural areas was 16.65 as compared with 16.61 in the previous year. The registered live births during the years 1940 and 1939 were 53,108 and 52,994 respectively.

Of the 61 talukas and mahals, one returned a birth rate of between 30 and 40 per mille of population, 19 between 20 and 30, 14 between 15 and 20, 20 between 10 and 15 and the remaining 7 under 10. The highest rate was recorded in Kakar taluka in Dadu District (32.15) and the next in order was Jamesabad taluka in Thar Parkar District (26.99). The lowest birth-rate was record-

ed in Tatta taiuka in Karachi District (5.85) as was the case in the past two years.

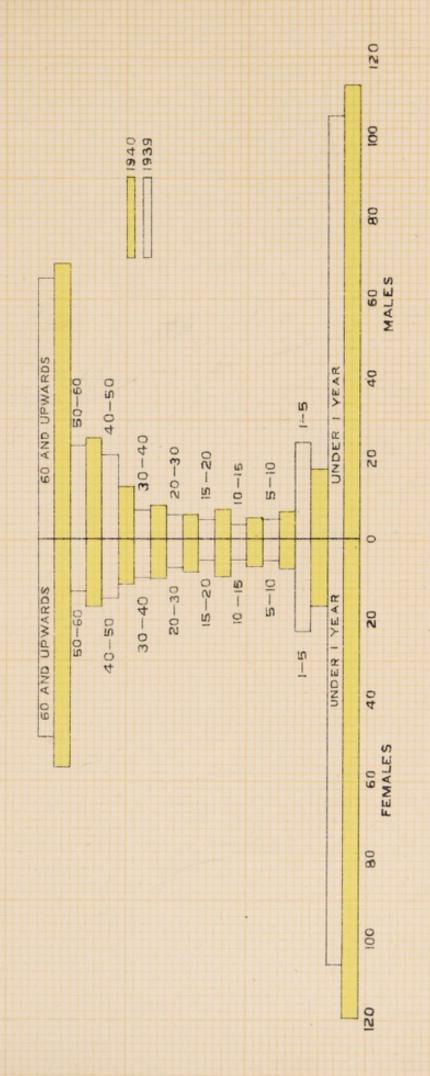
- 6. Births and birth-rates in urban areas.—The number of births recorded during the year was 28,884 as against 27,952 in the previous year. The corresponding birth-rates were 42.16 and 40.79 respectively.
- 7. Births and birth-rates in Karachi City.—15,246 births were recorded in the City of Karachi as against 14,578 in the previous year, indicating the birth rates of 61.52 and 58.83 respectively.
- 8. Births and birth rates in Cantonments.—The number of births and the birth-rates during the year under report compared with the previous year are shown in the following table:—

0-1			19	40.	1939.		
Cantonment.		Number of births.	Birth-rate.	Numbor of births.	Birth-rate,		
Karachi			422	67.63	373	59.77	
Drigh Road			15	7.50	29	14.50	
Hyderabad			41	9.05	53	11.70	

- 9. Births according to sex.—The number of male and female births was 45,629 and 36,363 respectively. The number of males born to every 100 females born was 125.48 as compared with 125.76 in 1939.
- 10. Still births.—The number of still births registered was 1,157 as against 1,033 in the previous year, the percentage to live births being 1.41 and 1.28 respectively. The percentages varied from 0.06 in Thar Parkar District to 2.75 in Karachi district. Distribution of still births by class, sex and collectorates is shown in Annual Form No. I-A (Appendix III).
- vere detected during the year under report. These omissions were brought to the notice of the Revenue Officers and the Municipal authorities concerned for necessary action.
- 12. Deaths.—There was a marked increase in the number of recorded deaths which rose from 44,779 in 1939 to 53,360 in 1940, giving the death-rates of 11.55 and 13.77 respectively. The average number of deaths during the five years ending 1939 was 47,079 or a mean ratio of 12.15 (Graph No. I).

S. P. E. P. POONA, 1942.

DEATH RATE AT EACH AGE PERIOD 1940



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

	Year.		Deaths.	Death-rate.
1901-10 (Mean)		12	 68,335	21.62
1911-20 (,,)	3.7.	1	 94,320	26.89
1921-30 (,,)			 56,174	17.23
1931		1.00	 46,714	12.05
1932	1 1 1.	10	 59,067	15.23
1933	Mys.		 54,239	13.99
1934	1.	,	 48,489	12.51
1935	1 4.		 47,249	12.19
1936			 48,425	12.49
1937			 46,860	12.09
1938	Z		 48,085	12.40
1939		***	 44.779	11.55
1940		**	 53,360	13.77

13. Death-rate as compared with those in other provinces.—
The death-rate of Sind compared with those in other provinces in India, is shown in the following table:—

	Province.		en h	1939.	1940.
Madras	obuon s			25.26	24.96
Bengal				21.85	22.26
Assam				22.42	17.20
Bihar				23.00	19.10
Orissa	ditali on			28 · 18	24.72
Punjab				20.15	23.70
Central Provinces	Tables on			31.07	30.30
United Provinces		Pp	die sales	23.09	21.78
Bombay	edi ai ti	r. de la	2.	27.55	27.91
North-West Frontie	er	eies.		18.74	21.60
Sind				11.55	13.77

14. Death-rate in Collectorates.—The following table shows the death-rates recorded in Collectorates during 1939 and 1940 compared with the quinquennial mean:—

Collec	torates.	Ì	Death-rate. 1939.	Death-rate 1940.	Quinquennial mean.
Karachi			16.05	17.27	16.53
Hyderabad			11.08	12.68	11.82
Nawabshah			9.08	12.50	9.90
Thar Parkar			14.11	16.70	12.71
Larkana			10.97	14.94	11.67
Dadu	**		9.29	10.52	9.98
Sukkur			11.52	13.44	13.29
Upper Sind Fro	ntier		6.86	8.73	7.73
	Total		11.55	13.77	12.15

15. Death-rates in rural areas.—The recorded death-rate for rural areas was 11.54 as compared with 9.72 in the preceding year.

Of the 61 talukas and mahals 3 recorded a death-rate of between 20 and 30 per mille of population, 35 between 10 and 20 and the remaining 23 below 10. The highest death-rate was recorded in Chachro taluka in Thar Parkar District (22.57) as was the case in the previous year (19.14) and the lowest in taluka Kandhkot in Upper Sind Frontier District (4.99).

- 16. Death-rates in urban areas.—The recorded death-rate in urban areas was 24.12 as against 20.11 in the previous year. Of the 26 town registration circles, one recorded a death-rate of 45.14 per mille of population, 4 between 30 and 40, 5 between 20 and 30, and the rest below 20.
- 17. Death-rates in Cantonments.—The death-rates recorded in the Cantonments were:—

Karachi 19.87; Drigh Road 3.00 and Hyderabad 3.09.

- 18. Excess of births over deaths.—The excess of births over deaths was 28,632 as compared with 36,167 in the previous year.
- 19. Deaths according to sex.—During the year under report the male and female deaths were 29,618 and 23,742 respectively and the corresponding male and female death-rates were 13.63 and

13.94. In the year 1939, the number of deaths recorded among males and females was 25,394 and 19,385 showing the respective death-rates of 11.69 and 11.38. The number of deaths of males to every 100 deaths of females was 124.74 as compared with 131.00 in the previous year.

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

21. Deaths according to causes compared with previous years. These are shown in the following table:—

Canaaa	of death		19	39.	19	40.	Mean of	5 years.
Causes	of death.		Deaths.	Death- rate.	Deaths.	Death- rate.	Deaths.	Death- rate.
Cholera			3	0.0008	227	0.06	80	0.02
Small-pox			565	0.15	1,008	0.26	637	0.16
Plague							4	0.001
Fevers			23,973	6.18	29,260	7.55	27,149	7.01
Dysentery rhœa.	and	Diar-	1,150	0.30	1,131	0.29	1,172	0.30
Respiratory	Diseases.		8,444	2.18	9,320	2.40	9,036	2.33
Injuries	3	٠.,	966	0.25	768	0.20	872	0.22
Other Caus	es		9,678	2.49	11,646	3.01	8,130	2.10
	Total	ш.,	44,779	11.55	53,360	13.77	40,079	12.15

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, small-pox and plague are shown in Chart No. VII.

22. Infant mortality.—The number of deaths among infants under one year of age was 9,478 as against 8,560 in the previous year. The respective infant mortality rates were 115.70 and 105.75. The male and female infant mortality rates were 112.27 and 120.01 respectively as compared with 105.30 and 106.32 respectively in the previous year. The distribution of deaths among the various age groups under one year and the percentage compared with the

L (iv) 1668-2

corresponding figures of the previous year are shown in the following table:-

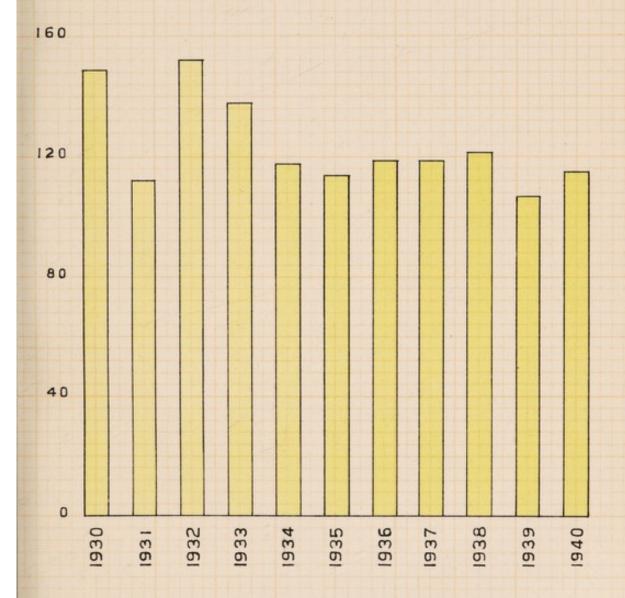
		19	39.	1940.		
Age groups.	Total deaths.	Percentage.	Total. deaths.	Percentage.		
Under I week		1,784	20.84	1,769	18-65	
I week to I month		1,560	18.22	1,552	16.38	
I to 6 months		3,217	37.58	3,487	36.78	
6 to 12 months		1,999	23.35	2,679	28.24	

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

P	rovince.		1939.	1940.
Madras	·	 .:	175.50	168.66
Bengal		 	146.65	159.28
United Provinces		 	139-45	135.34
Punjab		 	167.57	178-22
Central Provinces		 	218-62	226.07
Bombay		 	152.70	169.36
Bihar		 	155.30	150.60
Orisas		 	197-41	183.09
Assam		 	167-64	141.75
North-West Frontier		 	130.52	144-17
Sind		 	105.75	115.70

24. Infant mortality in urban and rural areas.—The infant mortality rates per 1,000 registered births for urban and rural areas were 155.73 and 93.94 respectively as against 138.59 and 88.25 in the previous year. The infant mortality rate during the year under report compared with that of the previous years is

CHART III SHOWING INFANT MORTALITY RATE IN THE PROVINCE OF SIND FROM 1930 TO 1940.



Year.		Deaths	under 12	months.	Birt	Births registered.			Infant death-rate per			
		Male.	Female.	Total.	Male.	Female.	Total.	Male.	Femlae.	Total.	deaths.	
1940		5,123	4.364	9,487	45,629	36,363	81,992	112.27	120.01	115.70	177.79	
1939		4,748	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	43,445	33,824	77,269	119.48	123 -70	121.33	192.88	
1937		5,024	4.110	9,134	43,098	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	111.69	115.54	113 -01	189-21	
1934		4.776	3,984	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	48,800	39,461	88,261	110-27	113.43	111.68	211.01	
1930		5,664	4,690	10,354	38,374	30,892	69,266	147-60	151-82	149 .48	176-24	
1929		8,889	7.897	16,786	44.744	35.394	80,138	198-66	223-12	209 -46	295.49	
1928		6,411	5,144	11.555	44.968	35,354	80,322	142 -57	145.49	143 -85	212.76	

High infant mortality rates were decorded in the following urban areas:—

Tando Mahomed	Khan	 	465.75
Nasarpur		 	323.53
Nawabshah		 	317.90
Ghotki		 	316.08
Hyderabad		 	259.07
Ratodero		 	213.67

Among rural circles, the highest infant mortality rate was recorded in Hyderabad District (115.22) and the lowest in Dadu district (66.77).

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

25. SUMMARY OF VITAL STATISTICS OF THE CHIEF TOWNS.

Karachi City.—Population 247,791 (1931 census). The number of births recorded in the City of Karachi increased from 14,578 in 1939 to 15,246 in 1940. The birth-rate during the year under report was 61.52 as against 58.83 in the previous year.

There was an increase of 676 in the recorded deaths. The total deaths numbered 6,923 as against 6,247 in the preceding year showing the death-rates of 27.94 and 25.21 respectively. The infant mortality rate was 136.75 as compared with 135.68 in the previous year.

Hyderabad town.—Population 96,021 (1931 Census). The registered births numbered 3,806 giving a birth-rate of 39.64 as compared with 4,035 and 42.03 respectively in 1939. The number of deaths during the year under report was 3,175 or a death-rate of 33.06 as against 2,544 deaths or a death-rate of 26.49 in the previous year. The infant mortality rates during the years 1940 and 1939 were 259.07 and 182.40 respectively.

Sukkur town.—Population 69,277 (1931 Census). Total births recorded were 2,678 giving a birth-rate of 38.65 as compared with 2,590 births and a birth-rate of 37.39 in the previous year. The number of deaths registered was 954 corresponding to a death-rate of 13.77 as against 847 deaths and a death-rate of 12.24. The infant mortality rate was 91.49 as compared with 71.43 in the previous year.

Shikarpur town.—Population 62,505 (1931 Census). 2,052 births giving a birth-rate of 32.82 were recorded during the year under report compared with 2,179 births and a birth-rate of 34.86 in the previous year. The number of deaths registered was 1,629 as against 1,369 in 1939. The death-rates for the years 1940 and 1939 were 26.06 and 21.90. The infant mortality rate was 198.83 as against 179.90 in the previous year.

Larkana town.—Population 26,841 (1931 Census). The registered births numbered 934 being equivalent to a birth-rate of 34.80 as compared with 926 births and a birth-rate of 34.50 in the previous year. The number of deaths was 532 or a death-rate of 19.82 as against 439 or a death-rate of 16.36 in the past year. The infant mortality rate was 111.35 as compared with 105.83 in the previous year.

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

naona ligura	Cholera.				Small-pox.				Fevers.			
Name of the town.	1940.		1939.		1940.		1939.		1940.		1939.	
	No. of deaths.	Death rate.										
Karachi	- 29	0.12			21	0 -08	12	0.05	316	1 -28	179	0.73
Hyderabad	1	0.01			304	3 - 17	34	0.35	296	3 -08	401	4.17
Sukkur									118	I .70	118	I -70
Shikarpur									984	15.74	532	8-50
Larkana									249	9 -28	166	6.19

		Dyse	ntery an	d Dian	rhoea.	R	Respiratory Diseasse.				All other causes.			
Name of the town.		1940.		1939.		1940.		1939.		1940.		1939.		
		No. of deaths.	Death- rate.	No. of deaths.	Death-	No. of deaths.	Death-	No. of deaths.	Death-	No. of deaths.	Death-	No. of deaths.	Death-	
Karachi		597	2.41	628	2.53	2,957	11.93	2,664	10.75	2,921	11.79	2,651	10.70	
Hyderabad		92	0.95	61	0.64	1,230	12.81	697	7.26	1,204	12.54	1,297	13.51	
Sukkur		144	2.08	197	2.85	342	4.94	255	3.68	335	4 .83	243	3.51	
Shikarpur		24	0.38	17	0 .27	±75	2.80	166	2.67	431	6.90	613	9.80	
Larkana		9	0.34	10	0.37	78	2.90	94	3 .50	192	7 .15	165	6.15	

26. Vital Statistics—General Remarks.—The Public Health Commissioner with the Government of India, in his report for the year 1938, makes the following remarks:—

"Inaccuracy of registration is mainly responsible for the low rate of 18 per mille (Sind). In the first place birth rates well over 40 per mille have been recorded, as may be seen from this table, in the Punjab and Delhi. Secondly careful investigations carried out in Madras Presidency have shown that the average rate for the Province is in the neighbourhood of 42 per mille. It is therefore almost certain that defective registration is responsible for the low rate recorded in Sind. In this Province, since its creation in 1936, the birth rates were 19, 18 and 18 per mille for the successive years 1936, 1937 and 1938. This question deserves therefore careful investigation by the health authorities of that Province."

In the absence of an adequate public health staff in rural areas, the question of making improvements in the registration of vital statistics presents difficulties. A scheme in this respect has been submitted to the Government which is receiving their attention.

Every affort is being made to impress upon Municipalities the importance of improving the registration of vital statistics. As it would not be possible for the small Municipalities to appoint medical registrars of births and deaths, a simple suggestion has been made to some of the Municipalities. Acording to this, the appointment of a 'Registration Karkoon' is contemplated. The suggestion has been accepted by three Municipalities, viz., Tando Adam, Kambar and Jacobabad. Marked improvement has been

noticed in the recorded number of births in these towns compared with the previous year as can be seen from the following:—

Name of the	Date of appoint	Number oi births.			
Municipality.	' Registration	Karkoon '		1939.	1940.
Tando Adam	 July 1940			276	591
Kamba	 October 1940			218	288
Jacobabad	 November 1940			164	234

CHAPTER III.

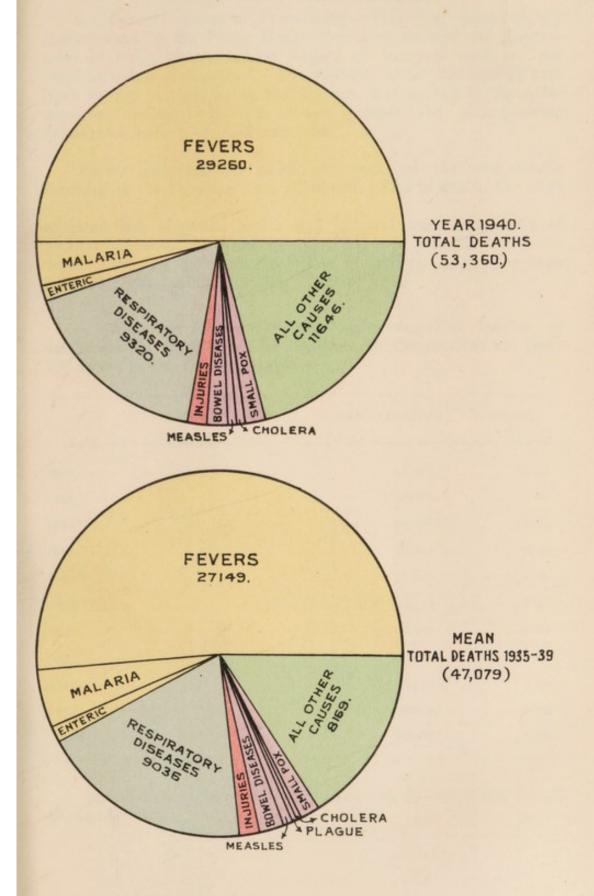
THE STATE OF PUBLIC HEALTH IN THE PROVINCE AND HISTORY OF CHIEF DISEASES.

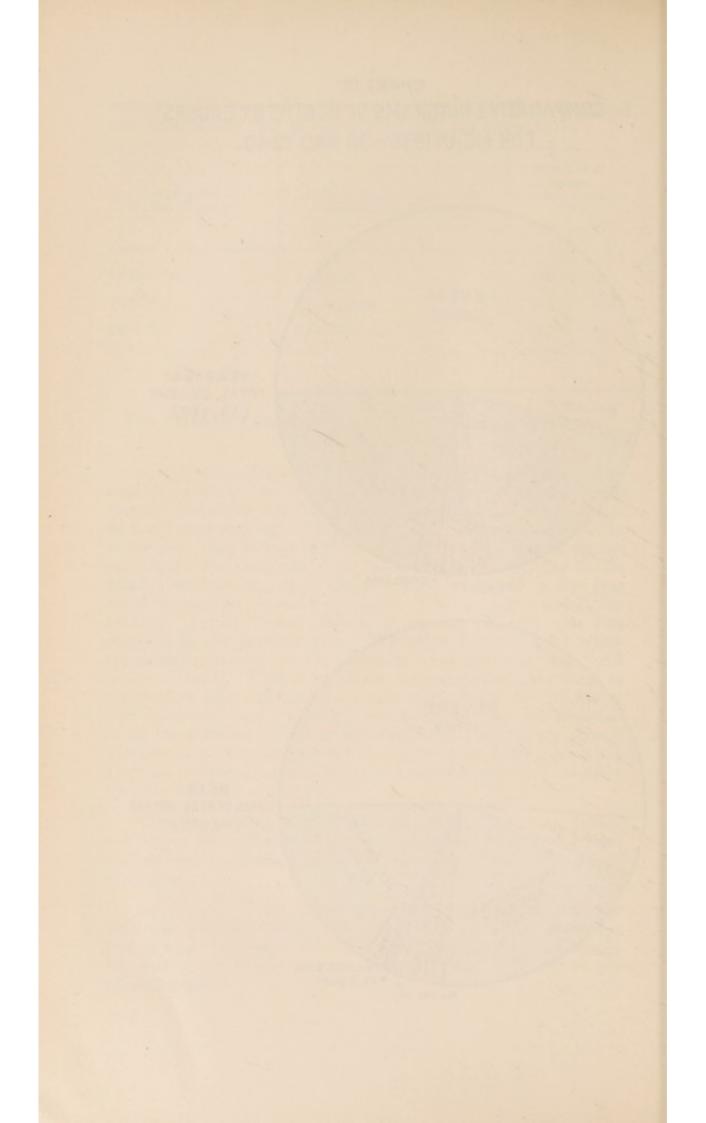
1. General Remarks on the Health of the Province .- The state of health in the Province during the year 1940 does not compare favourably with that of 1939, the number of births recorded was 81,992 showing an increase of 1,046 over the recorded births in the year 1939 and an increase of 4,723 over the figures for the year 1938. But there was a rise in the number of recorded deaths which rose from 44,779 in the year 1939 to 53,360 in the year 1940, showing an increase of 8,581. The mortality under the heading "Fevers" alone showed an increase of 5,287 over that recorded in the previous year. The other heading under which appreciable increase in the mortality was recorded, was "All Other Causes ". 1,968 more deaths were registered than those in the previous year. Except in the case of deaths due to 'Dysentery and Diarrhoea' and 'Injuries' increased mortality was recorded in all the principal groups under which vital statistics are shown. The death-rate for the Province during the year under report was 13.77 as compared with 11.55 in the previous year and 12.15 in the past five years ending 1939.

Cholera prevailed in all districts except the districts of Sukkur and Upper Sind Frontier. 354 cases of, and 227 deaths from cholera were reported as against 6 cases and 3 deaths in the previous year.

All districts in the Province were affected by small-pox, the most affected being Hyderabad where out of 1,253 cases 432 proved fatal. The total number of deaths in the Province during the year under review was 1,008 as compared with 565 in the preceding year.

CHART IX COMPARATIVE DIAGRAMS OF DEATHS BY CAUSES FOR MEAN 1935 – 38 AND 1940.





- 2 deaths from Influenza were reported as against 3 deaths in the previous year.
- 2. Fevers. (General Prevalence).—This has been rightly characterised by the Public Health Commissioner with the Government of India, in his Annual Report for the year 1938 as 'the omnibus group of diseases'. The mortality under the heading rose from 23,973 in 1939 to 29,260 in 1940, and 27,149 in the quinquennium ending 1939. For these periods the corresponding death-rates were 7.55, 6.18 and 7.01.

Fevers accounted for 54.46 per cent. of the total deaths recorded in the Province from all causes. This is due to the often

repeated lack of public health staff in rural areas. Incidence of malaria has increased in the Province and it is probable that many deaths that may have occurred due to malaria may have been included under the main heading 'Fevers'.

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.		Num	aber of deaths.	Death-rate.
1930	 			42,426	13.01
1931]	31,080	8.02
1932	 		10	39,728	10.25
1933	 	***		35,742	9.22
1934		(16)	21.	32,147	8.29
935	 1994. 1999			28,713	7.41
1936	 /		1.1	27,679	7.14
1937	 		40	27,410	7.07
1938	 			27,970	7.22
1939				23,973	6.18
1940	 			29,260	7.55

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

4. Death-rates from fevers in Collectorates :-

	Со	llectorate		Death-rate in 1939.	Death-rate in 1940.
Karachi			man. 49	 2-90	2.90
Hyderabad				 5.04	5.27
Nawabshah				 6.59	8.60
Thar Parkar				 8.27	10.92
Larkana				 8.31	11.21
Dadu				 6.80	7.26
Sukkur				 6.88	8.49
Upper Sind	Frontier		1.7	 5.72	7.27

5. Death rates from fevers in urban and rural areas.—The urban and rural rates for fevers were 5.37 and 8.02 as compared with 3.66 and 6.73 respectively in the year 1939. The highest death-rate was recorded in Ratodero town, Larkana district (30.47). This was followed by Nawabshah town in the Nawabshah district (28.48). High death-rates were recorded in Ghotki town in Sukkur district (26.52), Garhi Yasin town, Sukkur district (17.24) and Shikarpur town in Sukkur district (15.74).

Among rural areas Chachro in Thar Parkar district recorded the highest death-rate (16.39) as was also the case in the previous year (13.43). High death-rates were recorded in the following rural areas:—

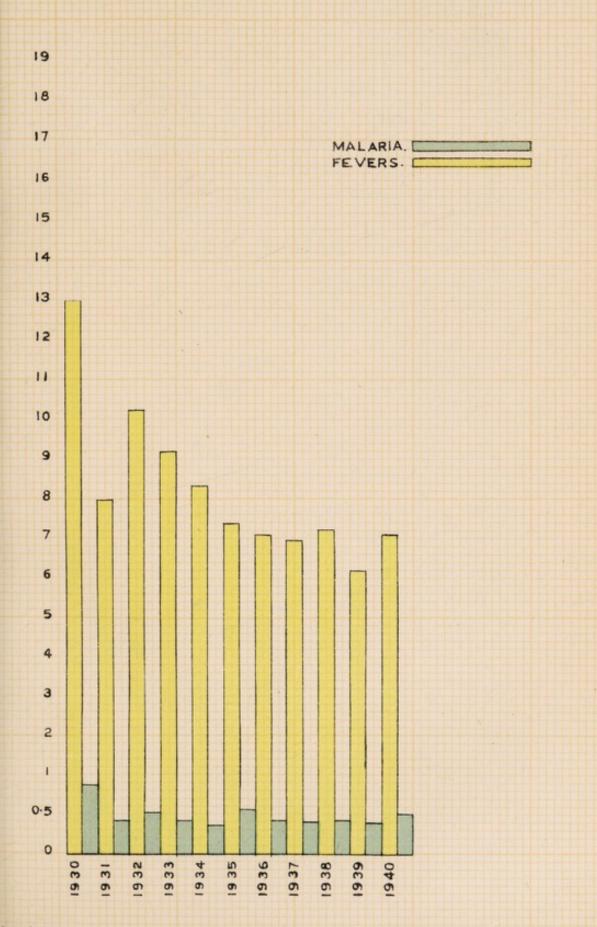
Shahdadkot (Larkana district)	 15.43
Jamesabad (Thar Parkar district)	 15.25
Mithi (Thar Parkar district)	 14.09
Digri (Thar Parkar district)	 13.31

The lowest rates were recorded in Keti Bunder (2.44) and Tatta (2.58) in Karachi district.

- 6. Enteric Fever.—The number of deaths due to enteric fever rose from 312 in 1939 to 486 in 1940. The respective death-rates for the year 1939 and 1940 were 0.08 and 0.12 and the average death-rate for the past five years was 0.09.
- 7. Deaths from enteric fever in urban and rural areas.—288 deaths were recorded in urban areas while the number of deaths due to enteric fever in rural areas was 198. The relevant figures for the past year were 167 and 145, respectively.

The highest number of deaths was registered in the City of

CHART V SHOWING MORTALITY RATE FROM FEVERS AND MALARIA BY YEARS FROM 1930-1940.





Karachi (61). High mortality was recorded in the following towns:-

Hyderabad 58, Tando Adam 36, Shikarpur 27, Sukkur 24 and Larkana 20.

Nawabshah district recorded the highest number of deaths (62) in rural areas. The next in order was Thar Parkar district (35). Sukkur and Dadu also recorded high mortality, viz., 32 and 26, respectively.

Karachi City.—There was an increase of 27 deaths compared with mortality recorded due to enteric fever in 1939 (34). As usual anti-fly measures were adopted and T. A. B. inoculations offered free of charge.

Hyderabad town.—Enteric fever broke out in an epidemic form in the latter part of the year 1939. This has been ascribed to the fact that Perchloron Powder which was used for the sterilization of water was not available on account of War. Necessary preventive measures, including anti-typhoid inoculations, were taken by the Municipality. The number of deaths due to enteric fever as reported was 58 as against 9 in the previous year.

The mortality due to enteric fever in other large towns was :-

Appen in		Towns.		AT TO ALL	1939.	1940.
Sukkur					26	24
Shikarpur			1	obox.	29	27
Larkana					25	20
Tando Adar	n				15	36

- 8. Measles.—The number of deaths during the year under report was 354 as against 288 in the previous year, giving the death-rates of 0.09 and 0.07 respectively.
- 9. Deaths from measles in urban and rural areas.—The urban death-rate was 0.41 while rural death-rate was 0.02. The urban and rural death-rates for the year 1939 were 0.27 and 0.03, respectively. The highest death-rates for urban areas were in Hyderabad (Hyderabad district) 1.03, Shikarpur 0.84, and Ghotki 0.83 (Sukkur district).

High mortality due to measles in rural areas was recorded in Thar Parkar (24), Nawabshah (21) and Dadu districts (15).

- 10. Relapsing Fever.—The Province was entirely free from this disease.
 - 11. Kala Azar.—This disease is unknown in this Province.
 - 12. Typhus Fever .- This disease is not common in Sind.
 - 13. Cerebro Spinal fever.—17 cases of, and 10 deaths from L (1v) 1668—3

Cerebro spinal fever were reported as compared with 11 cases and 7 deaths in the year 1939. The case mortality was 58.82 as against 77.77 in the previous year. The details are as under:—

Name of Circle.	Attacks.	Deaths.	Date of 1st case.	Date of last case.
Hyderabad T. C.	 4	2	2nd April 1940.	7th August 1940.
Mirpurkhas T. C.	 1	1	26th September 1940.	26th September 1940.
Sinjhoro R. C.	 I	1	9th March 1940.	12th March 1940.
Sukkur T. C.	 11	6	22nd January 1940.	9th November 1940.
	17	10	I de la hear and	ful add at moon

- 13. Deaths from cerebro spinal fever in urban and rural areas.—9 deaths out of the total of 10 occurred in urban areas. The number of deaths recorded in urban and rural areas in the previous year was 13 and 1, respectively.
- 14. Respiratory Diseases. (General Prevalence).—The number of deaths compiled under this head was 9,320 as against 8,444 in the previous year. The corresponding death-rates were 2.40 and 2.18, respectively.
- 15. Deaths and death-rates from Respiratory diseases in previous years.—This is as under:—

-		Year.			Number of deaths.	Death-rate.
1930	reav. ad	niching	edicel k		7,249	2.22
1931			-viets)		6,292	1.63
1932	of Fee and	in Legis 1	lan ee fa		8,149	2.10
1933	adTvi	10 2577 0	den dinah	Law.	8,036	2.07
1934					7,399	1.91
1935	Hod D To	0 48.0 3	mangli i 2		8,654	2.23
1936					10,225	2.64
1937					9,098	2.55
1938	rely, free	no ven s	ent.eff	off.	8,759	2.26
1939					8,444	2.18
1940					9,320	2.40

16. Death-rates from respiratory diseases in Collectorates :-

Collectorates.		19.	40.	1939.		
edginos a sintancia ostrologos a social		Number of deaths. Ratio per mille.		Number of deaths. Ratio printer mills		
Karachi		3,880	6.70	3,617	6.25	
Hyderabad		2,194	3.32	1,772	2.68	
Nawabshah		529	1.06	391	0.79	
Thar Parkar		1,391	2.97	1,513	3.23	
Larkana	-	240	0.54	205	0.45	
Dadu		244	0.73	227	0.67	
Sukkur		789	1.26	674	1.08	
Upper Sind Frontier		53	0.20	45	0.17	

17. Death-rates from respiratory diseases in urban and rural areas.—This year too the urban death-rate continued to be higher than that of rural death-rate, the relevant figures being 7.78 and 1.25. The total number of deaths recorded in urban and rural areas was 5,330 and 3,990 as compared with 4,327 and 4,117 respectively in the previous year. The urban and rural death-rates in the year 1939 were 6.31 and 1.29, respectively.

The highest death-rate among urban areas was recorded in Hyderabad (12.81) and was followed by Karachi (11.93). High rates were recorded in Nasarpur (6.84), Tando Adam (6.07) and Nawabshah (5.98).

Among rural circles, high death-rates were recorded in the following:-

Thar Parkar ... 2.94
Karachi ... 2.82
Hyderabad ... 1.60

- 18. Seasonal Mortality of Respiratory diseases.—The seasonal distribution of deaths from respiratory diseases is shown in Annual Form No. XII (Appendix III). It will be seen that the greater number of deaths due to respiratory diseases has occurred during the cold weather months. The highest number of deaths was recorded in the month of January and the lowest in the month of September.
- 19. Phthisis and measures against it.—The summary of the Annual Report of the Sind Provincial Tuberculosis Association has

been embodied in the Second Annual Report of the Tuberculosis Association of India for the year 1940. The substance of this is given below:—

A sub-committee was appointed to formulate a complete scheme for starting tuberculosis work. Therefore in consultation with the Director of Health Services a complete scheme for establishing tuberculosis clinics with necessary staff and X-ray appliances was worked out. This was approved by the Executive Committee. These clinics are to be run along with the Civil Hospitals in four Districts, viz., (1) Sukkur, (2) Larkana, (3) Nawabshah and (4) Mirpurkhas. In order to make these clinics of lasting usefulness, the Association has undertaken to continue to maintain them with the help of the Provincial Government for a period of five years for which they have earmarked a sum of Rs. 25,000 nearly half of the total amount at their disposal. This scheme is now before the Government of Sind and as soon as it is sanctioned, the Association hopes to put it into execution.

As regards the City of Karachi, the City will soon have at a distance of only 8 miles an up-to-date sanatorium which is nearly completed. It will provide for one of the much felt needs of Karachi.

20. Deaths from phthisis by Collectorates .-

Colle	00 01	1939.	1940.		
Karachi	00 p. 18	08.2	911.	657	936
Hyderabad				328	373
Nawabshah				68	100
Thar Parkar				130	128
Larkana				45	50
Dadu				72	77
Sukkur		51		154	179
Upper Sind Frontier				5	11
		То	tal	1,459	1,854

^{21.} Death-rates from phthisis in urban and rural areas.—
The death-rates is urban and rural areas were 1.93 and 0.17 as against 1.43 and 0.15 respectively in the previous year.

- 22. Pneumonia—(General Prevalance).—The total number of deaths due to pneumonia was 5,798 giving a death-rate of 1.50 as compared with 5,510 or a death-rate of 1.42 respectively in the previous year.
- 23. Death-rates from pneumonia in urban and rural areas.—
 The urban death-rate was 4.28 as compared with 3.72 in the previous year. The rural death-rates for the year 1940 and 1939 were 0.90 and 0.93 respectively.

In urban areas high death-rates were recorded in Hyderabad (9.45), Karachi (5.98), Umarkot (5.46) and Nawabshah (4.27).

In rural areas high death-rates were recorded in Thar Parkar (2.40) and Karachi (2.15).

Out of the total deaths of 2,929 registered in urban areas due to pneumonia, as many as 2,390 were recorded in the towns of Karachi (1,483) and Hyderabad (907).

24. Dysentery and diarrhæa—(General Prevalence).—1,131 deaths or a death-rate of 0.29 were registered during the year under report as against 1,150 or 0.30 in the previous year and 1,172 or 0.30 in the quinquennium ending 1939.

25. Death-rates from Dysentery and Diarrhæa in the previous year by Collectorates:—

Col	llectorate.	Start Land	1940.	1930 to 1939 (Mean).
Karachi			 1.11	1.15
Hyderabad			 0.18	0.22
Nawabshah			 0.04	0.05
Thar Parkar			 0.16	0.11
Larkana			 0.04	0.06
Dadu			 0.09	0.07
Sukkur			 0.35	0.37
Upper Sind Frontier			 0.01	0.03

Dysentery.—The number of deaths due to this cause was 305 as against 308 in the previous year, corresponding to the death-rates of 0.07 and 0.08, respectively.

Diarrhæa.—Diarrhæa accounted for 826 deaths or a deathrate of 0.21 as compared with 842 or 0.22 in the preceding year.

26. Death-rates from Dysentery and Diarrhæa in urban and rural areas.—The urban and rural death-rates for the year under report were 1.35 and 0.06 respectively. The corresponding rates for the year 1939 were 1.42 and 0.06.

High death-rates were recorded in the following towns:— Karachi 2.41, Sukkur 2.08 and Ghotki 2.07.

In rural areas high death-rates were recorded in Thar Parkar district (0.17) and Karachi district (0.12).

27. Injuries.—The number of deaths due to injuries was 768 as compared with 966 in the year 1939. The male and female deaths were 577 and 191, respectively. The number of deaths among males and females in the previous year was 741 and 225 respectively.

The number of deaths during the previous ten years is as shown below:—

Year.				Number of deaths.
1930	officer de			926
1931			Co. Commit	838
1932				938
1933				1,004
1934		1.		916
1935				884
1936				873
1937				791
1938				850
1939				966
1940				768

28. Details of deaths from Injuries :-

Causes.			1940.		1939.		
Causes,		Male.	Female.	Total.	Male.	Female.	Total.
Drowning		55	31	86	79	39	118
Poisoning		6	3	9	16	3	19
Hanging		11	4	15	10	1	11
Wounding		300	77	377	391	101	492
Wild Beasts		1		I	I		I
Snake bites		149	41	190	178	29	207
Rabies		13	2	15	11	9	20
Railway accidents		13	2	15	6	ı	7
Other causes	0	29	31	60	49	42	91
	-						
Total		577	191	768	741	225	966

29. Deaths from snake bites.—Deaths from snake bites in Collectorates were:—

	Collectorate	1939.	1940.		
Karachi	Onstrug	0,678 000		27	25
Hyderabad	-1.			30	17
Nawabshah				15	33
Thar Parkar				43	25
Larkana		9 1100 19		40	37
Dadu				23	18
Sukkur				25	30
Upper Sind Fro	ntier			4	5
		Total		207	190

Anti-venom serum is stocked in all the Government hospitals and grant-in-aid dispensaries. The number of snake bite cases treated at the Government Hospitals including R. B. Udhavdas Tarachand Hospital, Shikarpur, was 159.

30. Deaths from rabies.—During the year under report 15 deaths due to rabies were reported to have occurred as against 20 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.

The number of persons who received anti-rabic treatment at the centres was 872 as compared with 885 in the previous year. The results are reported to be satisfactory.

31. Details of suicidial deaths :-

Causes.			1940.			1939.		
Causes.		Male.	Female.	Total.	Male.	Female.	Total	
Drowning		I		I				
Poisoning		3	1	4	5		5	
Hanging		8	4	12	10	I	11	
Wounding		1	ı	2	8	2	10	
Railway								
Total		13	6	19	23	3	26	

32. Deaths from other causes.—Next to the omnibus heading 'Fevers', the greatest number of deaths was recorded under "All Other Causes". Out of the total number of 53,360 deaths, 11,646 were recorded under this heading, showing a percentage of 21.82. During the year 1939, the number of deaths registered under "All Other Causes" was 9,678 or a percentage of 21.61. The quinquennial mean was 8,130. The death-rates for the years 1940, 1939 and the quinquennial mean were 3.01, 2.49 and 2.10 respectively.

Deaths from other causes in the past decade were :-

Year.		Number of deaths.
1930	 	 6,765
1931	 	 7,123
1932	 	 7,658
1933	 	 7,473
1934	 	 6,886
1935	 	 7,471
1936	 	 8,025
1937	 	 7,568
1938	 	 7,906
1939	 ***	 9,678
1940	 	 11,646

33. Deaths from child birth.—There was a decrease in the recorded number of deaths due to child bearing which was 889 as compared with 950 in the previous year. The maternal mortality rate was 10.69 as against 11.59 in 1939.

34. Deaths from child birth in the previous years :-

Year.		Number of deaths.
1935	 	 979
1936	 	 1,023
1937	 	 881
1938	 	 974
1939	 	 950
1940	 	 889

35. Deaths from child birth by Collectorates :-

(Collectorate	1940.	1939	
Karachi			 110	145
Hyderabad			 167	151
Nawabshah			 88	118
Thar Parkar			 85	100
Larkana			 118	132
Dadu			 91	76
Sukkur			 214	191
Upper Sind From	ntier		 16	28
		Total	 889	950

36. Deaths from child birth in urban and rural areas.—351 deaths were registered in urban areas and 538 in rural areas as compared with 339 and 611 deaths recorded in urban and rural areas respectively in the previous year. The maternal mortality rate per 1,000 births for urban and rural areas was 11.74 and 10.10 respectively. One woman died of child bearing to every 92 lives births.

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

		Town.	lunus or	Total No. of births in 1940.	Total No of deaths from child births in 1940.	Total No. of births in 1939.	Total No. of deaths from child birth in 1939.
Karachi			 	15,246	66	14,578	93
Hyderabad	1		 	3,806	67	4,035	52
Sukkur			 	2,678	29	2,590	14
Shikarpur			 	2,052	59	2,179	58
Larkana			 	934	- 59	926	30

37. Diphtheria.—The recorded number of deaths from this cause was 33 as compared with 19 in the previous year. The corresponding death-rates for the year 1940 and 1939 were 0.008 and 0.004. The number of deaths registered in urban and rural areas was 23 and 10 respectively. In rural areas the deaths due to diphtheria were distributed as under:—

Hyderabad 2, Nawabshah 3, Larkana 1, Dadu 2 and Sukkur 2.

In the City of Karachi 12 deaths were reported to have occurred as compared with the same number in the previous year. 166 cases were reported out of which 162 were admitted in the Epidemic Diseases Hospital where they were treated with Diphtheria Anti-toxin. Other measures to check the spread of the disease were taken as usual.

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

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CHAPTER IV.

EPIDEMIOLOGY.

- 1. Cholera—(General Prevalence).—During the year under review 354 cases of and 227 deaths from cholera were reported as against 6 cases and 3 deaths in the previous year. The district most affected was Dadu where out of 152 cases, 104 proved fatal. The death rate for the province was 0.06 as compared with 0.0008 in the previous year.
- 2. Deaths from cholera in previous years.—The following table and Chart No. VII show the total number of deaths from cholera from 1919 to 1940:—

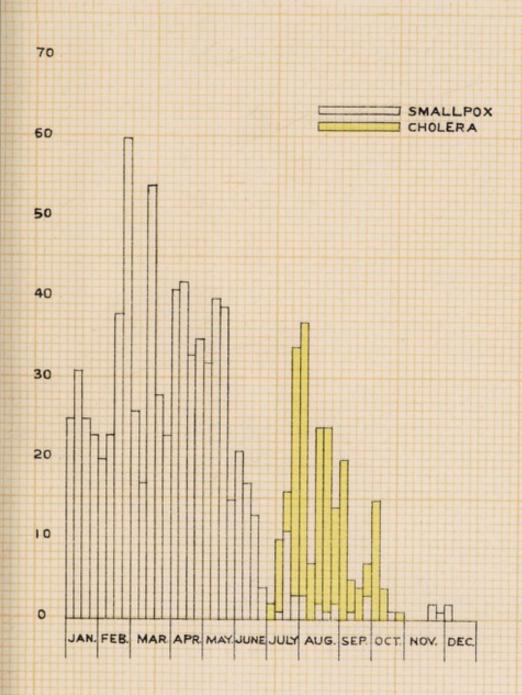
	Year		Number of deaths.
1919		 	316
1920		 	
1921		 	429
1922		 	25
1923		 	9
1924		 	409
1925		 	I
1926		 	133
1927		 	I
1928		 	214
1929		 	6,411
1930		 	
1931		 	68
1932		 	15
1933		 	3
1934		 	ī
1935		 	44
19:6		 	44 8
1937		 	2
1938		 	343
1939		 	3
1940	9.	 	227

3. Deaths from cholera by collectorates :-

	Coll	ectorate.			1940.	1939
Karachi					29	1 3 h 1.
Hyderabad					2	3
Nawabshah					74	
Thar Parkar					. 1	
Lakana					17	
Dadu		o "distr			104	1.
Sukkur					01	
Upper Sind I	rontier					
			Tota	al	227	3

CHART VI

WEEKLY INCIDENCE OF DEATHS FROM EPIDEMIC DISEASES DURING THE YEAR 1940.





- 4. Deaths from cholera in urban and rural areas.—61 deaths were reported to have occurred in urban areas while the remaining 166 in rural areas.
- 5. Brief History of Cholera.-The disease first made its appearance in Dadu town in July 1940 and a number of cases occurred in one particular locality. The District Medical Officer, Dadu, during the course of his report stated that the first case of cholera gave no history to help in tracing the source of infection as neither the patient nor any member of the family had visited any cholera infected area outside Sind nor had any person from such an area come to visit or stay in the house in which the case occurred. As this source of infection was excluded the possibility of the water supply in that locality being contaminated was investigated. It was found that the 'bhayas' of the United Provinces worked as water carriers from a well in that locality, which had a parapet wall broken and the paved area around it old and dilapidated, allowing water to trickle down into the well. It was probable that one of these bhayas might have come a short time before from the United Provinces. These bhayas were often washing their clothes and bathing near this well and hence may have contaminated the water. On this assumption, the well was closed down, and the disease did not spread in that part of the town. The conditions contributing favourably towards the outbreak appeared to be the abnormally hot season, and the migration of the people into Dadu town due to dacoities in the villages, causing overcrowding and thus affecting adversely the sanitation of Dadu town.

Panic stricken people left Dadu for other districts and were the main cause of the importation of the disease in Nawabshah and Larkana districts and the City of Karachi.

- 6. Among the measures to combat the disease were :-
 - (1) The enforcement of special regulations.
 - (2) A ban was imposed on the export of fish and fruit from the railway stations coming within the areas declared to be infected. The railway authorities co-operated in this.
 - (3) Special Cholera Controlling Officers were appointed.
 - (4) Segregation camps were opened.
 - (5) Inoculations on a large scale were carried out. A large number of incoming passengers to the City of Karachi was inoculated at the Cantonment or the City Railway Stations.
 - (6) Fairs were banned.

- (7) Adequate arrangements were made to store cholera vaccine in the Office of the Director of Health Services and Inspector-General of Prisons, for supply to the local bodies.
 - (8) Press Notes were issued keeping the public informed of the incidence of the disease and advising them to take necessary measures.
 - (9) When the Lal Shahbaz fair was held in September, 1940, special precautions were taken. These have been described in Chapter VI.

7. Expenditure on Cholera :-

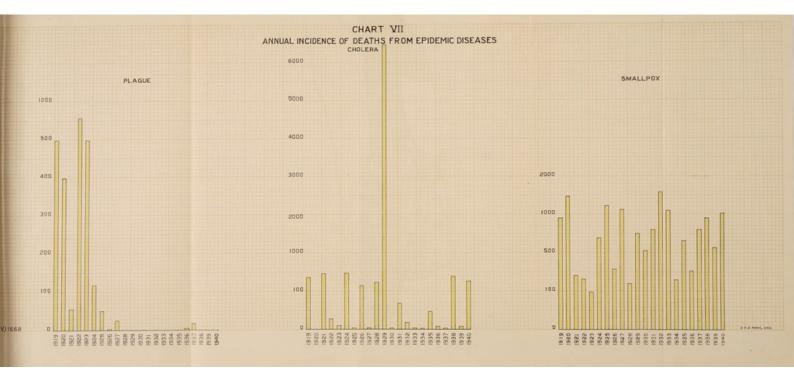
	Rs.
Cost of cholera vaccine	 1575
Potassium Permanganate Crystals	 125
Total	 1,700

8. Smallpox—(General Prevalence)—Smallpox prevailed in all the districts the most affected being Hyderabad where out of 1,253 cases, 432 proved fatal. The other district seriously affected was Thar Parkar where 1,091 cases with 212 deaths occurred. The total number of cases reported for the Province as a whole was 3,786 as against 2,421 in the previous year.

The seasonal mortality due to smallpox as compared with the previous year is shown below:—

	Month.	at return at	1940.	1939.
		1.2	155	
February .			224	
March			155	63
April .			189	98
Marr		1 7 7	170	73
June .		- market will	54	
July .			18	31
August .			14	15
September .			9	
October .	. 0 376	perto partiente	5	
November .		**	7	13
December .			8	63
og tel A			1,008	565

During the year under report 1,008 deaths were recorded as against 565 in the previous year. The death rate was 0.26 as compared with 0.15 in 1939 and 0.16 in the past five years ending 1939.





9. Deaths from smallpox in previous years.—The following table shows the number of deaths and death-rates recorded in years 1930 to 1940. Chart No. VII shows this information in graphic form for the years 1929 to 1940:—

	Year.		and l	Number of deaths.	Death rate
1930	 			509	0.16
1931	 			795	0.21
1932	 			1,553	0.40
1933	 			1,093	0.28
1934	 1000	2		209	0.05
1935	 			571	0.15
1936	 			308	0.07
1937	 			798	0.21
1938	419			941	0.24
1939	 			565	0.15
1940				1,008	0.26

Out of 1,008 deaths, 141 were amongst infants under 1 year of age and 441 above 1 and under 10 years and the remaining above 10 years.

10. Deaths from Smallpox by Collectorates :-

		1940.			1939.		
Collectorate.	Cases.	Deaths.	Death rate.	Cases.	Deaths.	Death rate.	
Karachi	506	102	0.18	235	50	0.09	
Hyderabad	* 050	432	0.65	507	128	0.19	
Nawabshah	600	161	0.32	281	90	0.18	
Thar Parkar		212	0.45	732	165	0.35	
Larkana	TOR	26	0.06	303	56	0.12	
Dadu	700	46	0.14	280	67	0.20	
Sukkur	Q m	26	0.04	65	7	0.01	
Upper Sind Frontier .		3	0.01	18	2	0.007	
Total .	3,786	1,008	0.26	2,421	565	0.15	

11. Deaths from Smallpox in urban and rural areas:—Out of 1,008 deaths, 435 were recorded in urban areas and 573 in rural areas as against 131 and 434 in urban and rural areas respectively in 1939.

In urban areas, high death rates were recorded in Tando Adam (3.57), Hyderabad (3.17), Kotri (2.08) and Nawabshah (1.85).

High death rates in rural areas were recorded in the districts of Thar Parkar (0.43), Karachi (0.25), Hyderabad (0.23) and Nawabshah (0.21).

12. Steps taken by the Public Health Department.—The Province of Sind is almost always visited by smallpox, and its incidence is more in rural areas. Every effort was made to combat the disease. An intensive vaccination and re-vaccination campaign was started.

Parkar District).

Extra lymph was supplied to the vaccinators. Additional temporary vaccinators were appointed in the affected districts. The District Local Boards have been informed continually that as the existing staff is inadequate, it should be supplemented by the appointment of extra vaccinators. As a result of this, the District Local Board, Nawabshah, agreed to the appointment of 3 permanent vaccinators together with their peons. In addition temporary vaccinators as shown below were entertained at the cost of the District Local Boards concerned.

District.		No.	Period.		From	То
Karachi		r	6 months.		5th Feb. 1940.	4th August 1940.
Hyderabad		I	2 months 17 days.	and	1st Jan. 1940.	17th March 1940.
Do.		1	10 months 21 days.	and	9th Feb. :940.	31st Dec. 1940.
Do.		1	7 months 24 days.	and	8th May 1940.	Do.
Do.		1	4 months 24 days.	and	8th August 1940.	Do.
Total		4				
Nawabshah		1	3 months.		12th March 1940.	11th June 1940.
Thar Parkar		1	3 months.		25th Jan. 1940.	24th April 1940.
Do.		1	7 months 20 days.	and	26th Feb. 1940.	15th Oct. 1940.
Do.		1	5 months 7 days.	and	9th May 1940.	Do.
Do.		1	5 months 5 days.	and	11th May 1940.	Do.
Total		4		ar W	120 les 121	

Vaccination has been made compulsory in all Municipal towns. Efforts are being made to make vaccination compulsory in rural areas and as a first step the Notified Area/Sanitary Committees at taluka headquarter towns have been advised to agree to the extension of the provisions of the Bombay District Vaccination Act, 1892, within their limits. It is pleasing to note that the response is not discouraging. The provisions of the Act have actually been extended to 7 Sanitary Committees out of 37, viz., Mirpur Bathoro, Sujawal (Karachi District), Naushahro Feroz, Moro (Nawabshah District), Mehar (Dadu District), Nangar Parkar, Digri (Thar Parkar District).

Preserved lymph from Belgaum was indented for and stocked in a refrigerator in the head office. 37,315 doses were supplied to the vaccinators in addition to their usual supplies.

gation of cases of small-pox exist only in the city of Karachi, where the Corporation maintain an Epidemic Diseases Hospital. The question of the construction of such a hospital has been pending before the Hyderabad Municipality for ages and it is regretted that upto now nothing practical has been done. It is also desirable that arrangements for the segregation of infectious diseases cases, which includes small-pox should be made at all district head quarter towns. It may not be possible from financial point of view for the Municipalities concerned to construct and maintain separate Epidemic Diseases Hospitals. It is therefore suggested that a separate epidemic diseases ward should be constructed in the premises of the Civil Hospitals (except at Karachi and Hyderabad).

The vaccinal conditions of the patients admitted at the Epidemic Diseases Hospital, Karachi, were as shown below:—

-	1						
Ages.	Vaccina evidence presence or more nation c	ated as d by the e of one e vacci- icatrices.	B. Stated to have been success- fully vaccina-	C. Stated to be un- vaccina- ted (or vaccina- ted un-		Stated to succ	E. o have been essfully ccinated.
	(i)	(ii)	ted but	success-	cinated	(i)	(ii)
	Within the last 5 years.	More than 5 years previou- sly.	no vacci- nation cicatrix present.	fully and no vacci- nation cicatrix present.	during inocula- tion of small pox.	Within the last 5 years.	More than 5 years previously.
Under 1 year.				3			
I		.,		I			
2			.:	2			
3 4			1	2			
5	· · ·		1	4	:: 1		
5	ī		2	1			
7 8				1			
8				2			
9		t		1			
10							
II							
12		1		I			
13				1			
14	1						
15		I	.:	**	1	**	
25		- 3	4	2 I			
30		3	3	ī			
35		2	3	ī			
40		I		ī			
50		I		I			703
60		I					
70							
and upwards					1		
Total	3	20	15	26	ı		
-		-			-		-

- 14. Plague (General Prevalence).—The Province was completely free from plague during the year under report as was the case in the previous year.
- 15. Deaths from plague in previous years.—The incidence of mortality due to plague from the year 1919 is shown in Chart No. VII.
- 16. Ratting Operations.—Ratting operations were continued as usual 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 were 186,508. The number of rats examined in the City of Karachi was 12,213 but none was found to be infected.

17. Influenza.—Two deaths from Influenza were reported as against one in the previous year.

18. Deaths from Influenza in previous years :-

Ye	ar.	No of deaths.		Year.	is not	No. of deaths.
1919		1,008	1930			6
1920		552	1931			6
1921		327	1932			3
1922		128	1933			5
1923		37	1934			14
1924		39	1935			18
1925		30	1936			4
1926		20	1937			
1927		26	1938			16
1928		45	1939			I
1929		12	1940			2

19. Cerebro-spinal Fever.—17 cases of and 10 deaths were reported as compared with 9 cases and 7 deaths in the previous year.

CHAPTER V.

- 1. Fairs and Festivals.—The following important fairs took place during the year under report:—
 - 1. Lal Shahbaz Fair ... Dadu district.
 - 2. Bhit Shah Fair ... Hyderabad district.
 - 3. Sajan Sawai Fair ...

Pithoro which is one of the important fairs was banned as cholera was prevalent in the province at that time.

The Lal Shahbaz fair was however allowed to take place. The following measures were taken.

- I. Mr. E. H. Holt., I.C.S., the Collector of Dadu, Dr. O. M. Akbani, D.P.H., (London), the Asisstant Director of Public Health and Dr. A. M. Abbasi, M.B.B.S., the District Medical Officer, Dadu, encamped at Sehwan. 3 qualified Sanitary Inspectors and 8 S.S.M.S. Officers were deputed on special duty.
- 2. Arrangements were made for the opening of the Aral Head Regulator so as to allow the rapid flow of plenty of fresh water into the Canal.
- 3. The Aral canal was divided into three sections. One was reserved for fetching water for domestic purposes, the other lower down the stream for bathing and washing purposes and the third still lower down for animals.
- 4. A strong posse of chowkidars protected by a guard of two policemen were posted there to see that the arrangements were not disturbed.

They worked in three shifts from 6 a.m. to 11 p.m.

- 5. The chowkidars and the policemen were given potassium permanganate and were instructed to put a few crystals in the Pakhals or other receptacles brought for fetching the water.
- 6. All the wells in the town were treated with potassium permanganate every day.

There was a thorough and complete control over the watersupply. Thus this source of infection was eliminated.

7. Also strict watch was kept over food stuffs. All unripe or overripe fruit and other foodstuffs that were stale were seized and buried.

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Every night after 12 o'clock when the eating houses were about to be closed, all articles of food like meat and fish, liable to be decomposed, were seized, so that the hotel-keepers should all use the fresh stuff the next morning.

- One S. S. M. S. was given this charge along with the duty of looking after the cleanliness of the market. He was gievn a policeman and two sweepers to help.
- 8. All incoming passengers either by Railway or ferries or Buses were inspected by the Medical Officers. They were also given the assistance of Policemen.
- 9. The pilgrims attending the fairs live in "kafis" and private lodging houses. These are always overcrowded and kept in a very filthy and insanitary condition.
- Two S. S. M. S. Officers visited all "kafis" and rest houses with a view to detecting any sickness. Policemen also accompanied them.
- 10. The Sehwan dispensary was converted into a segregation camp with 12 beds to meet the situation in case cholera broke out, and was put in-charge of the Medical Officer.
- 11. For the purpose of surface cleanliness, cleanliness of the nalis and the removal and disposal of night soil, the three Sanitary Inspectors were deputed, supplied with sufficient quantity of lime and phenyle for sprinkling.

A contingent of 40 sweepers was placed at the disposal of the Inspectors.

The whole of the staff worked efficiently and the danger of the outbreak of cholera was thus averted.

No untoward incidence occurred except that a woman was reported to be suffering from vomiting and diarrhoea. She was immediately removed to the segregation camp and put under treatment and kept under observation. She showed immediate signs of improvement. On enquiries from her, it was revealed that she had taken the previous day's cooked food. She was however discharged in the evening. The "Haveli" in which she was living was thoroughly distinfected.

With a view to meeting the situation at the time of the fair in future recommendation have been made which includes the formation of a Sanitary Board. A detailed report was made to the Government. The Director of Health Services and Inspector-General of Prisons, Sind, was directed to convey the thanks of the Government to all those who co-operated in adopting the necessary preventive measures. Thus thanks were conveyed to the following:—

- 1. Mr. E. H. Holt., I.C.S., Collector of Dadu.
- 2. Dr. O. M. Akbani, M.B., B.S., D.P.H. (London), Assistant Director of Public Health, Sind.
- 3. Dr. A. M. Abbasi, M.B., B.S., District Medical Officer, Dadu.
- 4. Mr. G. M. Kazi, B.A., Mukhtiarkar of Sehwan.
- Mr. Asandas Chainrai Lalchandani, B.A., LLB., President of Dadu Municipality.

The S. S. M. S. Officers and the Sanitary Inspectors were also thanked.

It was primarily the duty of the Sehwan Municipality to have made necessary arrangements at the time of the fair. It is regrettable to note that co-operation from the Municipality was rather lacking. The Municipal authorities never seemed to realise fully the delicacy of the situation and the emergency that all had to face.

The question of the stopping of prostitution at fairs was further examined. The Revenue Commissioner for Sind has been recommended to move the local bodies to amend bye-laws on the subject prohibiting prostitution within a radius of 3 miles from a fair area. When this is done, its effects will be carefully watched.

CHAPTER VI.

URBAN SANITATION (INCLUDING NOTIFIED AREAS).

- Officers of Health having British Diplomas in Public Health have been employed at Karachi, Hyderabad and Sukkur. The Medical Officer of Health employed at Shikarpur possesses an Indian Diploma. The two Municipalities of Sukkur and Shikarpur have employed Medical Officers 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.—26 qualified Sanitary Inspectors were employed in the principal towns of the Province, viz., Karachi (8), Hyderabad (4), Sukkur (4), Shikarpur (3), Larkana (2), Rohri (1), Tando Adam (2), Jacobabad (1) and Murpurkhas (1).
- 3. The Government were recommended to revise the policy of the payments of grant-in-aid as laid down in Government Resolution, General Department, No. 8747, dated the 26th March 1936. As a result of this the Government of Sind in their Resolution, General Department, No. 514-G.A./40, dated the 25th November, 1940, included in Class III towns the Municipalities of Mirpurkhas, Kamabar and Nawabshah although the population of these towns was below 15,000. After the 1941 census populations are officially made known, the municipalities with a population of 10,000 and over and below 13,000 will be encouraged to appoint qualified Sanitary Inspectors and the Government will be recommended to sanction grant-in-aid for them.
- 3-A. Municipal Sanitary Works.—There are in all 26 municipal towns 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:—

Na	me of the	Income.	Taxation.	
			Rs.	Rs.
Karachi		 	18 5 7	11 12 7
Hyderabad		 	12 9 4	6 15 8
Sukkur		 	II I4 2	3 15 I
Shikarpur		 	7 5 6	4 12 0
Larkana		 	7 9 7	5 11 11

During the year under report, sanitary inspection of 14 towns and 5 Notified Area and Sanitary Committee was made by the Director of Health Services and Inspector-General of Prisons, Sind, and the Assistant Director of Public Health, Sind. As usual a report embodying the defects noted and the remedies therefor was sent to the local authority concerned.

The Public Health Department had the sad experience to note that these reports receive scant attention and often no action is taken at all. At times it had been seen that full advantage is not taken of the presence of the Officers of the Public Health Department in their towns, by the authorities of the local bodies concerned even though intimation to that effect is sent to them officially. If the matters are allowed to stand as they are, it is considered that it will be sheer waste of time of the Government inspecting officers to visit the towns and take the labour of preparing reports.

As already stated in the Annual Public Health Report for the year 1939, the resolution passed by the Larkana Municipality with regard to the appointment of a Medical Officer of Health remained on paper. After the municipality was superseded on account of maladministration, the Administrator raised a cry of 'no funds'. Thus this proposal has been almost shelved for the present. The Government have however directed that the Administrator should review the financial position of the Municipality in the year 1942-43 and see whether this appointment could be made.

- 4. The expenditure on public health measures per head of population came to Rs. 2-9-2 approximately in the City of Karachi and the average of Rs. 2-3-5 for the remaining municipalities having subsidised health staff.
- 5. Municipal Water-Supplies.—The state of water-supplies remained almost the same as in the previous year. There was nothing of interest of which mention could be made here.
- 6. Infectious Diseases Hospital.—The Karachi Municipal Corporation maintains an Epidemic Diseases Hospital.

So far as the Hyderabad Municipality is concerned no material advance has been made. This question has been referred to in paragraph 13, Chapter V of this report.

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 the Province, nor were there any industrial housing schemes.

No land was granted by the Municipal Corporation of the City of Karachi to any society for housing purposes. The Chief Officer, Karachi Municipal Corporation in the course of a report states "the two schemes, viz., for granting land to the poor working class of people in Lyari Quarter and the other for the Lower Middle Class people in Jamshed Quarter which have since been sanctioned by Government, are receiving attention. As regards the first scheme, applications have been invited from persons holding temporary plots for exchanging the same for permanent plots in sheet K-6-A. Lyari Quarter for constructing buildings on them costing a minimum of Rs. 500 and maximum of Rs. 1,500. As regards further grant of land to Lower Middle Class people in Jamshed Quarter, the same will be taken in hand as soon as the area is fully developed by the laying of water and drainage mains for which necessary action is being taken".

With a view to relieve congestion in the town of Hyderabad, the Municipality has developed the Fort Area. Another area known as East Hirabad extension has also been developed.

The Municipality of Shikarpur has granted free fold right of large plot of land on a nominal rent to the local Harijan Shewak Sangh for the construction of cheap and sanitary tenements for Harijan employees of the Municipality.

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

CHAPTER VII.

RURAL SANITATION.

I. District Health Officers.—District Health Officers were employed by the District Local Boards of Larkana and Karachi. The latter one joined military service and the post is still lying vacant. Although section 119 of the Bombay District Local Boards Act, 1923, had been so amended in 1939, as to make it compulsory for the District Local Boards to appoint Health Officers, but it is regrettable to note that the District Local Boards do not appear to be in a mood to make such appointments. It is high time, the Government may take action and prescribe a time limit for the District Local Boards for effecting these appointments.

It is very necessary that the District Health Officers should be provincialised. Experience has shown that if the District Health Officers are not provincialised, the Public Health Department will be inconvenienced in exercising control over them with the result that the conditions in rural areas will hradly be improved.

- 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 houses in rural areas are irregular and congested without proper ventilation or regular streets. The villages chiefly hari-class live in thatched landhis with side landhis for their cattle. Little regard is paid to sanitation and hygiene by this class. Model houses have been constructed, but this has made little impression on account of the economic condition of rural population. In case of new villages, the sites are sanctioned by the Revenue authorities only after a proper layout is approved.
- 4. Village water-supply.—Grants to the District Local Boards for the construction of wells are distributed with the consultation of the Officers of the Public Health Department. It has been seen that very often the major portion of the grant remains unspent. The District Local Boards should undertake an extensive programme of the construction of new wells.

With a view to seeing that the wells are constructed on sanitary lines, and arrangements for the porper disposal of the waste water are made, a questionnaire has been drawn up asking the District Local Board to furnish the information called for therein and to submit site plans for approval before the wells are sunk.

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

Karachi	 	3
Hyderabad	 	9
Nawabshah Than Dankan	 	
Thar Parkar Dadu	 •••	9
Sukkur	 	35
	and joint	
Total	 	75

5. The expenditure of District Local Boards on public health measures varied from 7.67 per cent. of their income in Larkana district to 3.70 per cent. in Dadu district.

The average expenditure on public health per head of population varied from Re. 0-1-11 in Larkana district to Re. 0-0-5 in Sukkur district.

6. There was one Sanitary Board and 221 Sanitary and Notified Area Committees.

CHAPTER VIII.

RURAL RECONSTRUCTION.

There is a separate department for rural reconstruction which is in-charge of a Special Officer.

Funds for rural reconstruction are provided partly by the Government of India and partly by the Provincial Government. In the year 1940-41 Rs. 60,000 were sanctioned from the Government of India grant and Rs. 55,700 from the Provincial revenues.

The three main objects on which the Government of India grants are spent are firstly improvement of water-supply, secondly sanitation and hygiene and thirdly agriculture and cottage industries.

- 2. There were 12 units as against 8 of the last year selected for intensive rural reconstruction work in the Province. The total number of villages and hamlets comprising these units was 104 inhabited by a population of about 60,000 souls. Definite programme of work for each unit for a period of 12 months was chalked out by the Special Officer for Rural Reconstruction, Sind, and carried for execution by the District Sudhar Committee.
- 3. The main activities under the head specified in paragraph above during the year were as under:—
 - (a) Improvement of water-supply.—132 tube wells and 46 draw wells were sunk on contributory basis. The wells in the selected areas were treated with potassium permanganate.
 - (b) Sanitation and Hygiene.—Village streets continued to be levelled by the villagers themselves, heaps of rubbish removed outside the villages and destroyed. Dust bins and katchara pits were provided in a considerable number in the selected villages. Jungle clearance and filling up of pits and depressions are being attended to by the villagers. In several villages the villagers have provided their houses with more ventilators and windows. Village medicine chests have been provided in all the selected areas and their number increased in some cases. A new departure under this head had been the employment of trained dais in selected villages of the Karachi, Thar Parkar, Nawabshah and Upper Sind Frontier districts. In some cases certain lengths of village roads ranging from 2 to 8 miles were repaired by the villagers themselves.
 - (c) Agricultural and Cottage Industries.—The poultry breeding scheme introduced in the year 1939 was modified in

the year under report and the poultry pens at Mirpurkhas and Dadu continued. In addition to these, poultry pens were also opened by private individuals in Hyderabad, Sukkur, Nawabshah and Thar Parkar districts. Model orchards laid down in villages in several districts are in flourishing condition. Rabi and Kharif demonstration plots progressed satisfactorily. The number of stud bulls has increased. A special departure during the year under review had been the establishment of nurseries to promote the growth of fruit trees in the selected area.

Industrial scheme.—The activities had been under the heads of rope making, tanning and bee-keeping. There is nothing to report on the progress of rope making. Tanning and bee-keeping are progressing satisfactorily.

The funds provided by the Provincial Government were used for the payment of the necessary staff of the Special Officer and the Sudhar Committees, propaganda work including the village shows and exhibitions, the construction of model villages and other miscellaneous purposes not covered by the Government of India grant.

Three model villages consisting of 30 to 40 houses each were constructed on contributary basis in districts of Karachi, Dadu and Nawabshah. The houses constructed in the villages are airy and commodious. Every house has a cattle shed separate from the residential rooms which have a verandah and sufficient number of windows and ventilators. These villages have been provided with all the amenities and necessities of life, e.g., parks, fruit trees, recreation grounds equipped with gymnastic sets, schools' table dispensaries, and good roads. Apart from this about 74 model houses were maintained by the Government in different villages for demonstration purposes.

Among miscellaneous activities mention may be made of the increase of Boy Scout troops, girl guides organisations and debating groups. Junior Red Cross Societies are flourishing. The Officers of the Veterinary, Medical and Agricultural Departments and vaccinators tours in the areas selected for intensive rural reconstruction work and treated persons and animals with minor ailments and diseases and performed vaccination and revaccinations.

CHAPTER IX.

MALARIA.

I. Incidence.—As noted in previous reports, the prevalence of malaria is one of the major health problems to be faced in this Province. The number of deaths increased from 1,553 in the year 1939 to 2,106 in the year under report. This alone will not give any indication of the magnitude of the prevalence of the disease. It is customary for the village registrars to group a great number of deaths under "Fevers" even though actually many of these may be due to malaria. The question of the appointment of a malariologists and his staff is receving the attention of the Government.

2. Deaths from malaria in Collectorates :-

Collector	ate.		Number o	f deaths.
Karachi		 	 130	122
Hyderabad		 	 184	298
Nawabshah		 	 64	60
Thar Parkar		 	 95	38 180
Larkana		 	 322	180
Dadu		 	 116	IOI
Sukkur		 	 1,174	730
Upper Sind	Frontier	 	 21	17
		Total	 2,106	1,546

3. Relation of deaths from malaria to deaths from fevers.—Out of 29,260 deaths due to "Fevers" 2,106 showing a percentage of 7.19 as compared with 1,546 and a percentage of 6.45 in the previous year were due to malaria.

4. Seasonal mortality of malaria:-

Month.			Number of	f deaths.
January	 		 133	171
February	 		 158	II2
March	 		 142	114
April	 		 169	93
May	 		 235	117
June	 		 179	112
July	 		 123	130
August	 		 146	89
September	 		 168	114
October	 		 212	137
November	 		 200	168
December	 	The entropies	 241	189
		Total	 2,106	1,546

5. Deaths from malaria in urban and rural areas.—This year too the disparity between the recorded mortality in urban and rural areas was very marked. The number of deaths in these areas was

1,591 and 515 respectively, while the total number of deaths recorded under "Fevers" was 3,678 and 25,582 respectively. The percentage of deaths from malaria to deaths from "Fevers" in urban and rural areas was 43.23 and 6.22 respectively. This will certainly give a wrong impression that the incidence of malaria is more in urban areas than in rural areas whereas the facts are quite to the contrary. The registration being defective, a greater number of deaths due to malaria are probably recorded as under the omnibus heading "Fever".

The number of malarial cases treated at the Civil Hospitals, Government grant-in-aid dispensaries, Municipal and Local Board dispensaries was 298,615 as against 236,539 in the previous year.

A scheme for the registration of births and deaths in rural areas has been submitted to Government. One of the features of this scheme is that in addition to the tapedars, school teachers and pound munshis will maintain birth and death registers for which they will be remunerated. It is now under consideration to sponsor a proposal for imparting instructions to the tapedars and the school-masters at the time they undergo departmental training at their respective institutions.

6. Anti-malaria measures: Karachi City.—The mosquito brigade maintained by the Karachi Municipal Corporation consists of 1 inspector, 11 sub-inspectors, 10 munshis and 64 coolies. The cost of the malarial Branch was Rs. 32,211 during the year 1939-40.

24 wells were closed during the year and 67 trap door covers over the wells were renewed and thus rendered mosquito-proof. Almost all the wells, storage tanks and all such likely 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, 23.7 per cent. Stegomyia and 76.1 per cent. were Culex and others.

Hyderabad town.—Special attention was paid to the pumping of rain water from the stagnated areas and treating the breeding places of mosquitoes, specially anophelene larvae, with malariol. The two anti-malaria gangs consisting of 2 jamadars and 4 sweepers continued to be maintained.

Sukkur town.—During the year under report 25,768 cases of malaria were treated in the Municipal dispensaries against 20,985 in the previous year. Malaria brigade consisting of 1 Sanitary sub-inspector and two sweepers was employed. Necessary preventive measures were taken by the Municipality.

Larkana town.—A sum of Rs. 2,000 was sanctioned by the Government for anti-larval treatment of the ponded water in the Old Ghar Canal. Mosquitoe breeding places within the municipal limits were also treated with suitable larvicides. The expenses were met from the grant sanctioned by the Government.

A gang of one jamadar and 3 coolies was appointed. Malariol and Paris Green were used as larvicides. The work is being supervised by the Municipal Sanitary Inspector under the guidance of the Civil Surgeon, Larkana. The Director as well as the Assistant Director of Public Health paid visits to see the operations. The operations in the Ghar canal were supplemented by measures taken to treat all stagnating pools within the Municipal area and half a mile radius beyond.

The result of these measures has been marked and contributed to the reduction in the number of mosquitoes in the centre of the town and in the immediate neighbourhood of the Ghar Canal. It has however been reported that this has not resulted in lowering the incidence of malaria. This is attributed to the cultivation of paddy around the town and it is suggested that this should be prohibited within at least half a mile radius outside the municipal limits. This is the view held by the Sanitary Board, Larkana.

- 7. Government measures: (a) Appointment of Touring Medical Officers.—8 Touring Medical Officers were appointed on anti-malaria duty to tour in rural areas specially in those part where medical aid in the ordinary course was not available. The Touring Medical Officers appointed on anti-malaria duty and the Medical Officers In-charge, Government Motor Travelling Dispensaries, visited 494 villages and treated 30,396 patients (14,689 for malaria and 15,707 for other complaints).
- (b) The sale of Jail made mosquito nets.—There was a great demand for the improved pattern mosquito nets. Many had had to be disappointed as the out-turn of these nets from the District Prison, Karachi, was much reduced as prior consideration was paid to war supplies.
- (c) The Government provided in all a sum of Rs. 44,000 for the free distribution and cheap sale of quinine tablets.
- (d) On account of the increase in the price of quinine, the extent of free distribution of quinine tablets had to be somewhat curtailed. As usual the following agencies were employed for the purposes:—
 - 1. Officers of the Public Health, Revenue Departments, (2) Administrative Officers, School Boards, (3) Philanthropic and Voluntary Societies, (4) Zamindars employing a large number of haris, and (5) the Special Officer, Rural Reconstruction.

- (e) A fishery for the breeding of larvivorous fish (Gambusia) was maintained.
- (f) Quinine tablets were supplied to Post Offices for cheap sale.
 - (g) Leaflets on malaria were printed and distributed.
- (h) Printing and distribution of posters illustrating personal preventive measures against malaria and the value of quinine in the treatment of malaria.
- (i) Two Motor Travelling Dispensaries also toured in the villages and the Medical Officers in-charge of these treated malaria cases.
- (j) Pyrocide '20' was suggested to various authorities. The results obtained have been invariably satisfactory.
- (k) Manufacture and supply of quinine tablets.—Quinine tablets are manufactured at the Hyderabad Central Prison under the supervision of a trained member of the staff.
- 8. During the year under report, 1,640,281 (5 gr.) and 4,414,425 (2 gr.) quinine sulphate tablets were supplied to various agencies as shown below:—

		5 grains.	2 grains.
	Quinine sulphate tablets to Post Offices for cheap sale.	277,956	- 100 OH
2.	Quinine hydrochloride treatment parcels sold to Government Department.	998 parcels (each parcel containing 200 tablets of 5 grains each).	
3.	Quinine sulphate tablets sold to local bodies at consessional rates.	358,925	105,825
	Quinine hydrochloride parcels sold to local bodies.	56 parcels.	
	Quinine sulphate tablets for free dis- tribution (Government Officials).	629,700	879,500
	Quinine sulphate tablets sent to various local bodies for free distribution.	200,000	3,425,000
	Quinine sulphate powder and tablets sold to Government Departments.	173,700 39 lbs.	4,100

^{9.} Special inquiries and investigations. Nil.

CHAPTER X.

MATERNITY AND CHILD WELFARE.

Most of the activities in connection with Maternity and Child Welfare are attributed to voluntary associations, chief of them being (1) The Indian Red Cross Society, (2) The Lady Graham Dais' Improvement and Village Uplift Scheme, Hyderabad, (3) The Lady Graham Dais' Training School, Sukkur and (4) 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. Training Centres.—The Lady Graham Dais' Improvement and Village Uplift Scheme, Hyderabad and the Lady Graham Dais' Training School, Sukkur, are the centres for the training of dais while midwives are trained at the Lady Dufferin Hospital and the Louise Lawerence Institute of Midwifery, Karachi.
- 3. During the year under review, the Countess of Dufferin Fund, Sind Provincial Council (Women's Medical Relief) provided instruments and equipment in Women's Hospitals and Maternity Homes to the value of Rs. 1,333-1-0.
- 4. As a first step in an eight year scheme under which five candidates are to be selected for receiving training in midwifery at the Lady Dufferin Hospital, Karachi, five candidates were sent for the necessary training at the beginning of the year under review. One of the candidates did not proceed with the course. The Government have sanctioned the payment of a monthly scholarship to the extent of Rs. 20 for a period of 12 months. Appointments for successful candidates have also been guranteed. Great difficulty has been experienced in obtaining suitable Sindhi girls who would take up the course.

The Government have also sanctioned the proposal for the establishment of subsidised "Maternity Centres" in rural areas. The essential points in the proposal in question are:—

- (1) The minimum staff of the Maternity Centres should be a trained dai and a peon (the dai should have passed the examination from the school recognised by the Government).
- (2) The share of expenses will be to the extent of 1/3rd of the actual expenses (recurring which will be determined after the receipt of the report of the accounts).

(3) This offer is open to all voluntary associations in rural areas who either maintain a "Maternity Centre" or propose to maintain one at a place where there is neither a Government nor a Local Board Maternity Home or a Hospital.

In order to encourage District Local Boards to establish more Maternity Homes and Centres, it is proposed to recommend the Government to give them also grants-in-aid.

5. Maternity Services in urban and rural areas.—The extent of maternity and child welfare services in urban and rural areas is shown in Appendix 1-A.

There are signs to show that the District Local Boards are now diverting their attention to this most important problem. Given an encouragement by payment of the Government grants-in-aid, it is expected that these services will rapidly improve.

Trained dais have been employed in rural reconstruction centres in Karachi, Nawabshah and Thar Parkar districts.

In some of the towns, child welfare work is carried on by voluntary associations which in some cases is aided by the municipalities concerned.

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	Town.	Septic abortion.	Abortion (Non-septic.	Ectopic gestation.	Other accidents of pregnancy.	Puerperal sepsis.	Puerperal alb. and convulsions.	Other toxaemias of pregnancy.	Embolism and sudden death.	Other accidents of child birth.	Other or unspeci- fied conditions of the puerperal state.	Anaemia.
1			3	4	5	6	7	8	9	10	11	12
						0515			You a		To de	025
Karachi		 	5			36	2	4	2	4	8	5
Hyderabad		 				46		5		I		10
Sukkur		 25	1			II			1		355	3
Shikarpur		 		2	4	1		3	200	8	nanua 	4

Note.—3 deaths due to Consumption, I Asthama, I Malaria, 5 Post partum Haemorrhage, 2 Eclampsia and I obstructed colour.

Note. - Particulars of the remaining deaths could not be collected for want of satisfactory statistical record.

6. The Gov	vernment pays grants-in-aid to the	follo	wing:-
			Rs.
(1) Lady	Dufferin Hospital, Karachi.		25,000
(2) Lady 1	Dufferin Hospital, Shikarpur.		5,000
(3) Baker	Mission Hospital, Larkana.		2,000
(4) Alexan	ndra Mission Hospital, Sukkur.		1,200
(5) Lady (Graham Dais Improvement Scheme	·	3,000
(6) Zanana	a Mission Hospital, Hyderabad.		2,380
(1) Margan	ret Gibson Maternity Home, Sujawa	al	1,000
(8) Karach	hi Health Association.		2,000
(9) Female	e Dispensary, Tando Adam.		2,050
	Candiram Verhomal Maternity		
	Rohri.		1,000
(11) Ishwar	ibai Maternity Home, Shikarpur.		500
(12) Red C	Cross Society.		2,000
	Total		47,130

CHAPTER XI.

SOCIAL HYGIENE AND MEDICAL INSPECTION OF SCHOOL CHILDREN.

 Medical Inspection of School Children continued to be done by the Sind Subordinate Service Medical Officers in-charge dispensaries.

During the year under report, the number of school children examined was 67,487 as against 63,596. The principal defects noted were:—

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

It is under consideration to evolve a form for the use of the Medical Officers in which they should enter the results of their examinations. The question of revising the present system is also under consideration.

- 2. The Government Inspectors of Sanitation and Vaccination visited 105 schools to inspect the vaccinal condition of the school children and to inspect sanitation, ventilation and water-supply. Of 2,985 children examined, 675 were found to have enlarged spleens. They delivered 83 lectures on tuberculosis and general hygiene.
- 3. In accordance with the recommendation of the Central Advisory Board of Health (1939), the local bodies in the Province were suggested to introduce a system of medical inspection of all school children before admission into the schools. This did not find favour with them. At present medical inspection of school children is being done in Hyderabad town where the Municipality have engaged part-time services of a local medical practitioner. This, it has been reported, has proved useful.

CHAPTER XII.

HEALTH PROPAGANDA.

I. No special staff has so far been entertained exclusively for carrying on public health propaganda. The importance of this activity is not over-looked and every opportunity is taken to give instruction to the public in matters affecting health, nutrition, and the prevention of disease. This is arranged by the creation of public health stalls at Rural Reconstruction and other shows organised in the Province. A qualified clerk from the Head Office and an Inspector of Sanitation and Vaccination are put in-charge of the public health stalls and explain to visitors the significance of the exhibits. Lectures are delivered to the people who assemble at these shows. It has been noticed that the Public Health Stalls have proved of interest and receive all round appreciation. A separate staff for this is absolutely necessary, and a scheme in this connection has been submitted to the Government, and accepted in principle.

The Medical Officer In-charge of the Government Motor Travelling Dispensaries have been supplied with magic lanterns and propaganda material.

The work done by other agencies was as shown below :-

1. Isardas Asanmal Health Association, Karachi.—The Health Visitor paid visits to 5,156 houses, talked to 10,312 women, paid visits to 1,579 ante-natal cases and discovered pregnant women, revisited 861 pregnant women, visited 1,034 post-natal cases.

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The Association was given a grant-in-aid of Rs. 2,000 by the Government.

2. Red Cross Society.—Popular Health propaganda was carried on throughout the year. Twenty-five lectures on general health and on various diseases were organised in schools and other public institutions.

The Society maintained 4 maternity homes and two maternity and child welfare centres and one dais training school.

Junior Red Cross.—The number of groups during the year 1940 totalled 273 with 14,081 members. The Juniors carried the message of health in rural areas by organising processions, free distribution of quinine and cleaning the villages. Propaganda was done in all districts during smallpox and cholera epidemics.

3. Provincial Public Health Department.—In addition to what has been described in paragraph 1 above, the Medical Officers incharge Government Motor Travelling Dispensaries also carried out propaganda work. Propaganda was done by the Inspectors of Sanitation and Vaccination as well.

Anti-malaria propaganda.—As usual anti-malaria propaganda was carried on with the aid of pictorial posters. Leaflets on malaria were widely distributed and cheap mosquito net was demonstrated at the Shows as well as by the Touring Medical Officers on anti-malaria duty and the Government Inspectors of Sanitation and Vaccination.

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

CHAPTER XIII.

PUBLIC HEALTH ADMINISTRATION.

1. General Administration of the Department—Budget allotments, increase and decrease, etc.—The administrative head of the Public Health Department was the Director of Health Services and Inspector-General of Prisons. 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 75 Vaccinators. There were three Chemical Assistants in the Laboratory. The Bacteriological Assistant continued to officiate as Officer In-charge, Chemico Bacteriological Laboratory in addition to his own duties.

The Municipalities in the Province employed 6 qualified Medical Officers of Health (3 in the City of Karachi) and 26 qualified Sanitary Inspectors.

Although section 119 of the Bombay District Local Boards Act, 1923, was amended early in 1939, making it compulsory for each District Local Board to appoint a District Health Officer, it is regrettable to note that no such appointment has been made except in the district of Larkana, where the District Health Officer had been appointed long before the said amendment.

Appendices 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 dais.

Appendix II shows the annual income and expenditure of the Public Health Department during the year 1940-41. 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. 16,479. The total expenditure including this amount was Rs. 1,88,652.

- 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. It is now being considered that the control of vaccination should again rest entirely with the Government.
- 3. Training of Public Health Personnel: Training of Sanitary Inspectors.—The Karachi Municipal Corporation propose opening classes for the Sanitary Inspectors' Course. The Government of Sind were pleased to extend their recognition to the same. The classes were however not conducted during the year under report.

CHAPTER XIV.

(This chapter and all statistical tables connected therewith refer to the period from 1st April, 1940 to 31st March, 1941.)

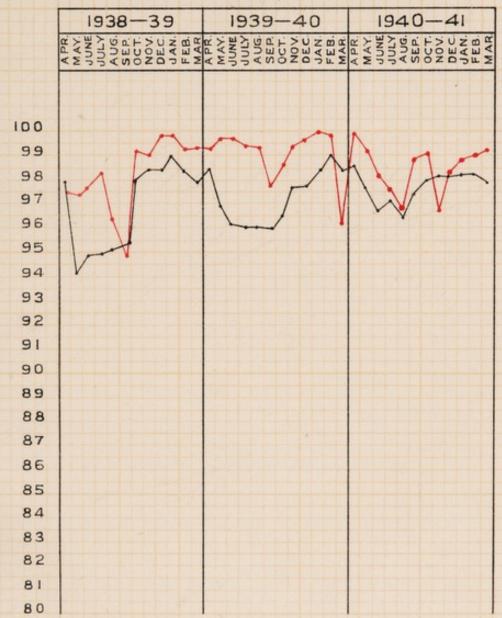
- 1. Change in the strength of establishment.—As a result of the appointment of more Public vaccinators, the vaccination establishment increased from 65 to 75.
- 2. Primary Vaccinations. (Appendix IV, Statement I).—The number of persons primarily vaccinated was 145,112 as compared with 142,408 in the previous year showing an increase of 2,704.
- 3. Results.—Out of 1,45,112 primary vaccinations, 1,34,613 or 92.76 per cent. were successful and 173 or 0.12 per cent. were unsuccessful and in the remaining 10,326 cases or 7.12 per cent. the results could not be ascertained. 12 persons were vaccinated a second time owing to the failure of the first operation.
- 4. Age and Sex.—Out of 145,112 primary vaccinations 76,890 or 52.99 per cent. were infants under one year of age, 61,304 or 42.24 per cent. children between the ages of one and six years and 6,918 or 4.77 per cent. of children over six years of age. By sex 77,744 were males and 67,368 were females equal to a proportion of 115.04 to 100.
- 5. Revaccination. (Appendix IV, Statement I).—56,863 persons were revaccinated during the year under report as against 73,605 in the previous year.

The percentage of successful revaccination was 6.54. The results could not be ascertained in 45.02 per cent. of cases.

- 6. Vaccination of Pilgrims in Karachi.—The outward Haj season commenced from the 18th November 1940, and terminated on the 23rd December, 1940. The total pilgrims sailed from the port of Karachi to Jedda was 2,143 of these 1,854 were males and 440 females excluding the number of children of both sexes which was 34. The temporary vaccination establishment consisted of one male vaccinator and one female vaccinator, one clerk and one cooly. The work of the vaccinators was, as usual, supervised by the Superintendent of Vaccination, Karachi Municipal Corporation. The total expenditure on the establishment was Rs. 214-11-6.
- 7. Primary and Revaccination in Indian States.—In accordance with the Government, General Department, Resolution 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.

CHART VIII

SERTION SUCCESS RATES OF PRIMARY VACCINATIONS WITH SLYCERINATED LYMPH IN THE PROVINCE OF SIND AND KARACHI CITY FOR THE YEARS 1938-39, 1939-40 AND 1940-41.





G. P. Z. P. POONA,



- 8. Cost of Vaccination.—The cost of vaccination amounted to Rs. 1,16,570 as against Rs. 1,13,384 in the previous year. The average cost of each successful case of vaccination was Re. 0-13-6 as compared with Re. 0-13-6 in the previous year.
- 9. Vaccine Institute.—There is no Vaccine Institute in Sind. Supplies of glycerinated calf lymph continued to be obtained from the Vaccine Institute, Belgaum. 24,980 doses of lymph were sent for and stored in the Head Office refrigerator for emergent use, of which 23,015 doses were supplied to the vaccinators in addition to their regular weekly supplies.
- 10. Compulsory Vaccination.—Vaccination is now compulsory in all Municipal towns in the Province. During the year under review 242 prosecutions were instituted under the provisions of the Compulsory Vaccination Acts. Out of these 195 persons got their children vaccinated before the cases were heard, 7 were fined, 5 died, 3 were warned, 25 are pending, 2 were not traceable and 5 were withdrawn.

The question of introducing the system of compulsory vaccination in rural areas had been under consideration for some time. As a first step towards the realization of this object, the Sanitary and Notified Area Committees situated at the taluka headquarters were persuaded to agree to the extension of the provisions of the Compulsory Vaccination Act within their limits. The response is not discouraging. Efforts in this connection are not relaxed and it is expected very soon vaccination will be compulsory within the limits of the Sanitary and Notified Area Committees.

- 11. General Remarks.—Separate Public Vaccinators are being appointed in the Municipal towns to which the provisions of the Compulsory Vaccination Act have been of late extended.
- 12. Ill effects of vaccination.—No ill effects were reported to have occurred after vaccination.

During the year 1940-41, 8 candidates were trained in vaccination. There were in all 16 candidates on the list of waiting candidates for service in the Province.

CHAPTER XV.

OTHER PUBLIC HEALTH SERVICES.

- I. Public Health Laboratory. The Chemico Bacteriological Laboratory, Karachi.—Mr. H. C. Hiranandani, Bacteriological Assistant continued to officiate as Officer In-charge, Chemico Bacteriological Laboratory throughout the year. There are two sections in the laboratory, viz., a Chemical Examiner's Section and a Public Health Section. The report in respect of the former is published separately.
- 2. The total number of samples examined during the year under report was 7,606 as against 7,838 in the previous year.

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

Kind of samples.	-	1936.	1937.	1938.	1939.	1940.
Chemical examination of water .		895	461	446	455	442
Bacteriological examination water.	of	1,508	2,110	2,711	2,204	2,462
Public Analysts work .		3,940	3,857	5,054	4,672	4,228
Chemical examination of foodstuff	s.	120	113	180	106	34
Diagnostic work		3,541	13,616	3,817	388	428
Miscellaneous	-	2	57	7	13	12
Total .		10,006	20,214	12,215	7,838	7,606

3. Examination of water supplies :-

Karachi.—Bacteriological examination of raw water is done daily. 291 such samples were examined. The number of samples examined after purification by chlorine was 1,453. In addition to the daily examinations, extra samples were received for bacteriological examination. These were collected from various houses in different localities where cases of continued fever were reported or complaints received as regards possible contamination of the water. The number of samples of this nature totalled 593. Other examinations included 48 samples for chemical analysis of water and 15 samples for mineral matters.

Hyderabad.—29 samples were received for bacteriological examination as against 12 in the previous year.

With a view to provide liberal facilities, the Municipality has been suggested to pay a fixed annual contribution towards the Laboratory in consideration of which the number of samples to be examined will be more than what would have been the case if a retail charge of Rs. 5 were levied.

Sukkur.—The number of samples examined bacteriologically and chemically was 70 and 16 respectively. The corresponding number of samples during the previous year was 37 and 13 respectively. The municipality pays a fixed annual contribution of Rs. 640.

Jacobabad.—The municipality pays a fixed annual contribution of Rs. 150 for the examination of water for a fixed number of 36 samples. It is rather curious on the part of the municipality to have sent only 3 samples for chemical examination during the year under report.

The Officer In-charge, Chemico Bacteriological Laboratory, Karachi, inspected Sukkur, Rohri and Jacobabad water works. He also investigated as to the causes of contamination of the water at Kotri.

- 4. Diagnostic work.—In the year 1937, the Government prescribed provisionally, for a period of three years in the first instance, a flat rate of rupees two for the bacteriological examination at the Laboratory, of each sample of material sent by any local body from cases of infectious diseases. Practically no advantage of this was taken by local authorities as, during the period of 2 years and 4 months, only three samples were sent for examination. As it was felt very strongly that the examination of materials from infectious disease cases was absolutely necessary, Government were pleased to direct that for a period of one year, in the first instance, five samples of materials from cases of infectious diseases sent by local bodies for bacteriological examination at the Chemico Bacteriological Laboratory, Karachi, should be examined free of charge. It was further directed that any sample in excess of this number should be examined at the rate of Re. I per sample.
- 5. The Government issued orders in November 1939, that for a period of one year all analytical work sent to the Chemico Bacteriological Laboratory, Karachi, on behalf of in-patients at the Government or Government aided hospitals and dispensaries who are exempted from the payment of hospital or dispensary fees, is to be done free of charge. After the expiry of one year it was found that full advantage had not been taken of the above orders. It was therefore deemed necessary that the concession so afforded should continue for a period of three years and that it should be extended to out-patients as well. This was accepted by the Government and necessary orders on the subject have been issued. During the year under report 149 samples of various nature of

diagnostic materials were examined as against 32 in the previous year.

The Karachi Municipal Corporation have made their own arrangements for the bacteriological examinations.

Diagnostic work was sent to the Laboratory by the Assistant Director of Public Health, Inspector-General of Prisons, Port Health Officer, Karachi, and private parties.

6. Food Adulteration.—The following more were added to the list of the Municipal towns in which the provisions of the Bombay Prevention of Adulteration Act, 1925, were extended:—

Mirpurkhas, Tando Adam.

The question of the payment of annual contribution for the examination of articles of foodstuffs at the laboratory, was under consideration.

With a view to effecting a check as far as possible on the adulteration of milk and ghee in rural areas, a scheme has been submitted to the Government which is receiving their attention. The salient features of this scheme are the appointment by the Government of the Food Inspectors, and shouldering the entire responsibility consequent upon the enforcement of the provisions of the Bombay Prevention of Adulteration Act, 1925. Some of the minor municipalities whose financial condition is represented to be poor also come within the scope of the said scheme.

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

		Ghee an	d butter.	M	ilk.	
То	wn.	No. of samples.	Percentage of adultera- tion.	No. of samples.	Pecentage of adultera- tion.	
Karachi		 959	14.3	1,635	17.8	
Shikarpur		 140	30.7	18	7	
Sukkur		 108	42.5	59	15.2	
Tatta		 6	16.6		B	
Tando Adam		 2			- Intelligen	
Mirpurkhas		 24	75.0	17	41.2	
Larkana		 3	33.0			

The following statement gives indication of prosecutions and results thereof:—

Name of	f town		No. acquit- ted.		No. con- vict- ed.	No. pend- ing.	Extent of fines.
Karachi	at .	 583	1	8	538	36	Maximum fine im- posed Rs. 50.
Shikarpur		 46	**		28	18	Maximum fine Rs. 150 and minimum Rs. 10
Sukkur		 11		9	2		Each fined Rs. 5.
Tatta		 1			I		Rs. 15.
Tando Adam		 					N ISW FIRE
Mirpurkhas		 9				9	Maximum fine
Larkana		 4		1	4		Rs 20.

It will be seen from the above statement that 9 cases were withdrawn by the Sukkur municipality. This was done, it is reported, because the parties concerned paid analysis charges and other expenditure. This action of the Municipality is unwarranted. The cases should not have been withdrawn.

Financial position.—Total receipts during the year 1940-41 amounted to about Rs. 36,000 and the expenditure was Rs. 26,298-9-2.

7. Industrial Hygiene including Hygiene of Mines.—Both the Director and Assistant Director of Public Health made inspection of factories (registered under the Factories Act). Reports on the defects noticed were sent to the management of the factories. 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.—Mr. O. M. Akbani, M.B., B.S., D.P.H. (London), Assistant Director of Public Health, Sind, who had received training in nutrition at the Nutrition Research Laboratories, Coonoor, has been paying as much attention as possible to this important subject. The work done in this connection is briefly described as under:—
 - (i) Propaganda with the aid of nutrition charts has been carried on at Rural Reconstruction and other shows organised in this Province. Articles of foodstuffs arranged in order of "Well balanced" and "Ill balanced" diets were exhibited and the significance of these was explained to visitors to the public health stall.
 - (ii) Nutrition charts were printed in Sindhi and distributed free of charge among teaching institutions.
 - (iii) A pamphlet on 'MILK' was prepared and printed. This was widely distributed.
 - (iv) A simple pictorial poster illustrating the value of milk as a food is under preparation and will be issued shortly.
- 2. Stegomyia mosquito control in Major Sea Ports in India.— A conference was held in the office of the Director of Health Services, Sind, on 26th October, 1936, with a view to ascertaining by mutual discussion whether it would be possible for the various authorities concerned to undertake a "Stegomyia Index" for the areas in and around the City of Karachi, including the marine airport and the airport at Drigh Road.

As a result of the decision arrived at the "Stegomyia Index Conference" the various local authorities take necessary measures and forward a monthly statement of "Stegomyia Index" which in turn is consolidated and sent to the Public Health Commissioner with the Government of India every month.

(1) Karachi Port Trust.—Anti-stegomyia measures in the harbour area and the adjoining Karachi Port Trust Estate were carried out thoroughout the year under the direction of the Port HealtI Officer, Karachi. A separate staff, including one Medical Officer and one qualified Sanitary Inspector was entertained by the Karachi Port Trust for the purpose. All newly arrived Country Crafts are inspected for mosquito breeding.

- (2) Karachi Municipal Corporation.—In addition to the Mosquito Brigade maintained by the Karachi Municipal Corporation one munshi and three coolies have been exclusively entertained for working out systematically the 'Stegomyia Index' for the islands of Baba, Bhit, Bunker and Shamspir.
- (3) Karachi Cantonment Area.—No establishment has been exclusively entertained. The work was carried out by the Antimalarial squads.
- (4) North-Western Railway, Karachi.—No special staff solely for this purpose was engaged. The work was carried out by the anti-malaria squads working for the destruction of mosquitoes and their larvae wholesale. The occupants of the houses were actually given a demonstration by showing them in the larvae breeding in the chaties in their houses.
- (5) Airport Area.—The staff engaged on this work was the Airport anti-mosquito gang assisted by the coolies engaged out of a special District Local Board, Karachi, grant of Rs. 360.
- (6) Drigh Road Cantonment.—The Drigh Road Cantonment is controlled by the S.E.M.O. Drigh Road and includes the Ordance lines and a Native Bazar. The Royal Air Force supply four anti-malarial coolies and the Sind Brigade, Western Command, two coolies. In times of very heavy rains when extra labour is required the Royal Air Force camp sweepers are co-opted into helping, or if not available then extra anti-malarial coolies are employed and paid out of the Anti-malarial Funds.

Breeding places of mosquitoes were looked for and were dealt with. Pools were emptied either by the water pump or drainage channels. Pools which were too large to be empted were oiled. Malariol was also used. Supervision was kept over all collections of water, such as fire-buckets, pumps and tanks which were emptied every week.

All buildings in the Cantonment area were regularly searched for mosquitoes, and places harbouring them were sprayed with "Substitute Flit".

- (7) Manora Cantonment.—There are three areas supervised, viz., (1) Military, (2) R.I.N. and (3) Karachi Port Trust. One sweeper is employed by the Karachi Port Trust while the former two employed no special staff for the purpose. The supervision was carried out by the Medical Officers in each area.
- 3. Public Health Act.—There is no 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 work done by the Board of Public Health Works in Sind in the year 1940:—

The project for the Drainage of Kambar town estimated to cost Rs. 1,00,000 was approved by the Board of Public Health Works for Sind and technically sanctioned by the Consulting Public Health Engineer to Government of Sind.

- 2. It is proposed to finance the scheme by raising a loan and the Administrator of the Kambar Municipality is anxious to carry out the work through a special staff to be appointed for the purpose, as soon as permission to raise a loan is granted and funds are made available.
- 3. The total cost of the projects approved by the Board so far, amounts to Rs. 44,45,773. Further more, the schemes for a Rapid Filtration plant for Hyderabad Water-Supply, and the Hyderabad Drainage (partial scheme) first stage estimated to cost Rs. 10,00,550, approved by the Board of Public Health Works for Bombay Presidency before Sind was constituted into a separate Province, are also pending execution.
- 4. Out of these projects, the work of improvements to Sukkur water-supply Distribution System estimated to cost Rs. 3,92,500 is nearing completion. The scheme pertaining to the improvements of Karachi Water Supply are estimated to cost Rs. 29,80,748 out of which, schemes costing Rs. 2,49,213 have been completed and the work on the remaining main Improved Pressure Scheme of the Karachi Water Supply Distribution System (estimated cost Rs. 27,31,535 approved in 1939) has also been started.
- 5. For the scheme of the Rapid Filtration plant for Hyderabad Water Supply, the Municipality has been granted permission to raise the required loan to carry out the work, but presumably due to the war, it has been postponed for the present. The drainage scheme for Hyderabad will be carried out after permission for the raising of a loan to finance it is granted and funds are raised for the purpose.
- 6. The remaining two schemes for the drainage of the town of Jacobabad and improvements to the water-supply (estimated cost Rs. 5,72,525) and the Larkana Drainage estimated cost Rs. 4,00,000 have also not been started as yet. The Administrator, Larkana Municipality is anxious to start part of the Larkana Drainage scheme in the year 1941, whereas for the Jacobabad water-supply improvement scheme, although

permission to raise a loan to finance scheme has been granted long ago, the municipality has not been able to raise the requisite funds to do the work.

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

Sukkur Municipality.—The Municipality is preparing a scheme for improvements to the drainage of the whole town, which stands in very bad need of such an improvement. The question for the site of the sullage farm has been settled now.

Mirpurkhas Municipality.—The Municipality has appointed a special staff to prepare a water-supply and drainage scheme for the town. The necessary plans and estimates for the two schemes in question are under preparation.

Kotri Municipality.—The plans and estimates for the watersupply and drainage schemes of Kotri town had been prepared. It has been sent to the Municipality for approval. The drainage scheme is also being prepared.

Shahdadpur Municipality.—The preliminary scheme for drainage will be prepared shortly as soon as the survey work is finished.

Garhi Yassin Municipality.—The Municipality has been asked to furnish requisite data to prepare a drainage scheme for the town.

Furthermore, the small municipalities of Umerkot, Ratodero and Tando Allahyar have also shown their desire to improve the drainage of their towns; and Tatta and Manjhand Municipalities require water-supply schemes. They have been asked to supply the necessary data in order to proceed with the preparation of the schemes.

6. Problems of Public Health, Co-operation between various local authorities.—Sanitary Boards to ensure the co-operation of local authorities in the area have been formed at all District Head-quarter towns. Of these regular monthly meetings are held only by the Karachi Sanitary Board. It has been reported that the attendance of all members had been most regular with the exception of the District Board representative who had been conspicuous by his absence. It has also been reported that there had been great co-operation between the various members of the Board who had been able to assist each other during the cholera epidemic. This Board has been recognised by the Government of Sind.

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 Ser- vices and Inspector General of Prisons.	LieutCol. N. Briggs, M.R.C.S (Eng.), D.P.H, I. M. S.	ist January to 31st Decem- ber 1940.	internation
Assistant Director of Public Health, Sind.	Mr. O. M. Akbani, M.B., B. S. (Bom.), D. P. H. (London).	Do.	a delda
Officer In-Charge, Chemico Bacteriologi- cal	Mr. H. C. Hiranandani.	Do.	Officiating in addition to his own duties.

The post of the Officer In-charge, Chemico Bacteriological Laboratory, Karachi, and the Chemical Examiner to the 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 Committee 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 remained as Chairman of the Red Cross Maternity and Child Welfare Sub-Committee. He inspected the Sanitary conditions of the towns and advised the Municipalities concerned on public health measures.

The Assistant Director of Public Health, Sind, inspected the sanitary conditions of the Municipal towns as well as Sanitary and Notified Area Committees and made out a report embodying the defects noted and their remedial measures. He also inspected the Police Lines and Sub-Jails and dispensaries and brought to the notice of the authorities concerned the improvements from the public health view point. He inspected factories in his capacity as Ex-officio Inspector of Factories, approved site plans for construction of school buildings and wells and gave opinion on the analytical results of samples of water examined at the Chemico Bacteriological Laboratory, when asked to do so. He gave practical training to the touring medical officers appointed on anti-malaria duty, at Hyderabad for a week. He visited Sukkur specially in connection with the mosquito menace. He attended the Lal Shahbhaz Fair and took necessary measures in conjunction with the Collector and the District Medical Officer. He delivered lectures in Hygiene to the Hyderabad Medical students and gave them practical demonstrations at Karachi. He attended the meetings of

the Karachi Sanitary Board. In the course of his visit to Dadu town he availed of the opportunity to attend the meeting of the Sanitary Board of that place. He went round the cholera affected localities in the City of Karachi as well as upcountry.

The Inspectors of Sanitation and Vaccination gave lectures on tuberculosis in the schools, and inspected the vaccinal condition of school children. They attended fairs held in their beats and took necessary measures. They inspected the sanitary conditions of the Sanitary Committee and Notified Area Committee villages. They checked the vaccination work performed by the vaccinators by personal visits to the villages and by calling out the names of the children from the registers and noted the results. The Inspectors paid periodical visits to the areas selected for intensive rural reconstruction work. They also worked in the cholera affected areas.

Office staff.—After the separation of Sind, the Offices of the Director (Public Health Department) and Assistant Director were combined and two more junior clerks were appointed. There has been alround increase in the work and the staff is overworked. The manner in which the entire staff worked in close co-operation and discharged their duties efficiently, is highly appreciated.

The Laboratory staff also worked well.

O. M. AKBANI, D.P.H. (London), Director of Health Services, Sind, Karachi.

Karachi, 27th September, 1941.

APPENDI

Table showing Health Services in Rural and Urban

						Rur	al areas.		
		М	edical Offic	cers of Heal	th.	P		Vace	nators.
Dia	stricts.	Holding	D. P. H.		ntlates H. S.	Epidemie staff-	Sanitary and Health In-	build p	1
		Whole time.	Part time.	Whole time.	Part time.		spectors.	Male-	Female.
	1	2	3	4	5	6	7	8	9
Karachi	***	 						9	
Dadu		 						8	
Hyderabad		 						11 .	
				10					
Vawabshah		 ***						10	
har Parkar		 		***				13	
arkana		 		(Holding M.B. B.S.,		1		8	4
Sukkur		 		dogree.)				9	
pper Sind P	rontier	 			150	To View		.6	
	Total	 		1		1		74	4

as in the Province of Sind during 1940.

					1111	Urban area	s.				
		Me	dical Offic	ers of Healt	h.	-	Vacci	nators.			
ical ers.	cal Health rs. staff.	Holding	D. P. H.	Lieen L. P.	tiates H. S.	Sanitary and Health Ins-	Male-	Female.	Ins- pectors of Vacci- nation.	School Medical Officers.	Othe Healt staff.
		Whole time.		Whole time.	Part time.	pectors.					
0	11	12	13	14	15	16	17	18	19	20	21
		3		3		8	5	2			
		5					3				
		1				4 .	3		(Supe- rinten-	(Part time).	
									Vacci- nation).		
						2	3				
			÷			1	1				
						2	3				
						1 1 1					
		2				8	3			***	
						1	1				
		6		3		26	22	2	1	1	

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 1940.

	1	Matern	ity and res mai	Child	Welfar d by—	е						
District.		rern-	Muni	Local and Municipal Bodies. Other agencies.		Trained visitors.		Trained mid-wives		Trained dais		
	Rural,	Urban.	Rural.	Urben.	Raral.	Urban.	Rural.	Urban.	Rural.	Urban.	Rural.	Urban.
Karachi			1	6		2		4		6	1	
I-adu			8	44		2				3	5	
Hyderabad			2	1		1				1	1	
Nawabshah						2				2	5	
Thar Parkar			1	1		***				1	8	
Larkana			18	1		1			2		17	
Sukkur			1	1	4	4		1		9	6	
Upper Sind Frontier			1	1	1	2			1	2	3	
Total			29	11	5	14		5	3	24	46	

APPENDIX II,

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

Sind, during the year 1940-41.

Total,	R8,	9,967 Charged. 1,01,503 Voted. 651 Charged.	26,316 Voted.	50,215 Voted.	10,618 Charged.
Other charges including ox- penditure on Medical Officers appointed on malaria, quinine, etc.	Rs.	54,246	1	1	54,246
Grant-in-aid to Local Bodies.	Bs.	(9)661'11	ı	5,280(c)	16,479
Contin- gencies.	Rs.	3,773	6,339	:	10,113
Allowni- offs.	Bs.	6,763 651(a)	3,186	10,503	21,103
Pay of Establish- ment including menials.	Rs.	30,482	11,770	34,432	66,684
Pay of officers and leave salaries, etc.	Bs.	15,007	5,021	1	20,028
Total.	Bs.	:	1,02,883		1,02,883*
Deduct refunds.	Bs.		-348	:	-348
Collection of fees of fees services rendered.	Rs.	4	11,234	:	11,234*
Recovery of over payments.	Rs.	1	10	:	10.
Mis- cellane- ous.	Rs.	:	36,761	:	36,761
Contri- bution	Rs.	1	39,577	:	39,577
Sale proceeds of sera vaccines, quinine and malaria posters, efc.	Rs.	!	15,649		15,649
Name of Institute.		Director of Health Services and Assistant Director of Public Health, Sind.	Chemico-Bacteriolozi c a l Laboratory, Karachi.	Local Vaccination Estab-	Total
	Safe proceeds of scrat. Collection ous, payments. services and leave and leave and leave and leave. Set. e.c. leave. cells and leave and	Sale proceeds of series of cellane of over ous, payments. services rendered. Rs.	of Institute. Sale proceeds of the control of the	Sale series Contrice Collection Collection Pay of series Contrice Collection Col	Sale (and series). Contribution out. Sale

. These includes amounts pertaining to Anti-Rabic charges, fees realised by the Consulting Public Health Engineer and Consulting Surveyor to the Government of Sind.

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

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

APPENDI

FOR

Annual statement showing the Births register-

1	2				3			4		
	Districts ar	ol Yown		Population	n according to	Census	Number of Births registered.			
No.	and Rural	Circles.		Male-	Female.	Total.	Male.	Female.	Total.	
1	Karachi			3,28,679	2,50,753	5,79,432	10,337	9,054	19,31	
2	Hyderabad			3,71,097	2,90,679	6,61,776	5,290	3,944	9,21	
3	Nawabshah			2,79,032	2,17,580	4,96,612	5,587	4,172	9,71	
4	Thar Parkar			2,61,945	2,06,095	4,68,040	4,558	3,777	8,33	
5	Larkana			2,50,178	2,01,963	4,52,141	5,707	4,404	10,1	
8	Dadu			1,87,071	1,47,211	3,34,282	3,865	2,871	6,73	
7	Sukkur			3,49,312	2,74,467	6,23,779	8,335	6,797	15,1:	
8	Upper Sind Fro	ntier		1,45,588	1,14,738	2,60,326	1,950	1,344	3,20	
9	Fown Circles			3,96,171	2,89,031	6,85,202	15,328	13,556	28,8	
10	Sural Circles			17,76,731	14,14,455	31,91,186	30,301	22,807	53,10	
11	Grand total of t	he Provi	ince.	21,72,903	17,03,486	38,76,388	45,629	36,363	81,99	

FORM No. 1 (a). Annual statement showing still-births register during

erial	Districts.			Muhami	nadans	Hin	dus-	Jains.		
No.				Male-	Female.	Male.	Female.	Male.	Females	
1	Karachi			109	106	160	135			
2	Hyderabad			29	20	89	83			
3	Nawabshah			7	5	19	12			
4	Thar Parkar			3			2			
- 5	Larkana			18	16	28	20	***		
6	Dadu			6	8	7	11			
- 7	Sukkur			22	24	113	85	1++		
- 8	Upper Sind F	rontier		1	1	1	1			
	Total, of the	Province		195	180	417	349			

0.1.

the Districts of the Province of Sind during 1940.

	6			5	saltuda here	
aring	Births per 1,000 dious five years.	Mean Ratio o	pulation.	Births per 1,000 of po	Ratio of I	
Total.	Female.	Male.	Total.	Female.	ale-	Ma
30*8	14.49	16.35	33-47	15-63	17:84	
15.00	6,57	8:49	13-95	5.96	7.99	
15.7	6147	9-24	19-65	8:40	11.25	
17*70	7.73	9*97	17:81	8.07	9.74	
22*80	10.00	12.80	22:36	9.74	12.62	
17-77	7.62	10.12	20.15	8-59	11.26	
23,6	10-51	13-14	24.26	10-90	13.36	
14.88	6.25	8.60	13.03	5-54	7-49	
39.20	18.53	20-67	42-16	19-78	22.38	
16:27	6.93	9:34	16.64	7.15	9:49	4
20:33	8.99	11:34	21.12	9-38	11.77	

cording to the classes and sex in the Districts of the Province of Sind e year 1940.

Chris	tians.	Pa	Parsis.		Other classes.		Total.			
ale. Female.		Male.	Female.	Male.	Female.	Maie.	Maie. Female.		tage Rati to live. births.	
8	6	1				278	247	525	2.75	
	1					118	104	222	2'40	
						26	17	43	0.44	
						3	2	5	0.06	
						46	36	82	0-81	
	No.					13	19	32	0.42	
	***		***	***		135	109	244	1.61	
						2	2	4	0.13	
8	7	1				621	536	1,157	1.41	

APPENDI

FOR

Annual statement showing the Deaths registered in to

1		2				3	4		5	10.
						niles.	tion per	Nu	mber of dea egistered.	ths
Serial Number.		Distric	ts,	1:31		Area in square miles.	Average population per square mile.	Male:	Female.	Total.
					1			740	110	2
1	Karachi			R. C.		1,615	23	143	116	2
2	Tatta			37		1,318	46		177	3
3	Mirpur Sakro					1,138	30	220	23.1	
4	Ghorabari			"		339	69	113	119	2
5	Ketibundar			м		213	63	41	34	
6	Mirpur Batho	ro		",		272	158	253	173	4
7	Sujawal					269	14	228	163	3
8	Jati			.,		1,475	23	192	149	3
9	Shahbandar			* 2		1,388	29	267	221	4
10	Karachi		***	т. с.		} 62	4,098	3,698	3,225	6,9
11	Karachi	***		C. C.)		76	48	1
12	Drigh Road		***	**				4	2	
13	Tatta	***		T. C				42	38	
		Total,	Karachi	Distric	t	8,089	72	5,443	4,583	10,0
14	Hyderabad			R. C.		366	212	356	246	•
15	Guni		***	",		987	106	350	244	
16	Tando Bago			21		650	105	350	276	•
17	Badin			,,		792	113	453	328	:
18	Tando Allah		141	.,		595	103	352	227	1
19	Hala			,,		511	233	451	328	:
20	Matli					498	94	461	313	:
21	Hyderabad		***	т. с.)		1,753	1,422	3,
22	Hyderabad			C. C.		} 18	5,334	10	4	
23	Hala			T. C.				54	58	
24	Matiari			,,				19	29	
25	Tando Muh			.,				80	68	
26	Nasarpur			,,				47	28	
27	Tando Allal			,,				39	37	
				"	-					
	Tot	al West	lerabad I	01-4-1-4		4,417	150	4,786	3,608	8,

contd.

II.

ricts of the Province of Sind during the year 1940.

			Deaths	per 1.000	of popul	ation from	m				7	
			pur	Ą.		other		ill cause	8.	per	ratio of 1,000 du ous five	ring
Small-pox.	Plague.	Fevers.	Dysentery Diarrhos.	Respiratory seases.	Injuries.	All causes.	Nale.	Female.	Total.	Male.	Female.	Total.
		1										
		3.70	0.03	2.22	0.06	1.05	7.68	6-99	7-36	9.45	9.39	9.4
0.41		2.28	0.08	0.81	0.14	1.14	5.76	4'43	5.19	6.31	6.24	6.5
0.26		5.85	0.06	2.94	0.23	2.21	11.72	11'35	11.55	9-42	8.98	9:
0.20		3.74	0.08	3.19	0.24	2.05	8:31	11.00	9.50	8-52	9-15	9:1
0.30	***	2-44	0.02	1.03	0.07	1.62	5.67	5.38	5.53	8.01	7-90	7.8
0-26		4.13	0-24	3.27	0:18	1.77	10.55	9.19	9.95	10.73	9-18	10-1
0.22		5-17	0.02	2.95	0.16	1'45	10.80	9.09	10:33	11-31	9-92	10%
0.23		5.03	0 23	2.54	014	1.67	9-99	9.65	9.81	10.82	9.52	10:1
		4:41	0.20	5.52	0.23	1.87	12.10	12:39	12.23	11.87	11-49	11:3
0.08	***	1.28	2.41	11-93	0.33	11-79	25.49	31.39	27:94	24:04	28.00	25.6
		5-93	0.80	1:44		11.70	20.20	18-95	19.87	16-99	18-55	17:6
		1.20		0.50		1'00	2.86	3.33	3:00	1:42	3.33	2'(
0-20		2.91	0.10	2.91	0.10	3.08	8.21	8-41	8:30	12-71	9-85	11:4
		188				- 10					0 00	11.0
0.17		2-92	1:11	6:70	0.51	6.08	16.56	18:20	17:37	16-15	17:03	16.5
												100
		1,500			in in							
0.55	***	3.93	0.01	1.68	0.13	1.42	8.18	7-14	7.72	9:05	7-92	8-5
0.11		3.74	0.03	1.32	0.04	0.83	6:35	5.69	6.02	7.35	6.67	7.0
0.12		6-39	0.01	1.21	0:07	1.08	9.11	9:34	9-21	7:03	5.85	6-5
0.54		4.52	0.05	2.39	0.06	1.19	9-03	8.38	8.75	7.57	7.10	7.3
)-15		9.36	0.03	0.47	0.06	1.09	12-14	9*84	11-15	15.11	12:20	13-7
0.03		5.50	0.06	0.84	0.05	1.34	7.96	7.64	7.82	10.22	9-56	10.1
	***	9.56	0-24	3.49	0.12	3.11	17-95	14.93	16:59	11.95	10-97	11.5
3-17		3.08	0-95	12:81	0.20	12-54	32.86	33-31	33-06	27.89	28:07	27.9
		1.10				1.99	3.61	2.27	3-09			
	***	7:94		2.19	0-14	5-07	13-67	17:28	15:34	10 63	8:34	9-58
	***	2.83	0.30	2.54	0.45	2.55	7.38	10.20	8-67	13-99	17-37	15.4
.60	***	10.87	0.12	4.68	0.45	5.28	21.80	22.30	22:33	14:17	11:49	14.4
		5.64		6.84	0.70	448	20-78	14.95	17:66	18-97	17:56	18-3
78		5:44	0.19	4:45	0-19	3.69	14:17	15:46	14:74	15.62	14.58	14-9
65		5:28	0.18	3:32	0.12	3-10	12.85	12:41	12.68	12-17	11:39	11.83

FORM

1		2			1	3	4		5	
						iles.	on per	Nu	mber of dea registered.	ths
Serial number.		Dist	riets.			Area in square miles.	Average population square mile.	Male.	Female.	Total.
	Shahdadpur		1	R. C.		561	184	551	418	969
28 29	Kandiaro			.,		404	200	567	452	1,019
30	Naushahro Fe			,		493	175	593	459	1,052
31	Moro					483	121	358	247	605
32	Sakrand			,,		506	124	319	205	524
33	Nawabshah			,,		967	58	272	216	488
34	Sinjhoro			"		475	161	416	292	708
35	Tando Adam			T. C.				253	196	449
36	Nawabsł ah							177	140	317
37	Shahdadpur							31	47	78
			wabshah I	District		3,888	128	3,537	2,672	6,209
								995	234	561
38	Umarkot			R. C.		1,459	30	327	286	664
39	Jamesabad	***		"	***	505	61	799	600	13.99
40	Chachro	***	***	,,	***	2,797	22	310	287	627
41	Nagar Parkar		•••	"	***	1,618	26		160	395
42	Diplo		***	**	***	1,503	16	225	424	1,006
43	Mithi				***	1,562	29	582	1	659
44	Khipro			"	***	2,251	23	376	283	329
45	Sanghar	***				818	41	195	312	704
46	Mirpurkhas			"	***	415	115	392		507
47	Samaro	***	***	,,	***	483	91	303	204	779
45	Digri			. **	***	225	191	441	338	65
49	Umarkote			т. с.		***		36	29	
50	Mirpurkhas			"	***			100	35	135
	Total	, Tha	r Parkar	District	t	13,636	34	- 4,491	3,326	7,820
51	Larkana			R. C.		217	329	514	419	993
52	Warah					380	148	399	337	736
53	Dokri			,,		326	235	656	526	1,182
54	Kambar					473	173	476	441	917
55	Mirokhan					. 288	164	306	287	5.93
56	Ratodero					. 214	214	413	348	761
57	Shahdadkot			.,		577	58	322	273	595
58	Larkana			T. C.		. 2	13,420	287	245	532
59	Kambar							110	104	214
60	Ratodero		-41					112	121	233
	T	otal,	Larkana	District		. 2,477	150	3,625	3,131	6,756

					6	1				1	7	
			Deaths	per 1,000	of popul	lation fro	m				ratio of	
			and a.	ry di-		other		All cause	18.	prev	ious five	years,
Small-pox.	Plague,	Fevers.	Dysentery Diarrhos.	Respiratory scases.	Injuries.	All causes.	Male.	Female.	Total.	Male.	Female,	Total.
0.45		8-55		0.90	0.24	1.83	12.05	11.98	11-97	11:65	10:51	11-13
0.02	***	9'43	0.03	0.83	0.11	2.18	12:36	12.83	12.60	10-28	10.49	10-30
0.30		8-48	0.04	1.53	0-09	2.07	12.50	11'88	12.22	10.05	9.16	9:6
0.03		6.77	0.02	0.94	0.05	1.92	10.88	9.30	10.12	10.27	9'64	9-53
0.03		6.10		0.43	0.18	0°94	8.87	7.70	8.38	6.79	5-19	6.2
0-16	***	7.80		0.18	0.24	1.52	9.58	10:38	9.90	9.01	8.43	8.77
0.48		10-74	0.01	1.22	0.17	2.03	15.21	14*01	14'68	12-43	11.36	12-00
3.57	***	12'18	0-50	6*07	0.52	10.40	33-30	33-39	33-33	13.81	15-49	14-25
1.85	***	28.48	***	5.88	0.43	7:97	40°82	52.10	45-14	14'29	16-38	15:00
0.53	***	4.86	0.11	1.02	0.11	2.48	5.99	12.79	8:81	6.77	9-24	7.78
0.32	***	8-61	0.04	1.06	0-17	2.12	12.64	12-28	12.20	10.16	9.11	9-90
0.20	***	8:56	0:30	3:48	0.10	1.20	14'67	13:37	14'14	12.78	11:75	12:34
0.20	***	15.25	0.03	3.25	0.50	2.63	21'09	21.09	21.59	15.06	13'94	14.08
0.24	***	16:39	0.65	2.47	0.10	2.63	27.06	20.86	22'57	15.05	12.86	14.03
0.33	***	10:16	0.22	1.61	0'12	2.29	15.20	14:08	15.03	14-30	12:51	13-22
0.67		9:35	0-12	3.02	0.04	2-(2	16:37	13:91	15.25	14'69	12.69	13.78
0.33	***	14-09	0.15	5-27	0.50	2.08	23.97	19.82	22.01	15.73	13-82	14.83
0.45		9-29	***	1.76	0.15	1.29	12.70	13:20	12-91	8.61	6.58	7:76
0.09		6.89	***	1.66	0.15	0.98	9.74	9-73	9*74	10.24	9.05	9-97
1.69	***	9.02	0.03	5.29	0.13	2.38	18-43	19-39	18-84	13-82	11:43	12:79
0.34		7.01	0.02	2.54	0.16	1.51	12.01	10-99	11.58	10.24	8.73	9.77
0.26		13-31	0.05	1.92	0.16	2.09	18-24	17:91	18.09	14-30	12.66	13.68
0.52		6.51		6.51		3.38	17:18	18:16	16-92	18:56	20.07	19:27
1.18		3.73	0.10	4.03	0.59	3.63	15.73	9-31	13-26	16-93	15:43	16-31
0.45	***	10°92	0.17	2.97	0.16	2.03	17:15	16.22	16.70	13.17	11.62	12.71
0.20		10.03	0.03	0.38	0*28	3.00	13.80	14:30	13-93	11:26	10.04	10.70
	***	9.86	0.02	0.30	0:48	2:46	12-99	13-29	13.12	10.46	11.38	10.89
		11.52	-	0.32	0.38	3.19	15.20	15:39	15:44	12-11	11.56	11.87
0-05	***	10-47	***	0.13	0.19	1.90	11-99	12'73	12.73	10.03	10.02	10.03
		10.53		0.12	0-09	2 05	11-69	13-64	12:56	11.04	11.12	11.09
0.08	***	12-24		0.16	0.27	1 95	14-59	14:31	14-70	13.27	13-17	13-17
0.12	***	15'43	0,03	0.18	6.32	1:73	17:30	18'46	17:84	10.03	10.03	10-31
		9-28	0.34	2.90	0.12	7-15	18-48	22.14	19.82	17:46	20.36	18'88
	***	6.59	0.50	5-86	0.40	7.51	20'00	24-66	22:00	13-80	13.75	14 82
	***	30-47	0.41	0.55		0.55	28:06	37-05	31-99	17:51	21.56	19.37
0.08		11.20	0.04	0.54	0.28	2:78	14-48	15-50	14.94	11-30	11:07	11.67

1		2	119		1	3	4		5	
							per	Nu	mber of dea	ths
						Area in square miles.	Average population per square mile.		registered.	
						92	ulat			
Serial number.		Districts.				das	pop			
nu						in s	are		aje.	-i
erial						rea	Aver	Male.	Female	Total.
00				-	-		-	-	1	-
61	Kotri	***		R. C.		1,496	22	199	159	- 23
62	Kohistan		***	10		1,806	9	67	59	11
63	Sehwan	****	***	31	***	1,273	35	256	256	1.0
64	Johi	***		33		755	68	245	213	6
65	Dadu	444	***	. 53		297	194	259	219	
66	Kakar	***	444			448	108	381	317	(
67	Mehar	***	1	19		364	***	323	243	()
68	Kotri	***	***	T. C.				96	69	1
69	Sehwan		***	н.		***	-10	18	15	1.0
70	Dadu	***	***	31			***	41	39	
71	Manjhand			+7				26	19	
		Total, D	adu Dis	strict		6,439	51	1,911	1, 607	3,4
	Sukkur			R. C.		267	248	589	505	1,5
72 73	Shikarpur	***			***	298	147	460 [368	1
	Rohri	***		31	***	1,620	48	292	249	
74	Garhi Yasin	+++	***	19	***	402	171	396	409	
75	Ghotki	***	***	"	***	341	137	304	204	
76		***	***	**	***	393	120	263	193	
77	Pano Akil				***	1,604	30	308	240	
78	Mirpur Matl	1010	***	33		482	100	210	186	
79	Ubauro	***	***	11		3		573	381	
80	Sukkur	***	***	T. C.	***		23,092	815	814	1,
81	Shikarpur	***	***	51	***	9	6,745		333	**
82	Rohri	***	***	**	***		***	108	95	
83	Garbi Yasin	***		13	***		***	109	105	1 3
81	Ghotki			33	***			92	97	81
	T	otal, Sul	KKUT D	strict	***	5,608		4,549	3,836	
85	Jacobabad		***	R, C.		254	157	209	190	1
86	Garhi Khair	0	***	13		273	135	260	184	
87	Kaudhkot	***	***	33		542	119	179	142	
88	Thul	***	***	91	***	497	63	366	308	
89	Kashmor	110	***	**		543	76	140	82	
90	Jacobabad		***	T. C			***	120	93	- 34
	Total, Upper	Sind Fr	ontier l	Distrie		2,109	123	1,274	999	20
	Tot	al of all	Town	Circles		94	265	8,936	7,593	16
	To	otal of all	Rural	Circles	***	46,569	69	20,682	16,149	360
	Gran	nd Total o	of the P	rovince		46,663	83	29,618	23,742	53
	1									

												1
100					3						7	
		1	Deaths p	er 1,000 o	f populat	ion from					n ratio	
1600	1		and	÷		other	1	All cause	ud.		er 1,000 d vious five	
OX.				0.93		ot	-	All cause			-	7
Small-pox.	Plague.	Fevers.	Dysentery Diarrhea.	Respiratory seases.	Injuries.	All causes.	Male.	Female.	Total	Male.	Female.	Total.
0.42		7.45	0.16	1.06	0.31	2.18	11.77	11'20	11.21	13-18	12-6	12.90
0.13		3'22	0.53	1.55	0.18	1.95	7.18	7:34	7.25	6-96	7:08	7.37
		7:50	0.02	1.88	0.15	3.31	11.67	14.75	13.03	13-86	14.83	14:25
	***	6.92	0.11	0.12	0.04	1.04	10.50	7.57	8.56	12'94	8:36	10.44
0.19		7.37	0.02	0.19	0.13	1'04	8:42	10:22	9.37	8-32	8*78	8-51
		10.53	0.09	0.21	0.44	2.52	14.27	14.57	14-42	10-90	10.02	10-51
***		6.61	0.06	0.50	0.08	1.07	8.12	7 87	8.62	8.25	9.01	8.28
2.08	***	8-27	0.31	2'50		3:29	15-47	18.02	16-45	10-00	10.70	10-27
	***	1.72		1.72	0.12	2.08	5-12	6.59	5.69	7.11	8.78	7:77
***	***	5.18	0.30	1.83	0.15	2.58	11.89	13.08	12.19	9-66	7-66	8-53
***		7.28	***	2-92	0.37	5.82	18.65	14.05	16-39	19:37	14'87	17:04
0-14		7.26	0.09	0.73	0.16	1.83	10-22	10.92	10:52	9.09	9-96	9.98
0.02		11.77	0.03	0.68	0.30	3'68	16.07	17:01	16-49	16-94	17:62	17:24
0.16	***	9.17	0°08	0.18	0.22	1.47	11.38	11.12	11.28	12:39	12.88	12.63
0.03	***	4.84	0.08	0.59	0.18	1.26	6.66	7.32	6.95	7.12	6.44	6*82
***	***	9:46	0.03	0.47	0.58	2.89	11.81	14:72	13.13	16:14	16.67	16.38
0.05		9.47	0.12	0.12	0.40	1.88	13.09	10.86	12.09	13.26	13:20	13:23
***		7.54	0.06	0.27	0.53	1:54	10.01	9-11	9.64	13.45	12.51	13.03
		7.31	0.02	0.68	0.39	2.85	11.2	11:00	11.58	14:17	13:39	13-82
0.13	***	6.67	0-05	0.35	0.33	1.70	9:49	8.92	9:23	14.51	14.52	14.52
***	***	1.70	2.08	4.94	0.22	4.83	13.24	14.65	13.77	12.59	15:08	13.53
***	***	15:74	0.38	2.80	0.24	6.90	24.15	28:30	26.06	22-31	24-23	23-19
0.00	***	6:44	0.95	1.89	0.30	2.43	10.63	14.49	12:01	10.63	12.61	11:42
0.27		17:24	0.14	2.30	0.41	8.63	28.98	29:09	29'04	23-13	21.89	22.52
0:04		26.25	2.07	4.56	***	3.91	35*67	38.72	37.09	31-79	40'94	36.05
0.04	***	8:49	0.36	1.26	0.27	3.02	13:02	13.97	13:44	13:10	13:57	13.29
·		8.22	0.03	0.28	0.12	1.33	9.38	10.80	10.01	7:95	6-71	7.40
0.05	***	9-87	***	0.32	0.19	1.39	12:61	10.91	11.85	8.77	9.61	9.15
***	***	4/10	***	0.08	0.01	0.82	4.94	5.02	4.99	6.71	5.28	6:09
***	***	9:45	***	0.19	0.13	1.22	10.75	11.29	10.99	9.05	9.09	9.07
0.02		4:30	0.03	0.12	0.10	0.80	6.09	4.44	5.36	7.79	6.67	7.29
•••		11.11	9006	0.51	0.06	1.78	12.66	14.80	13.52	7.65	8'58	7.10
0.01		7.28	0.014	0.50	0.10	1.13	8.75	8:73	8-73	7.93	7.53	7.53
0.64		5:37	1 35	7:78	0.30	8.20	22.61	26:27	24:12	19-98	22.43	21.01
0.18		8.02	0.00	1.25	0.18	1.80	11'64	11:42	11.24	10.59	9.90	10.58
0.26	***	7.55	0.29	2.40	0.30	3:01	13-63	13'94	13.77	12-24	12.02	12-15

APPENI

Fo

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

	Districts a	nd Town	H			January.	February.	March.	April.	Ma
A,-Dis	STRICTS (EX	CLUDING	TOWN	s).						
Karachi						410	296	286	293	
lyderabad			140			565	556	471	410	
Vawabshah			***		***	586	492	512	574	
har Parkar			***		***	1,020	902	773	744	
arkana	***		***			464	373	326	368	
adu			***			332	318	198	243	
ukkur	***					469	456	384	375	
pper Sind F	rontier					173	130	139	92	
		Total	for Dist	riets		4,019	3,523	3,089	3,099	2
	Ratio pe	r mile o	popula	ation		1.26	1.10	0-97	0.08	
	в.—т	owns.								
	Karachi	District			-					
arachi				т. с.		640	577	670	642	
arachi		***		C. C.	***	9	9	12	11	
righ Road				23			***	1		
atta			***	т. с.	***	8	6	9	5	
	Hyderaba	d Distri	et.							
Lyderabad				т. с.		348	290	310	346	
				C. C.		2		2	1	
Iala	***		***	т. с.		8	13	5	12	
fatiari			***	,,		3	1	7	2	
ando Muhar	mmadkhan	***	***	23		26	10	13	10	
Nasarpur	***	***		-		6	1	9	11	
ando Allahy	ar			**		15	5	5	3	
	Nawabsha	A Dieter	int.				100 10			
Nawabshah	Attactosno	in Distri		T. C		43	19	29	29	
fando Adam				,,		43	54	34	19	
Shahdadpur			***	,,		2	4	2	2	
	Thar Park	car Dista	ict.			WE TOWN	1		1	
Mirpurkhas		***		T. C		9	2	14	22	
Umarkot				**		11	14	5	5	
	Larkana	a Distric	t.							
Larkana	***			T. C		49	46	33	35	
Kambar		***		"		16	11	12	18	
Ratodero				,,		23	14	11	9	

o. III
was of the Province of Sind during each month of the year 1940.

June		July.	August.	September.	October,	November.	December.	Total death registered during the year.
1	61	157	147	187	151	230	334	2,873
3	53	334	369	255	267	354	382	4,735
3	77	312	379	340	305	422	586	5,365
5	29	434	429	404	614	509	603	7,620
2	24	415	307	398	540	1,063	898	5,777
1	27	243	222	286	321	338	335	3,195
3	27	200	358	346	531	733	615	5,206
1	28	100	99	150	261	387	262	2,060
2,2	26	2,285	2,310	2,375	2,990	4,036	4,015	36,831
0.	70	0.72	0*73	0.75	0.94	1.27	1.22	11.2
		-						
								100
5	181	562	591	570	436	511	514	6,92
	6	5	10	11	n	16	18	12
***		1	***		***	2		
	9	4	1	4	8	6	14	86
						Land-opt Miles		
2	214	226	221	216	200	185	265	3,178
	2	1	1		1	2	1	1
	4	5	9	5	8	14	20	112
	3	6	4	10	4	9	6	58
	10	7	9	8	12	12	20	148
	6	1	2	2	4	7	23	70
	5	3	7	10		3	5	76
	00							
	28	25	28	22	18	21	27	317
	16	27	30	33	31	50	84	449
	4	2	6	8	7	11	12	78
	7	7	12	10	14	16	13	135
	1	6	2	1	3	5	- 4	65
	41	34	17	30	60	68	81	532
	13	20	8	6	16	41	41	214
	18	19	5	11	24	29	59	233

APPENI

FC

	District	and Town	8.			January.	February.	March.	April.	May
	ВТоч	rns.—con	td.							
	Dadu	District								
Kotri		***	***	т. с.		13	20	25	17	
Dadu	-01	***		,,,		3	2	6	3	
Sehwan		***		13		3	6	2	2	
Manjhand		***	***	90		3	4	4	3	
	C.Ll.	r District								
Caldana				m a		79	79	ma	-	
Sukkur	. ""	***		T. C.				72	71	
Shikarpur		***	***	31.		174 16	133	116	157	1
Rohri	***	***	***	"	***			16	12	
Garhi Yasin	***	***		**		13	16	11	10	
Ghotki				"		27	10	18	11	
Upp	er Sind 1	rontier 1	istrict.							
Jacobabad		***		т. с.		15	10	6	8	
		To	tal for to	owns		1,606	1,377	1,459	1,476	1,5
	Ratio	per mile o	of popula	tion		2:34	2.01	2.13	2.15	2.
		Total for	the prov	ince		5,625	4,900	4,548	4,575	4,4
	Ratio	per mile	of popula	tion		1.47	1.26	1.17	1.18	1.

-contd.

o. III-concld.

June.	July.	August.	September.	October.	November,	December.	Total deaths registered during the year.
15-							
	at me		research 1				
14	6	12	6	7	10	7	165
10	16	7	2	9	9	- 10	80
3	2	3	3	1	1	4	33
3	7	3	3	4	2	4	45
	7 = 1						
79	75	66	80	75	81	103	954
157	105	97	101	121	140	164	1,629
23	13	8	18	12	17	18	203
19	11	12	19	20	30	39	214
9	16	8	11	16	18	22	179
					The Park		
19	8	8	13	15	40	64	213
1,304	1,320	1.167	1,213	1,137	1,356	1,637	16,529
1.92	1.78	1.73	1.77	1.66	1'98	2:38	24.13
3,530	3,505	3,497	3,588	4,127	5,392	5,652	53,360
0.91	0.80	0°90	0.93	1.06	1:39	1:46	13.77

APPENII ANNUAL FC

Deaths registered according to age in the districts (rural circ-

			8****		8					-
					10		one year	2	La Line	
					N	at exceeding	one mon	th.		
Distri	ets and T	owns.			Male.			Female.		То
				Under one week.	Over one week,	Total.	Under one week.	Over one week.	Total.	
A-DISTRI	CTS (EX	CLUD	ING							
Karachi				44	38	82	36	31	67	
Hyderabad			***	58	64	122	45	55	100	
Nawabshah				85	68	153	64	53	117	
Thar Parkar			***	83	68	151	64	67	131	
Larkana				114	83	197	72	74	146	
Dadu		***		74	39	113	41	36	77	
Sukkur	***			76	115	191	57	92	149	
Upper Sind From	atier			14	20	34	14	18	32	
Total District		ing To	wns)	548	495	1,043	393	426	819	1
В.	-TOWN	s.				-				-
Kar	achi Dist	rict.								1
Karachi			т. с	201	134	335	160	125	285	10
Karachi			C. C	4	2	- 6	3	1	4	
Drigh Road	***		,,	1		1	***			15
Tatta		***	т. с	***			3	1	4	
				1 Heal						
Hyder	rabad Di	strict.								
Hyderabad			т. с	94	76	170	90	55	145	18
Hyderabad			C. C	1		1	***			
Hala	***	***	T. C	4	3	7	4	3	7	
Matiari		***	33 ***	1	3	4	1	1	2	
Tando Muhamm	adkhan		.,		1	7	2	1	3	
Nasarpur			.,	4	1	5	2		2	
Tando Allahyar			,,		***		1	***	1	
Nawa	bshah Di	strict.								
Nawabshah			т. с	9	3	12	7	7	14	
Tando Adam	10		.,	19	12	31	10	11	21	
Shahdadpur			.,		1	1		1	1	
Thar	Parkar I	District								
Mirpurkhas			T. C	3	***	3	2	. 1	3	
Umarkot		***		***	1	1			***	
Lark	ana Dis	trict.								
Larkana	**	***	т. с	9	14	23	9	11	20	
Kambar		***	,,,	5	3	8	5	6	11	
Ratodero	***	***	y	***	11	11		5	5	

-contd.

IV.

towns of the Province of Sind during the year 1940.

				Under or	io year—	contd.	100			
er (one month a eding six mo	nd not nths.	Over a	six months a ng tweive m	nd not		Total.			d under five
	Female,	Total.	Male.	Female.	Total.	Male.	Female	Total.	Male.	Female
1										1
3	65	158	25	36	61	200	168	368	190	170
7	95	232	65	56	121	314	251	365	371	295
9	93	222	96	73	169	378	283	661	446	350
8	148	316	126	101	227	445	380	825	595	485
5	145	360	118	117	235	530	408	938	573	581
2	64	146	48	37	85	243	178	421	206	201
9	173	373	89	111	200	479	433	912	378	324
4	70	144	41	45	89	152	147	299	243	208
7	853	1,940	611	576	1,187	2,741	2,248	4,080	2,002	2,614
						-			-	
									111	
8	367	785	343	337	680	1,096	989	2,085	657	559
6	4	10	6	6	13	18	14	32	8	7
1	1	1	2	***	2	3	- 1	4		1
	3	3		2	3		9	9	- 4	6
			7							
2	127	259	220	192	412	522	464	986	282	302
					***	1	***	1	1	1
2	8	20	5	3	8	24	18	43	7	5
2		2		***	***	6	2	8	1	4
9	6	15	5	4	9	21	13	34	- 11	12
3		3	1	***	1	9	2	11	3	2
1	1	2		***		1	2	3	3	4
9	9	18	5	6	_ 11	26	20	55	32	29
3	14	26	10	8	18	53	43	96	45	29
1	4	5	1	1	2	3	6	9	4	6
3	2	5	1	2	3	7	7	14	5	7
3	2	5	***	2	2	4	4	8	3	

2	16	28	24	9	33	59	45	104	36	36
9	5	14	7	3	10	24	19	43	12	10
8	. 7	15	8	. 11	19	27	23	50	25	31

APPEL

					Under one year.							
					Not exceeding one month.							
Districts and Towns.					Male.		Female.					
					Under one week.	Over one week.	Total.	Under one week,	Over one week.	Total.		
в—то)WNS-co	ntd.		1								
Do	idu Distri	ct.										
Kotri			T.C.		3	1	4	1	2	3		
Dadu					1	2	3	2		2		
Sehwan			,,		1	***	1	1		1		
Manjhand			**					1	1	2		
Sul	kkur Distr	ict.										
Sukkur			T. C.		18	23	41	15	42	29		
Shikarpur			**		42	29	71	43	28	71		
Rohri			**		5	4	9	2	2	4		
Garhi Yasin			**		11	2	13	2	3	1		
Ghotki			**		6	12	18	9	10	11		
Upper Si	ind Fronti	er Dist	rict.					1				
Jacobabad			т. с.		4	2	6	1	2			
Total for the province				452	340	793	376	291	66			
				1,000	835	1,835	769	717	1,48			
Ratio	o per mile	of popu	ulation									

contd.

IV-contd.

one morth and not exceeding twelve mon					l not Total.				One and under five years,		
Female.	Total.	Male.	Female,	Total.	Male.	Female.	Total.	Male.	Female.		
						-					
5	11	8	10	18	18	18	36	16	1		
1	2	2	1	3	6	4	10	4			
	3	1	1	2	5	2	7	4			
3	7	1	1	2	5	6	11	4			
30	77	49	49	98	137	108	245	68	4		
80	161	60	45	105	212	196	408	111	13		
6	15	2	7	9	17	20	37	10	1		
7	16	5	8	13	27	20	47	10			
14	21	3	6	9	28	39	67	17	1		
10	18	6	3	9	20	16	36	25	1		
732	1,517	775	717	1,492	2,382	2,116	4,498	1,408	1,29		
1,595	3,487	1,386	1,293	2,679	5,123	4,364	9,487	4,410	3,91		
					112:27	120.01	115.70	17.74	16:4		

APPEND)

Fo

						nd under	Ten and und	er 15 years.	15 and und	er 20 yea
District	s and To	wns.		1	ten	years,				
					Male.	Female.	Male.	Female.	Male.	Femal
A-DISTRIC	TS (EXC	CLUDI	NG	T						
Korachi					90	88	91	54	96	
Hyderabad	***				225	167	176	120	145	
Nawabshah					238	173	176	129	199	
Thar Parkar					310	294	233	182	213	
Larkana		***			191	211	135	104	143	
Dadu	***				131	91	97	70	107	
Sukkur	***				180	152	134	115	154	
Sukkur Upper Sind Fron	ine.				98	80	56	49	52	
Opper and r con-	101				1,483	1,256	1,098	823	1,109	1
PTO	WNS-co				-		-			
	chi Dist									
Karachi			r.C.		131	135	76	78	94	
Karachi	***		C. C.	200	1	1	1		3	
Drigh Road										
			T. C.		3	1		1	3	
Tatta	***									
Welon	abad Dis	friel								
Hyderabad	***		T. C.		88	58	29	24	50	
Hyderabad			C. C.		***		1		1.	
Hala	***		T. C.		3	3	2	3	2	
Matiari	***				1		1	1		416
Tando Muhamma			,,		6	5	4	3	5	
Nasarpur	aunian in	***	**	***	3	1	3	1	1	
				***		4	3	2	1	
	shah Di		12		***					
Nawabshah	encan Arti		T. C.		23	11	8	12	13	
Tando Adam		477		***	23	24		17	22	
Shahdadpur					1	3		4		
	arkar D								100	
Mirpurkhas		0	T. C.		7	3	8	1	3	
Umarkot			,,			1		1	4	
	ana Dist		77							
Larkana	***		т. с.	-	14	16	3	13	14	
Kambar			13		3	7		4	6	
Ratodero		-	1.5	200					100	1

-contd.

. IV-contd.

	d under years.		d under years,	40 and 50 y			under ears.	60 yes upv	ars and wards.		es not own.	(all	otal ages,)
2.	Female.	Male.	Female.	Male,	Female.	Male.	Female.	Male,	Female,	Male.	Female.	Male.	Female
-													
3	177	201	176	173	125	144	7.4	222	139			1,623	1,250
6	270	331	261	285	176	250	113	390	188	***		2,773	1,982
0	311	318	271	268	196	288	145	455	265			3,076	2,289
5	354	479	362	366	249	466	222	836	499			4,358	3,262
2	283	297	268	228	155	278	153	519	365			3,116	2,661
1	204	187	189	180	151	152	85	276	190	***		1,780	1,465
4	272	243	282	280	203	252	150	468	308			2,852	2,354
1	93	95	94	86	53	106	48	175	95			1,154	906
2	1,964	2,154	1,903	1,866	1,308	1,936	990	3,341	2,049			20,682	16,149
*													
2	334	266	249	353	159	243	168	530	476			3,698	3,225
6	6	10	4	6	3	4	6	19	6			76	48
							***	1				4	2
6	2	5	5	3	1	4	3	14	10			42	38
-													
9	134	142	80	151	58	148	55	202	100			25.252	
-	2		100	1	1	1	0.000	4	177	***		1,753	1,423
4	3	2	3	1	2	1	3			***	***	10	- 4
4	1	2	5	2	2	4		8	7	***		54	58
6	8	8	6	6	4	4	1 4	8	9			29	29
3	4	6	3	2	2	4	3	13	6	***	***	80	68
4	6	3	2	6	6	8	3	10	7	***	***	47	28
								10	'	***	***	39	37
6	14	13	8	14	9	13	3	19	13	Name of the last	44	100	140
6	17	16	8	13	8	20	14	28	24		***	177	140
1	7	4	5	4	1	3	4	6	5	***	***	253	196
							i		-	***	***	31	47
5	5	25	3	15	- 1	8	1	7	4			100	35
2	2	7	4	5	3	5	4	3	6			36	29
									18			00	20
8	40	24	20	37	14	28	9	46	35			297	245
2	11	11	.6	8	7	17	8	11	23			110	101
5	13	2	11	7	6	11	10	16	14			112	121

APPENDIX

FORM

					nd under years.	Ten and und	er 15 years.	15 and unde	er 20 years.
Dis	stricts and T	owns.		Male.	Female.	Male.	Female.	Male.	Female.
P	TOWNS-c	oneld.	_						•
							THE LA		
	Dadu Distr		т. С.	10	7	4	3	5	
Kotri	***			 4	1	3	4)
Dadu		***	"	 1				1	1
Sehwan Manjhand			"	 3	1	1		2	
,	Sukkur Dist	rict.							
Sukkur			т. с.	 19	15	13	12	14	1
hikarpur			10	 41	38	21	28	30	4
Rohri			,,	 5	5	3	5	2	3
Garhi Yasin	***		,,	 11	6	6	7	6	
Ghotki		***	19	 2	1	4	1	4	
TT	Sind Fronti	ce Dist	rict.			213			
Jacobabad	ATRO FIUME		т. с.	 4	3	4	1	1	
	T	otal for	towns	 420	356	230	228	292	38
	Total for	the pro	ovince	 1,903	1,612	1,328	1,051	1,401	1,35
	tio per mile		lation	6.65	7:23	5.38	6.85	7:42	9:

II-contd.

No. IV-concld.

	nd under years.	30 au 40	30 and under 40 years. 40 and under 50 years.				under years.	60 yea upw	ars and vards.	Ag	es not lown.	Total (all ages),	
fale,	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female,	Male.	Female
			lana.		1	100							
	-		1000								No. of London		
9	5	4	6	7	2	7	3	16	8	***		96	69
3	4	5	2	6	6	5	5	5	10			41	35
1	4	1	2	3	1 3	2	1 2	1	3		***	18	10
1	1	2		1	0	***	2	7	4			26	19
44	52	62	40	74	24	50	16	92	57			573	381
43	96	50	53	74	35	68	17	165	171			815	814
6	7	8	8	15	5	16	8	23	26			103	90
10	9	9	16	9	. 8	9	9	12	16	-		109	108
5	10	4	5	5	3	7	3	16	7			92	87
6	8	8	4	13	4	18	3	21	29			120	98
645	805	699	558	840	378	708	306	1,312	1,164			8,036	7,593
597	2,769	2,853	2,461	2,706	1,686	2,644	1,296	4,653	3,213			29,618	23,742
6.07	8:03	8-20	9:97	12-92	11:47	25.29	16:49	68:69	56-97			13.63	13-94

APPENDIX
ANNUAL FORM
Deaths registered according to classes and sex in

				5				-
1		2					- y-breakes	
-			- (I-IUM)				1	NUMBER OF
No.		Districts.		-	Muhamm	adans.	Hindu	is.
					Male.	Female.	Male.	Female.
1	Karachi	***	***		3,284	2,577	2,035	1,878
2	Hyderabad	***			2,708	1,896	2,071	1,710
3	Nawabshah				2,436	1,738	1,101	933
4	Thar Parkar				2,645	1,883	1,849	1,443
5	Larkana	***			2,826	2,352	799	779
6	Dadu				1,524	1,249	387	358
7	Sukkur		***		2,609	2,056	1,934	1,780
8	Upper Sind Fr	rontier			1 084	844	190	155
	7	Total for t	he Province		19,116	14,595	10,366	9,036
1		2		1				
						1981	RAT	TO OF DEATHS
No.		District	s.		Muhamn	nadans.	Hin	dus.
					Male.	Female.	Male.	Female.
1	Karachi				14.08	14.73	22.83	30.84
2	Hyderabad				10.42	9*44	18'96	19:26
3	Nawabsbah				11*39	10.60	10.74	17-77
4	Thar Parkar		***		19-12	17:49	15.18	14-85
5	Larkana	***			13'81	14.26	17-68	21.17
6	Dadu		***	***	9.62	10-07	13.67	15.56
7	Sukkur			***	10-49	10:73	19-93	22:13
8	Upper Sind	Frontier			8.30	8.10	12.68	14'60
		Total fo	or the Province	ce	. 12-05	11.77	18-21	20-07

III—contd.

No. V.

the Province of Sind during the year 1940.

3

DEA	TH	S	RE	GI	ST	100	RED

J	lains.	Chri	stians.	P	Parsis. Other Classes,		Classes,		Total.	
Male.	Female.	Male.	Female.	Male,	Female.	Male.	Female.	Male.	Female.	Total.
		96	74	10	28	18	6	5,443	4,563	10,000
		6	2					4,785	3.608	8,39
		***	1	***	,			3,537	2,672	6,209
	H						***	4,494	3,326	7,820
•••	***			***				3,625	3,131	6,756
				144.0				1,911	1,607	3,518
	- Can	4				2		4,549	3,836	8,385
			40.1					1,274	999	2,273
		106	77	10	28	20	6	29,618	23,742	53,360

1

PER 1,000 OF POPULATION.

Jai	ins.	Chr	istians.	P	arsis.	Parsis. Other Classes.		Total.		
Male	Female,	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female,	Total
		16:72	17'26	5.7	17:53	25*21	9-87	16.56	18:20	17:27
		19.43	8-55					12:85	12'41	12.68
			18*18	-				12.64	12-28	12'50
		***						17:15	16:22	16.70
					***		11242	14.48	15*50	14.91
	-	12.00						10.22	10-92	10.55
		8.33				0.68		13.02	13-97	13:44
		et."	4115			***		8:75	8-73	8.73
	***	15:32	15.05	5:35	16-77	2.17	-94	13.63	13-94	13.77

L (IV) 1668- 12

APPENDIX

ANNUAL FORM

Deaths registered from different causes and Births in the Districts

-				-	T	3		4		
1		2						Birth	15,	SITS ARG
No-	Die	stricts ar	nd Towns.			Population according to census of 1931.	Male.	Female.	Total.	Birth rate.
and art				-81		81				
TOC 2	1	DIS	TRICTS.		1			0		
1	Karachi	mer .				3,13,768	2,088	1,471	3,559	11:34
2	Hyderabad	105,2				5,31,203	2,897	2,006	4,903	9.23
3	Nawabshah	250,2				4,67,273	5,099	3,774	8,873	18-99
4	Thar Parkar					4,54,021	4,452	3,709	8,161	17 98
5	Larkana	217,1				4,08,298	4,944	3,711	8,655	21.20
5	Dadu .	FEE				3,09,146	3,608	2,698	6,306	20-40
7	Sukkur .					4,62,901	5,399	4,192	9,591	21:44
8	Upper Sind	Frontier				2,44,578	1,814	1,246	3,060	12:50
	Total of the	Districts	(excluding	towns)		31,91,186	30,301	22,807	53,108	16.64
	BAST	в.—то	WNS.			almel .	Anni			
	- I - I	KARACHI	DISTRICT.			DET STATE		date	Supplied to	state
9	Karachi			T.C.			7,928	7,318	15,246	61.2
10	Karachi			. c.c.			231	191	422	67-63
11	Drigh Road	trat		c. c.			13	2	15	7.50
12	Tatta	inti		T. C.			77	72	149	15:46
	1201					144	1 14		- marin	-12
	Deep F	IVDERAB.	AD DISTRI	CT.					1	
13	Hyderabad	===01		T. C.			2,085	1,721	3,806	39.61
14	Hyderabad	1011		c.c.			28	13	41	9.05
15	Hala			т. с.			116	113	229	31.35
-	1			-	-		1	1	-	

III—contd.

No. VI.

and Towns of the Province of Sind during the year 1940.

5	6	7	8	9	10	INJURIES.
Cholera.	Small-pox.	Plague.	Fevers.	Dysentery and Diarrhœa.	Respiratory Diseases,	Suicide,
				Diatrica.	arountare	Male. Female
E913 - e		1 -4	In-			_ laberta _ L
AV2	79		1,308	38	885	Sichersbell
1	120	***	2,990	26	848	dadetave M
71	98		3,871	10	396	minital and the same
1	198		5,052	76	1,325	3
3	26	***	4,535	4	101	1
90	25		2,280	24	189	
	24	;	3,828	27	201	2 2
100.00	3		1,718	2	45	C soli di Lapara 2
166	573		25,582	207	3,990	7 4
					can District.	nall .
1200 11			001			1 identities 2
29	21		316	597	2,957	2 1
:			37	5	9	following ""rt
(i) (i)			3	J 53	1	·
***	2		28	1	28	
					DOTTED THE	ingriff-
ALIEN H				10000	-	Indusbell, gr
1	304		296	92	1,230	2 1
- DE D			5	-" 24		alas
			58		16	

1		2				11			12	13
					THE REAL PROPERTY.	INJURIES.	conta.	4 11		
No.	Distr	icts and To	wns.		Wound- ing or Accident.	Snake- bite, or killed by wild beasts.	Rabies.	Total.	All other causes	Total deaths from all causes.
-										
	A	-DISTRICT	S.							
1	Karachi				31	24	1	56	507	2,873
2	Hyderabad				25	14	2	41	709	4,735
3	Nawabshah				37	33		71	848	5,865
4	Thar Parkar				38	24	1	66	902	7,620
5	Larkana				79	37	2	119	989	5,777
6	Dadu	1000			33	18		51	536	3,195
7	Sukkur			•••	95	29	1	129	997	5,206
8	Upper Sind F	rontier			19	5		26	266	2,060
	Total of the I	Districts (exc	luding tow	n)	357	184	7	559	5,754	36,831
	Е	-TOWNS	i.							
	Kar	ACHI DISTRI	CT.							
9	Karachi		T.C.		76	1	2	82	2,921	6,923
10	Karachi		c.c.						73	124
11	Drigh Road		C. C.						2	6
12	Tatta		T.C.		1			1	20	80
					1 30				147	111-11
	Hyde	rabad Dist	RICT.							
13	Hyderabad		т. с,		40	***	5	48	1,204	3,175
14	H yderabad		c. c.						. 9	14
15	Hala		. т.с.		1			1	37	112
-					-	-	•	11111111	-	

14
Ratio of deaths per 1,000 population.

								From al	l Causes.
Cholera.	Small- pox.	Plague.	Fevers.	Dysentery and Diarrhœa.	Respira- tory Diseases.	Injuries	All other causes.	For the year.	Mean of previous five years
	0.25		4.17	0.12	2.82	0.18	1'62	9.16	9:50
0.002	0.53		5.63	0.02	1.60	0.08	1.33	8.92	7.12
0.15	0.51		8-28	0.02	0*85	0.12	1.82	11:48	9-15
0.002	0.43		11.13	0.17	2:94	0.14	1*97	16:78	11.55
0.007	0.06		11-10	0.01	0.25	0.29	2.42	14:14	9-98
0.59	0.08		7:37	0.08	0.61	0.17	1.73	10.33	9.25
	0.02		8:29	0.06	0.43	0.28	2:14	11.25	11.20
	0.01		7.02	0.08	0.19	0.11	1.08	8:42	7:25
*05	*18		8-02	*06	1*25	.18	1.80	11.24	10.28
WII I									
0.12	0.08		1.28	2.41	11-93	0-33	11:79	27-94	¥5.68
***		***	5 93	0.80	1.44		11.70	19.87	17 62
			1.50	-	0.20		1.00	3.00	
	0.20		2-91	0.10	2.91	0.10	2.08	8:30	11:41
1000 30									
0.01	3.17		3.08	0-95	12.81	0.20	12:54	33.06	27-96
			1.10				1.99	3.09	
£		***	7-94		2-19	0.14	5.07	15:34	9.58

1		2	HOLTES	1000	pile, i	3	m arvix	4 Birt	hs.	
No.	Dist	ricts and	Towns.			Population according to census of 1951.	Male.	Female.	Total.	Birth rate.
	R _	TOWNS	-contd							
		AD DISTR				810		118		
16	Matiari			r. c.			75	28	103	15:37
17	Tando Muham			. c.			38	35	73	11.03
18	Nasarpur			r. C	44		19	15	34	7.98
19	Tando Allahya			гс			32	13	45	8:73
		авенан D				1000	Vari	Line	0	
20	Nawabshah			T. C.	en	10.9	96	77	173	24.63
21	Tando Adam			T. C.			318	273	591	43.88
22	Shahdadpur			T. C.			74	48	122	13-80
**	1000	PARKAR				100	100-0			3
23	Mirpurkhas			T. C.			83	47	130	12.77
24	Umarkot			T. C.			23	21	44	11:46
		RKANA DI				in a	100			
25	Larkana				5812	08'0	496	438	934	34.80
26	Kambar	, nôn t		T. C			248	140	298	29.65
27	Ratodero		02:0				119	115	234	32.12
		DADU DIS								
28	Dadu			т. с			75	34	109	16.61
29	Kotri			T.C			83	66	149	14.85
30	Sehwan	91		T. C			54	35	89	15'36
31	Manjhand						45	38	83	30-23
									1	1

No. VI -contd.

5	6	7	8	9	10 =	11 Injurie	is.
Cholera.	Small-pox.	Plague.	Fevers.	Dysentery and	Respiratory Diseases.	Suici	de.
	.00.7		And the state of	Diarrhoea.		Male	Female
					ENWO	,0	
			13	Mone	- District -	Homeson	
	E			327		1207	
			19	2	17	madell abo	
	4		72	1	31		
	***		24		29		
	4		28	1	23		
					DESTRICT SAME		
3	13		200		42	1	
	48		164	8	82	math aday	
	2		43	1	9	nonhabde	
		***			SHARK DESCRIPTION	Total	***
		- 4		- 23		entitional	
29	12		38	1	41	industrial	1 "15
	2		25		25	and "	*
						and the same	
			249	9	78	- Tankon	1
14	**		63	2	57		
			222	3	4		
14			84	2	12		
	21		83	3	25		
			10		10		
			20		8	beadings	

	H.	2			1	12 Injuries.	-contd.		13	14
No.	Dist	rict and T	own	s.	Wounding or Accident.	Snake bite, or killed by wild beasts.	Rabies.	Total.	All other causes.	Total deaths from all causes.
	B.—T	TOWNS								
16	Matiari			T. C.	 2	1		3	17	58
17	Tando Muham	madkhan		T. C.	 2	1		3	37	148
18	Nasarpur			T.C.	 1	1	1	3	19	75
19	Tando Allahya	ır		T. C.	 1			1	19	76
	Nawa	BSHAH DI	STRI	CT.	-					
20	Nawabshah			T, C,	 2			3	56	317
21	Tando Adam			T. C.	 6	1		7	140	449
23	Shahdadpur			T. C.	 1			1	32	78
	THAR	PARKAR D	ISTR	ICT.						
23	Mirpurkhas	***		T. C.	 5	1		6	37	135
24	Umarkot			T. C.	 				13	65
	LAR	KANA DIS	TRIC	T.						
25	Larkana			T. C.	 3			4	192	532
26	Kambar			T. C.	 4			4	74	214
27	Ratodero			T. C.	 				4	233
	D	ADU DIST	RICT	r.						
28	Dadu		***	T. C.	 1			1	17	80
29	Kotri		***	T. C.	***				33	165
30	Sehwan			T. C.	1			1	12	33
31	Manjhand			T. C.	 1			1	16	45
-	-							-		

15
Ratio of Deaths per 1,000 of Population.

									From al	l 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.
								mior-		
					14			0.200		
				2.83	0.30	2.55	0.45	3:54	8*67	15:43
		0-60		10.87	0.12	4.68	0.45	5 58	22.33	14:48
				5.64		6.84	0.70	4.48	17.66	18-33
		0.78		5.44	0.19	4/45	0.19	3.69	14-74	14-96
									16.4	
	0.43	1.85		28:48		5-98	0.43	7.97	45:14	15.09
		3.57		12:18	0.59	6.07	0.25	10.40	33-33	14.25
		0.23	***	4.86	0.11	1.02	0.11	2.48	8-81	7.79
-						-	1000		/	
		1.18		3.73	0.10	4.03	0.59	3.63	13:26	16.31
		0.25		6.21		6.21		3:38	16:92	19:27
		***		9.28	0'54	2.90	0.12	7.15	19.82	18.88
	1.44			6.28	0.50	5*86	0.40	7.51	22.00	14.82
				30.47	0.41	0.55	***	0.55	31.98	19:37
	2:14	***		5-19	0:30	1.83	0.12	2.58	12-19	8.13
		2*08	***	8.	0.31	2*50		3-29	16:45	10:27
				1.72		1.72	0.17	2.08	5-69	7-77
	***			7.28		2.92	0.82	5*82	16:39	17:0%

1		2		3		4 Birth	s.	
No.	Di	stricts an	d Towns,	Population according to census of 1931.	Male.	Female.	Total.	Birth- rate.
			S.—contd.					
	S	UKKUR D	ISTRICT.					1 8
32	Sukkur		т. с		1,462	1,216	2,678	38-65
33	Shikarpur		т. С,		1,041	1,011	2,052	32-82
34	Rohri		т. с.		188	168	356	21.07
35	Garhi Yasin		т.с.		136	107	243	32.97
36	Ghotki		T. C.		109	103	212	43-93
	Upper S	SIND FRO	NTIER DISTRICT.		20	-	100	
37	Jacobabad		. T. C.		136	98	234	14'86
					-		-	
			Total of Towns		15,328	13,556	28,894	42.16
			Total of Province		45,629	36,363	81,992	21.15

No. VI .- contd.

5	6	7	8	9	10	11 Injur	
Cholera,	Small-pox.	Plague.	Fevers.	Dysentery and	Respiratory Diseases,	Sulci	de.
Choleta,	Smarrpox.	A lague.		Diarrhœa.	Diseases,	Male.	Female.
					Na samuel		
			1				
	·		118	144	342		
			984	24	175		
			109	16	32		
	2		127	1	17		
			128	10	22		
			175	1	8		
61	435	·	3,678	924	53,30	5	3
227	1,008		29,260	1,131	9,320	12	7

1	lit connect	2				I	12			13	14
No.	Dis	strict and	d Town	15.		Wound- ing or Accident.	Snake bite, or killed by wild beasts	Rabies	Total.	All other causes,	Total deaths from all causes
	В.—	TOWNS	S.—con	ld.							
	Su	KKUR D	ISTRIC	r.							
32	Sukkkur	***		T. C.		15			15	335	954
33	Shikarpur			T. C.		14	1		15	431	1,629
34	Rohri		***	T. C.		5			5	41	203
35	Garhi Yasin			T. C.	•••	3			3	64	214
36	Ghotki			T. C.						19	179
	UPPER SI	D FRON	TIER I	DISTRICT.							
37	Jacobabad			T. C.		1	***		1	28	213
			Total o	f Towns	***	186	7	8	209	5,892	16,529
		To	otal of	Province		543	191	15	768	11,646	53,860

15
Ratio of Deaths per 1,000 of Population.

		-100155							From al	ll Causes.
Ch	iolera.	Small- pox.	Plague.	Fevers.	Dysentery and Diarrhoea.	Respira- tory Diseases.	Injuries.	All other causes.	For the year.	Mean of previous five years.
							.000		٨	
				1.70	2.08	4.94	0-22	4-83	13:77	13.53
			***	15'74	0.38	2.80	0.24	6-90	26.06	23.19
			***	6:44	0.95	1-89	0.30	2.43	12:01	11:42
		0.27		17:24	0.14	2'30	0.41	8.68	29-04	22.52
				26-52	2.07	4.56		3.94	37.09	36*05
			000		424			-		
				11:11	0.08	0.21	0.06	1.78	13.52	7-10
	-09	-64		5:37	1:35	7.78	.30	8-59	24-12	21.01
	*06	'26		7:55	*29	2*40	*20	3:01	13-77	12:15

Annual form
Deaths registered from certain diseases in the districts

1		-	of the party of	T	3	4		5		6	1
1					Population	Enter		Meas	les.	Cereb spin Fev	al
No.	Dis	tricts and '	rowns.		according to Census of 1931.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
	Λ	-DISTRIC	ets.								
1	Karachi				3,13,766	1	0.003	2	G*006		
2	Hyderabad				5,31,203	18	0.03	. 9	0.03		
3	Nawabshah				4,67,273	62	0.13	21	0.02	1	0.0021
4	Thar Parkar				4,54,021	35	0.08	2,4	0.02		
5	Larkana				4,08,298	17	0.04				
6	Dadu				3,09,146	26	0.08	15	0.02		
7	Sukkur				4,62,901	32	0.02	3	0.006		
8	Upper Sind F	rontier			2,44,578	7	0.03				
1915	Total of the D	Districts (e	xcluding towns)		31,91,186	198	•06	74	.06	1	70.003
65-81	OR MA	B.—TOW								in the	
		ARACHI DI			2,47,791	61	0.52	115	0.46		
9	Karachi	***	т. с.		6,240						
10	Karachi		c.c.		2,000						
11	Drigh Road		C. C.	***		1		1			
12	Tatta		Т. С.		9,635	1	0.10		*15*		
	Ну	DERABAD I	DISTRICT.								
13	Hyderabad		т.с.		96,021	58	0.60	99	1.03	2	0.00
14	Hyderabad		C. C.		4,530						
15	Hala		т. с.	***	7,304	***		2	0.28		

No. VI (a).

and towns of the Province of Sind during the year 1940.

7		8	-	9			10	1	1	1	12	1	13		14
Mala	ria.	Other	r s.	Influe	nza.	Beri	Beri,	Dipht	heria.		ken- ox.	Мц	mps.	Who	oping ugh.
Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths,	Ratio.	Deaths.	Ratio.	Deaths.	Ratio,	Deaths.	Ratio	Deaths.	Ratio.
										,	TO SEC				
	100				***				. 11				in takes		-
100	0.33	1,205	3.83					***		16	0.05			2	-006
86	0.16	2,877	5.43	375				2	0.004	68	0.13			. 4	0.01
64	0.13	3,723	7.97			***		3	0.002	17	0.04			4	0.008
93	0.21	4,900	10.79							11	0.03				
76	0.18	4,442	10'88	***				1	0.002					7	0.012
35	0.11	2,204	7.13					2	0.006	2	0.008			1	0.003
40	0.09	3,753	8.12				***	2	0.004	9	0.03			5	0.01
21	0.08	1,690	6-91							4	0 01				
	-			-		_				-		-			
515	.16	24,794	7.77		***			10	.003	127	*31			23	.07
										1000	VOX	8			
										en is	of ma				
29	0.13	110	0.44	1	0.004			13	0.05					24	0.10
1	0*16		5.61		0.16										11
1	0.10	147		1	0.10		***						18.6	12.2	72
•••	***	3	1.50			***									
***		27	2.80			***									
							13				-13154				
85	0.89	52	0.54					2	0.03						
		5	1.10					1	0.22						
		56	7.66												

						15	16		1	7	18	
1		2					Pne				Other F	tespi-
					Car	cer.	mon		Phth	ISIS.	Disea Disea	
No.	Distric	ets and "	owns.		of		oi		eš.		uń.	
					Deaths.	Ratio,	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
		-										
	Α	-DISTR	ICTS.									
1	Karachi						677	2.15	103	0.33	103	0-33
2	Hyderabad				***	100	622	1.17	113	0.23	109	0.30
3	Nawabshah				***		262	0.26	56	0.15	74	0.16
4	Thar Parkar						1,080	2.40	106	0.53	139	0.31
5	Larkana						27	0.06	25	0.06	41	0.10
6	Dadu	***					88	0.29	58	0.19	42	0*13
7	Sukkur						88	0.29	62	0.13	46	0.10
8	Upper Sind Fro	ntier		***			25	0.10	11	0.05	9	0.04
	Total of the Dis	triate (ex	relading town	(a)			2,869	-90	535	-17	563	-17
	Total of the Dis	11010 (6)	county to the	.,	,				_			_
	В	Tow	NS.									
	KAR	RACHI DI	STRICT.									
9	Karachi	***	Т. С.				1,483	5*98	823	3 32	627	2.53
10	Karachi		C. C.				9	1.44				
11	Drigh Road		c.c.				1	0.50				
12	Tatta		T. C.	***			13	1.35	10	104	5	0.52

	Нуря	RABAD I	DISTRICT.									
. 13	Hyderabad		т.с.				907	9.45	230	2:40	93	0.96
14	Hyderabad		C. C.									
15	Hala	1	T. C.					1.49	3	0.42	2	0.28
15	ridid		1. 0.				11	1.49	3	0.42	2	0.28

No VI (a) .- contd.

19		5	20	21		22		23
Dyse	ntery.	Diarri	hoea.	Deaths	Deat	hs under 1	year.	Infant mo
Deaths.	Ratio,	Deaths.	Ratio.	from child- birth.	Male.	Female,	Total.	tality rate per 1,000 births.
17	0.02	21	0.07	39	200	168	368	103:40
16	0.03	10	0.03	79	314	251	565	115:22
4	0-009	6	0.013	73	378	283	661	74-42
3	0.008	73	0.16	80	445	380	825	101.00
2	0.005	2	0.002	69	530	408	938	108:38
9	0.03	15	0.02	82	243	178	421	66:77
1	0.02	26	0.06	103	479	433	912	95.00
	***	2	0.008	13 ·	152	147	299	97.70
52	.016	155	105	538	2,741	2,248	4,989	93-94
							111/11	
119	0.48	478	1.93	66	1,096	989	2,085	136-75
5	0.80			12.00	18	14	82	75.83
					3	1	4	266'66
1	0.10			5	· 7	9	9	60-40
						Section.		
37	0.38	55	0.57	67	522	464	986	259.07
***	100		***		1	***	1	24.41
***				6	24	18	42	183*41

L (IV) 1668—14

1	3	1	3	4			5		6
	There I when adjusted		Population	Enter		Mea	sles,	spi	ebro- nal ver.
No.	District and Towns.		according to Census of 1931.	Deaths.	Ratio.	Deaths.	Ratio,	Deaths.	Ratio.
	BTOWNScontd. Hyderabad Districtconcld.								
16	Matiari T. C.		6,692	5	0.74				
17	Tando Muhammadkhan T. C.		6,626	5	0.76				
18	Nasarpur T. C.		4,254						
19	Tando Allahyar T. C.	***	5,146						
	NAWABSHAH DISTRICT.								
30	Nawabshah T. C.		7,023	8	1.14			***	
21	Tando Adam T. C,		13,469	36	2.67	1	0.08		
22	Shahdadpur T. C.		8,847	4	0.45				
	THAR PARKAR DISTRICT.								
23	Mirpurkhas T. C.		10,178	1	0.10			1	0.10
24	Umarkot T. C.	•••	3,841						
	LAREANA DISTRICT.								
25	Larkana T. C.		36,841	20	0.75				
36	Kambar T. C.		9,717	9	0.92	2	0.20	***	
37	Ratodero T. C.	•••	7,285						- 54
	DADU DISTRICT.								
28	Dadu T. C.		6,562	1	0.12				
29	Kotrl T. C.		10,033	2	0.50				
80	Sehwan T. C.		5,795	1	0.17	•••			***
81	Manjhand T. C.		3,746	1	0.32				

No. VI (a).—conta.

7 Mala		8 Other Fe	evers.	Influer			O Beri,		theria,	Chie	cken-		mps.	Who	opins ugh.
Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio,	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
		14	2:09			***									***
	***	67	10.11				***								
13	3'03	11	2.61				***			9	2'12		***	***	
		28	5-44		***	***		***					***		
		193	27:34	***	***					5	071				
		127	9.43												•••
		39	4'41		- 01	***									
2	0.19	34	3·34 6·51							1	0-10	***	***	***	
- 677						10.77							***		
220	8-19	9	0.33												
26	2:47	26	2.47					2	0.30				++		
		222	30.47											***	
1	0.12	32	4.89	***	***					1	0-15				
80	7-97	1	0-10							5	0.20			1	0-10
		9	1.55								***				
		19	6.91					3	1:09			***	***		

1	1		2				15	16		12		Other	Respi-
						Ci	ncer.	Pneum	ionia.	Phth	ISIS.	Dise	
No.		Dist	ricts and T	Cowns.		· i		60		vi		vi	
						Deaths.	Ratio.	Deaths	Ratio.	Deaths,	Ratio.	Deaths.	Ratio.
		то	WNSco	ntd.									
	1	Hyperaba	DISTRIC	T,-conc	ld.							1	
16	6	Matiari		Т.	c			9	1.35	4	0.60	4	0.60
15	7	Tando Muham	madkhan	т.	с			22	3:32	- 7	1.06	2	0.30
1	8	Nasarpur		Т. С	c			5	1.18	4	0.86	20	4.70
1	9	Tando Allahyar		т.	c			11	2.13	12	2:33		
		Naw	ABSHAH DI	STRICT.									
2	0	Nawabshah		Т.	с			30	4.27	9	1.28	3	0.43
2	1	Tando Adam		т.	c	١.		41	3.05	33	2.42	8	0.60
2	2	Shahdadpur	ī	т.	c		***	5	0.26	2	0.33	2	0.53
		Тна	R PARKAR I	DISTRICT									
2	13	Mirpurkhas		т.	c			18	1.77	19	1.87	4	0.39
2	4	Umarkot		т.	c			21	5.46	3	0.79	1	0.58
		LA	RKANA DIS	TRICT.			-				3		
2	15	Larkana	***	т.	c			48	1.75	7	0.26	23	0.86
2	18	Kambar		т.	c			31	3.19	16	1.64	10	1.03
:	17	Ratodero		т.	c		-	1	0.14	1	0.14	2	0 28
		D	ADU DISTR	HCT.									
2	18	Dadu		т.	c			4	0.60	5	0.77	3	0.48
2	19	Kotri		т.	с			17	1.70	7	0.70		
1	10	Sehwan		т.	с			5	0.84	2	0.36	3	0.52
1	31	Manjhand		т.	c			2	0.73	5	1.82	1	0 37
-	-					1	-	-	-	-	-		-

No. VI (a) -contd.

18		19		20			31		23
Dysen	tery.	Dian	rrhœa.	Dest	he	Death	s under 1	year.	Infant mo
Deaths.	Ratio.	Deaths.	Ratio,	froi child-b	n irth	Male.	Female.	Total.	tality rate per 1000 births,
						lam!			
							-		
1	0-15	1	0.12		3	6	2	8	77-6
***		1	0.12		5	21	13	34	465-7
					5	9	2	11	323-5
		1	0.19		2	1	2	3	66.6
									1
***					5	26	29	55	317-9
1	0.07	7	0.2		7	53	43	96	162.4
1	0.11				5	5	6	9	73-71
	***	1	0.10		3	7	7	14	107-6
			***		2	4	4	8	181-8
	0.12	5	0.18		42	59	45	. 104	111-3
2	0.50				6	24	19	43	149-3
***		8	0.41		1	27	23	50	213.6
1	0.12	1	0.15	5	4	6	4	10	91-8
		3	0.31		2	18	18	36	241.6
		***			2	5	1	7	78.6
					1	5	6	11	132-5.

1		2				3	4			5		6
						Population according	Ente		Mea	sles.	spi	ebro- inal ver.
No	Di	stricts a	nd Towns			to Census of 1931.	Deaths.	Ratio.	Deaths.	Ratio,	Deaths.	Ratio.
			IS.—conto	ł.								
32	Sukkur			T. C.		69,277	24	0.32			6	C+09
33	Shikarpur			T. C.		62,505	27	0.42	54	0.34		
34	Robri			т. с.	***	16,900	16	0.94				
35	Garhi Yasin			т. с.	10	7,370	4	0.54	3	0.41		
36	Ghotki			T. C.		4,826	4	0.83	4	0.83		
	UPPER SI	ND FRO	NTIER DE	STRICT.								
57	Jacobabad			T. C.		15,748					***	
			Total of	Towns		6,85,202	288	'43	280	'41	9	-01
		Tota	l of the F	rovince		38,76,398	486	-12	354	.09	10	•003

No. VI (a)-contd.

7	1	8		9		10)	1	1	1	2	1	13	1	4
Mala	ria.	Other Fe	vers.	Influe	enza.	Beri 1	Beri.	Diphtl	heria.	Chie	ken-	Mu	mps.	Who	oping igh,
Deaths.	Ratio.	Deaths,	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths,	Ratio.	Deaths.	Ratio.
											aww.	07			
											E RV	aju3			
77	1.10	11	0-16					2	0.02					14	0.30
903	14:45								27				I CONTRACT	7	0.12
85	5*03	8	0'47	***		***		900	57					15 ii.	
4	0.53	116	15.74									***		- G.	
65	13:46	55	11:40					1	0°21						
											aces.		SESSEE .		
111	***	175	1.11	*			**						***		**···
1,591	2:32	1,508	2.30	2	*003			23	-03	21	.03			46	-07
2,106	*52	26,303	6.78	2	10005			33	.008	148	.038			69	'018

1		2				ncer.	Pneu	6 monia,		thsis.	Other	Respi- ory ases.
No.	N	ame of	Town.		Deaths.	Ratio	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
			concle	ł.								
	Su	KKUR D	ISTRICT.							1 /		
32	Sukkur			T. C.	 		145	2.09	40	0.28	143	2.06
33	Shikarpur			T. C.	 		63	1.01	57	0.91	48	0.77
34	Rohri			T. C.	 		10	0.20	4	0.51	18	1706
35	Garhi Yasin			T. C.	 		1	0.14	11	1.49	5	0.67
36	Ghotki			T. C.	 	***	8	1.66	5	1.04	9	1.86
	UPPER SIN	D FROM	TIER DI	STRICT								
37	Jacobabad		***	т. с.	 		8	0.21				
			Total of	Town	 		2,929	4.58	1,319	. 1.93	1,036	1.21
		Total of	the Prov	vinces	 		5,798	1.20	1,854	.48	1,599	-41

No. VI (a)—concld.

23		22		21		20	Kunsok	19
Infant	year.	s under 1	Death	Deaths	hœa.	Diarr	tery.	Dysen
mortality rate per 1,0 births.	Total.	Female.	Male.	from child-birth,	Ratio.	Deaths.	Ratio.	Deaths.
91:49								
91.4	245	108	137	29	1.10	76	0.98	68
198*8	408	196	212	59	0*26	16	0.13	8
103-93	37	17	20	5	0.83	14	0.12	2
193-4	47	20	27	12	0*14	1		
316.00	67	39	28	6	1.66	8	0.41	2
153-8	36	16	20	3		<u></u>	0°06	1
155-7	4,498	2,116	2,382	351	-98	671	*37	253
115.7	9,487	4,364	5,123	889	-21	826	.078	305

APPENDIX ANNUAL FORM

Deaths registered from cholera in the districts

1	2		3		4					3	
	1	C Reg	ircles of istration.	Vil	lages.						
		each	which cholera	each	which cholera d.						
No.	Districts.	.8	from onte	.g	from om oorte						
		Number district,	Number from which deaths from cholera were reported,	Number district.	Number from which deaths from cholera were reported.	January.	February.	March.	April.	May.	June.
			1								
1	Karachi	14	1	1,041	1			***			
2	Hyderabad	14	2	870	2	٠				***	
3	Nawabshah	10	4	734	20			***			
4	Thar Parkar	13	1	948	1	***				***	
5	Larkana	10	4	2,118	4						
6	Dadu	11	6	1,047	30						
7	Sukkur	18		685		***				***	
8	Upper Sind Frontie	r 6		1,652							
	Total of the Province	91	18	9,095	58						

11-100 (VI) 2

III—contd. No. VII.

of the Province of Sind, during each month of the year 1940.

5							6			7		8	9
							Total.		Ratio 1,000	o of death of popula	s per	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
								29	0.02	0.05	0.02		1
25	4			***	***	17	12	29	0.00	0 03	0.09		1
1	***		1	***		2		2	0.006		.003	0.002	2
9	60	5				41	33	74	0.15	0.12	0.12	0.01	3
1		***	***			1		1	0.001		0.003	0.02	_ 4
13	4			***		11	6	17	0.04	0.03	0 04	0.02	5
42	22	25	15			57	4.7	104	0.17	0.12	0.12		6
·												0.06	2
***												0.01	8
91	90	30	16			129	98	227	0.06	0.06	0.06	0.03	

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APPENDIX

Death- registered from small-pox in the districts of the

1	2		3	basi	4						
		Cir Regi	cles of stration.	Vill	ages.						
No.	Districts.	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,
1	Karachi	14	10	1,041	28	32	14	1	29	18	5
2	Hyderabad	14	9	870	36	44	102	75	94	76	30
3	Nawabshah	10	10	734	45	19	45	28	27	28	4
4	Thar Parkar	13	13	918	84	57	56	41	26	20	6
5	Larkana	10	4	2,118	12			2	4	2	1
6	Dađu	11	4	1,047	9	3	6	5	5	26	. 1
7	Sukkur	13	7	685	11			3	4		7
8	Upper Sind Frontier	6	2	1,652	2		1				
	Total for the Province	91	59	9,095	227	155	224	155	189	170	54

III—contd.

No. VIII.

Province of Sind during each month of the year 1940.

5							6		7			8	-	9	10
	1					1	Cotal.		Numb these d amo child	eaths	de	al ratio aths p ,000 of pulatio	er	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
1					2	59	43	102	12	42	0.18	0.17	0.18	0.13	1
1	9		***	1		223	209	432	86	192	0.60	0.72	0.65	0.16	2
***		5	1	2	2	80	81	161	20	67	0.28	0.32	0.32	0.13	3
	3	1	2	***		130	82	212	14	76	0.20	0.40	0.45	0.53	4
14		3	***			13	13	26	3	16	0.02	0.06	0.06	0.58	5
	***			***		22	24	46	2	27	0.12	0.16	0.14	0.19	6
2	2	٠	2	2	4	14	12	26	4	17	0.04	0.04	0.04	0.09	7
			***	2		2	1	3		2	6.01	0:009	0.01	0.13	8
18	14	9	5	7	8	543	465	1,008	141	441	0.25	0.27	0.56	0.16	in.

APPENDIX
ANNUAL FORM

Deaths registered from plague in the districts of the

1	2		3		4						
	- The American	Cir Regi	cles of stration.	Vil	llages.						
No.	Districts.	each	plague d.	each	n which plague						
379		Number in district,	Number from deaths from were reported	Number in district.	Number from deaths from p	January.	February.	March.	April.	May.	June.
1	Karachi	14		1,041							
2	Hyderabad	14		870							
3	Nawabshah	10		734							
4	Thar Parkar	13		948				- 111			
5	Larkana	10		2,118			***	5***			
6	Dadu	11		1,047	41						
7	Sukkur	13		685				***			
8	Upper Sind Frontier	6		1,652							
	Total for the Province.	91		9,095							1 444

III-contd.

No. IX.

Province of Sind during each month of the year 1940.

9	8	7/27	7			6	5						
No	Mean ratio per 1,000 of previous five years.	Ratio of deaths per 1,000 of population.			Total.								
		Total.	Female.	Male.	Total.	Female.	Male.	December.	November.	October,	September.	August.	July.
1	0.002												
				-					***	***			
2						***	***			***	***		
3												***	
										***			-
4			***										***
5				***									
6			7		***								***
7	2000000												
	-	and the St	D) 7517										
8		***		***					***	***		***	
	0.001		110000										

APPENDIX
ANNUAL FORM

Deaths registered from Fevers in the districts of the

1	2			3		•						
	They from		Circ	cles of stration.	Vill	ages.						
			each	which	each	which						
No.	Districts.		.u		.g	from from orted.						
	The same of the sa		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	319	158	127	174	194	145	124
2	Hyderabad		14	14	870	621	360	311	320	329	315	272
3	Nawabshah		10	10	734	734	446	348	379	463	393	291
4	Thar Parkar		13	13	948	948	563	469	431	464	432	336
5	Larkana		10	10	2,118	1,370	384	336	272	315	360	225
6	Dadu		11	11	1,047	431	245	226	172	180	182	110
7	Sukkur		13	13	685	641	433	431	355	389	393	382
8	Upper Sind Fronti	er	6	6	1,652	608	139	95	110	81	114	121
	Total for the Provi	nce.	91	91	9,095	5,672	2,728	2,343	2,213	2,415	2,334	1,861

III .- contd.

No X.

Province of Sind during each month of the year 1940.

5							6			7		8	9
							Total,	. No.	Ratio 1,000	of death of popula	s per ation.	Jo 000'1	
July.	August.	September.	October,	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,0 previous five years.	No
101	115	185	101	127	191	921	771	1,692	2.80	3.07	2.90	3.21	1
257	299	216	205	285	323	2,024	1,468	3,492	5.40	5.05	5-27	5.63	2
295	265	308	276	309	505	2,448	1,830	4,278	8-77	8-41	8.60	7.65	3
36!	335	370	531	394	429	2,945	2,170	5,115	10.86	10.24	10.92	8-26	4
329	237	369	547	900	795	2,701	2,368	5,069	10.80	11.72	11:21	9:38	5
144	165	203	240	284	276	1,301	1,126	2,427	6.93	7.65	7.26	8.34	6
306	315	360	535	685	710	2,834	2,460	5,294	8.11	8 96	8'49	8.77	7
94	82	143	266	366	282	1,065	828	1,893	7'31	7*21	7:27	6.75	8
1,887	1,813	2,104	2,701	3,350	3,511	16,239	13,021	29,260	7:47	7.61	7.55	7.01	

L (IV) 1668—16

APPENDIX
ANNUAL FORM
Deaths registered from Dysentery and Diarrhoea in districts

1	2		3		4						
		Cir Regi	cles of stration,	Vil	lages.						
¥0.	Districts.	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,
	Karachi	 14	12	1,041	14	33	21	75	77	97	7:
2	Hyderabad	 14	12	870	17	14	11	9	5	13	1
3	Nawabshah	 10	6	734	10	3		***	1	5	1
4	Thar Parkar	 13	10	948	35	10	3	6	29	6	1:
5	Larkana	 10	5	2,118	8	3	3	2			
6	Dadu	 11	9	1,047	18		6	2	2		
7	Sukkur	 13	13	685	15	28	13	18	13	21	15
8	Upper Sind Frontier	 6	3	1,652	3	1	1			***	
	Total for the Province	 91	70	9,095	120	92	58	112	127	142	110

III—contd. No. XI.

of the Province of Sind during each month of the year 1940.

!	8	= [7			6							
	1,000 of previous	er 1,000 on,	deaths pe Populatio	Ratio of of 1		Total.							
No	Mean ratio per 1,000 of five years.	Total.	Female.	Male,	Total.	Female.	Male.	December.	November.	October.	September.	August.	July.
1	1.15	1.11	1.16	1.06	641	293	348	43	34	43	56	43	44
2	0.22	0.18	0.12	0.21	/ 122	-44	78	13	7	10	18	8	6
3	0.02	0.04	0.04	0.04	19	8	11			1		4	4
4	0.11	0.16	0.12	0.18	77	30	47	***	1	1	3	5	1
5	0.09	0.04	0.02	0.03	18	10	8	3		2	1	3	***
6	0.02	0.09	0.02	0.10	29	10	19	1	7	2	5	2	2
7	0-37	0.32	0.33	0.38	222	89	133	24	17	18	20	17	14
8	0.03	0.01	0.01	0.01	3	1	2						1
	0.30	0.29	0.29	0.30	1,131	485	646	84	66	77	103	82	72

APPENDIX

ANNUAL FORM

Deaths registered from Respiratory diseases in the districts of the

1	2		3	3	4						
			cles of stration.	Vill	ages,						
No.	Districts.	Number in each Dis- trict.	Number from which deaths from Respira- tory diseases were reported.	Number in each Dis- trict.	Number from which deaths from Respira- tory diseases were reported.	January.	February.	March,	April.	May.	June.
1	Karachi	 14	13	1,041	273	502	426	399	382	285	251
2	Hyderabad	 14	13	870	239	337	271	214	181	207	134
3	Nawabshah	 10	10	734	121	82	95	79	59	40	27
4	Thar Parkar	 13	13	948	307	296	292	191	142	106	88
5	Larkana	 10	10	2,118	37	37	23	18	28	24	9
6	Dadu	 11	11	1,047	44	29	40	17	27	14	7
7	Sukkur	 13	13	685	59	83	94	80	68	68	47
8	Upper Sind Frontier	 6	6	1,652	16	13	17	5	3	0	1
	Total of the Province	 91	89	9,095	1,096	1,379	1,258	1,003	890	744	564

III—concld.

No. XII.

Province of Sind during each month of the year 1940.

5							6			7		8	5
							Total.		Ratio of of 1	deaths p	er 1,000 on.	of previous	ON THE
July.	August.	September.	October.	November.	December.	Male.	Female.	Total.	Male.	Female	Total.	Mean ratio per 1,000 of five years.	No
270	257	251	208	304	345	2,151	1,729	3,880	6.24	6.89	6.70	6.70	1
124	121	108	133	148	216	1,298	896	2,194	3.20	3.08	3.32	3.16	2
27	17	13	20	27	43	350	179	529	1.29	0.83	1.06	1.16	3
47	43	11	29	44	102	836	555	1,391	3.19	2'69	2.97	2.72	4
23	7	9	10	19	33	154	86	240	0.61	0'42	0.24	0.48	5
23	13	5	14	12	43	148	96	214	0.79	0.65	0.23	0.76	6
41	40	40	65	74	89	512	277	789	1.46	1.01	1.26	1.18	7
1	3	3	3	2	2	34	19	53	0*23	0.12	(*20	0.33	8
556	501	440	482	630	873	5,483	3,837	9,320	2:52	2:25	2'40	2:33	

APPENDIX
STATEMENT
Showing the Particulars of Vaccination

1									
0		Dis	tricts or	Towns.				Population according to census of 1931.	Average number of Vaccinators employed throughout the year.
1	3		2					3	4
1	Karachi				7	r, c.		2,54,031	6
2	Do.				(C. C.			1
3	Do.				I	R, C.		46,748	1_
4	Tatta					"		41,020	1
5	Do.				1	г. С.		9,635	1
6	Ghorabari			-	1	R. C.		37,976	1
7	Mirpur Sakro					**		34,356	1
8	Sujawal						,	37,946	1
9	Jati					,,		34,651	1
10	Shahbandar		****			31		39,890	1
11	Mirpur Bathoro					,,		42,826	1
	10.10								
				Total,	Karachi	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		***		***	**)	
16	Do			***		T. C,		- 1,13,496	2
17	Matiari			***				J	100
18	Nasarpur							1	11.00
19	Tando Allahyar							- 61,320	1
20	Do					R. C.)	1
21	Tando Muhamm	adkhan				T. C.		- 1,04,545	1 2
22	Guni		***			R. C.		1,04,545	
23	Tando Bago				***	**		67,998	1
24	Badin	***		***				89,280	2
25	Matli		***			**		46,638	1
				Total, H	yderabad	district		6,62,924	14
26	Tando Adam					T. C.		The second second	1
27	Shahdadpur	***		***				1,03,217	1
28	Do.	***	***			R. C.			2

No. I. in Sind during the year 1940-41.

					I	Primary Va	accination.	10000		
To	otal numbe	er of persons	Min	Average			Successful.			
		nated.		number of vaccinated by each Vaccinator	Total.	Under one year.	One and under six years.	Total of all ages.	Unk	nown
М	Tale.	F emale.	Total.	8	9	10	11	12		13
			-		2			10.000	-	00
P. R.	6,765 6,107	6,289 3,983	13,054 10,090	3,857	13,064	10,365	2,192	12,959	1	25
P. R.	53 276	63	116 278	394	116	22	35	72	100	25
P. R.	763 251	672 61	1,435 312	1,747	1,435	303	902	1,341	-	9:
P. R.	1,044	743 215	1,787 632	2,419	1,787	303	1,198	1,721	100	64
P. R.	137 72	121	258 86	344	258	85	135	248	1000	10
P. R.	868	696 25	1,564 178	1,742	1,564	209	1,153	1,551	100	13
Ρ.	153 696	645	1,341 352	1,693	1,341	325	879	1,283	-	47
R. P.	230 682	122 550	1,232	1,569	1,232	282	691	1,112	-	12
R. P.	255 542	82 478	337 1,020	1,346	1,020	305	563	968	-	5
R. P.	257 704	69 463	326 1,167	1,191	1,167	399	607	1,144		2
R. P. R.	20 965 268	731 115	1,696 383	2,079	1,696	377	925	1,602		9
P. R.	13,219 8,306	11.451 4,692	24,670 12,998	2,354	24,680	12,975	9,280	24,001		56
										-
P.	1,901	1.830	3,731	11,546	3,731	1,842	874	2,765		92
P. R. P.	4,056 45	3,759 42	7,815 87	183	87	50	32	85		
P. R. P.	1,406	1,210	96 2,616	4,094	2,616	780	1,522	2,492		12
P. R.	1,164 1,811	314 1,567	1,478 3,378		3,378	1,618	1,459	3,167	L	21
P. R. P.	365 81	95 86	460 167	2,128	167	90	68	165		
R. P.	16 89	15 82	31 171		171	66	97	166		
R. P.	40 33	9 33	49 66		66	23	40	65		
R.	123 79	5 42	128 121	123	121	54	56	113		
P. R.	2	1,167	2,759	4,209	2,759	693	1,673	2,545		21
P. R.	1,592 971	285 138	1,256 243	424	243	126	97	232	1	1
P. R.	105	31	181 3,538	2,102	3,538	1,015	1,995	3,302		23
P. R.	2,094 529	1,444	666	3,484	2,579	918	1,214	2,415		16
P. R.	1,446 657	1,133 248	2,579 905		3,398	1,273	1,634	3,177		22
R. P. R.	1,904 518	1,494 130	3,398 648	2,023	2,553	10,83	1,129	2,365		18
P. R.	1,376 525	1,177 257	2,553 782	3,333	4,555	10,00	-,,			-
P. R.	13,962 9,170	11,445 5,327	25,407 14,497	2,850	25,407	9,631	11,890	23,054		2,31
		1		560	536	237	238	486	-	5
P. R.	303 11	233 13	536 24		520	236	231	481	1	3
P. R. P. R. P.	268 89 2,031	252 13 1,686 68	520 102 3,717 351	622 2,034	3,717	1,561	1,713	3,401		31

							Re	e-vaccination.	in here
		Die	tricts or To	omen.			Total.	Successful	Unknown.
io.		DE	atricts of 1	own.			A O Call	Duccessini	Cimiowin
ı			2				14	15	16
1	Karachi		9		T C.		10,090		10,090
2	Do.				C. C		278	99	16
3	Do.				R. C.		312	7	129
4	Tatta		***		R. C.		632	15	111
5	Do.				T. C.		86	20	
6	Ghorabari				R. C.		178	2	
7	Mirpur Sakro						352	6	48
8	Sujawal						337	39	199
9	Jati						326	30	9
10	Shahbundar	***	***		.,		24	2	
11	Mirpur Bathoro						383	81	5
			Tota	l, Karac	hi district		12,998	301	10,82
	100.55					-			
12	Hyderabad			***	T. C.		7,815	207	2,88
13	Do.				C. C.		96	96	
14	Do.				R. C.		1,478	36	233
15	Hala				,,		460	19	1
16	Do.				T. C.		31	6	
17	Matiari						49	6	
18	Nasarpur						128	39	3:
19	Tando Allahyar				,,		2		
20	Do.				R. C.		1,256	46	430
21	Tando Muhamm	adkhan			т. с.		181	11	5
22	Guni			***	R. C.		656	118	14
23	Tando Bago			***			905	58	38
24	Badin	***					648	38	22
25	Matli						782	33	16
	10.0		Total.	Hyderal	ad distric	t	14,497	713	4,58
			201111			-			
	103.80				m 0			- 1157	AWAT
26	Tando Adam				т. с.		24	4	
27	Shahdadpur				"		102	1	
28	Do.	***		**	R. C.	***	351	54	3:

No. I .- contd.

ercentage of s in which t were b		Persons successfully vaccinated per 1, 00 of	Total cost of Vaccination Department.	Number of all successful vaccinations performed by the vaccination	Average cost of each successful case performed by the vaccination
Primary.	Re-vaccination.	population.		staff only.	staff.
17	18	19	20	21	22
			Rs. a. p.		Rs. a.
99.49		51-01	***	***	**
76.60	90-00	***		***	***
99.85	3 83	28:84	***		***
99 89	2.88	42:32			***
100.00	25.32	27 82			
100.00	1.14	40.89		- "	
99.15	1.97	37.52			
100,00	28.26	30.33	***		
99.90	9:46	28 80			
1000	8.33	28:73			***
100.00	24.85	39-30			
99-57	13.82	41.97	20,928 0 0	24,302	0 13 9
98-61	4.50	30-95			
97:70	100.00	39*96			***
100.00	2.89	31.96			
100.00	4.52	,	77		
100.00	21:43	31.09			
100.00	13 95	5			
100.00	41 94	,			
100-00		45-79			
	5-61	1			
100.00	8.44				
100.00		35.04			
100.00	22.74	26:07	-		
100-00	11 18	36-37			
100-00	9-05	36-01			,
100.00	5.33	51.42			
99.83	7'19	35.85	17,453 0 0	23,767	0 11 9
	10,10				
100.0	18:18	42.89			
100-00	1.00	F 42 09			

No.		Die	stricts or 7	Fowns.			Population according to census of 1931.	Average number of Vaccinators employed throughout the year.
1		-	2	-			3	4
29	Naushahro Fero)ze	***	***	R. C.		86,068	2
30	Kandiaro	***	***		,,		80,814	1
31	Sakrand	***			"	***	62,476	1
32	Moro				11	***	59,563	1
33	Nawabshah				,,		} 56,270	1
34	Do.		***		T. C.)	1
35	Sinjhoro		***		R. C.		48,201	1
				Total Nat	wabshah district		4,96,612	12
				10161, 116	Wasself Clinical			
36	Mirpurkhas	***			R. C.		47,536	1
37	Do.		***		T. C.	***) ",""	1
38	Umerkot	***					3,841	1 1
39	Do.	***		***	R. C.		39.628	1
40	Samaro				11		43,779	1
41	Jamesabad				*** **		30,745	1
42	Chachro	***			39		61,974	1
43	Nagar Parkar				*** **		41,725	1
44	Diplo	140		***	,,		25,242	1
45	Mithi				,,		45,709	1
46	Khipro			***	,,		51,030	2
47	Sanghar				,,		33,777	1
48	Digri	***	***	***	,,	***	43,053	1
				Total, Tha	r Parkar district		4,68,040	13
49	Dadu				T. C.		57,549	1
50	Do.	***	***	***	R. C.		3	1
51	Sehwan	***	- 100	***	,,		} 45,086	1
52	Do.	110		***	T. C.		1 40,000	1
53	Kotri	***			*** >>		- 53,787	1
54	Do.	***	***		R. C.) 33,757	1
55	Manjhand				T. C	***		
56	Johi	***	***		R. C.		51,448	1
57	Kakar			***			48,448	1
58	Mehar		***		,.		63,001	1
59	Kohistan				,,	***	17,374	1
	1				tal, Dadu district		3,36,693	10

No. I .- contd.

						Pri	mary Vaccin	a tion.	
Т		mber of per- accunated.	sons	Average number of persons vaccinated by each	Total.		Successful	l.	
Male	e,	Female.	Total.	Vaccinator.	Total.	Under one year.	One and under six years.	Total of all ages.	Unknows
5		6	7	8	9	10	11	12	13
{P. 2	2,366	2,001	4,370	2,630	4,370	2,476	1,535	4,110	260
(P. 1	711	179 1,379	890 2,942	3,074	2,942	1,577	1,103	2,788	154
R. P. 1	1,130	916	132 2,046	2,106	2,045	974	949	1,955	91
{R. {P. 1 {R.	39 1,052	981	2,033	2,209	2,033	977	912	1,939	94
(P. 1	148	28 989	176 2,15±	2,346	2,152	909	976	1,964	187
(R. (P.	135	5) 129	194 273	574	273	107	137	244	29
R. P. R.	203 939 236	98 899 100	301 1,838 336	2,174	1,838	824	828	1,745	92
§ P. 10	0,959	9,468	20,427 2,566	1,916	20,427	9,878	8,622	1,9113	1,309
5 P. 1	1,047	824	1,871	2,906	1,871	689	944	1727	141
R. P. R.	738 150	297 135	1,035 285	508	285	163	60	228	57
(P.	170 34	53 29	223 63		63	32	23	60	3
{ R, ∫ P.	698	584	1,282	2,231	1,282	426	667	1,192	90
R. {P. 1 R.	598 1,171	286 821	884 1,992	3,237	1,992	978	825	1,861	131
(P.	882 729	363 593	1,245	2,274	1,322	581	566	1,192	129
{ R	633 790	319 735	952 1,525	1,930	1,525	612	756	1,382	143
(P.	258 605	147 517	405 1,122	1.350	1,122	507	561	1,105	17
{ R. { P.	145 522	83 498	228 1,010	1,704	1,020	297	554	910	110
{ R. { P.	506 974	178 853	684 1,827	2,097	1,827	817	823	1,663	164
{R, {P.	189 1,575	1,2:2	276 2,797	1,813	2,797	1,206	1,301	2,618	179
R.	579 740	249 582	828 1,3 2	1,930	1,322	624	551	1,234	88
5 P. 1	1,368 1,098	1,170 5:6	2,438 1,684	4,222	2,538	1,987	1,102	2,411	127
	0,403	8,563 2,778	18,966 9,048	2,155	18,966	8,019	8,734	17,583	1,379
{P. R.	94 12	81 2	175	189	175	74	87	162	13
(P. 1	1,074	1,039	2,113	2,393	2,113	1,364	667	2,077	36
5 P.	857 500	723 69	1,580	2,149	1,580	827	544	1,473	107
{P. R.	76	66	142	145	142	52	82	137	5
5 P.	206 210	177	383 271	654	383	118	197	323	58
{P. R.	636	439 165	1,075 572	1,716	1,075	362	622	1,023	52
{ P. R.	21	23	44 25		44	27	14	41	3
5 P. 1	1,231	761 41	1,992	2,190	1,992	1,157	587	1,761	231
5 P.	790 259	799 56	1.589	1,904	1,589	735	735	1,514	75
	1,022	1,057	2,079	2,176	2,079	1,041	870	1,942	137
{ P. { R.	326 168	278 52	604 220	824	604	202	318	574	30
	6,333	5,443 515	11,776 2,566	1.443	11,776	5,959	4,723	11,027	747

						-	R	e-vaccination.	
0.		Dis	stricts or Tow	vn.			Total.	Successful	Unknown.
1			2				14	15	16
29	Naushahr® Feroze				R. C.		890	114	25
30	Kandiaro						132	10	2
31	Sakrand						60		4
32	Moro						176	18	7
33	Nawabshah						194	1	
34	Do.			***	T. C.		301	2	6
35	Sinjhoro				R. C.		336	26	7
			Total, Na	wabshal	district	-	2.566		58
36	Mirpurkhas				B. C.		1,035	9	- 61
37	Do.				T. C.		223	12	16
39	Umerkot						3	1	
39	Do.				R. C.		884	159	25
40	Samaro						1,245	146	30
41	Jamesabad						952	159	49
42	Chachro	***			,,		405	5	13
43	Nagar Parkar						228		
44	Diplo						684	68	21
45	Mithi						270	7	14
46	Khipro	***			,,		828	16	58
47	Sanghar						608	37	30
48	Digri						1,684	186	55
			Total, Tha	r Parka	r district		9,048	805	3,75
	Dada				T. C.	-	14	3	1
49	Dadu Do.				R. C.		280	17	5
50	Sehwan				,,		569	62	21
51	Do.				T. C.		3	1	
	Kotri						271	10	4
53	90.				R. C.		572	31	1
55	Manjhand				T. C.		25		
56	Johi				R. C.		198	14	13
57	Kakar	***		***			315	21	7
58	Mehar						99	9	5
59	Kohistan						220		
-						100	THE RESIDENCE		- Commercial Commercia

No. I-contd.

Percentage of s in which t were k	he results	vac	Persons uccessfully coinated per 1,000 of opulation.	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.	P	opulation.		stan omy.	******		
17	18		19	20	#I	22	,	
				Rs. a. p.		Rs. a.	p.	
100 00	17.98		49.08					
100.00	9.35		34.62				1	
100-00			31.29	***		***		
100.00	18 00		32.86					
99.95	00.23	1	39 29	***				
100.00	00.84	}	37.27					
99,94	10.13		36-74					
99 97	11:59	-	38 95	12,313 0 0	19,343	0 10	2	
99.83	2.14	5						
100.00	19 35	}	41.57		***			
100.00	100:00		15.88	***				
10.40	25.16		34'09		***			
100.00	15.23		45.84	***				
99*12	34.42		43'94					
100'00	1 87		22 38					
100.00			26'48			* ***		
100.00	14.53		38'74					
100.00	5:43		36'54			* * * * * * * * * * * * * * * * * * * *		
100.00	6.53		51.62					
100:00	12.01		37.63					
100 00	16'46	1	60.32					
99.98	15:21	-	39:29	15,462 0 0	18,388	0 13	5	
		-						
1000	75 00	1	39-25					
100.00	7 46	}		100/2				
100.00	17:42	1	37-11					
100.00	50-00	1	- 000		1	Teth Carl		
99-38	4 46	}	26.55			.0		
100.00	5:53)	7					
100.00						4.00		
100.0	22-22		34.5)					
100.00	8-82		3 '68	***				
100.00	20.93		30 97					
100.00		1	33'04					
99-98	8:57		33.25	9,252 0 0	11,195	0 13		

No.			District	or Towns.				Population according to census of 1931.	Average number of Vaccinators employed throughout the year.
1			2					3	411
0	Larkana					T C.		26,841	1
51	Do.	***	***			R. C.		71,272	1
52	Ratodero	***	***	***	***	,,		59,781	1
3	Do.	***		***		T. C.		7	1
4	Kambar	***	***			99		9,717	1
55	Do.					R. C.		72,028	1
56	Miro Khan	***	***			"		47,214	1
57	Warah		***			"		64,783	1
58	Dokri					90		76,567	1
59	Shahdadkot					.,		37,195	1
				Total, L	arkar	a district		4,65,399	10
	Chilbranus					T.C.		62,505	1
ro	Shikarpus Do.		***	***		R. C.		73,419	1
71	Sukkur							66,350	1
72	Do.	***	***			T.C.		69,277	1
73	Rohri	***	***					16,900	1
74	Do.		***			R. C.	***	77,826	1
75	Garhi Yasin						***		
76	Do.					T.C.		68,674	1
77	Ghotki	***	***			.,)	Longo Y
78	Do.					R. C.		46,839	1
79	Mirpur Math					"		48,556	1
80	Pano Akil							47,287	1
82	Ubauro				***		***	15.116	1
04								3 938	
				Total.	Sukk	ur district		6,23,779	
83	Jacobabad					R. C.		71,561	1
84	Po.					T. C.		15,748	1
85	Garhi Khaire		***	***		R. C.		1 42	1
86	Thul			are -				61,303	1
87	Kandhkot					100		64,525	1
88	Kashmore					1000		41,407	1
7.70	-								
	1		Total	, Upper Sind I	ront	er distric		2,54,544	6

					1	Primary Va	ccination.			
Tot	al numbe	r of persons vaccinated.		Average number of vaccinated by each		Under	Successful.		Unknown.	
	Male.	Female.	Total.	Vaccinator		one year.	under six years.	Total of all ages.		
	5	6	7	8	9	10	11	12	13	
P.	359	276	635	721	635	190	395	594	41	
R. P. R.	1,100	1,037	86 2,137	3,484	2,137	1,210	612	1,829	305	
P.	878 759	469 669	1,347 1,428	3,253	1,428	1,003	288	1,297	124	
R. P.	1,210	615 129	1,825 228	254	229	105	112	221		
R. P.	14	12 129	26 214	359	244	116	107	226	18	
R. P.	1,102	1,026	2.128	3,695	2,128	1,214	648	1,891	251	
R.	1.143	424 626	1,567 1,361	2,841		607	587	1.212	148	
P. R. P.	1,108	1,013	1.480	3,546		1,106	704	1,841	150	
R.	609	935	1,544	4,802		805	417	1,243	19	
P. R. P.	799 2,266 865	1.102 798	3.348 1.653	2,663		892	546	1,491	17:	
P. R.	6,922 8,036	6,338 4,322	1,060 13,250 12,358	2,563	13,261	7,248	4,416	11,845	1,39	
5.11	1,175	1,173	2.318	2,473	2,348	1,624	518	2,158	18	
P. R. P.	30	95 1,259	125 2,657	3,036		1,623	795	2,430	22	
R.	1,398	105	379 2,038	2,478		1,395	468	1,891	14	
P.	1,049	101 948	140 2,011	2,173		1,078	918	1,996	4	
(P. R.	1,093	26	132 449	456		243	173	422	1 2	
P. R.	219	230	7	2,706		1,525	799	2,335	16	
P. R.	1,284 185	1,214	2.498 208	4,700	2,252	1,561	443	2,009	24	
P. R.	11.68	1,084	2,252 150	2,691		162	69	232	2	
P. R.	131 29	125	256 33)	58	31	20	54		
P. R.	23	35	58	1,482	,		229	1,033	26	
P. R.	640	659 19	1,299 130		1,433	796	5:3	1.360	9	
P. R	739 28	717	1,456	1,49		830		1,376	25	
P. R.	874 111 629	753 2 591	1,627 113 1,220	1,740		1,032 715	335	1,021	19	
{P. {P. {R.	10,422 1,43 4	9,777 452	20.199 1,886	20,08	20,200	12,618	5,584	18,317	1,88	
	773	707	1,480	1,68	6 1,480	770	557	1,368	11	
{P. ₹ .	165 269	41 250	206 519	57		243	260	508	1	
(P.	38 731	22 573	60 1,304	1,46		602	654	1,270	3	
{ P. R.	145	1,009	164 2,147	2,24		1,276	768	2,068	,	
{P. R. {P.	1,138	22	95 2,586			1,144		2,280	30	
(P.	1,346 108 1,267	1,210 36 1,104 32	2,350 144 2,371 275	2,64		1,234		2,179	15	
{P. {R.	5,521	4,883 172	10,407	1,89	10,407	5,269	4,199	9,673	73	
CK.	772		1,45,112	2,19	5 1,45,124	71,597	57,448	1,34,613	10,3	

Carried And				100					Re-vaccination.	
							1			
		ni	stricts or	Town						and the same of
No.		Dis	tricis or	Towns			-/	Total.	Successful,	Unknown.
	I BUT A									
1			_2			4		14	15	16
- 60	Larkana					т. с		86	14	49
60	Do.					R. C.		1,347	286	663
62	Ratodero							. 1,825	24	189
63	Do.		***			T. C.		26	9	8
64	Kambar		***					115	22	41
65	Do.					R. C.		1,567	172	673
	Miro Khan							1,480	165	535
66	Warah							1,544	- 310	193
67	Dokri							3,368	126	1,097
68	Shahdadkot							1,000	133	414
69				Total	Larka	na district		12,358	1,261	3,8: 2
			-							
70	Shikarpur					T. C.		125	28	30
- 71	Do.					R. C.		379	32	93
- 72	Sukkur							440	27	220
73	Do.					T. C.		132	43	66
- 74	Rohri							7		5
75	Do.					R. C.		208	14	172
76	Garhi Yasin							150	17	62
77	Do.			***		T.C.		33	4	9
78	Ghotki					.,				
79	Do.					R. C.		130	+	104
80	Mirpur Mathelo	,						35	5	17
. 81	Pano Akil					**		113	6	15
82	Ubauro		***					134	5	106
10.				Tot	tal, Sukk	ur district		1,886	185	899
83	Jacobabad	537						206	19	122
84	Do.					T.C.		60	6	31
. 85	Garhi Khairo			***		R. C.		164	4	116
86	Thul							95	12	18
87	Kandhkot							144		99
88	Kashmore							275	15	105
			Total, Up	per Sir	nd Front	ier district		944	56	491
	-				7	Total, Sind		56,863	3,719	25,601

No. I-contd.

L (IV) 1668-18

in which t	he results	Persons successfully vaccinated 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 vaccination staff.		
Primary.	Re-vaccination.	tion.	Department.	staff only.			
17	18	19	20	21	22		
100.00	37.84	22.65	Rs. a. p.		Rs. a	i. p	
99.84	41.81	29 68		··· toleta			
99.46	1.47)			Tolamin II		
99.10	50.00	25.94		***			
100.00	29-73	25*52			and set		
100.00	19:24	28.64		***	111		
99.92	17:46	29.17					
99:84	22-95	33:20			100		
100.00	5.55	17.88		*****	THE WINT		
100.00	22-70	43.66					
99.87	14'84	28'16	12,471 0 0	13,106	0 15	3	
99.95	29.47	34.97					
100:00	11.19	33*53					
100.00	12:27	28'91					
100.00	65.15	29.43					
100.00	***	24.97	***				
100.00	38'89	30.18					
100.00	19:32	1					
100.00	16.67	32'94	***	***			
100.00		1					
100.00	15.38	33.29	***				
100.00	27.78	28.11			- m-		
100.00	6.12	29.23	***				
100.00	17.86	22*23			***		
99.99	18:74	29 66	12,280 U O	18,502	0 10	7	
		10.00			State State		
100.00	22.62	19:38					
100.00	20:69	32.64	***		destroyett.		
100.00	8:33	***		***			
100.00	15.28	33.93	***				
100.00	0100	35 34	- Material and	Service Service	***		
100.00	8.82	52-99					
100 00	12.36	38.23	6,437 0 0	9,729	0 10	7	
99.87	11.90	35.59	1,16,570 0 0	1, 38,332	0 13	6	

No.		District	s or Towns			10000	Population according to census of 1931.	Average number of Vaccinators employed throughout the year.
1		n n	2				3	4
1	Karachi distri	ict					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 From			***			2,38,796	5
			Total Sin	nd, exclud	ing Towns		33,27,741	66
		KARACHI	COLLECTOR	RATE.		1		
	Karachi				T. C.		2,54,031	6
	Do.				c. c.			1
	Tatta				T. C.		9,635	1
					Total		2,63,666	8
		HYDERABA	D!Collect	ORATE.				
	Hyderabad				T. C.		96,021	1
	Do.				C. C.		4,530	1
	Hala				T. C.		7,304	
	Matiari						6,074	
	Nasarpur					,,,,	4,243	
	Tando Allahyar				11 %		5,146	1
	Tando Muhamm	adkhan			18.0		- 6,560	7 701
					Total		1,29,878	4
		1.5			Total		1,23,070	
		NAWABSHA	H COLLECTO	BATE.				
	Tando Adam	***			T. C.	***	12,859	1
	Shahdadpur						7,572	1
	Nawabshah					***		1
					Total		20,431	10 -3
	100	THAR PARE	CAR COLLEG	TOBATE.				Tana a
	Umarkot				т. с.		3,581	
	Mirpurkhas						9,120	1
	11 5			U7.34.1	Total		12,701	1

No. I .- contd.

					Pri	mary Vaccin	nation	
	imber of per accinated.	sons	Average number of persons vaccinated	(0)		Successful	L.	Unknown
Male,	Female.	Total,	by each Vaccinator.	Total.	Under one year,	One and under six years.	Total of all ages.	Onknown
0 : 5	- 6	7	8	9	10	11	12	. 13
(P. 6,264	4,978	11,242	} 1,723	11,242	2,503	6,918	10,722	504
(P. 6,264 (R. 1,851 (P. 11,629	693 9,192	2,544 20,821	2,702	20,821	7,380	10,626	19,463	1,358
R. 4,729	1,466 8,854	6,195 19,098	2,360	19,098	9,298	8,016	17,902	1,191
R. 1,662	477 8,399	2,139 18,618	} 2,287	18,618	7,824	8,651	17,295	1,319
P. 10,219 R. 6,098 P. 6,349	2,725 5,804	8,823 12,153	3,469	12,153	6,837	3,302	10,804	1,335
R. 7,855 P. 5,936	4,276 5,096	12,131 11,032	1,898	11,032	5,688	4,343	10,364	668
R. 1.811	7,266	2,253 15,047	} 2,080	15,047	9,477	3,886	13,455	1,592
P. 7,781 R. 1,262 P. 5,255 R. 734	327 4,633 150	1,589 9,888 884	} 2,154	9,888	5,026	3,939	9,165	723
P. 63,677 R. 26,002	54,222 10,556	1,17,899 36,558	} 2,340	1,17,899	54,033	50,181	1,09,170	8,690
P. 6,765 R. 6,107	6,289	13,054	3,857	13,064	10,365	2,192	12,959	29
(P. 53	3,983	116 278	394	116	22	35	72	22
R. 276 (P. 137 R. 72	121 14	258 86	344	258	85	135	248	10
P. 6,955 R. 6,455	6,473 3,999	13,428 10,454	} 2,985	13,438	10,472	2,362	13,279	61
				or the section	00 00			
{P. 1,901 (R. 4,056	1,830 3,759	3,731 7,815	} 11,546	3,731	1,842	874	2,765	927
{P. 45 R. 54	42 42	87 96	} 183	87	50	32	85	
{P. 81 R. 16	86 15	167 31	}	167	90	68	165	2
P. 89	82	171	}	171	66	97	166	5
P. 33 R. 125	33	66 128	}	66	23	40	65	1
{P. 79 R. 2	42	121	} 123	121	54	56	113	8
{P. 105 R. 150	138 31	243 181	} 424	243	126	97	232	11
{P. 2,333 R. 4,441	2,253 3,861	4,586 8,302	} 3,222	4,586	2,251	1,264	3,591	954
{P. 303 R. 11	233	536	} 560	536	237	238	486	50
f P. 268	13 252	24 520	} 622	520	236	231	481	39
R. 89 P. 144 R. 203	31 129 98	102 273 301	3 574	273	107	137	244	29
{P. 715 R. 303	614 124	1,329 427	} 585	1,329	580	606	1,211	118
(P. 34	29	63	,	ATEMPTE	PH 65.11	NAME OF TAXABLE		
{P. 34 {R. 2 {P. 150 {R. 170	135 53	2 285 223	508	63	32 163	23 60	60 228	52
{P. 184 R. 172	164	348	} 573	348	195	83	288	6

	100	1000	mind I						Re-vaccination.	
									Total Care	
No.			Districts o	r Town				Total.	Successful	Unknown.
								l Harri	-	alest .
1			2					14	15	16
1	Karachi d	istrict						2,544	182	556
2	Hyderabad							6,195	348	1,608
3	Nawabshah	**						2,139	223	516
4	Thar Parkar	,,						8,823	729	3,593
5	Larkana	,,						12,131	1,216	3.764
6	Dadu							2,253	154	544
7	Sukkur							1589	110	789
8	Upper Sind F	rontier						884	50	460
			Total, S	ind, ex	cludi	ng Towns		35,558	3,075	11,830
		KARAC	HI COLLECT	TORATE						
	Karachi .					T. C		10,090		10,090
	Do.					C. C.		. 278	99	168
	Tatta				***	T. C.		86	20	7
						Total		10,454	119	10,265
		HYDERA	BAD COLLEG	TOBAT	¥•					
	Hyderabad .				***	T. C.		7,815	207	2,882
	Do.					c. c .		96	96	
	Hala .					T. C.		31	6	3
	Matiari							49	6	6
	Nasarpur .							128	39	35
	Tando Allahya	ar						2	0	0
	Tando Muhan	nmadkhan			•••	,,		181	11	51
						Total		8,303	365	2,977
		NAWABS	HAH COLLE	CTORAT	E.					
	Tando Adam.					T. C.		24	4 1	2
	Shahdadpur .				***			102	1	2
	Nawabshah .					,,		301	2	62
						Total		427	7	66
		THAR PA	BKAR COLLI	CTORA	TE.		-			
	Umarkot .					T. C.		2	1	. 1
						,,		223	12	161
			205	(12		Total		225	13	162

No. 1 .- contd

Percentage of su in which th were kr	ne results	Persons successfully vaccinated per 1,000 of	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.	population.		staff only.	staff.
17	18	19	20	21	22
			Rs. a. p.		Rs. a. p
99.85	9.15	34.57	1114,000,000	164841.1,0904	
100.00	7:59	35.53	***	19,811	sussial"
99-97	13:74	36.20	***	18,125	radinali
99-98	15*14	38'96		18,087	orabotari.
99 87	14.53	27.41	***	12,020	
100.00	9.01	31*24		10,518	***
10000	13.75	28.55		13.565	
100-00	11.79	38'59		9,215	
99-96	12'44	33.73		1,12,245	Sehwan
	The state of the s		100		/anolt
99:49		51.01			boadjosM
76.60	90.00				
100.00	25:32	27.82			
			1114 CUCUS 5.20	Lesseni	
99*34	62-96	50.81			•••
					- 101Salad
98.61	4.50	30.95			wrashir
97-70	100-00	39*96	***		Roles
100.00	21.43	23:41			Ganti Van
100.00	13-95	28:32			Obesign
100.00	41.94	24.51			***
100.00		21.96			
100.00	8:46	37.04	- COLLEGE SERVE	Urpan Sind Page	
98.87	6.85	30.46			
		1911			
100-00	18.18	38.10		***	
100.00	1.00	63*06		•••	
100.00	84				
100.00	1.94	59-62		N-32	a vorzegeni
		-			
100-00	100-00	17'03			
100.00	19:35	26-32			
100-00	20-63	23.70		***	

		-					
10 18 0 18400M	Medin redical Differences		Towns.			Population according to census of	Average number of Vaccinators
10.	ESSENT DESIGN		Estimate State of the State of			1931.	employed throughout
Sare	plan for				0.5		the year.
							Appendix.
1 40	16	2		4.0		3	4
or process							-
1		ANA COLLE	CTOBATE.	1 1 1 1 1			1750.00
Larkana	313.92			т. с.		26,841	1
Kambar	181.12		***			9,717	1
Ratodero	500.50			35.61		7,285	92.00 1
	120,31			10.12	-	10.010	77.27
	200,000			Total	***	43,843	3
-		DU COLLEG	TORATE.		-		00/00
+	515.5						
Dadu				т. с.		6,562	1
Sehwan	\$82.27,7			,,		4,107	1
Kotri				11		10,033	1
Manjhand						2,746	25.45
1				Total		23,448	3
	e				-		
	SUE	KUB COLLE	CTOBATA.				-
Sukkur				T. C.		69,277	1
Shikarpur			***	,,	***	62,505	1
Rohri				19		16,900	1
Garhi Yas				,,		6,925	PO177
		***		23.48		4,638	Marin Tar
Ghotki		***			"	2012	2000
				Total		1,60,245	3
	UPPER SINI	D FRONTIES	COLLECTO	BATE.			
-				T. C		16 740	
Jacobaba	d			т. с.		15,748	1
				m 7.7		15.740	
				Total		15,748	1
				Court Comment		6 60 050	
-				Total, Towns		6,69,960	26
Inspector	's cost						
-				10.65	-	277	
AND THE PERSON NAMED IN	111			Total, Sind	i	38,87,070	92
							10000
	-		100	1000		10.01	10.000
	T and Block with the state of	-					-
104	418			64.13		43/00	DD-001

No. I .__contd.

						Pi	rimary Va	cination.				
То	tal number	of persons vaccinated.	And T	numi vacci	rage ber of nated each inator	Total.	Under	One and under	Total of	Unl	Unknown.	
	16.1.	Female.	Total.	* 400			year.	six years.	all ages.			
	Male.	6	7		8	9	10	11	12		13	
700								Caropera).				
P. R.	359	276	635 86	3	721	635	190	395	594		41	
P	55 115	31 129	244 115	1	359	244	116	107	225	125	18	
R. P. R.	99 14	129 12	228 26	3	254	229	105	112	221		5	
P. K.	573 181	534 46	1,107	}	445	1,108	411	614	1,041		64	
K.				-		101	NO CLEANER	51B.II.				
P. R.	94	.81	175	}	189	175	74	87	162	42	13	
P.	12 76	66	14 142 3	1	145	142	52	82	137	363	5	
R. P. R.	206	177	383 271	1	654	383	118	197	323	Los	58	
P. R.	210 21 16	61 23 9	44 25	1		44	27	14	41		3	
(P. (R.	397 240	347 73	744 313		352	744	271	380	663		79	
				-			COLUMN TO SERVICE STREET	ISO RUMBUS				
								-	media	E		
{ P.	1,093 106	948 26	2,041	3	2,173	2,041	1,078	918	1,996	100	45	
PR.	1,175	1,173	2,348 125 449	1	2,473	2,348	1,624	518	2,158	000	189	
{P. R.	219	230	7 256	3	456	450	243	173	232	100	2	
{P. R.	131	125 4 35	33 58	3	***	256	162	69	54	10	-	
€P. R.	23			3		58	34	20		-		
{P. R.	2,641 172	2,511 125	51.52 297	}	1,816	5,153	3,141	1,698	4,862		28	
		-		-		100000000000000000000000000000000000000	1	er of the latest	4579/2			
{₽. {R.	269 38	250 22	519 60	3	579	519	243	260	508	onali.	1	
{P. R.	269 38	250 22	519 60	1	579	519	243	260	508		1	
{P. R.	14,067 12,002	13,146 8,303	27,213 20,305	}	1,828	27,225	17,564	7,267	25,443		1,63	
-						- 111			áreic Fredde	antii		
{P. R.	77,744	67,368 18,859	1,45,112	}	2,195	1,45,124	71,597	57,448	1,34,613		10,32	

		ination.	Dary Vacc	80				Re-vace	cinatio	n.	
No.			icts or To	owns.	10 10	5:4:	Total.	dezen.	essful.	Ties	known
	lo fatoT lo fatoT	ne sni noder a years	5000		- 1		Total.	Succe	assi ui.	On	KIIOWI
1.	61	14	2		6		14	1	5	,efelt	16
		LARKAN	A COLLEC	TORATE.							
	Larkana	505	- der -		T. C.		86	1	14		4
	Kambar	to: "			"		115	1 100	22		4
	Ratodero	411			"		26		9	227	
8	190,1	110	124		Total		227	1	45	-	
		DADU	COLLECTO	PRATE.		1					
	Dadu	te "			T. C.		14	100	3		1
1	Sehwan	100					3	1	1		
	Kotri	58	55	147			271	12	10		
	Manjhand	591	311	355			25	100		630	. 3
	(3)	11	48	- 1- "		"		12			- 7
5	808	380		317	Total		313	202	14		(
		SUKKUR (COLLECTOR	EATE.							
	Sukkur				TC						
	9551	ate	950,1	49.2"	T. C.	***	132	185	43	Mark.	6
11	Shikarpur	818	1,524		"		125	FLI	28	17:	3
	Rohri	131	(b)	· 44	"		7	P.E.	***		
	Garhi Yasin	80 "	235				33	101	4	1/2	
	Ghotki	188	9.6		"	***		1 35			
is .	4,850		24872		114-54		297	-	75		11
-	UPPE	B SIND F	BONTIES (COLLECTOR	TE.			-			
	Jacobabad	089 "	· 545 ••	. 412	T. C.		60	100	6		3
	808	260	245	8/5	Total		60	776	6		3
5.1	593,85	7.35.7	486.77	Tot	al, Towns		2,0305	MARIE .	644	20.41	13,77
	Inspector's cos			***		-		276.8		15.53	
CONTRACT OF		-1000	17			-					
10.32	205,02.1	884,70	71,397	362,23 T	otal, Sind		56.863	807,101 867,11	3,719	45,55 10,85	25,60

No. I—contd.

in which	successful cases the results known.	Persons successfully vaccinated per 1,000 of	Total cost of Vaccination Department	Number of all successful vaccinations performed by the vaccination	Average cost of each successful case performed by the vaccination
Primary.	Re-vaccination.	population.		staff only.	staff.
17	18	19	20	21	22
•			Rs. a p.		Rs. a. p.
100'00	37.84	22.65			
100.00	29:73	25.52			***
99.10	50'00	31.57			
99:81	34.88	22.77		- · · · ·	Marie angle
100.00	75'60	25*14			
100.00	50-00	33 60		***	
99.38	4'45	33-19	***		
100.00		14.93	***	***	
99.70	5.28	28*87			
100.00	65'15	29:43			
99-95	29:47	34.97		***	
100.00		24.97			***
100.00	16.67	34*08			
100-00	***	11'64		***	
99:98	40.11	30-81			
100.00	20.69	32.64	***		4.4
100.00	20.69	32.64			
99.48	9.86	38-94			
99.87	11.80	35:59			

	to series	Distric	ts or Tov	vns.			Population according to census of 1931.	Average number of Vaccinators employed throughout the year.
1	- 10		2			9	3	4
	48	By Sy	ECIAL ST	AFF.				
	Local Boards						33,27,741	66
	Municipalities				(911		5,54,799	24
	Cantonments						4,530	2
					Total, Sind	-	38,87,070	92
	By Dispensary State	er .						
	By Railway Staff							
	Private Medical Pri	actitioners			***			
					Total		1 13 4	
					AND TOTAL	-	38,87,070	92

No. I-contd.

						Pri	mary Vaccin	ation.	
		mber of pers	ons	Average number of			Successful		
				persons vaccinated by each Vaccinator.	Total.	Under	One and under	Total of	Unknown
M	Male, Female. Total.		Total.			year.	six years.		
	5	6	7	8	9	10	11	12	15
						d same	-		
{P. R.	63,677 26,002	54,222 1,0556	1,17,899 36,558	2,340	1,17,899	54,033	50,181	1,09,170	8,690
{P. R.	13,969 11,672	13,041 8,259	27.010 19,931	1,956	27,022	17,492	7,200	25,286	1,614
{P. R.	98 330	105 44	203 374	288	203	72	67	157	22
{P. R.	77,744 38,0 4	67,368 18,859	1,45,112 86,863	2,195	1,45,124	71,597	57,448	1,34,613	10,326
{P. R.	119 5,835	4 64	123 5,899		123	2		108	10
{P. R.	148 729	92 110	240 839		240	140	48	195	38
{P. R.	10 61	8 18	18 79		18	14	3	17	1
{P. R.	277 6,625	104 192	381 6,817		381	156	51	320	49
{P. R.	78,021 44,629	67,472 19,051	1.45,493	2,374	1,45,505	71,753	57,499	1,34,933	10,375

	-							Re-vaccination.	
						20			
No.		Distr	icts or Tow	ns,			Total.	Successful.	Unknown,
	- make								
1	- 1		2	- 1			14	15	16
		By S	PECIAL ST	AFF.					
	Local Boards				011.5		36,558	3,075	11,830
	Municipalities				· nga		19,931	449	13,603
	Cantonments	***					374	195	168
						-			
	- Series			Tota	l, Sind		56,863	3,719	25,601
	By Dispensary	Staff					5,899	5,062	37
	By Railway Sta	ff					839	586	93
	Private Medica	l Practitio	ners				79	51	28
					Total		6,817	8,699	158
	mus.			GRAND	TOTAL		63,680	9,413	25,759

No. I .- contd.

Percentage of s in which were	uccessful cases the results mown.	Persons successfully vaccinated 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 vaccination
Primary.	Re-vaccination.	tion.	puia-	Department	staff only,	staff.
17	18	19	-175	20	21	22
				Rs. a, p.		Rs. a. p.
99-96	12'44		33.73		1,12,245	
99:57	7*10		46.39		25,735	
86*74	94.66	200	77.70		352	HI DECEMBER
99.87	11.90	adament.	35-59		1,38,332	
95:58	86:35				5,170	ALBERTA MARIE A
96.23	78-55	1 03			781	
100-00	100.00			-	68	
96-39	85:58				6,019	
99.86	24:84		37.14	Name of	1,44,351	

STATEMENT No. I .- contd

Summary.

Therease is nearestfue a nearestfue a nearestfue a	to the same	40 144		mber of accinated.	Total n	umber of perform	, cases	Percentage of succe-sful cases in which results were known.		
		14	Primary.	Re-vaccina- tion.	Primary,	Re-va cinatio		ary.	Re-vac- cination.	
8 8 88	-		0 2 0			1		1		
By Special St	off.									
by Special St	7 840.0				***	***				
Districts excl			1,17,899	36,558	1,17,899	36,5	58 99	96	12:44	
Towns			27,010	19,931	27,022	19,9	31 9	9-57	7.10	
Cantonments	132		203	374	203	3	74 80	5-74	94.66	
		Total	1,45,112	56,863	1,45,124	56,8	63 9	9-87	11.90	
Average nu persons vac each vacc	cinated by	Number o		successful vaccinations			Number of all successful		erage cost of each	
employed.	Persons vaccinated by each vaccinator.	Under one year.	One and under six years.	per 1.000 of population.	departm	V	accinations performed.	31	Case.	
- 1	\$10.5			1	Rs.	a. p.		. 2	Rs, a. p.	
56	2,340	54,033	50,181	33.73	1,3	12,245				
24	1,956	17.492	7,200	46:39	-4	25,735				
2	288	72	67	77.70		352				

STATEMENT No. I .- concld

Summary.

92	2,274	71,753	57,499	37-14	144,351			
		156	51		6,019	Station		
		140	48		781	1 881 (CaO)		
		14	5	***	68			***
		. 2			5,170	Rs.	a. p.	Rs. a.
Vaccinators employed.	Persons vaccinated by each vaccinator.	Under one year.	One and under six years.	population				openie -
Average n persons vac each vac	ccinated by	Number of successful nate	lly vacci-	Ratio of successful vaccinations per 1.000 of population.	Number of all success ful vacci- nations performed	Total o	cost of	Average cost of each successfu case.
This .	GR	AND TOTAL	145,493	63,680	145,505	63,680	99-86	24.84
		Total	381	6,817	381	6,817	96-39	85.28
By Railway I	Dispensaries		240	839	240	839	96.53	78-55
y private N	fedical Practi	itioners	18	79	18	79	100 00	100.00
y Dispensar	y Staff		123	5,899	123	5,899	95.58	86*35
			Primary	Re-vacci- nation.	Primary.	Re-vacci- nation.	Primary,	Re vacci- nation.
			Total no persons v	umber of vaccinated,	Total nur			

APPENDIX

Vaccination

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

SHEET STREET	111 13	SHEEL S	olienson.	Selan	PARTITION OF			- 4	
and and							-	PERSONS 1	PRIMARIE
Establishments.	Total Number.	Number success- fully vacci- nated.	Total Number,	Number success- fully vacci- nated.	Total Number,	Number success- fully vacci- nated.	Total Number,	Number success- fully vacci- nated.	Total number
10001 400	101 157			65	11			YEAT	RS ENDED
REST LEE	1931	-32.	1932	2-33.	1933	34.	1934-	35.	1935-
Government									
Municipality	18,431	15,463	21,469	17,558	19,004	15,180	21,334	17,791	22,395
Local Funds	87,024	80,316	94,804	89,650	88,707	83,569	90,698	84,656	96,412
Cantonment	118	116	91	91	62	62	139	139	60
Native States	5,649	5,502	6,352	6,215	6,579	6,459	6,406	6,257	
Dispensaries	771	606	1,747	1,398	841	620	334	276	521
Army							***		
Europeans						***			
Natives									
Total	1,11,993	1.02,003	1,24,463	1,14,912	1,15,193	1,05,890	1,18,911	1,09,119	1,19,388

Note.—Only the actual number of persons vaccinated and not the number of operations is to be

No.

Station

Date of despatch-

No. IV.

Return.

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

VACCINAT	ED.									
Number success- fully vacci- nated,	Total Number.	Number success- fully vacci- nated,	Total Number	Number success- fully vacci- nated.	Total Number.	Number success- fully vacci- nated.	Total Number,	Number success- fully vacci- nated.	Total Number	Number success- fully vacci- nated.
ON 31st 1	Мавси.			7	-		- 7			
36.	1936	-37.	1937	-38.	1938	-39.	193	9-40.	1940-	41.

18,926	22,986	20,775	30,684	28,699	27,395	26,228	30,662	29,007	27,010	25,286
89,768	1,00,045	93,120	1,07,655	99,071	1,08,846	1,00,218	1,11,584	1,02,538	1,17,899	1,09,170
60	131	121	198	161	226	221	162	140	203	157
							*.,			
455	499	461	683	510	494	425	798	445	381	320
***	***	***								

1,09,209	1,23,661	1,14,477	1,39,220	1,28,441	1.36,961	1,27,092	1,43,206	1,32,130	1,45,493	1,84,933

shown. Re-vaccinations are to be wholly excluded from the statement.

Assistant Director of Public Health

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